

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080119\
 Data File : VD063293.D
 Acq On : 1 Aug 2019 15:35
 Operator : VA/AP
 Sample : K4120-03
 Misc : 4.87g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T1-3

Quant Time: Aug 02 07:24:56 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	7.02	168	49092	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.20	114	79810	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	73023	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	36811	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	32180	59.08	ug/l	0.00
Spiked Amount			Recovery	=	118.16%	
35) Dibromofluoromethane	6.91	113	29921	43.91	ug/l	0.00
Spiked Amount			Recovery	=	87.82%	
50) Toluene-d8	10.40	98	54899	36.00	ug/l	0.00
Spiked Amount			Recovery	=	72.00%	
62) 4-Bromofluorobenzene	13.55	95	28968	41.68	ug/l	0.00
Spiked Amount			Recovery	=	83.36%	

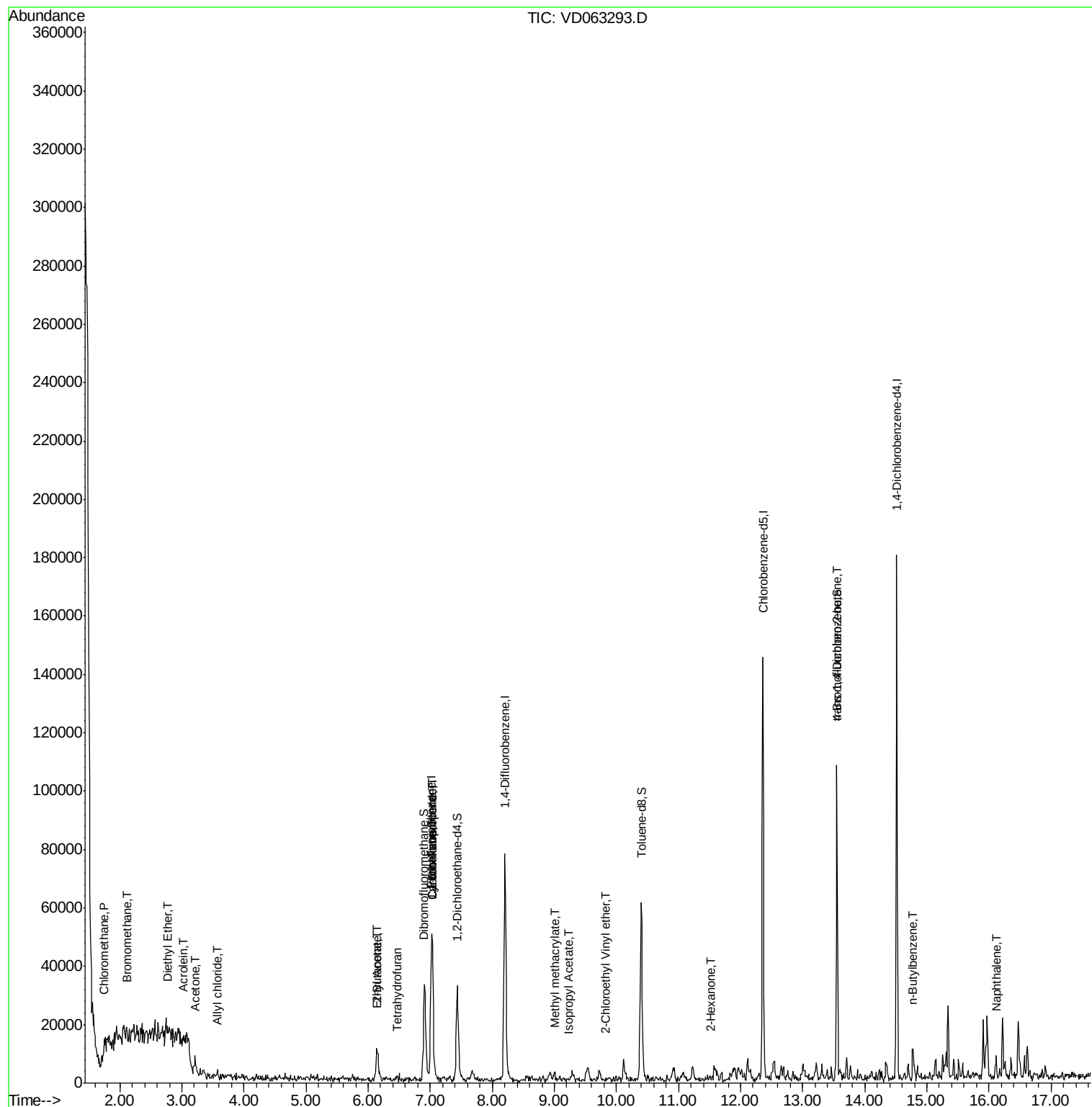
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.75	50	699	1.499	ug/l #	46
5) Bromomethane	2.10	94	2388	9.810	ug/l #	12
8) Diethyl Ether	2.77	74	207	1.580	ug/l	62
13) Acrolein	3.01	56	730	31.730	ug/l #	81
14) Allyl chloride	3.58	41	1084	1.787	ug/l #	11
16) Acetone	3.20	43	7615	71.749	ug/l #	62
25) 2-Butanone	6.13	43	638	5.990	ug/l #	56
29) Tetrahydrofuran	6.47	42	701	13.901	ug/l #	33
31) Cyclohexane	7.04	56	553	1.140	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	4092	5.618	ug/l #	44
37) Ethyl Acetate	6.16	43	502	1.534	ug/l #	10
38) Carbon Tetrachloride	7.04	117	5010	4.569	ug/l #	11
43) Isopropyl Acetate	9.24	43	535	1.280	ug/l #	49
48) Methyl methacrylate	9.00	41	666	2.457	ug/l #	25
58) 2-Chloroethyl Vinyl ether	9.84	63	197	1.008	ug/l #	47
59) 2-Hexanone	11.50	43	209	1.020	ug/l #	31
81) trans-1,4-Dichloro-2-buten	13.55	75	12827	104.475	ug/l #	3
89) n-Butylbenzene	14.78	91	3597	1.820	ug/l #	28
95) Naphthalene	16.12	128	2550	2.239	ug/l #	83

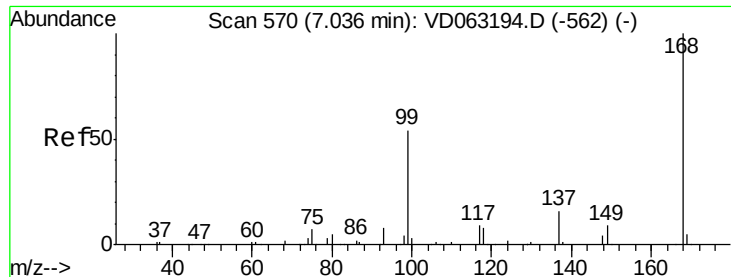
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 30 03:04:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.01 min

Lab File: VD063293.D

Acq: 1 Aug 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

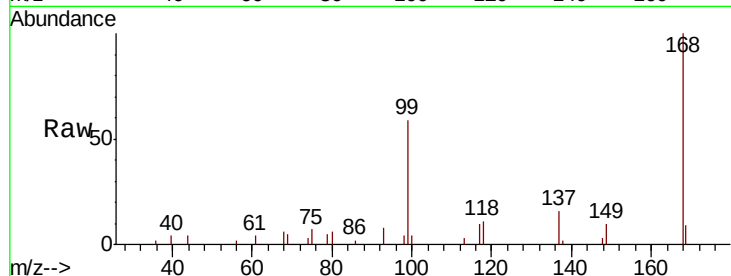
T1-3

Tot Ion:168 Resp: 49092

Ion Ratio Lower Upper

168 100

99 59.5 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.02

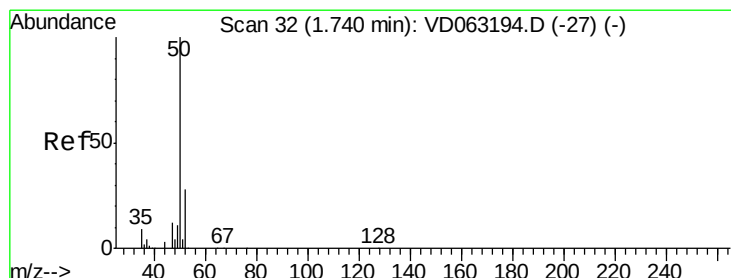
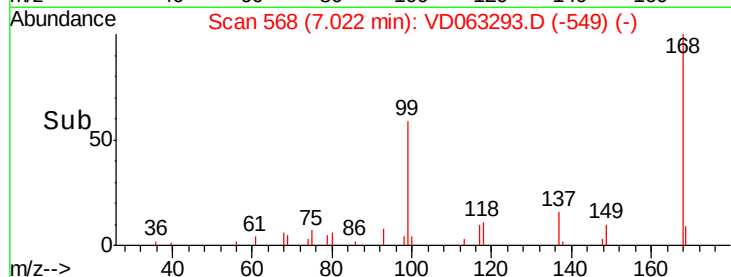
15000

10000

5000

0

Time--> 6.90 7.00 7.10



#3

Chloromethane

Concen: 1.499 ug/l

RT: 1.75 min Scan# 32

Delta R.T. 0.01 min

Lab File: VD063293.D

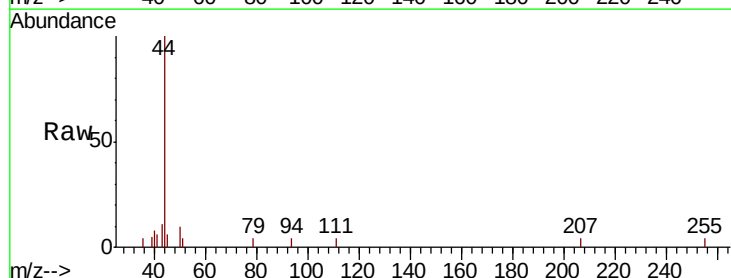
Acq: 1 Aug 2019 15:35

Tgt Ion: 50 Resp: 699

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

1.75

1000

800

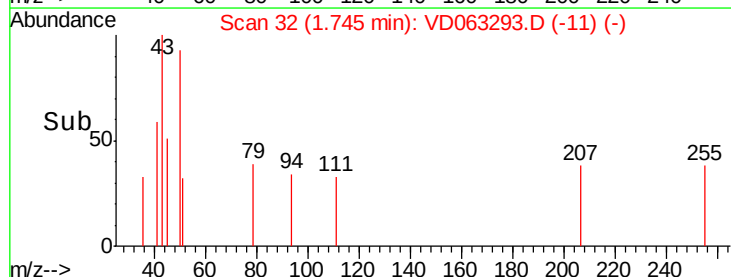
600

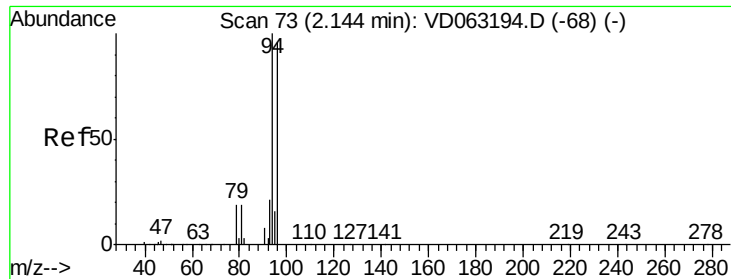
400

200

0

Time--> 1.72 1.74 1.76 1.78





#5

Bromomethane

Concen: 9.810 ug/l

RT: 2.10 min Scan# 68

Delta R.T. -0.04 min

Lab File: VD063293.D

Acq: 1 Aug 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

T1-3

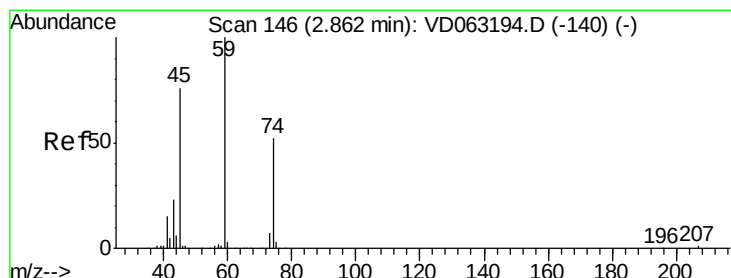
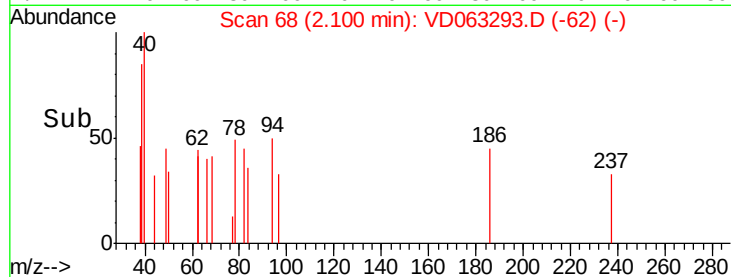
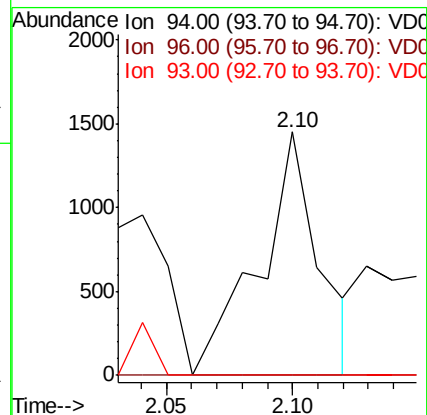
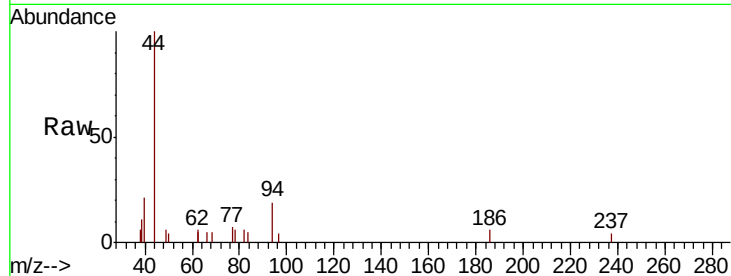
Tot Ion: 94 Resp: 2388

Ion Ratio Lower Upper

94 100

96 0.0 76.4 114.6#

93 0.0 17.3 25.9#



#8

Diethyl Ether

Concen: 1.580 ug/l

RT: 2.77 min Scan# 136

Delta R.T. -0.09 min

Lab File: VD063293.D

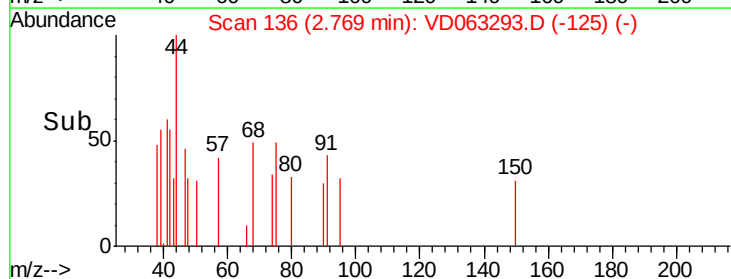
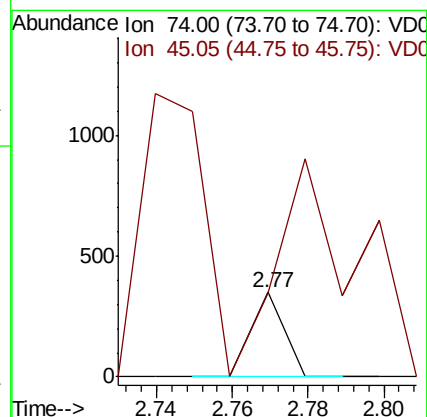
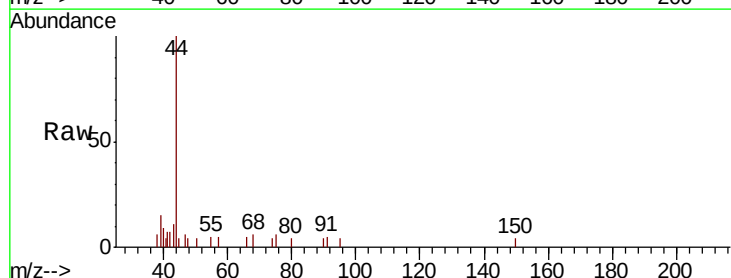
Acq: 1 Aug 2019 15:35

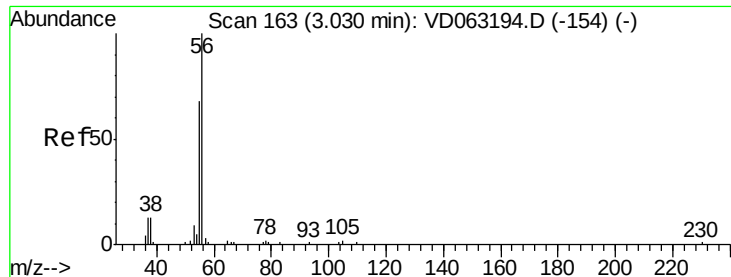
Tgt Ion: 74 Resp: 207

Ion Ratio Lower Upper

74 100

45 99.4 73.6 220.8





#13

Acrolein

Concen: 31.730 ug/l

RT: 3.01 min Scan# 160

Delta R.T. -0.02 min

Lab File: VD063293.D

Acq: 1 Aug 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

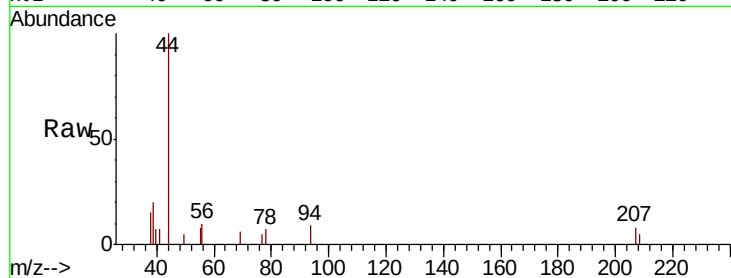
T1-3

Tot Ion: 56 Resp: 730

Ion Ratio Lower Upper

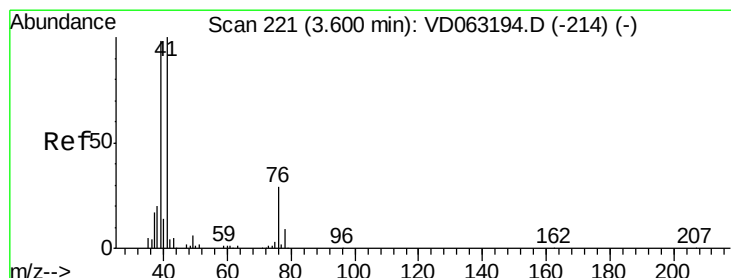
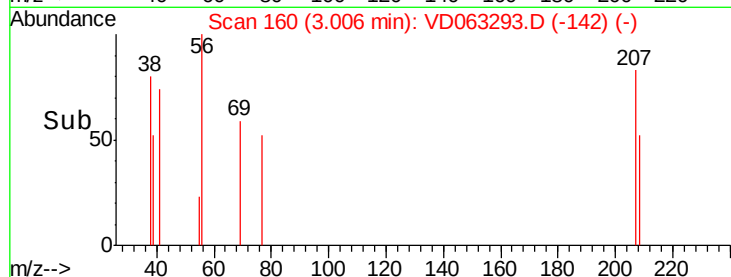
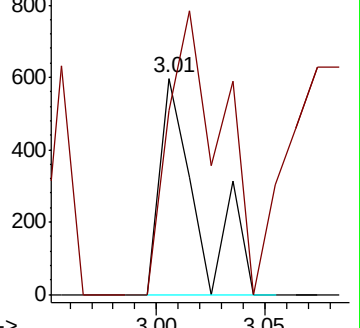
56 100

55 84.9 55.3 82.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 1.787 ug/l

RT: 3.58 min Scan# 218

Delta R.T. -0.02 min

Lab File: VD063293.D

Acq: 1 Aug 2019 15:35

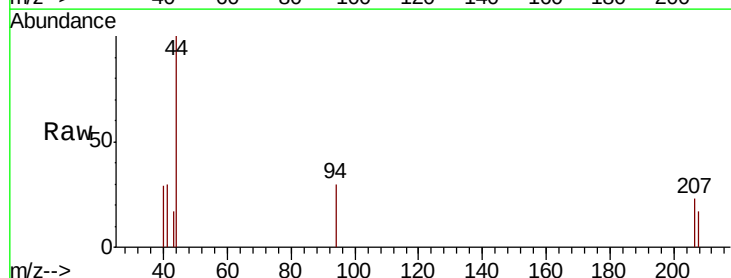
Tgt Ion: 41 Resp: 1084

Ion Ratio Lower Upper

41 100

39 0.0 78.6 117.8#

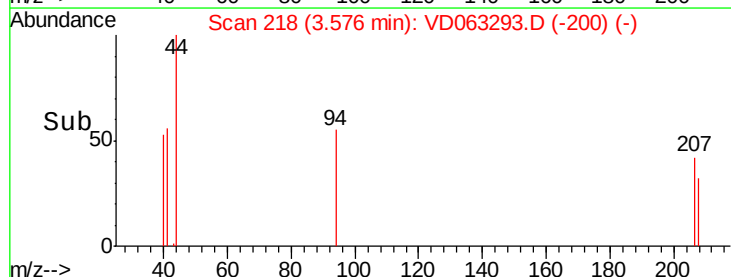
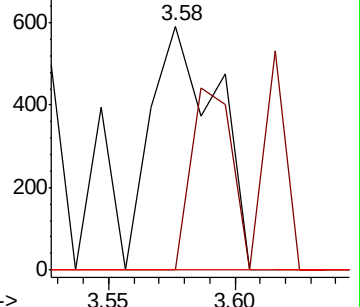
76 0.0 24.5 36.7#

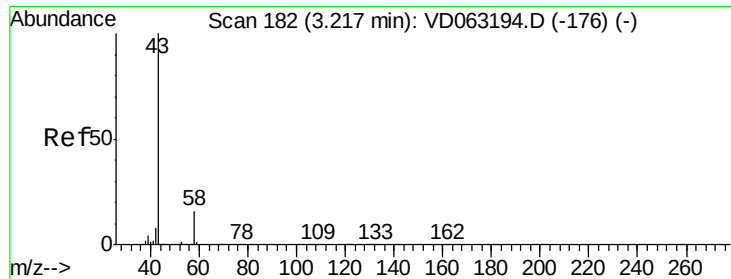


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#16

Acetone

Concen: 71.749 ug/l

RT: 3.20 min Scan# 180

Delta R.T. -0.01 min

Lab File: VD063293.D

Acq: 1 Aug 2019 15:35

Instrument :

MSVOA_D

ClientSampled :

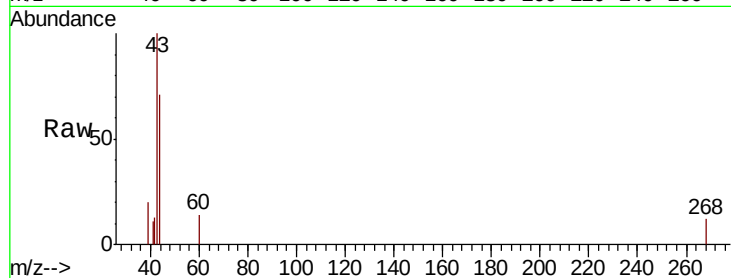
T1-3

Tot Ion: 43 Resp: 7615

Ion Ratio Lower Upper

43 100

58 0.0 13.0 19.4#

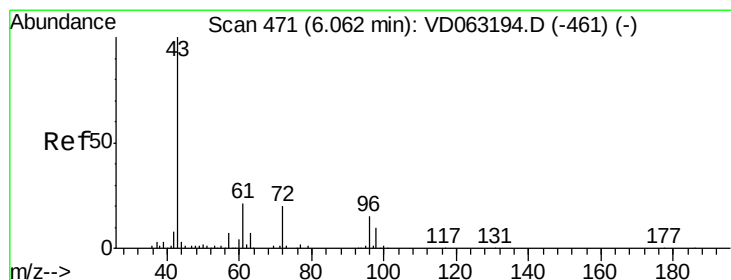
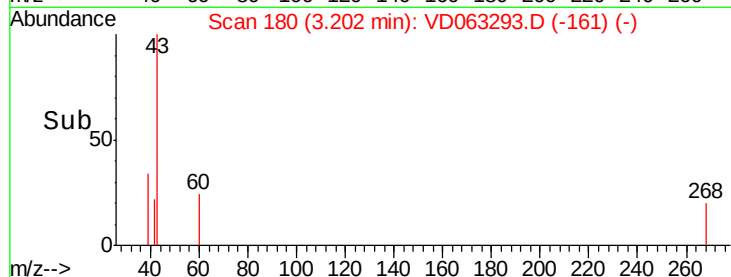


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.20

Time-->



#25

2-Butanone

Concen: 5.990 ug/l

RT: 6.13 min Scan# 477

Delta R.T. 0.06 min

Lab File: VD063293.D

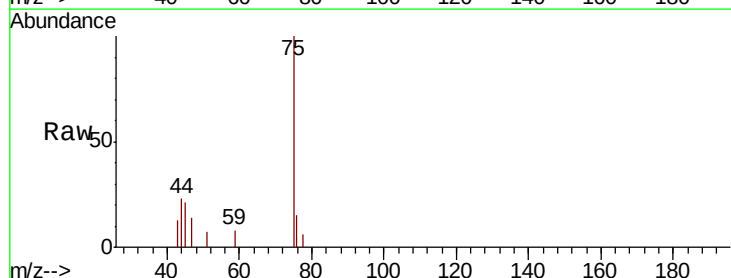
Acq: 1 Aug 2019 15:35

Tgt Ion: 43 Resp: 638

Ion Ratio Lower Upper

43 100

72 0.0 16.3 24.5#

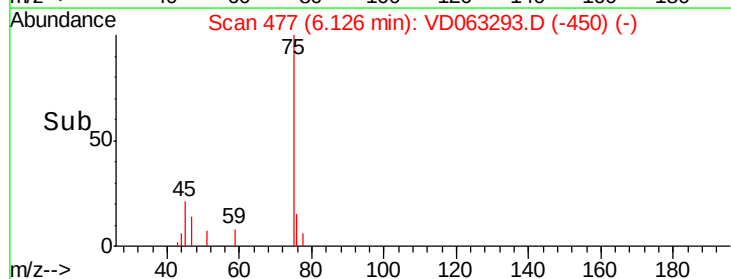


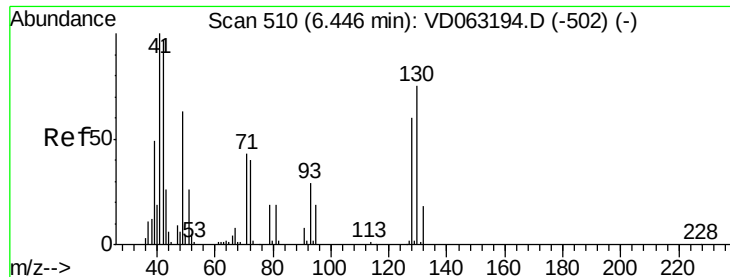
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.13

Time-->





#29

Tetrahydrofuran

Concen: 13.901 ug/l

RT: 6.47 min Scan# 512

Delta R.T. 0.03 min

Lab File: VD063293.D

Acq: 1 Aug 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

T1-3

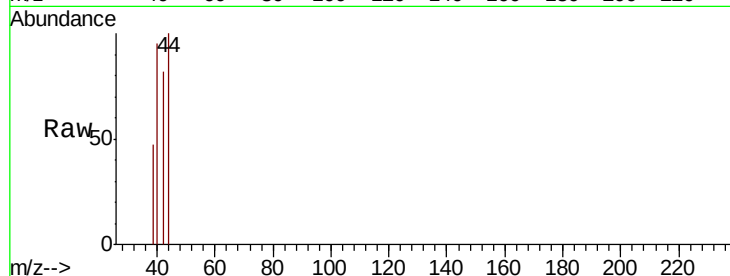
Tot Ion: 42 Resp: 701

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

600

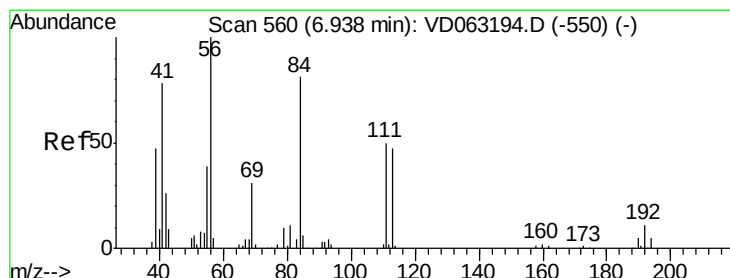
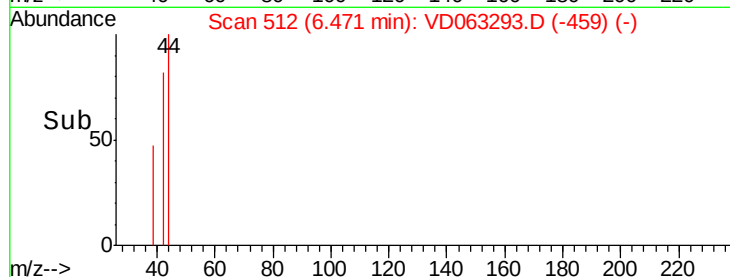
400

200

0

6.47

Time-->



#31

Cyclohexane

Concen: 1.140 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD063293.D

Acq: 1 Aug 2019 15:35

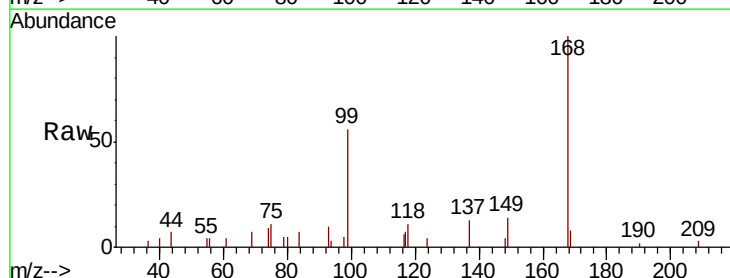
Tgt Ion: 56 Resp: 553

Ion Ratio Lower Upper

56 100

69 169.4 24.5 36.7#

84 168.6 64.9 97.3#



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

1200

1000

800

600

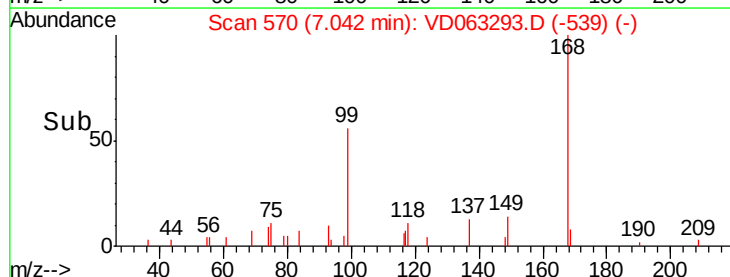
400

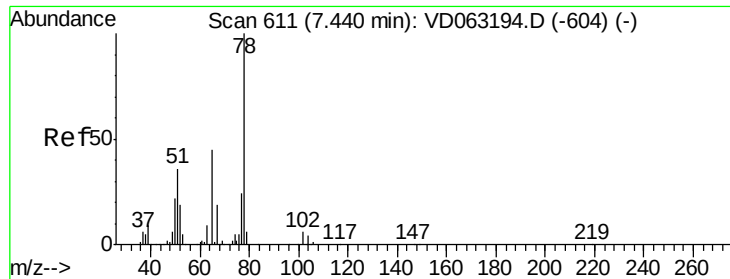
200

0

7.04

Time-->





#33

1,2-Dichloroethane-d4

Concen: 59.076 ug/l

RT: 7.44 min Scan# 610

Delta R.T. -0.00 min

Lab File: VD063293.D

Acq: 1 Aug 2019 15:35

Instrument :

MSVOA_D

ClientSampled :

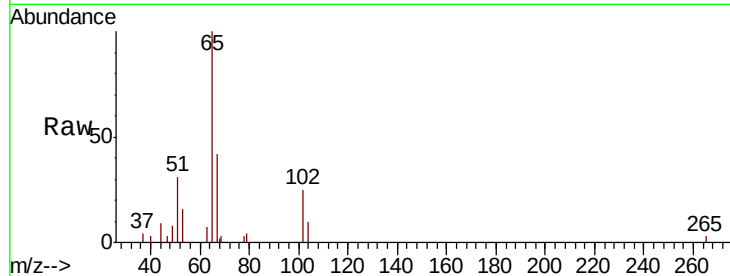
T1-3

Tot Ion: 65 Resp: 32180

Ion Ratio Lower Upper

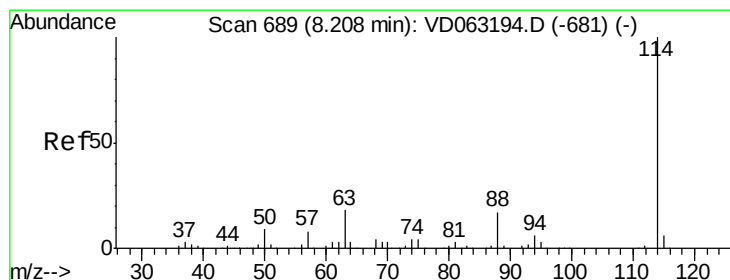
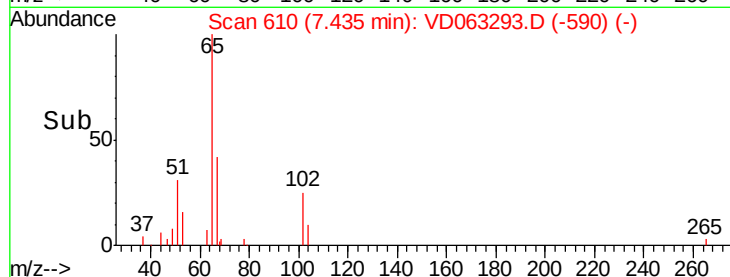
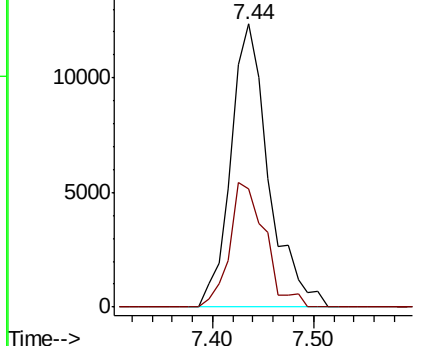
65 100

67 41.8 0.0 85.8



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: 8.20 min Scan# 688

Delta R.T. -0.00 min

Lab File: VD063293.D

Acq: 1 Aug 2019 15:35

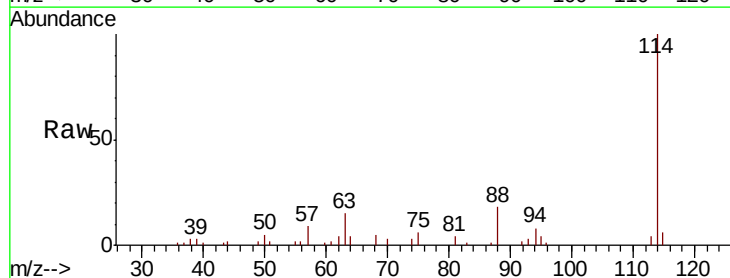
Tgt Ion:114 Resp: 79810

Ion Ratio Lower Upper

114 100

63 15.2 0.0 35.2

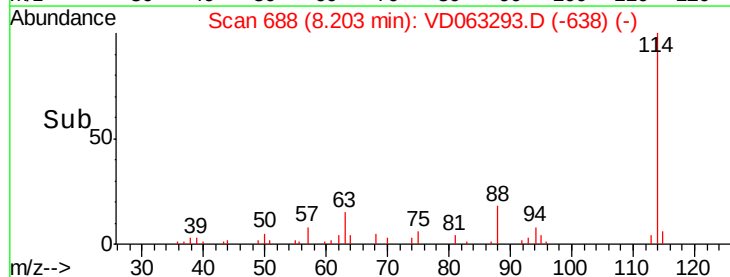
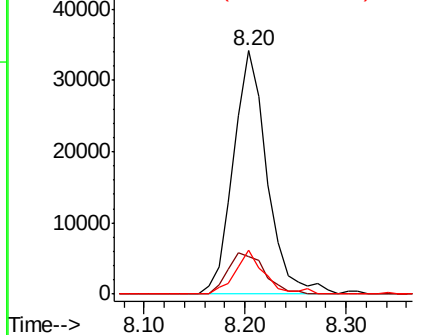
88 18.2 0.0 34.6

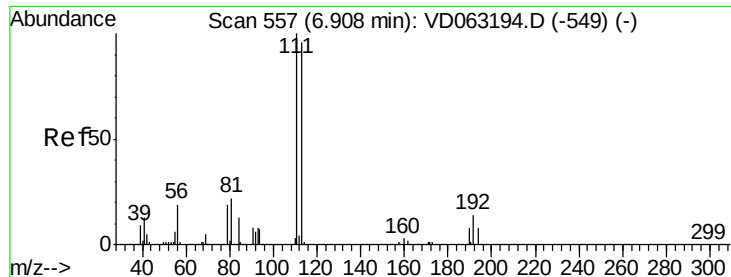


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

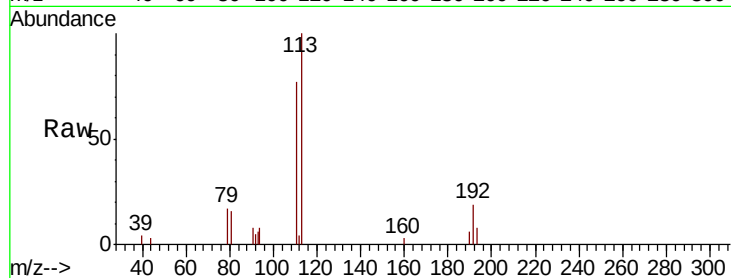




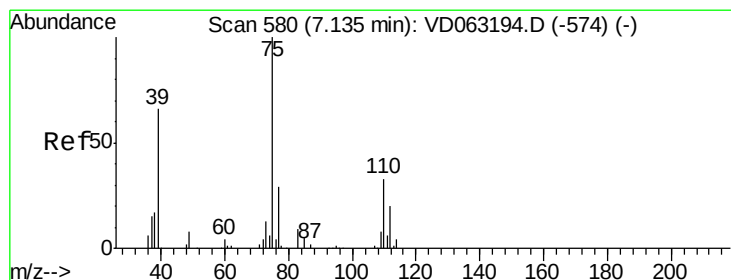
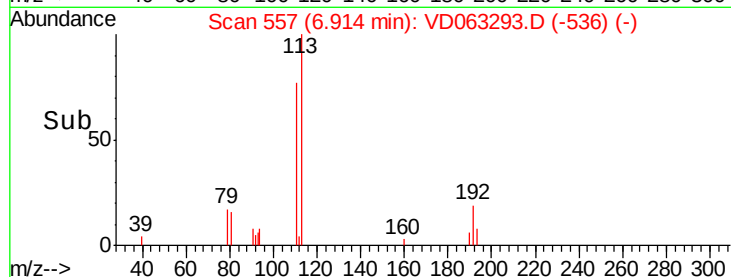
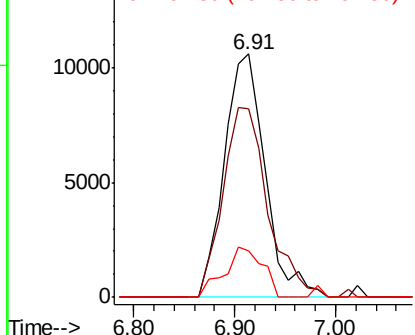
#35
 Dibromofluoromethane
 Concen: 43.911 ug/l
 RT: 6.91 min Scan# 557
 Delta R.T. 0.01 min
 Lab File: VD063293.D
 Acq: 1 Aug 2019 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 T1-3

Tot Ion	Ratio	Lower	Upper
113	100		
111	77.3	83.2	124.8#
192	19.0	11.8	17.8#

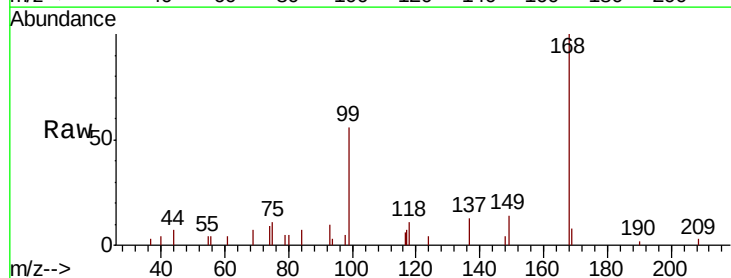


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

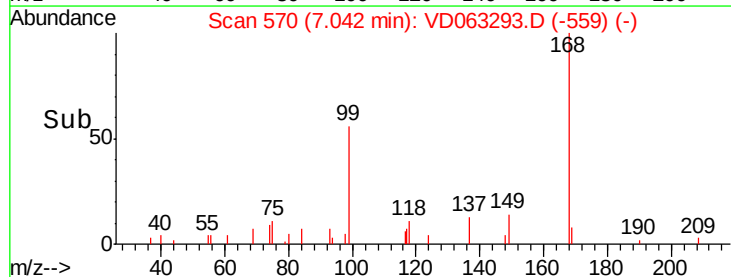
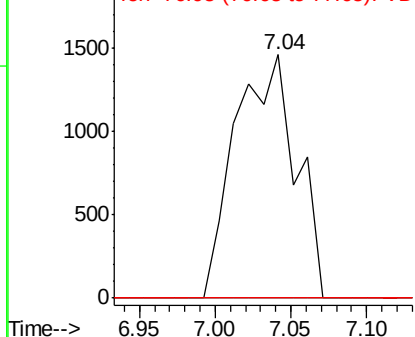


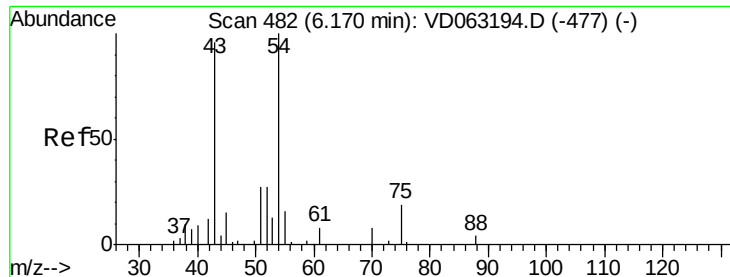
#36
 1,1-Dichloropropene
 Concen: 5.618 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.09 min
 Lab File: VD063293.D
 Acq: 1 Aug 2019 15:35

Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	16.1	48.2#
77	0.0	22.7	34.1#



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

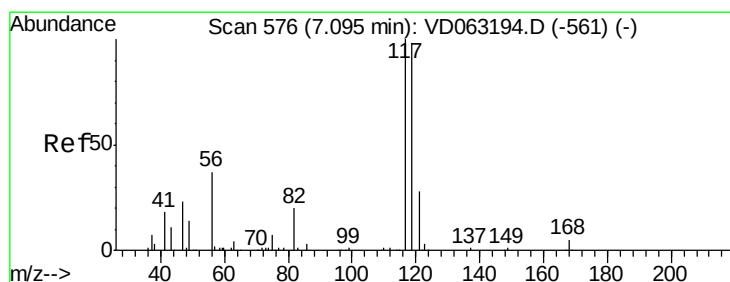
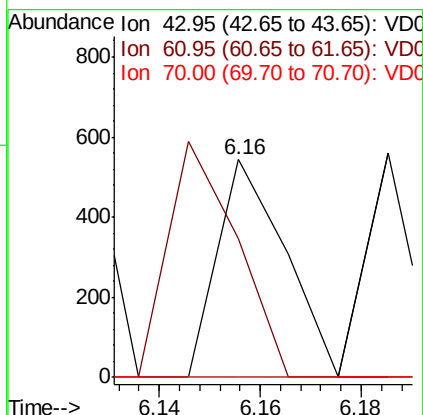
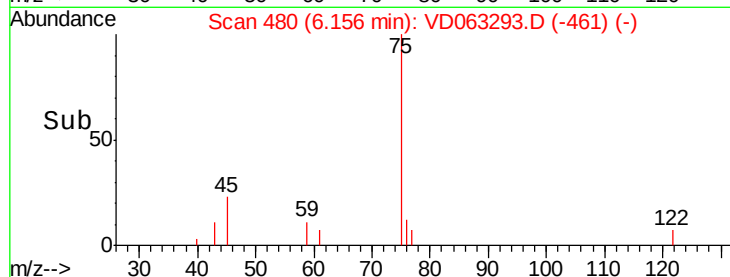
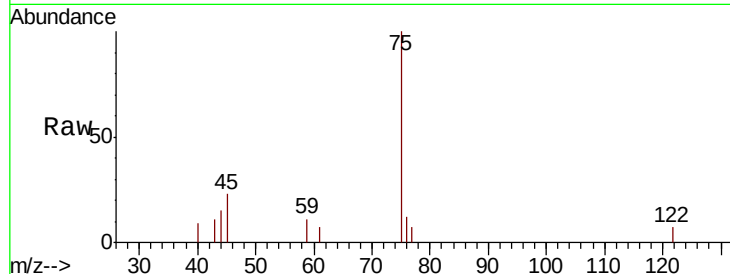




#37
Ethyl Acetate
Concen: 1.534 ug/l
RT: 6.16 min Scan# 480
Delta R.T. -0.01 min
Lab File: VD063293.D
Acq: 1 Aug 2019 15:35

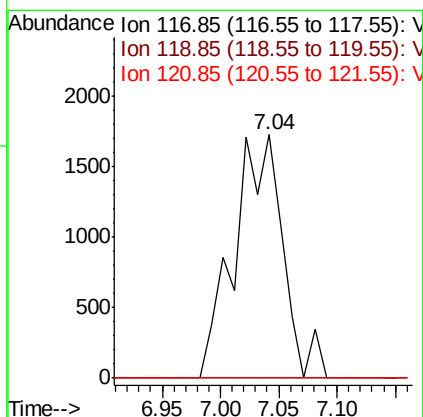
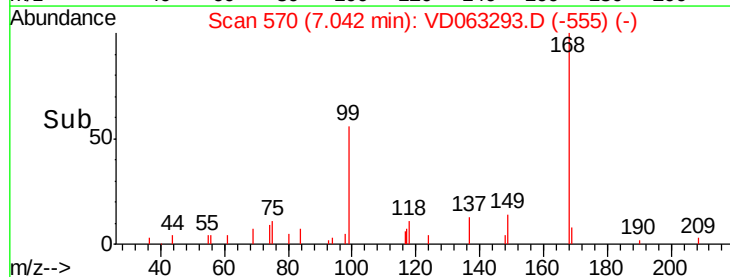
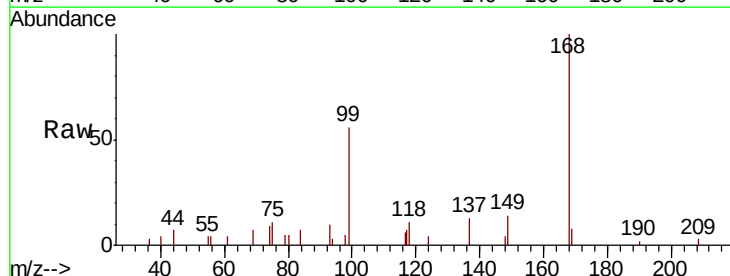
Instrument :
MSVOA_D
ClientSampleId :
T1-3

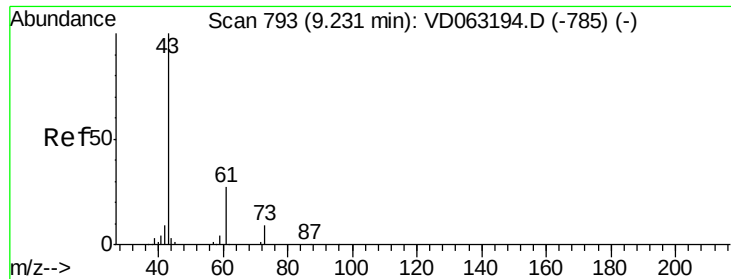
Tot Ion: 43 Resp: 502
Ion Ratio Lower Upper
43 100
61 63.7 11.3 16.9#
70 0.0 5.1 7.7#



#38
Carbon Tetrachloride
Concen: 4.569 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.05 min
Lab File: VD063293.D
Acq: 1 Aug 2019 15:35

Tgt Ion: 117 Resp: 5010
Ion Ratio Lower Upper
117 100
119 0.0 78.2 117.2#
121 0.0 22.1 33.1#





#43

Isopropyl Acetate

Concen: 1.280 ug/l

RT: 9.24 min Scan# 793

Delta R.T. 0.01 min

Lab File: VD063293.D

Acq: 1 Aug 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

T1-3

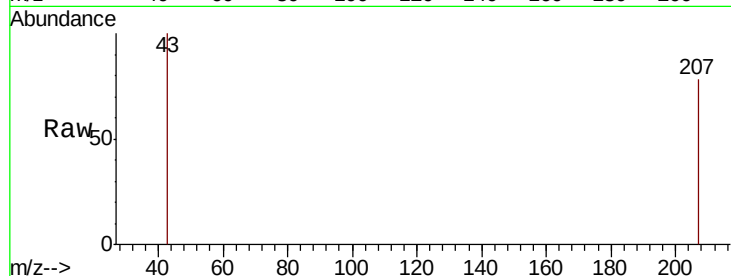
Tot Ion: 43 Resp: 535

Ion Ratio Lower Upper

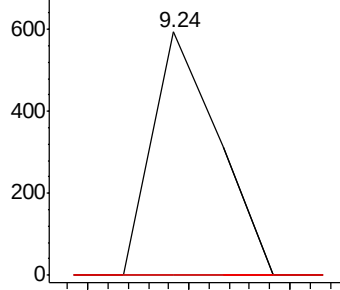
43 100

61 0.0 21.4 32.0#

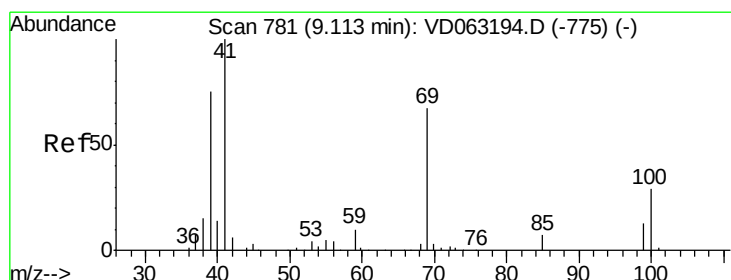
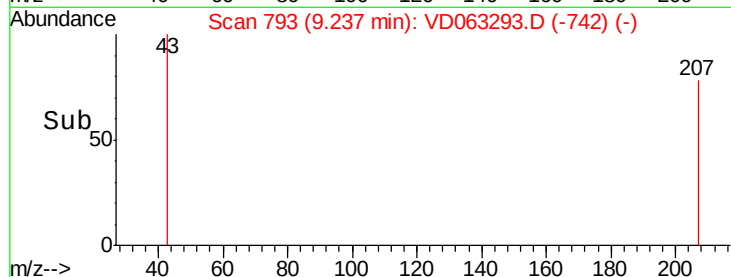
87 0.0 0.2 0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC



Time-->



#48

Methyl methacrylate

Concen: 2.457 ug/l

RT: 9.00 min Scan# 769

Delta R.T. -0.11 min

Lab File: VD063293.D

Acq: 1 Aug 2019 15:35

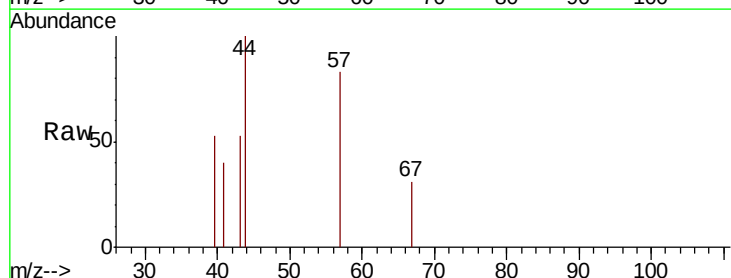
Tgt Ion: 41 Resp: 666

Ion Ratio Lower Upper

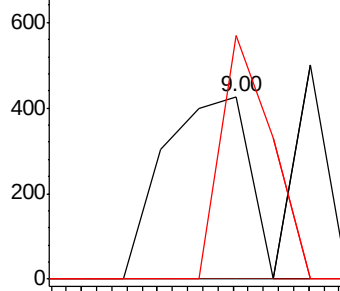
41 100

69 0.0 53.4 80.0#

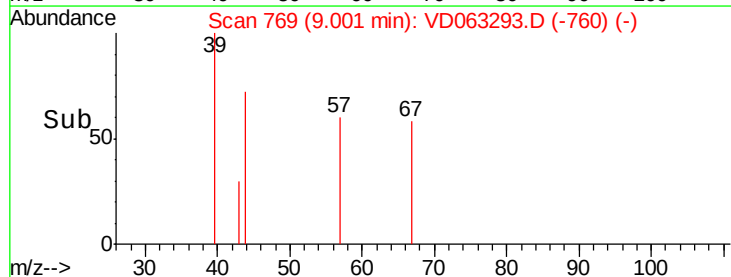
39 133.3 60.3 90.5#

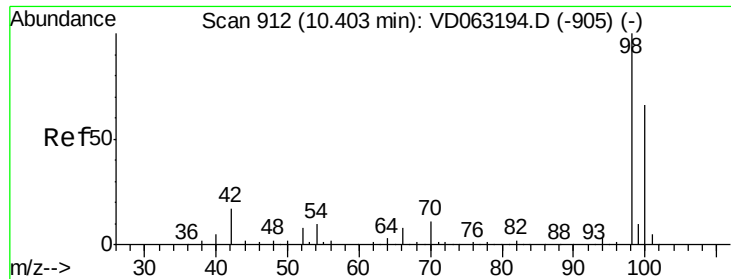


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC



Time-->





#50

Toluene-d8

Concen: 36.000 ug/l

RT: 10.40 min Scan# 911

Delta R.T. -0.00 min

Lab File: VD063293.D

Acq: 1 Aug 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

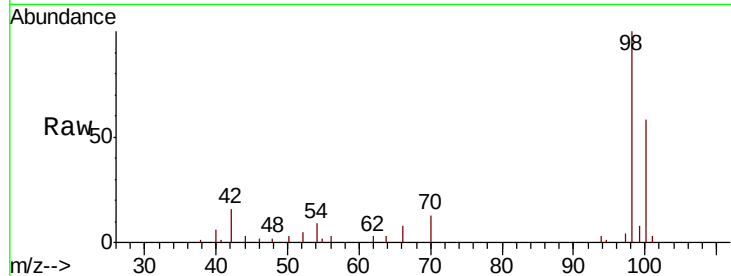
T1-3

Tot Ion: 98 Resp: 54899

Ion Ratio Lower Upper

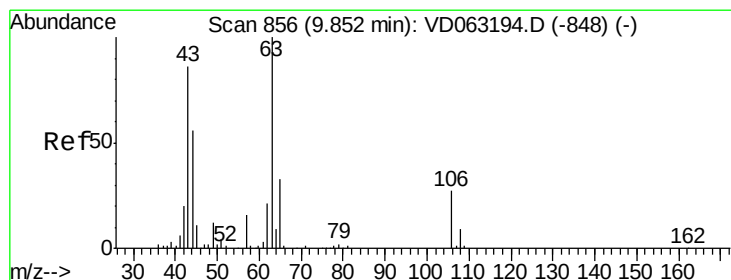
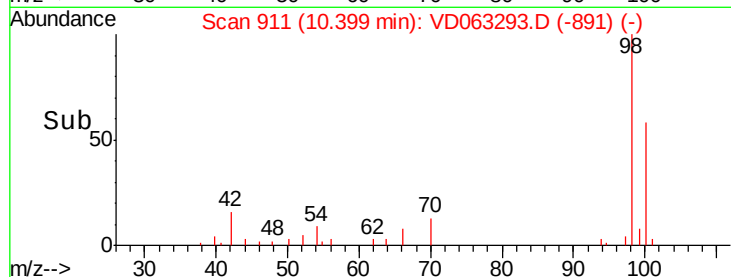
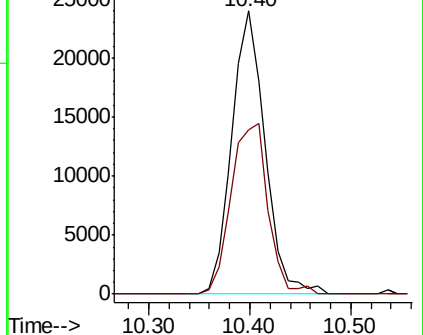
98 100

100 57.9 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VD063194.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD063194.D (-905) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 1.008 ug/l

RT: 9.84 min Scan# 854

Delta R.T. -0.01 min

Lab File: VD063293.D

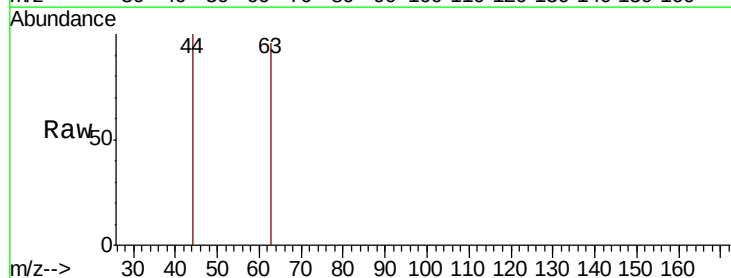
Acq: 1 Aug 2019 15:35

Tgt Ion: 63 Resp: 197

Ion Ratio Lower Upper

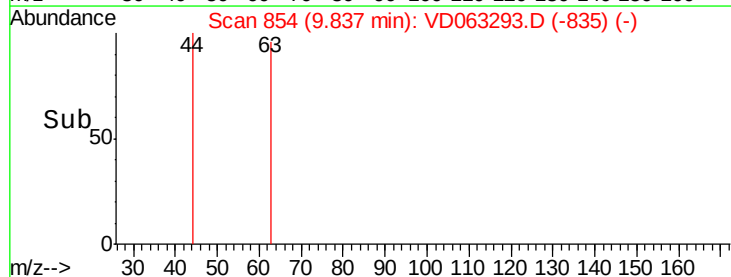
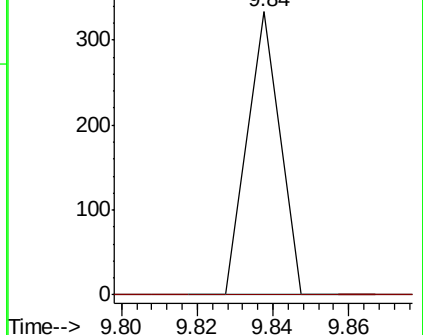
63 100

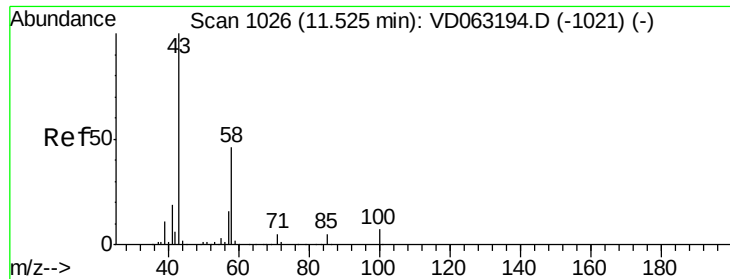
106 0.0 22.0 33.0#



Abundance Ion 62.95 (62.65 to 63.65): VD063194.D (-848) (-)

Ion 105.95 (105.65 to 106.65): VD063194.D (-848) (-)

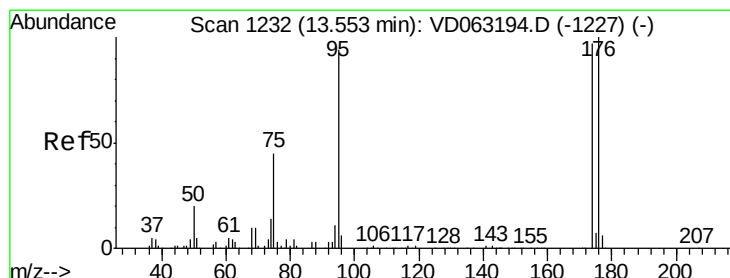
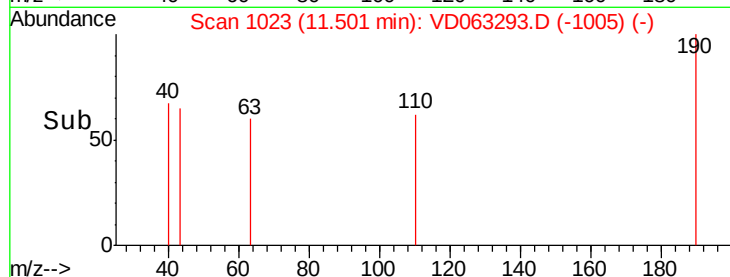
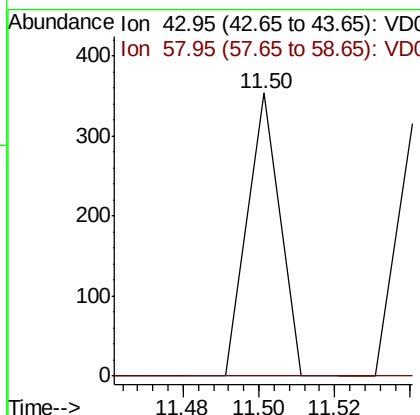
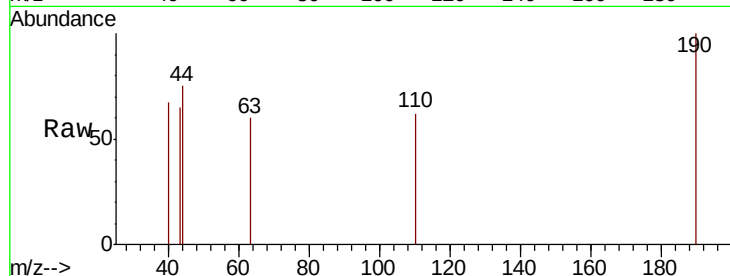




#59
2-Hexanone
Concen: 1.020 ug/l
RT: 11.50 min Scan# 1023
Delta R.T. -0.02 min
Lab File: VD063293.D
Acq: 1 Aug 2019 15:35

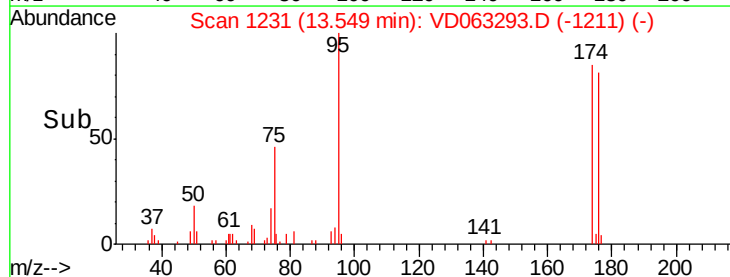
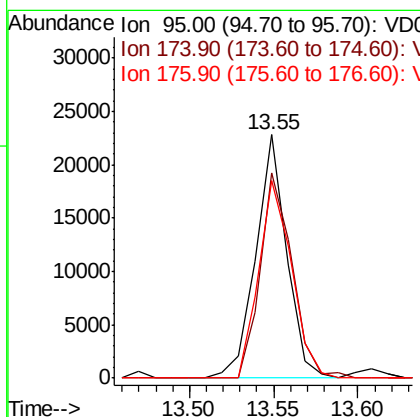
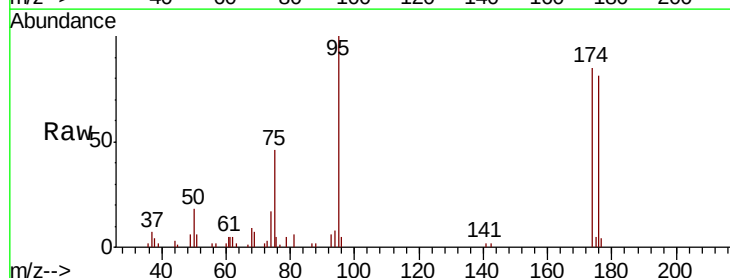
Instrument :
MSVOA_D
ClientSampleId :
T1-3

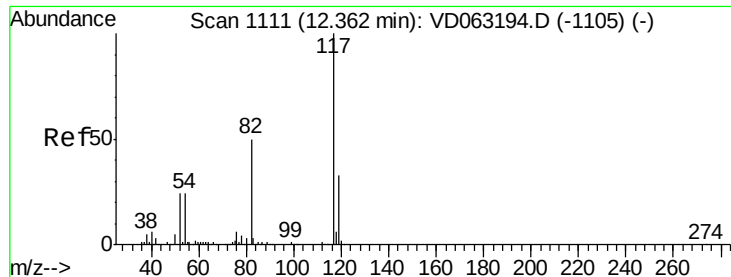
Tot Ion: 43 Resp: 209
Ion Ratio Lower Upper
43 100
58 0.0 22.9 68.5#



#62
4-Bromofluorobenzene
Concen: 41.685 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VD063293.D
Acq: 1 Aug 2019 15:35

Tgt Ion: 95 Resp: 28968
Ion Ratio Lower Upper
95 100
174 84.5 0.0 205.4
176 81.4 0.0 211.8

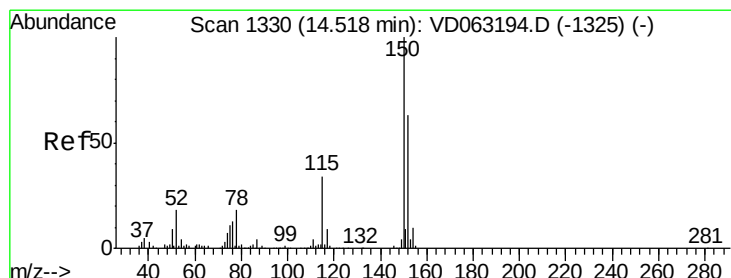
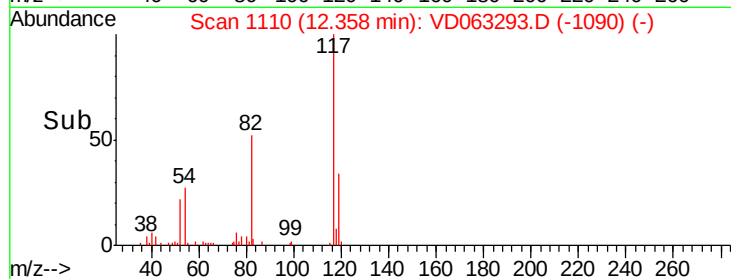
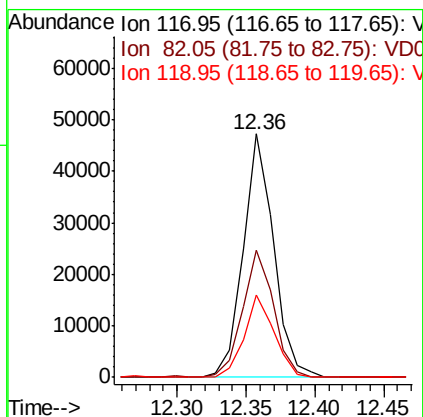
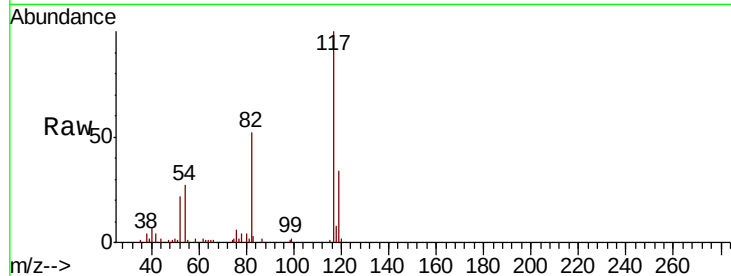




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1110
Delta R.T. -0.00 min
Lab File: VD063293.D
Acq: 1 Aug 2019 15:35

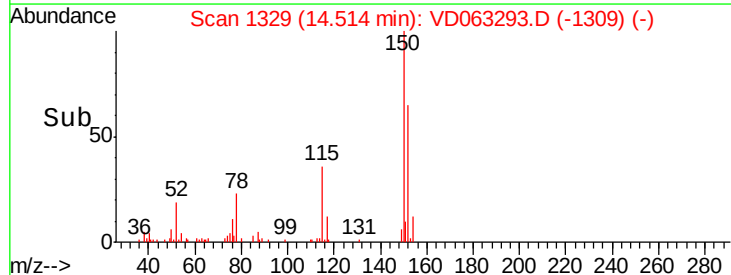
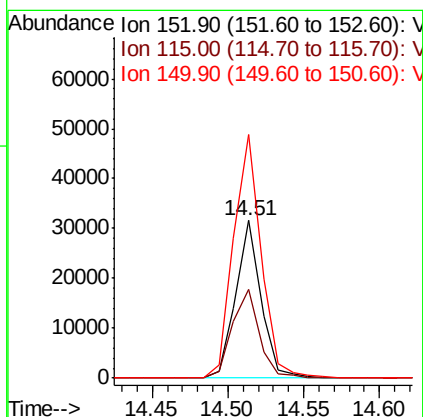
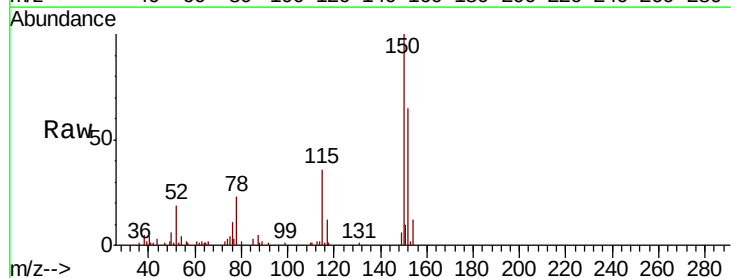
Instrument :
MSVOA_D
ClientSampleId :
T1-3

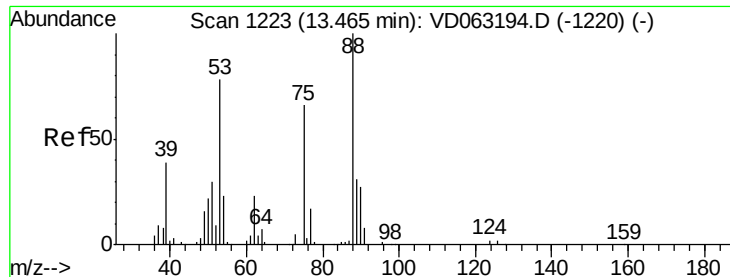
Tot Ion:117 Resp: 73023
Ion Ratio Lower Upper
117 100
82 52.3 40.1 60.1
119 33.9 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VD063293.D
Acq: 1 Aug 2019 15:35

Tgt Ion:152 Resp: 36811
Ion Ratio Lower Upper
152 100
115 55.9 27.5 82.4
150 154.4 0.0 320.6





#81

trans-1,4-Dichloro-2-butene

Concen: 104.475 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD063293.D

Acq: 1 Aug 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

T1-3

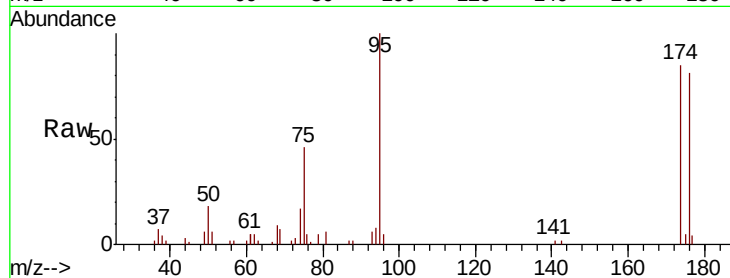
Tot Ion: 75 Resp: 12827

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

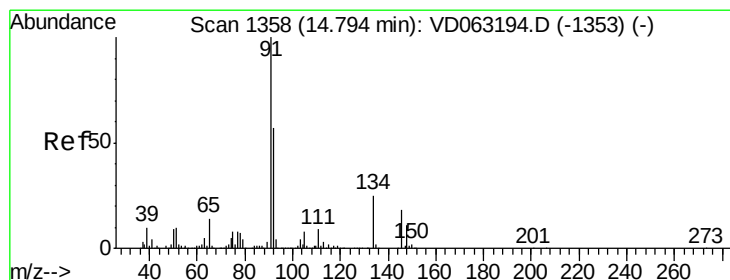
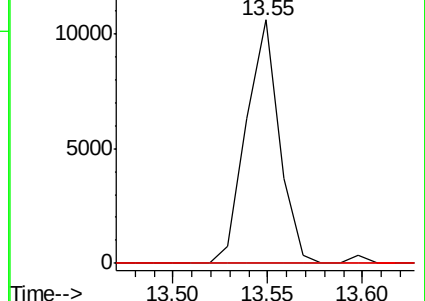
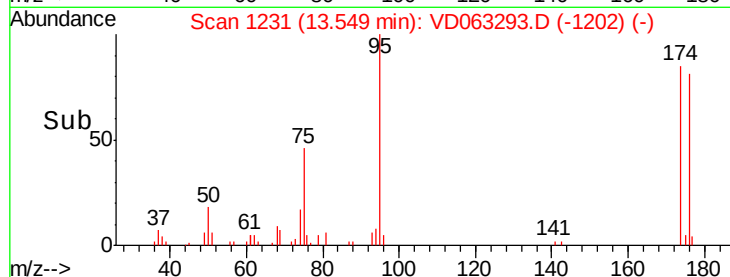
89 0.0 37.4 56.0#



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



#89

n-Butylbenzene

Concen: 1.820 ug/l

RT: 14.78 min Scan# 1356

Delta R.T. -0.01 min

Lab File: VD063293.D

Acq: 1 Aug 2019 15:35

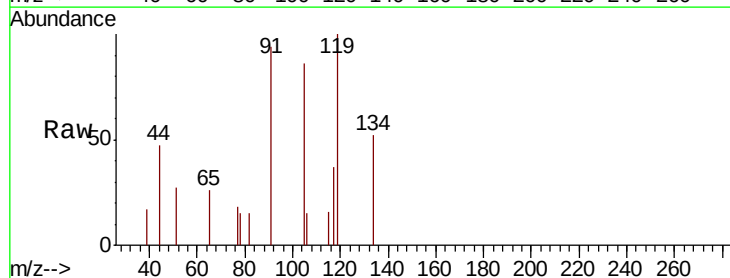
Tgt Ion: 91 Resp: 3597

Ion Ratio Lower Upper

91 100

92 0.0 28.3 85.0#

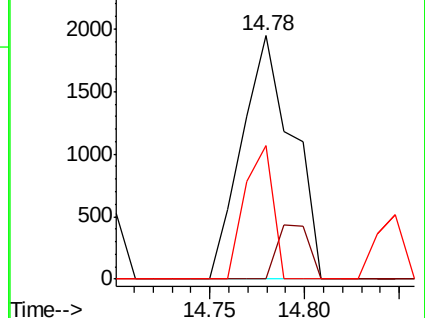
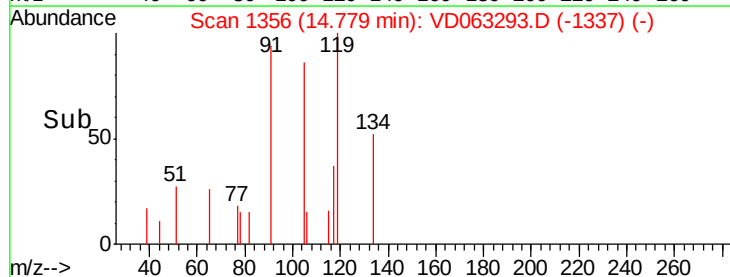
134 54.7 12.3 36.8#

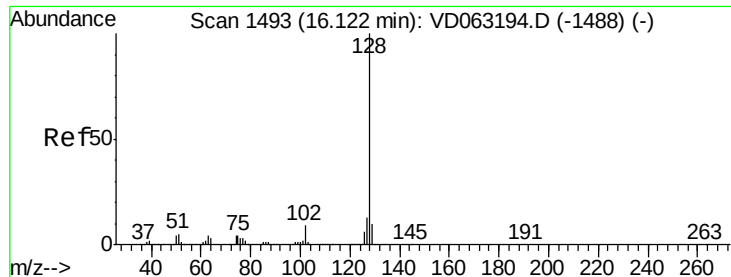


Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): V





#95

Naphthalene

Concen: 2.239 ug/l

RT: 16.12 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VD063293.D

Acq: 1 Aug 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

T1-3

Tot Ion:128 Resp: 2550

Ion Ratio Lower Upper

128 100

127 17.8 10.2 15.4#

129 17.9 7.8 11.8#

