

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD073119\
 Data File : VD063280.D
 Acq On : 31 Jul 2019 15:48
 Operator : VA/AP
 Sample : K4107-04
 Misc : 5.04g/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 01 04:03:15 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	7.04	168	197229	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	265760	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	227349	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	107509	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	111599	50.99	ug/l	0.00
Spiked Amount			Recovery	=	101.98%	
35) Dibromofluoromethane	6.92	113	104983	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	
50) Toluene-d8	10.40	98	203795	40.13	ug/l	0.00
Spiked Amount			Recovery	=	80.26%	
62) 4-Bromofluorobenzene	13.55	95	88479	38.24	ug/l	0.00
Spiked Amount			Recovery	=	76.48%	

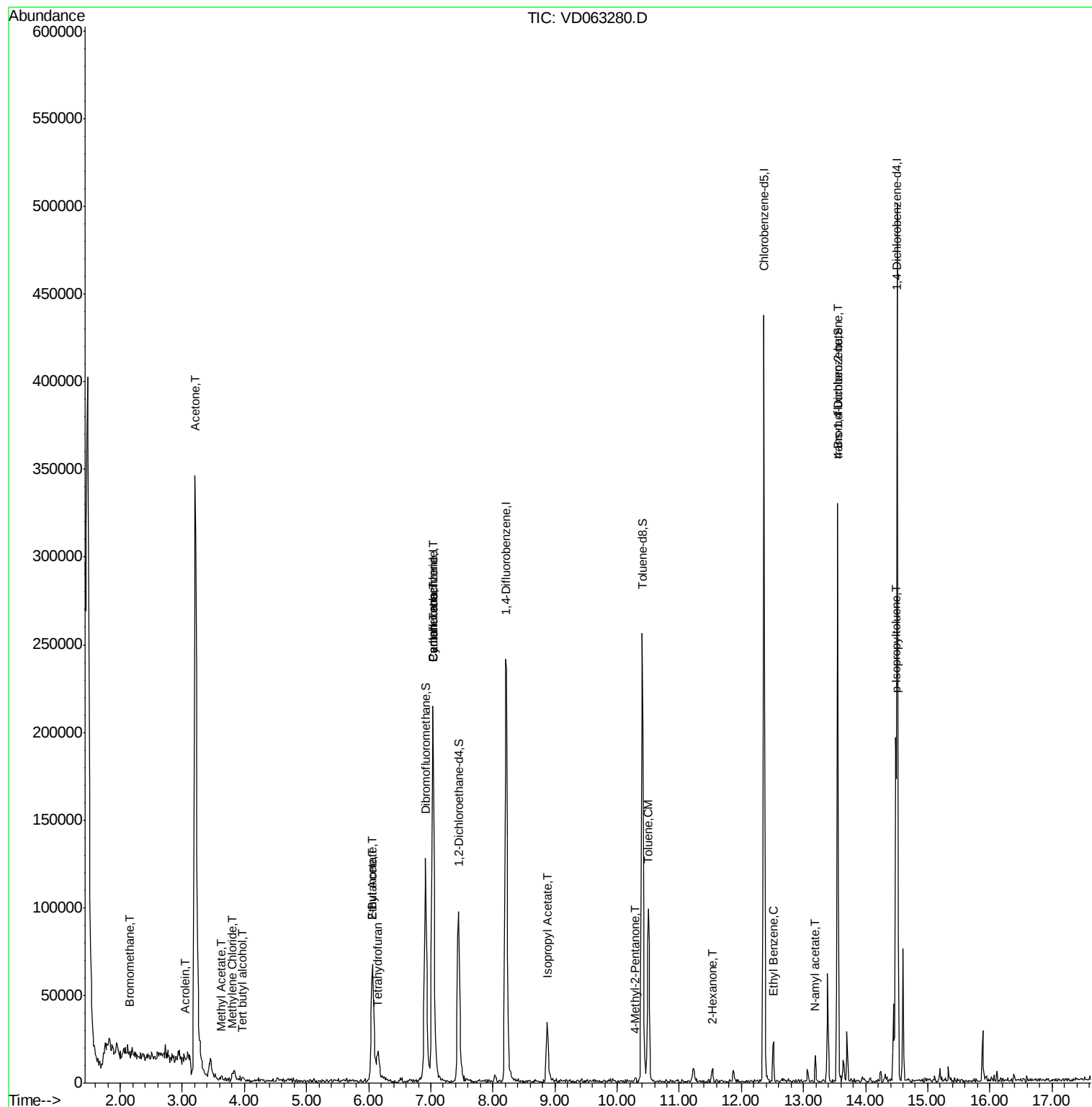
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	2049	2.095	ug/l #	19
11) Tert butyl alcohol	3.97	59	776	8.080	ug/l #	69
13) Acrolein	3.05	56	237	2.564	ug/l #	15
16) Acetone	3.21	43	707668	1659.656	ug/l	98
18) Methyl Acetate	3.64	43	1713	2.091	ug/l #	60
20) Methylene Chloride	3.80	84	2206	1.280	ug/l #	62
25) 2-Butanone	6.06	43	145589	340.222	ug/l	94
29) Tetrahydrofuran	6.15	42	1235	6.096	ug/l #	33
31) Cyclohexane	7.03	56	4245	2.178	ug/l #	1
37) Ethyl Acetate	6.06	43	145222	133.276	ug/l #	70
38) Carbon Tetrachloride	7.03	117	19963	5.467	ug/l #	15
43) Isopropyl Acetate	8.88	43	48445	34.805	ug/l #	49
51) 4-Methyl-2-Pentanone	10.29	43	1671	1.765	ug/l #	42
52) Toluene	10.50	92	49880	14.754	ug/l	76
59) 2-Hexanone	11.52	43	5823	8.536	ug/l	75
67) Ethyl Benzene	12.52	91	14172	1.908	ug/l #	84
74) N-amyl acetate	13.19	43	7476	4.191	ug/l #	62
81) trans-1,4-Dichloro-2-buten	13.54	75	41594	115.998	ug/l #	3
86) p-Isopropyltoluene	14.49	119	87567	13.104	ug/l	96

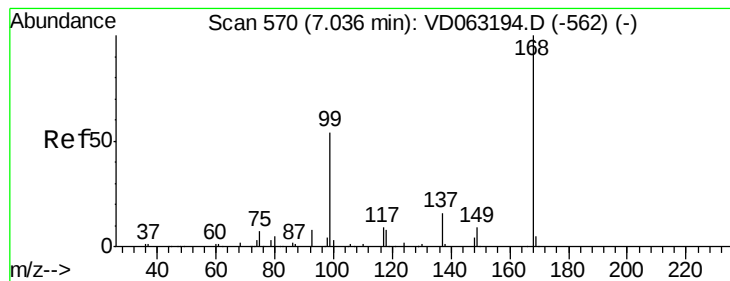
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Aug 01 04:03:15 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
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: 7.04 min Scan# 570

Delta R.T. -0.00 min

Lab File: VD063280.D

Acq: 31 Jul 2019 15:48

Instrument :

MSVOA_D

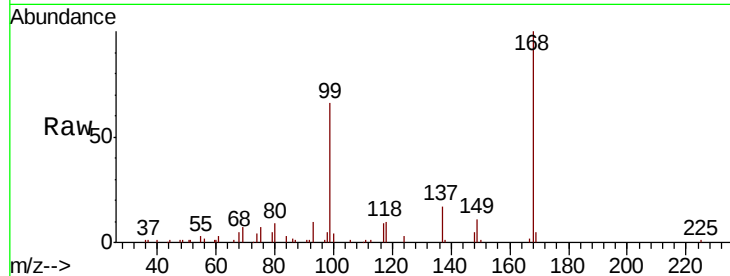
ClientSampleId :

Tot Ion:168 Resp: 197229

Ion Ratio Lower Upper

168 100

99 66.2 43.7 65.5#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

60000

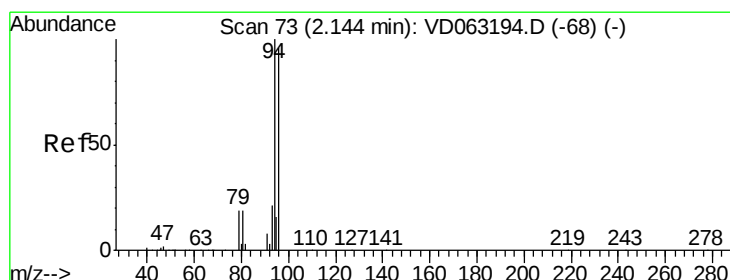
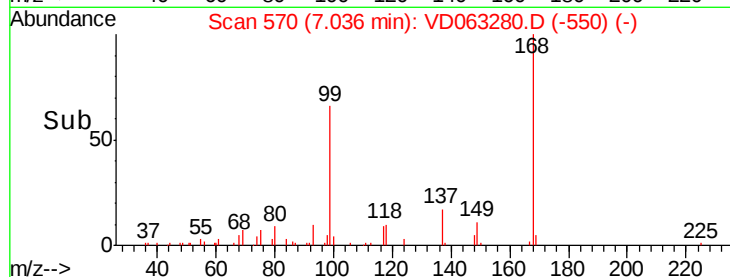
40000

20000

0

Time-->

6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 2.095 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD063280.D

Acq: 31 Jul 2019 15:48

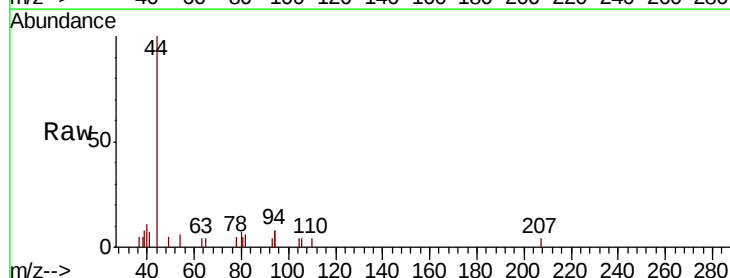
Tgt Ion: 94 Resp: 2049

Ion Ratio Lower Upper

94 100

96 0.0 76.4 114.6#

93 23.3 17.3 25.9



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

2.14

1500

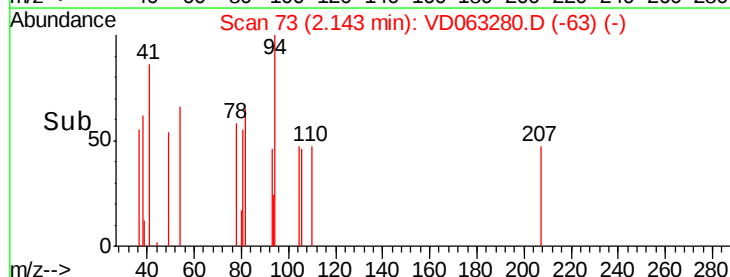
1000

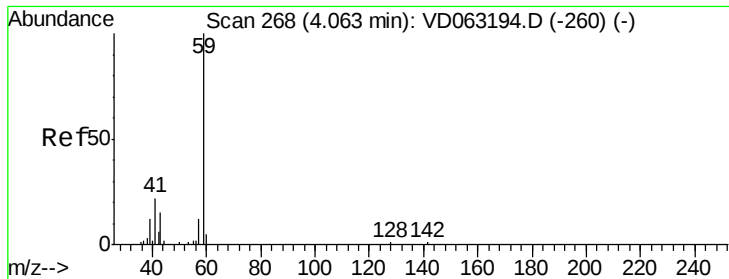
500

0

Time-->

2.10 2.12 2.14 2.16 2.18

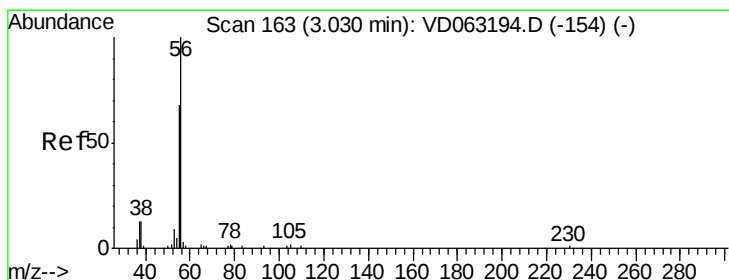
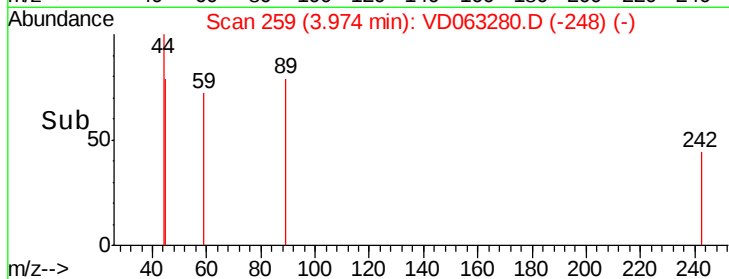
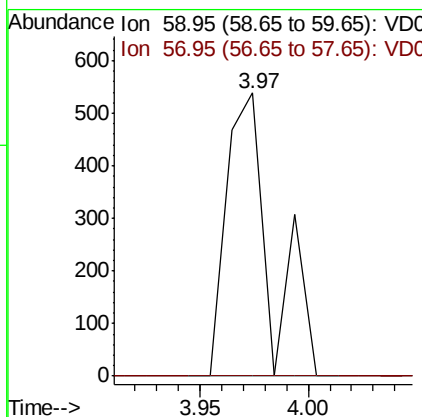
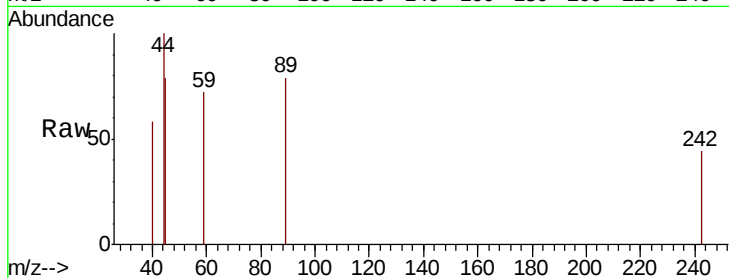




#11
Tert butyl alcohol
Concen: 8.080 ug/l
RT: 3.97 min Scan# 259
Delta R.T. -0.09 min
Lab File: VD063280.D
Acq: 31 Jul 2019 15:48

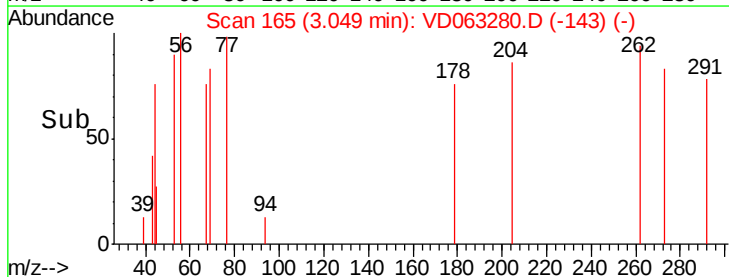
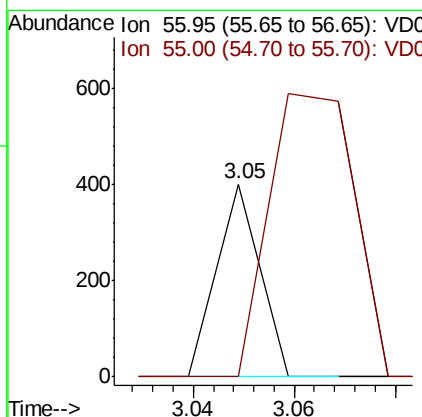
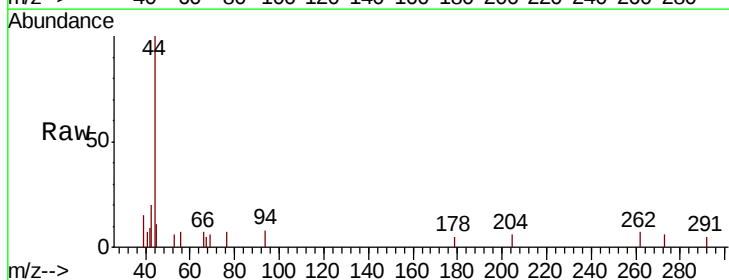
Instrument :
MSVOA_D
ClientSampled :

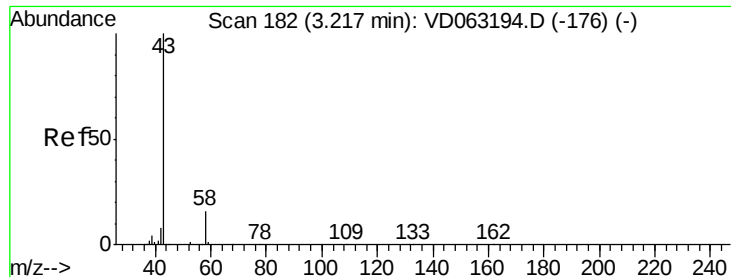
Tot Ion: 59 Resp: 776
Ion Ratio Lower Upper
59 100
57 0.0 9.6 14.4#



#13
Acrolein
Concen: 2.564 ug/l
RT: 3.05 min Scan# 165
Delta R.T. 0.02 min
Lab File: VD063280.D
Acq: 31 Jul 2019 15:48

Tgt Ion: 56 Resp: 237
Ion Ratio Lower Upper
56 100
55 0.0 55.3 82.9#





#16

Acetone

Concen: 1659.656 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD063280.D

Acq: 31 Jul 2019 15:48

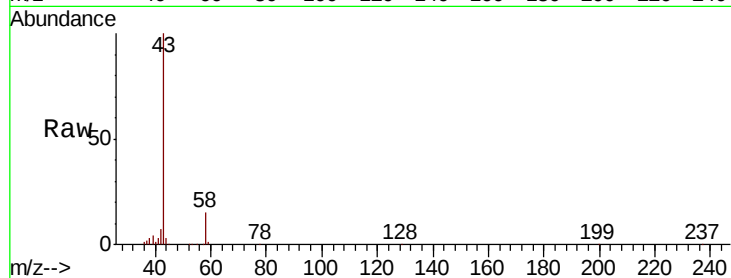
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 707668

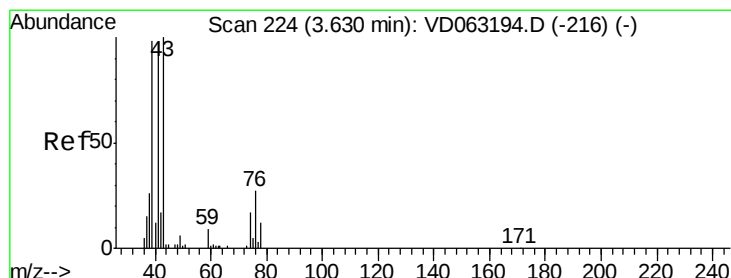
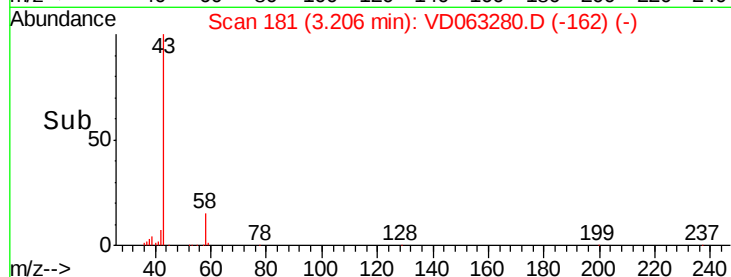
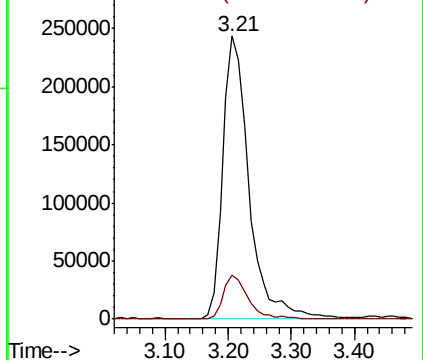
Ion Ratio Lower Upper

43 100

58 15.4 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 2.091 ug/l

RT: 3.64 min Scan# 225

Delta R.T. 0.01 min

Lab File: VD063280.D

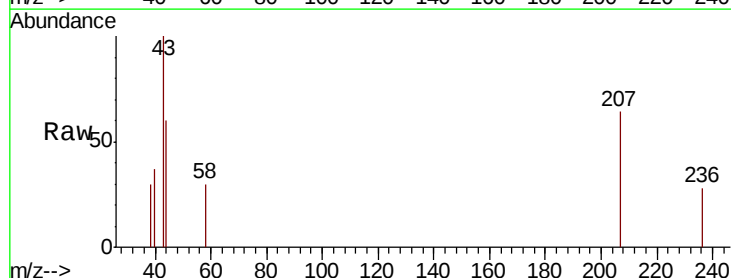
Acq: 31 Jul 2019 15:48

Tgt Ion: 43 Resp: 1713

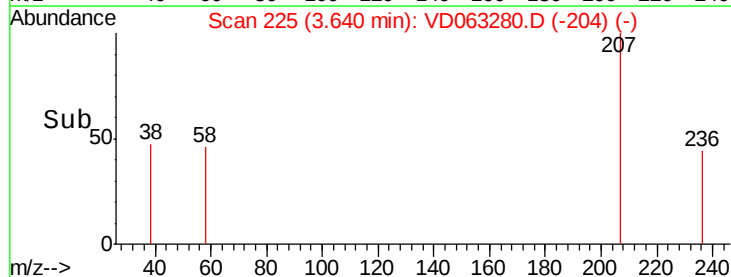
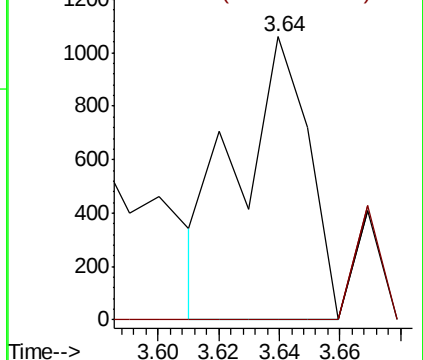
Ion Ratio Lower Upper

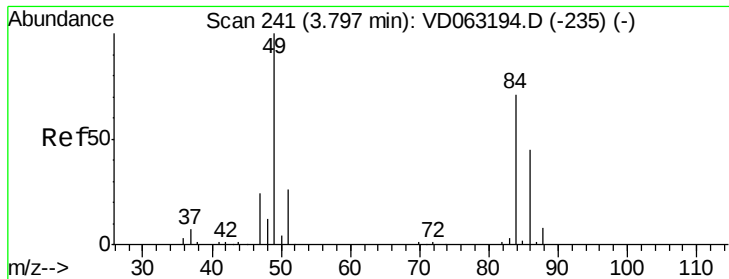
43 100

74 0.0 13.8 20.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC

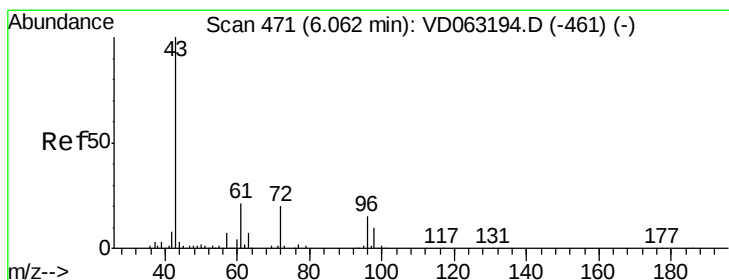
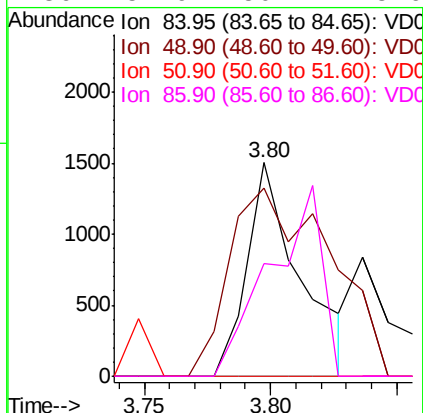
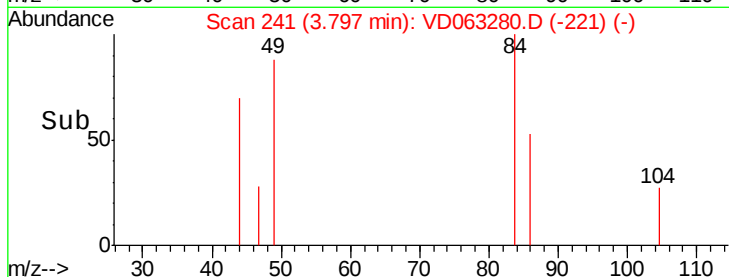
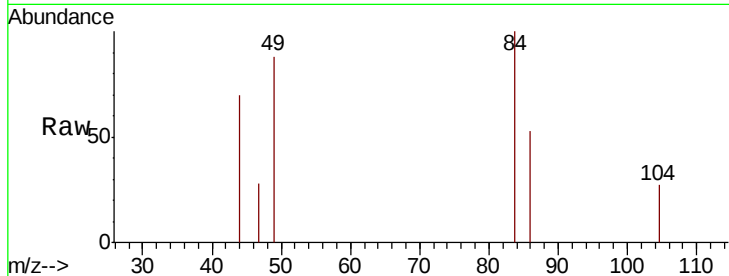




#20
Methvlene Chloride
Concen: 1.280 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.00 min
Lab File: VD063280.D
Acq: 31 Jul 2019 15:48

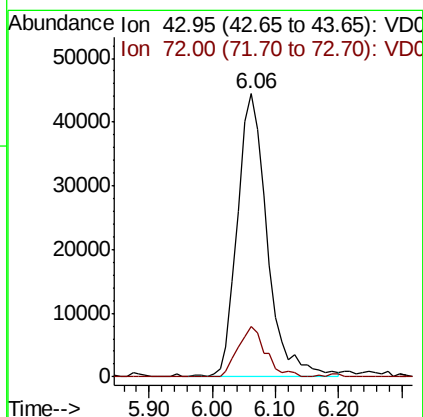
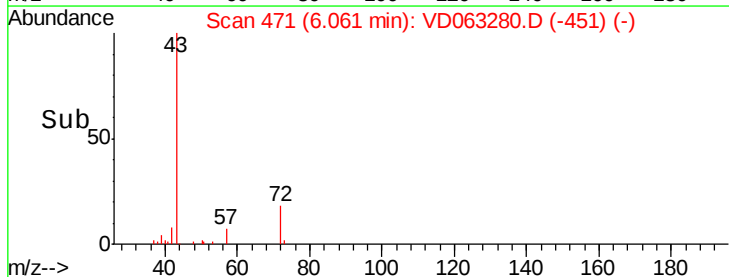
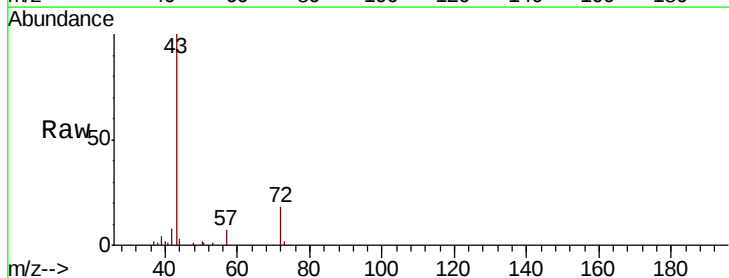
Instrument :
MSVOA_D
ClientSampleId :

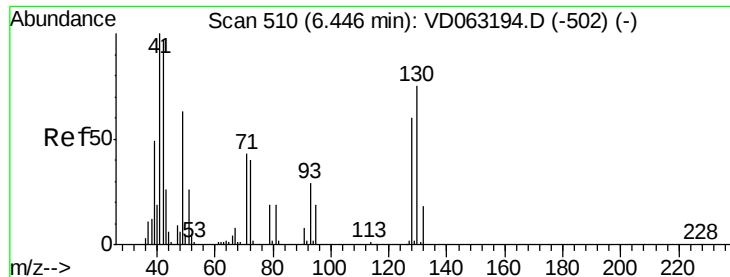
Tot Ion: 84 Resp: 2206
Ion Ratio Lower Upper
84 100
49 87.9 112.5 168.7#
51 0.0 29.6 44.4#
86 52.9 50.4 75.6



#25
2-Butanone
Concen: 340.222 ug/l
RT: 6.06 min Scan# 471
Delta R.T. -0.00 min
Lab File: VD063280.D
Acq: 31 Jul 2019 15:48

Tgt Ion: 43 Resp: 145589
Ion Ratio Lower Upper
43 100
72 17.7 16.3 24.5

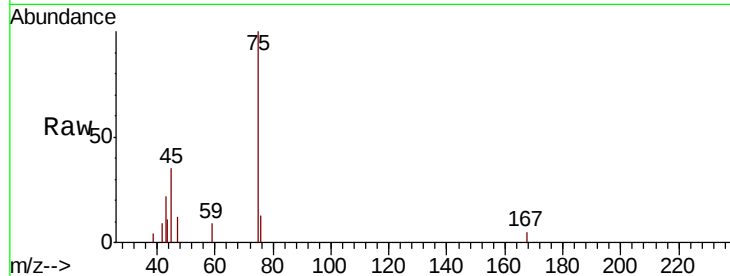




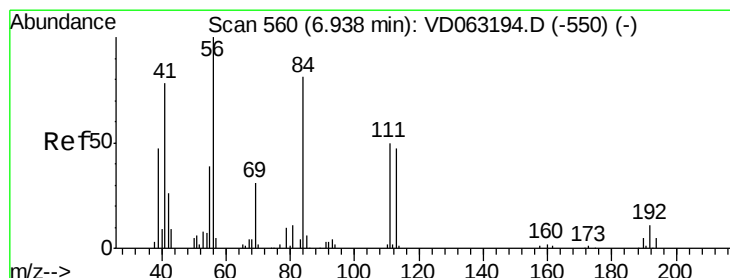
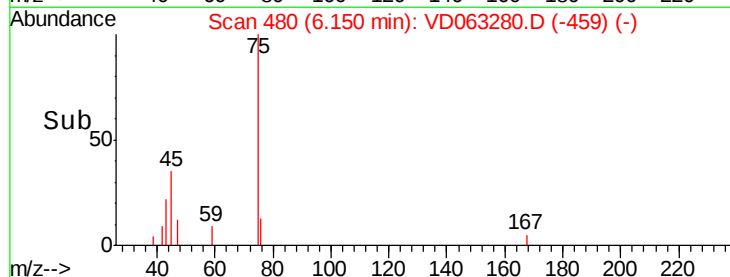
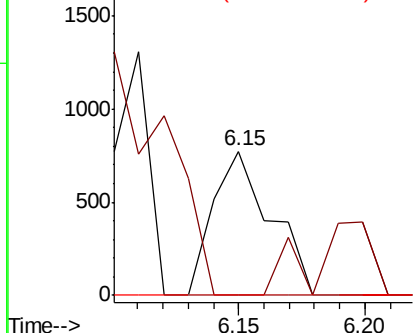
#29
Tetrahydrofuran
Concen: 6.096 ug/l
RT: 6.15 min Scan# 480
Delta R.T. -0.30 min
Lab File: VD063280.D
Acq: 31 Jul 2019 15:48

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 42 Resp: 1235
Ion Ratio Lower Upper
42 100
72 0.0 33.4 50.2#
71 0.0 35.7 53.5#

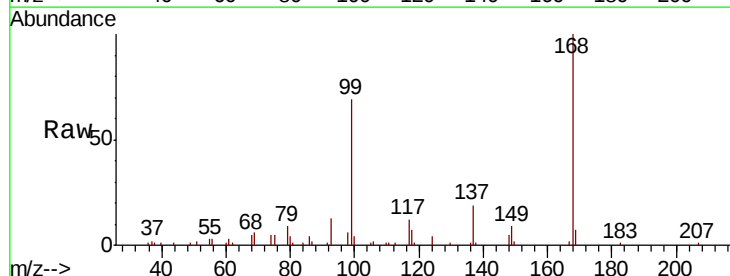


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

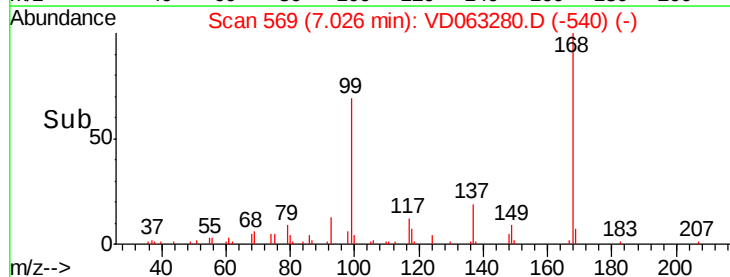
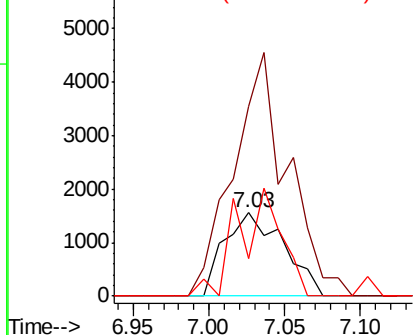


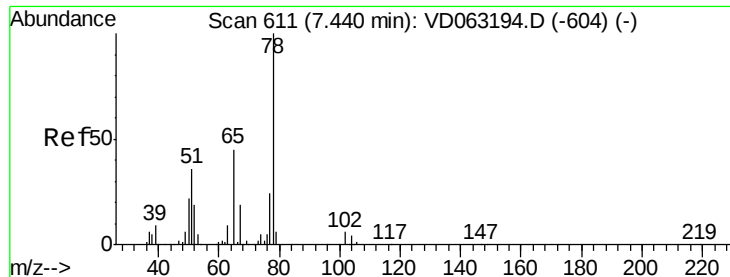
#31
Cyclohexane
Concen: 2.178 ug/l
RT: 7.03 min Scan# 569
Delta R.T. 0.09 min
Lab File: VD063280.D
Acq: 31 Jul 2019 15:48

Tgt Ion: 56 Resp: 4245
Ion Ratio Lower Upper
56 100
69 227.3 24.5 36.7#
84 45.4 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





#33

1,2-Dichloroethane-d4

Concen: 50.995 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD063280.D

Acq: 31 Jul 2019 15:48

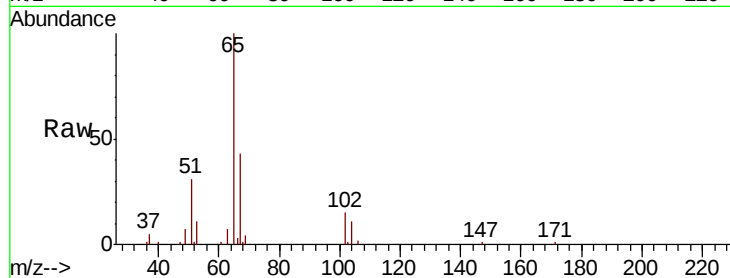
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 65 Resp: 111599

Ion Ratio Lower Upper

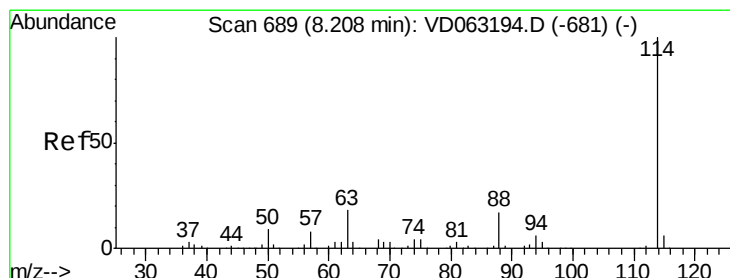
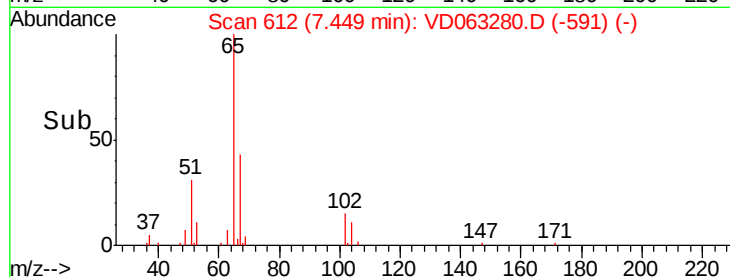
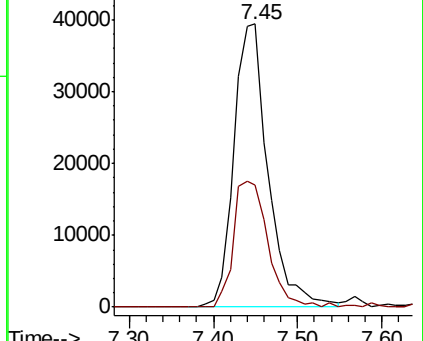
65 100

67 43.0 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: 8.22 min Scan# 690

Delta R.T. 0.01 min

Lab File: VD063280.D

Acq: 31 Jul 2019 15:48

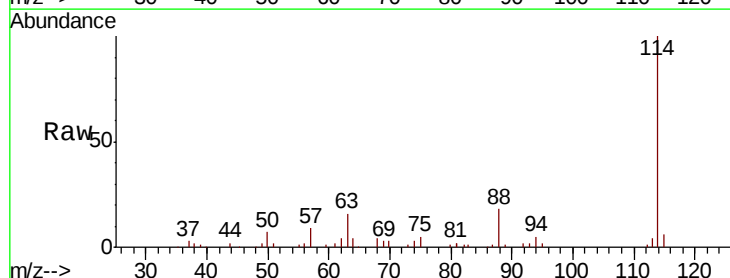
Tgt Ion: 114 Resp: 265760

Ion Ratio Lower Upper

114 100

63 15.8 0.0 35.2

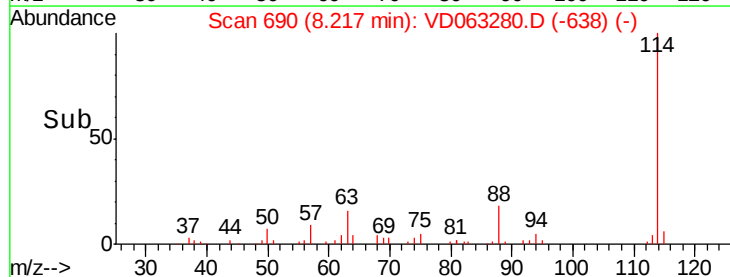
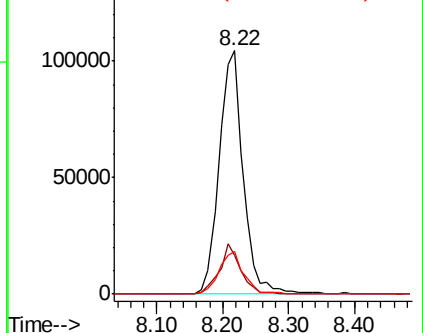
88 17.8 0.0 34.6

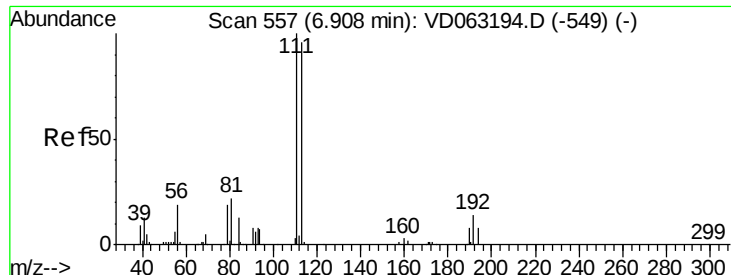


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

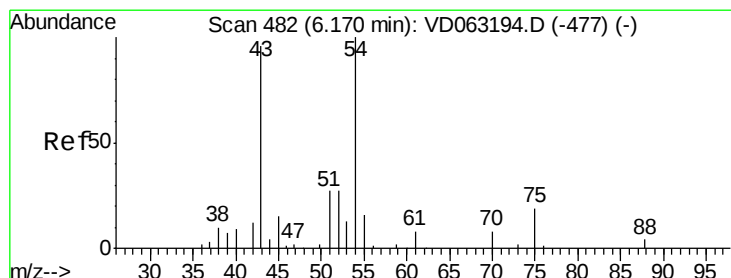
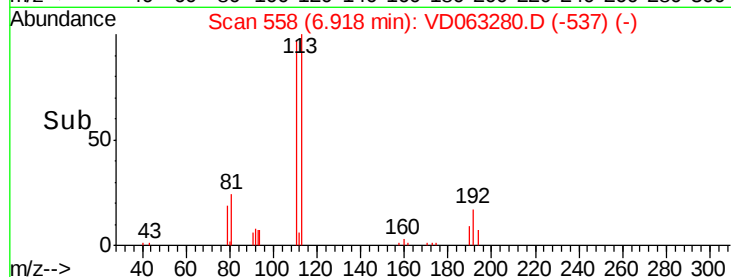
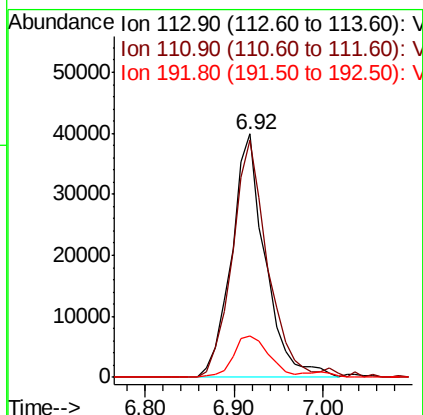
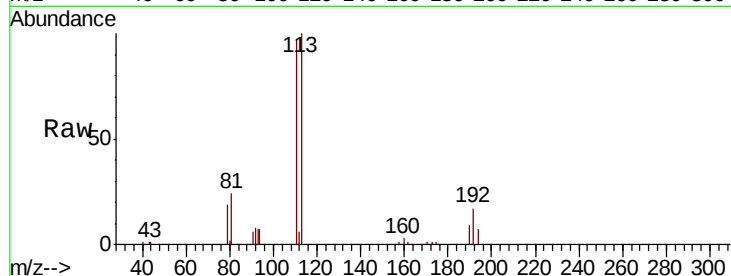




#35
Dibromofluoromethane
Concen: 46.268 ug/l
RT: 6.92 min Scan# 558
Delta R.T. 0.01 min
Lab File: VD063280.D
Acq: 31 Jul 2019 15:48

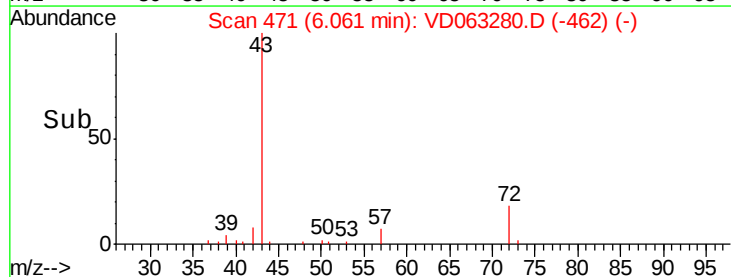
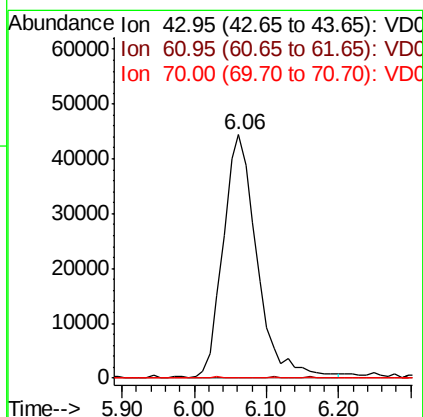
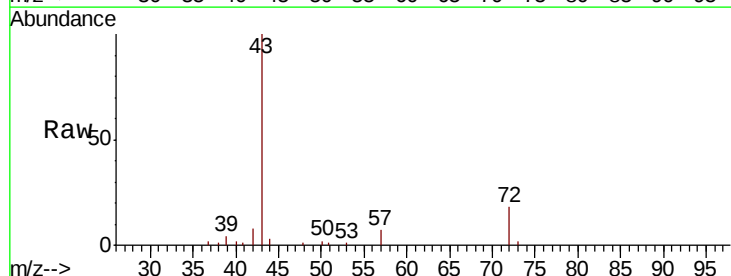
Instrument :
MSVOA_D
ClientSampleId :

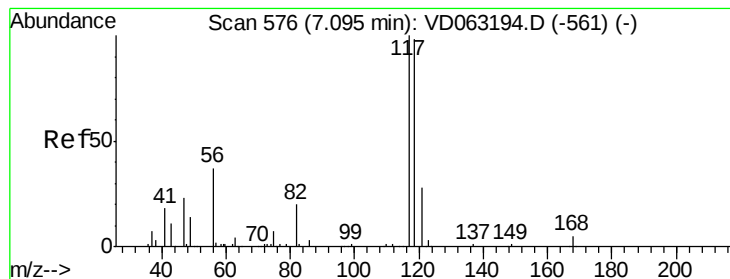
Tot Ion	Ratio	Lower	Upper
113	100		
111	97.3	83.2	124.8
192	17.1	11.8	17.8



#37
Ethyl Acetate
Concen: 133.276 ug/l
RT: 6.06 min Scan# 471
Delta R.T. -0.11 min
Lab File: VD063280.D
Acq: 31 Jul 2019 15:48

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.3	16.9#
70	0.0	5.1	7.7#





#38

Carbon Tetrachloride

Concen: 5.467 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.07 min

Lab File: VD063280.D

Acq: 31 Jul 2019 15:48

Instrument :

MSVOA_D

ClientSampleId :

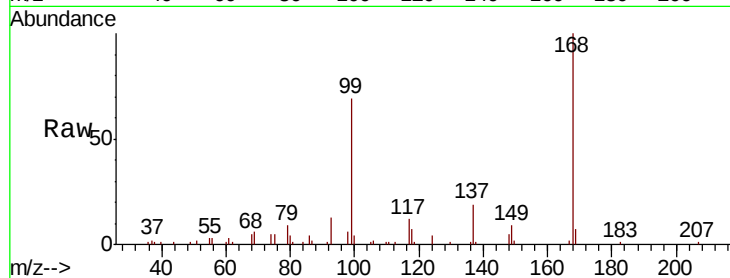
Tot Ion:117 Resp: 19963

Ion Ratio Lower Upper

117 100

119 4.6 78.2 117.2#

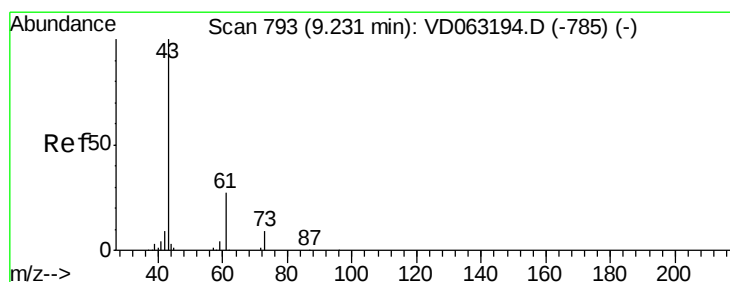
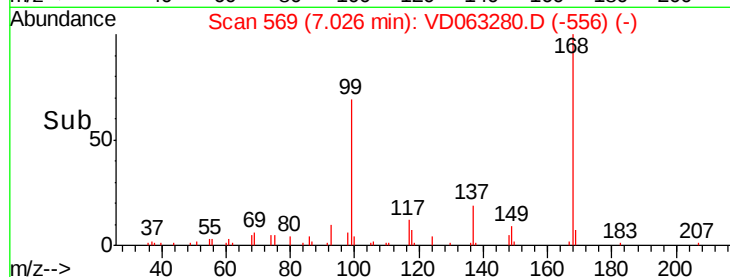
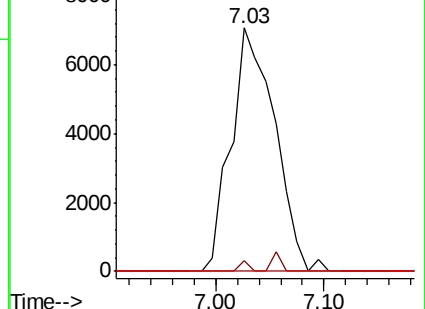
121 0.0 22.1 33.1#



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



#43

Isopropyl Acetate

Concen: 34.805 ug/l

RT: 8.88 min Scan# 757

Delta R.T. -0.35 min

Lab File: VD063280.D

Acq: 31 Jul 2019 15:48

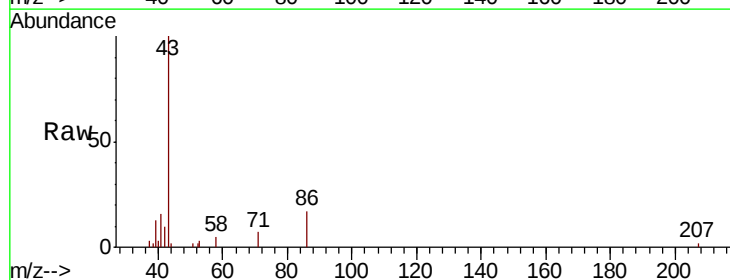
Tgt Ion: 43 Resp: 48445

Ion Ratio Lower Upper

43 100

61 0.0 21.4 32.0#

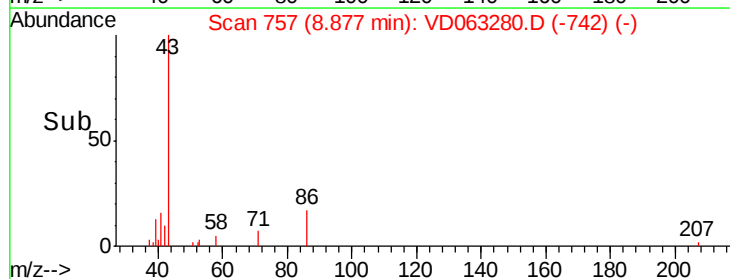
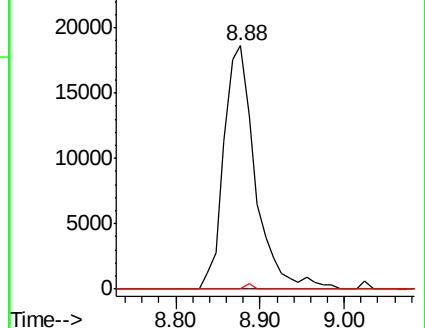
87 0.0 0.2 0.4#

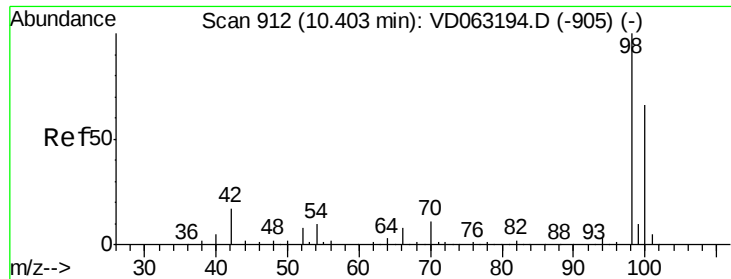


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC





#50

Toluene-d8

Concen: 40.132 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.00 min

Lab File: VD063280.D

Acq: 31 Jul 2019 15:48

Instrument :

MSVOA_D

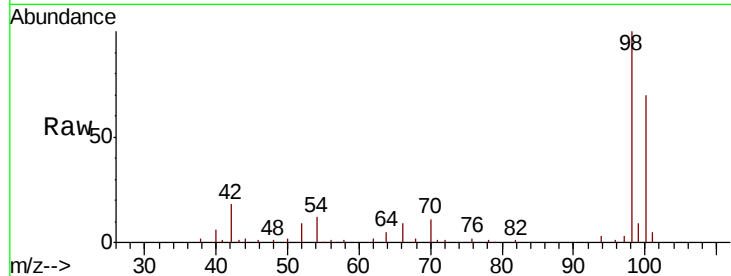
ClientSampled :

Tot Ion: 98 Resp: 203795

Ion Ratio Lower Upper

98 100

100 69.5 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

10.40

100000

80000

60000

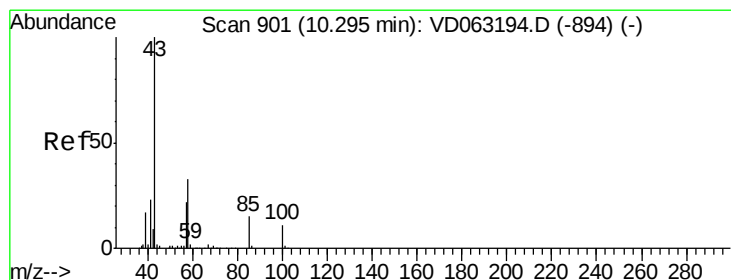
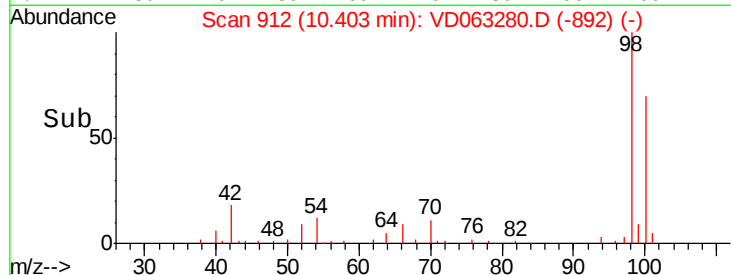
40000

20000

0

Time-->

10.30 10.40 10.50



#51

4-Methyl-2-Pentanone

Concen: 1.765 ug/l

RT: 10.29 min Scan# 901

Delta R.T. -0.00 min

Lab File: VD063280.D

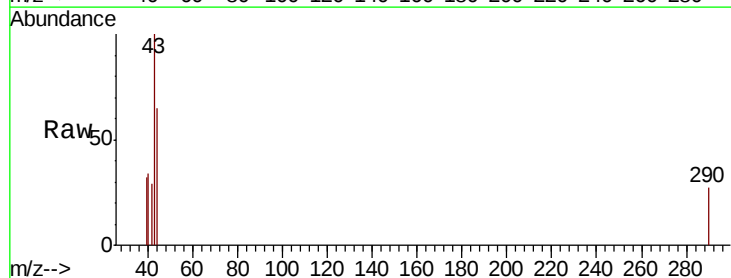
Acq: 31 Jul 2019 15:48

Tgt Ion: 43 Resp: 1671

Ion Ratio Lower Upper

43 100

58 0.0 26.2 39.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.29

1200

1000

800

600

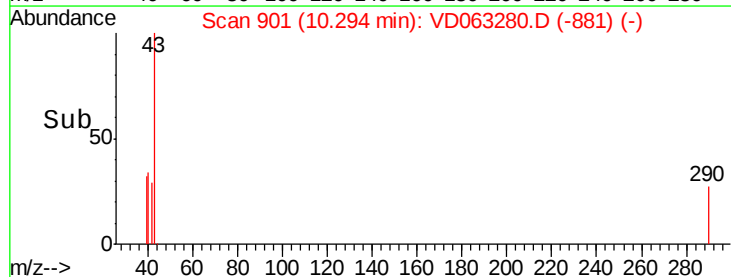
400

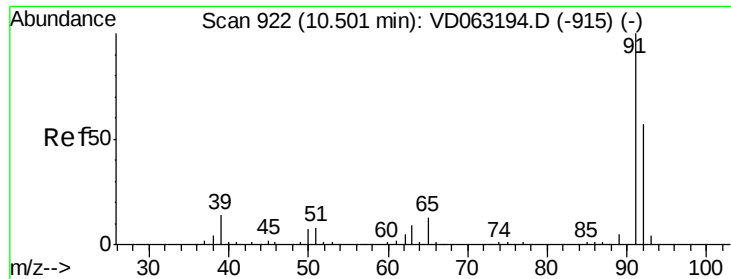
200

0

Time-->

10.25 10.30





#52

Toluene

Concen: 14.754 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.00 min

Lab File: VD063280.D

Acq: 31 Jul 2019 15:48

Instrument :

MSVOA_D

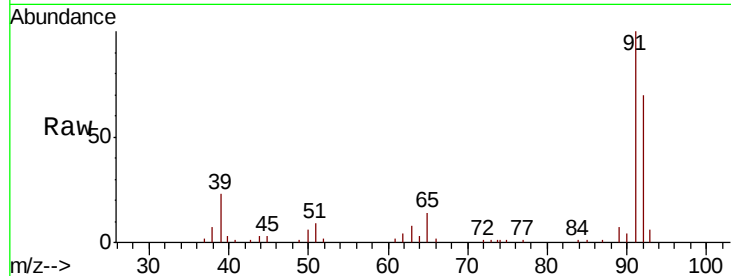
ClientSampleId :

Tot Ion: 92 Resp: 49880

Ion Ratio Lower Upper

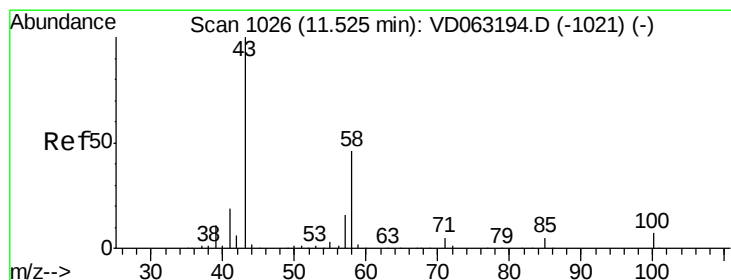
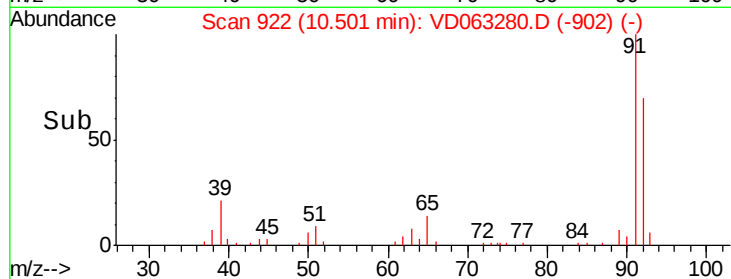
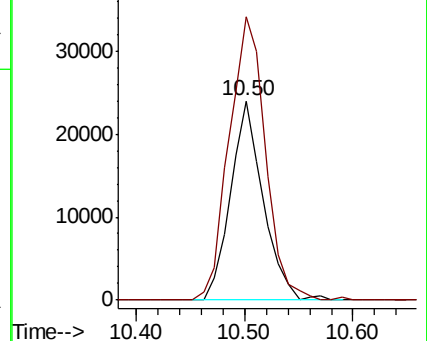
92 100

91 142.2 140.8 211.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#59

2-Hexanone

Concen: 8.536 ug/l

RT: 11.52 min Scan# 1026

Delta R.T. -0.00 min

Lab File: VD063280.D

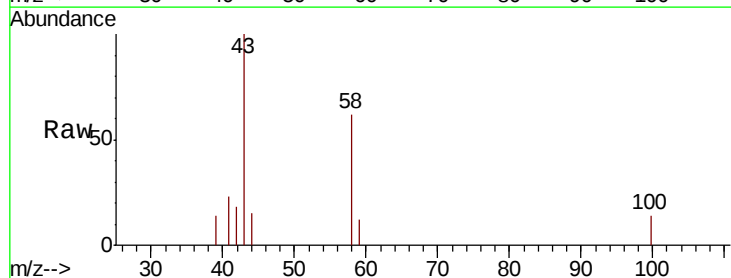
Acq: 31 Jul 2019 15:48

Tgt Ion: 43 Resp: 5823

Ion Ratio Lower Upper

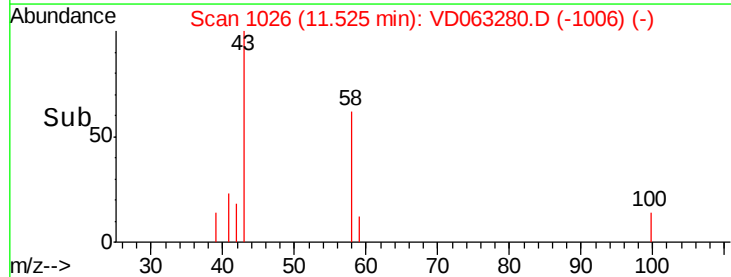
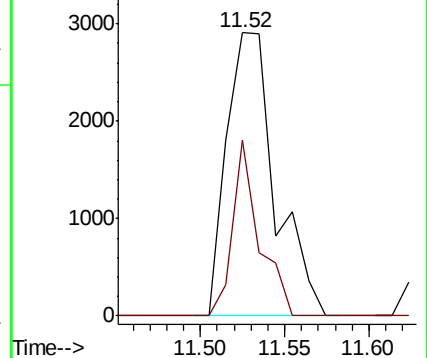
43 100

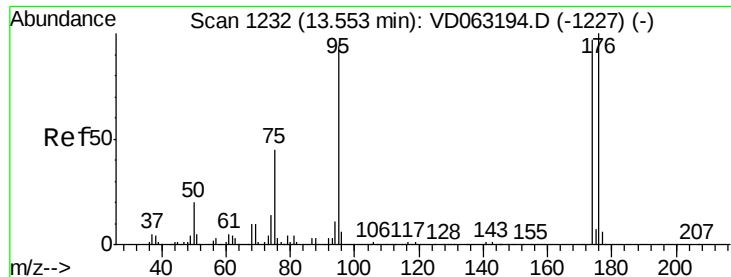
58 62.1 22.9 68.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: 38.236 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063280.D

Acq: 31 Jul 2019 15:48

Instrument :

MSVOA_D

ClientSampleId :

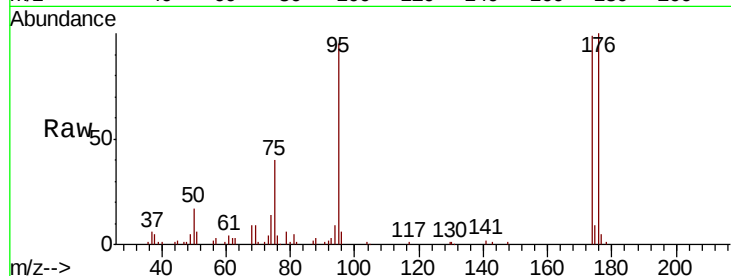
Tot Ion: 95 Resp: 88479

Ion Ratio Lower Upper

95 100

174 104.3 0.0 205.4

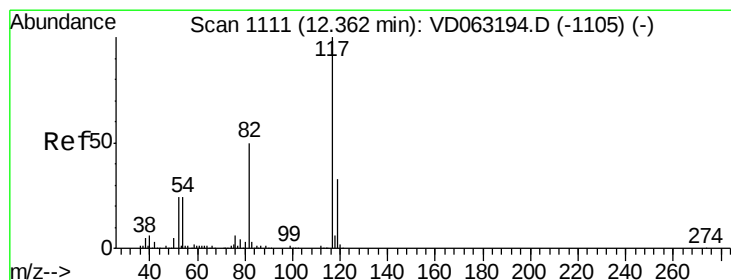
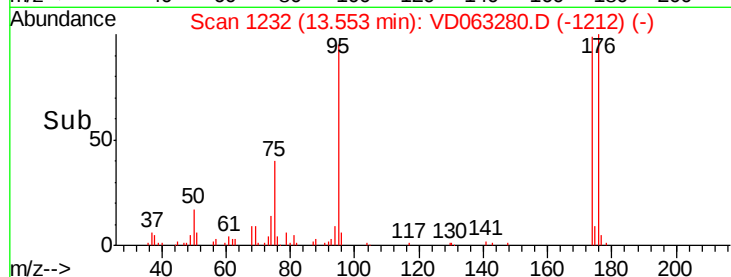
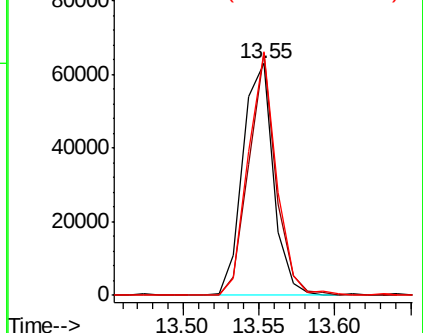
176 105.0 0.0 211.8



Abundance Ion 95.00 (94.70 to 95.70): V

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: 12.36 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VD063280.D

Acq: 31 Jul 2019 15:48

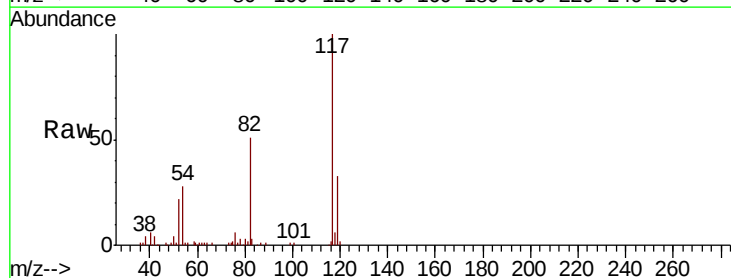
Tgt Ion: 117 Resp: 227349

Ion Ratio Lower Upper

117 100

82 51.4 40.1 60.1

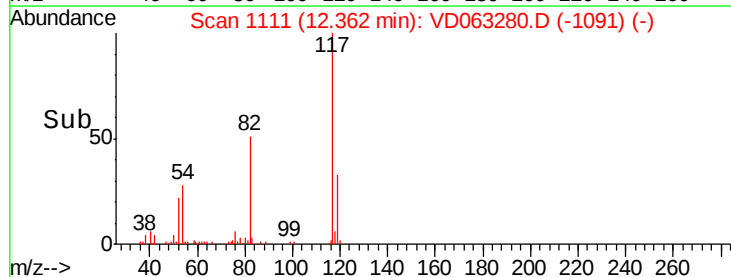
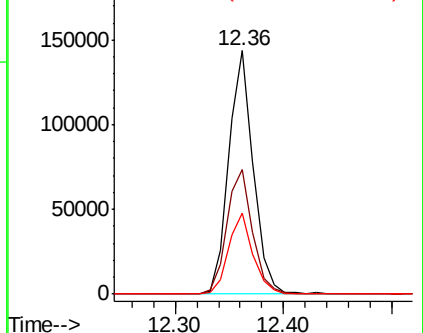
119 33.3 26.5 39.7

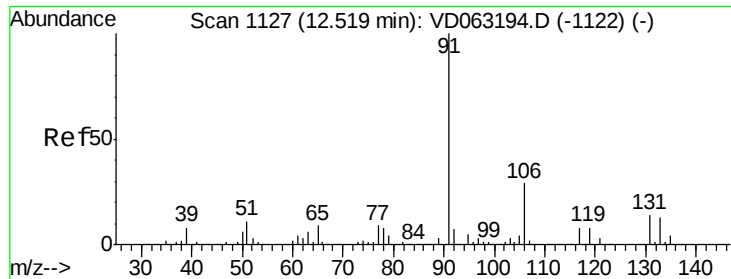


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

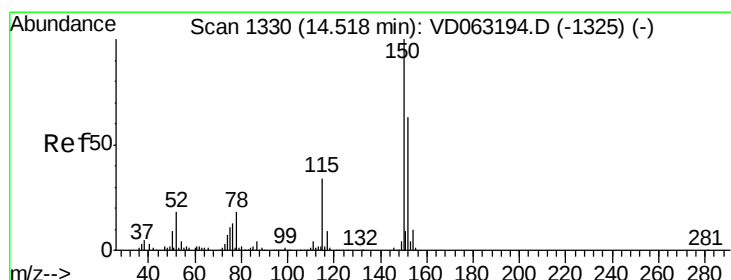
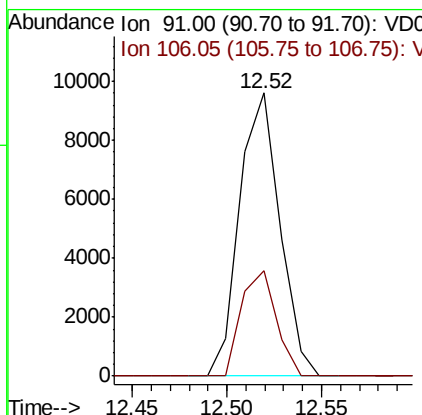
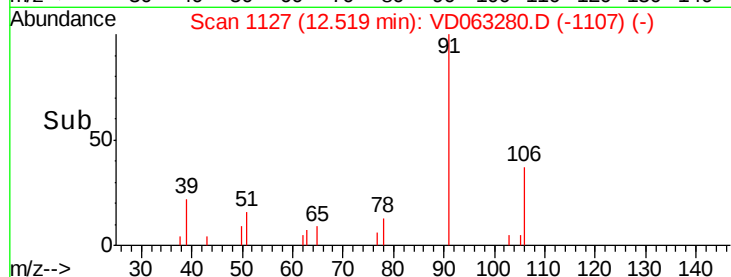
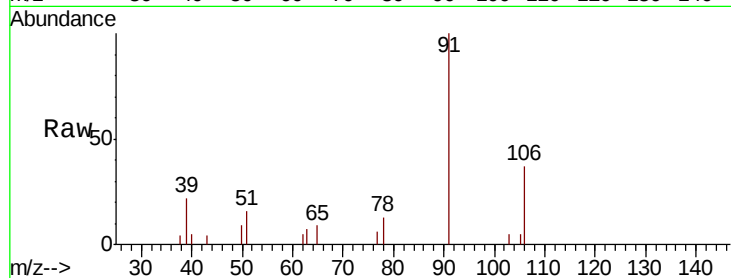




#67
Ethyl Benzene
Concen: 1.908 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.00 min
Lab File: VD063280.D
Acq: 31 Jul 2019 15:48

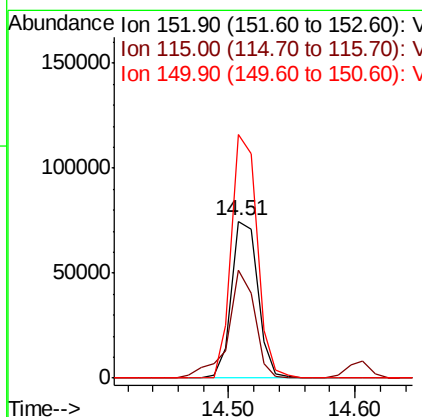
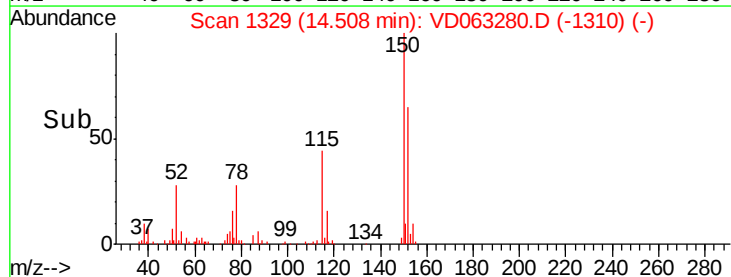
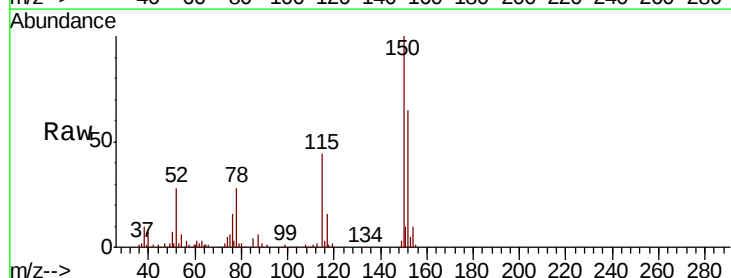
Instrument :
MSVOA_D
ClientSampled :

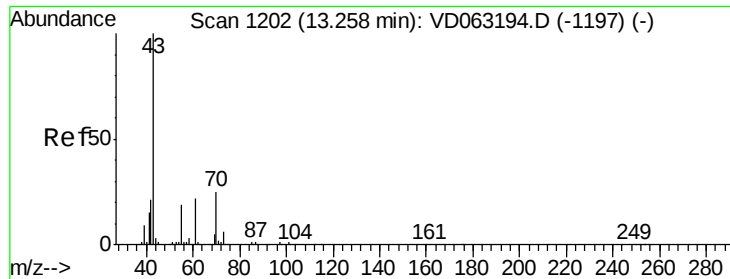
Tot Ion: 91 Resp: 14172
Ion Ratio Lower Upper
91 100
106 37.3 22.9 34.3#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD063280.D
Acq: 31 Jul 2019 15:48

Tgt Ion: 152 Resp: 107509
Ion Ratio Lower Upper
152 100
115 68.3 27.5 82.4
150 154.9 0.0 320.6





#74

N-amvl acetate

Concen: 4.191 ug/l

RT: 13.19 min Scan# 1195

Delta R.T. -0.07 min

Lab File: VD063280.D

Acq: 31 Jul 2019 15:48

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 7476

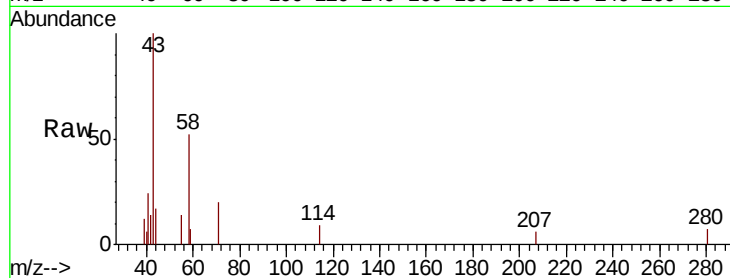
Ion Ratio Lower Upper

43 100

70 0.0 20.2 30.4#

55 14.3 14.9 22.3#

61 0.0 17.9 26.9#

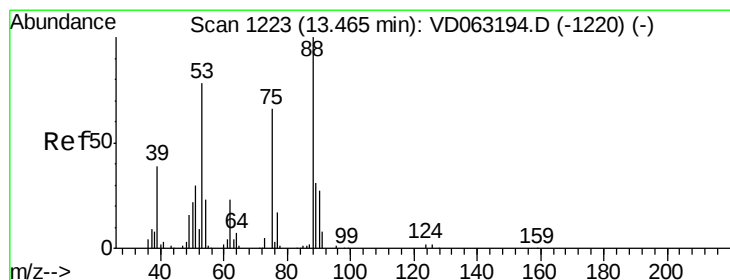
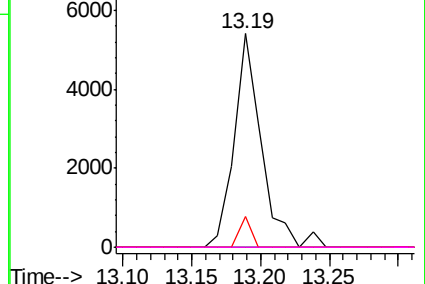
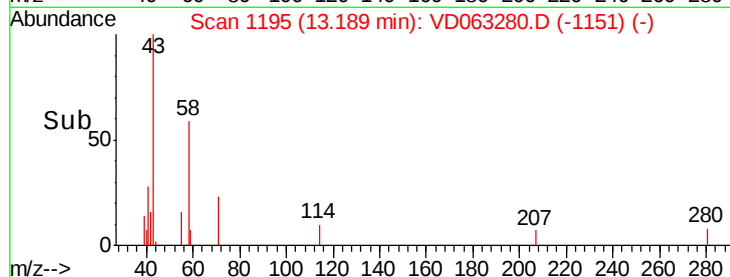


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 115.998 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD063280.D

Acq: 31 Jul 2019 15:48

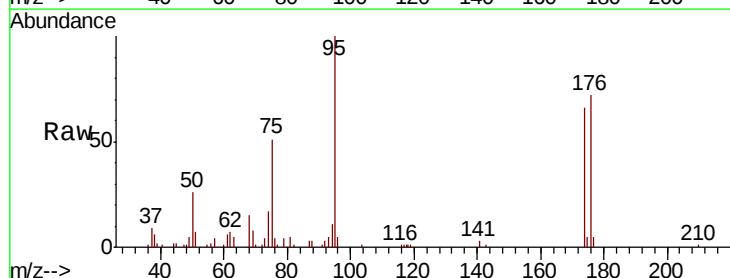
Tgt Ion: 75 Resp: 41594

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

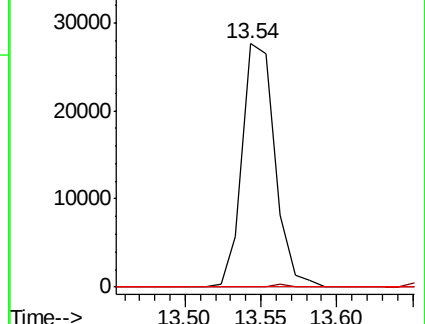
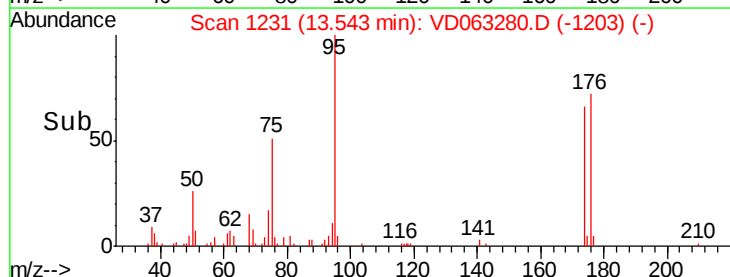
89 0.0 37.4 56.0#

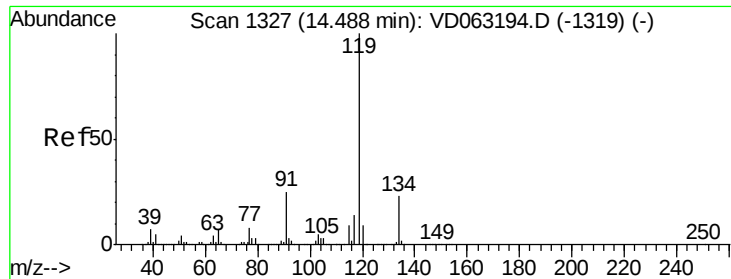


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

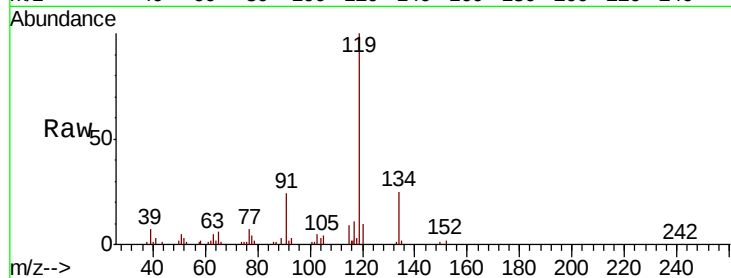




#86
 p-Isopropyltoluene
 Concen: 13.104 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. -0.00 min
 Lab File: VD063280.D
 Acq: 31 Jul 2019 15:48

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	11.5	34.5
91	23.6	12.6	37.6



Abundance Ion 119.05 (118.75 to 119.75): V
 Ion 134.10 (133.80 to 134.80): V
 Ion 91.00 (90.70 to 91.70): V

