

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080119\
 Data File : VD063295.D
 Acq On : 1 Aug 2019 16:29
 Operator : VA/AP
 Sample : K4120-05
 Misc : 5.29g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T2-2

Quant Time: Aug 02 07:25:21 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	833345	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1143083	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	765355	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	209680	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	378461	40.93	ug/l	0.00
Spiked Amount			Recovery	=	81.86%	
35) Dibromofluoromethane	6.92	113	410575	42.07	ug/l	0.01
Spiked Amount			Recovery	=	84.14%	
50) Toluene-d8	10.41	98	760135	34.80	ug/l	0.00
Spiked Amount			Recovery	=	69.60%	
62) 4-Bromofluorobenzene	13.55	95	198030	19.90	ug/l	0.00
Spiked Amount			Recovery	=	39.80%	

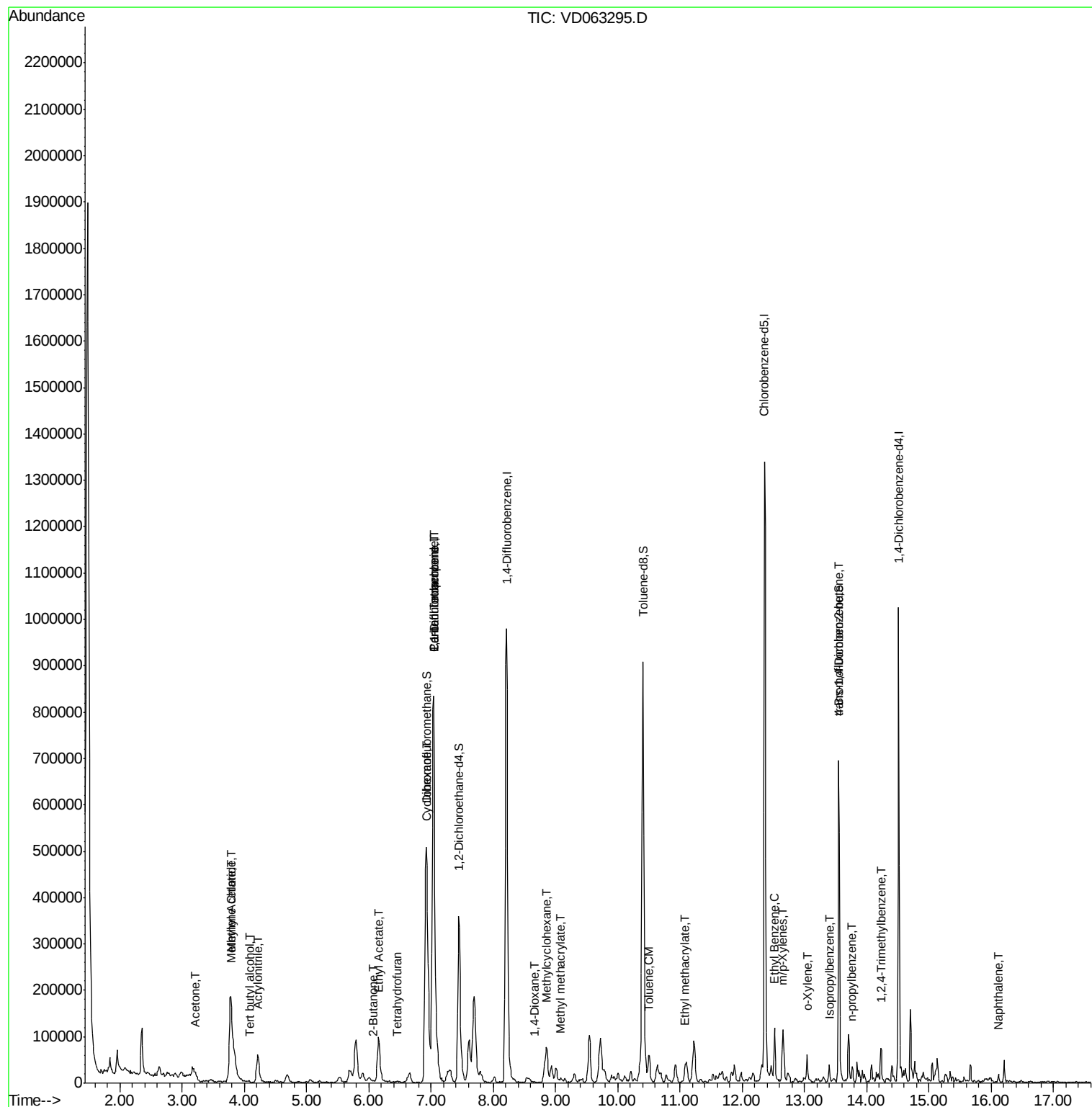
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.08	59	592	1.459	ug/l #	69
15) Acrylonitrile	4.21	53	1887	1.794	ug/l #	64
16) Acetone	3.21	43	50540	28.052	ug/l #	85
18) Methyl Acetate	3.77	43	137559	39.750	ug/l #	60
20) Methylene Chloride	3.80	84	15932	2.188	ug/l #	77
25) 2-Butanone	6.08	43	3237	1.790	ug/l #	56
29) Tetrahydrofuran	6.44	42	1250	1.460	ug/l #	33
31) Cyclohexane	6.94	56	97567	11.846	ug/l	94
36) 1,1-Dichloropropene	7.03	75	58581	5.615	ug/l #	50
37) Ethyl Acetate	6.14	43	9475	2.022	ug/l #	2
38) Carbon Tetrachloride	7.04	117	78185	4.978	ug/l #	15
39) Methylcyclohexane	8.85	83	40071	4.610	ug/l #	88
48) Methyl methacrylate	9.09	41	4330	1.115	ug/l #	38
49) 1,4-Dioxane	8.65	88	209	2.247	ug/l #	22
52) Toluene	10.51	92	27650	1.901	ug/l #	75
56) Ethyl methacrylate	11.07	69	5837	1.085	ug/l #	39
67) Ethyl Benzene	12.51	91	78523	3.140	ug/l #	86
68) m/p-Xylenes	12.65	106	29115	3.175	ug/l	99
69) o-Xylene	13.05	106	12190	1.447	ug/l	87
73) Isopropylbenzene	13.40	105	19194	1.458	ug/l	94
78) n-propylbenzene	13.76	91	18850	1.204	ug/l	82
81) trans-1,4-Dichloro-2-buten	13.55	75	85745	122.608	ug/l #	4
84) 1,2,4-Trimethylbenzene	14.24	105	31391	2.674	ug/l	98
95) Naphthalene	16.12	128	10558	1.628	ug/l #	91

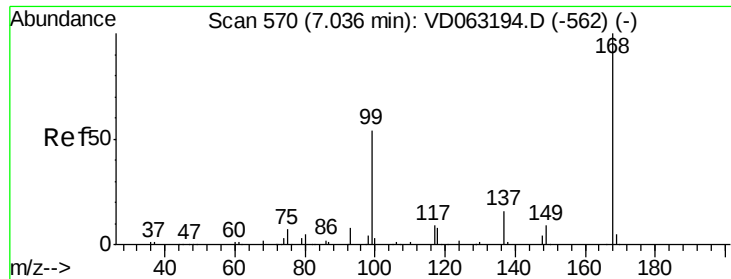
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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T2-2

Quant Time: Aug 02 07:25:21 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: VD063295.D

Acq: 1 Aug 2019 16:29

Instrument :

MSVOA_D

ClientSampleId :

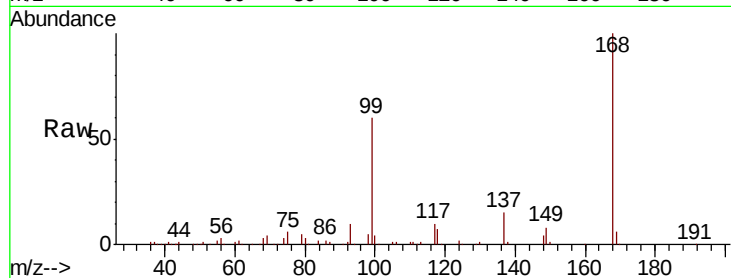
T2-2

Tot Ion:168 Resp: 833345

Ion Ratio Lower Upper

168 100

99 60.3 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

300000

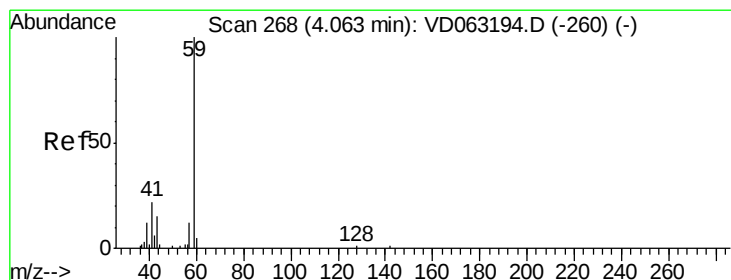
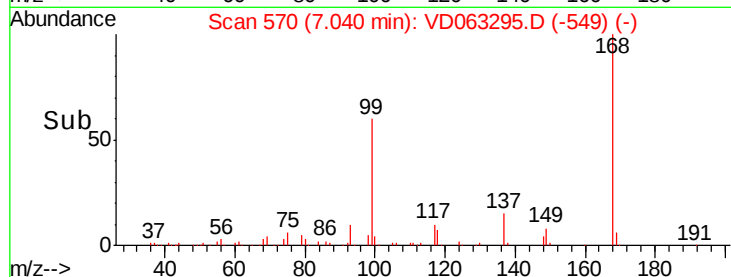
200000

100000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 1.459 ug/l

RT: 4.08 min Scan# 269

Delta R.T. 0.01 min

Lab File: VD063295.D

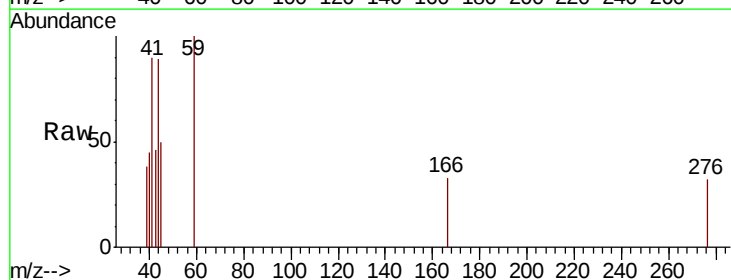
Acq: 1 Aug 2019 16:29

Tgt Ion: 59 Resp: 592

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

4.08

1200

1000

800

600

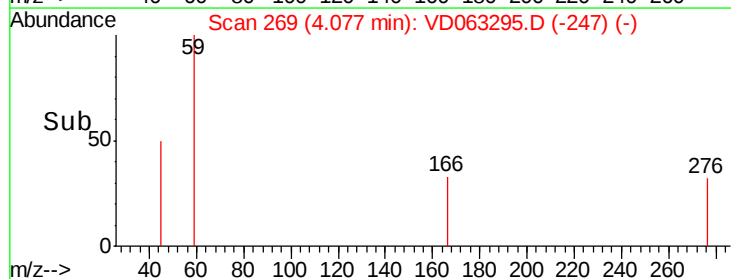
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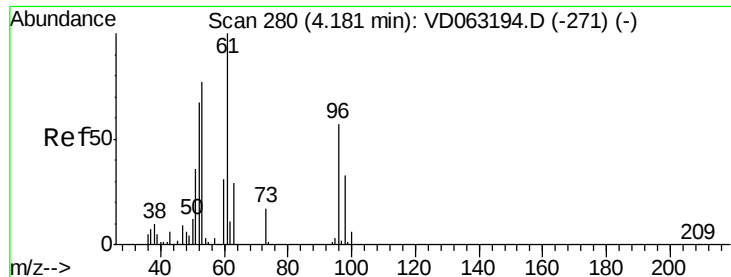
200

0

Time-->

4.04 4.06 4.08 4.10





#15

Acrylonitrile

Concen: 1.794 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.03 min

Lab File: VD063295.D

Acq: 1 Aug 2019 16:29

Instrument :

MSVOA_D

ClientSampleId :

T2-2

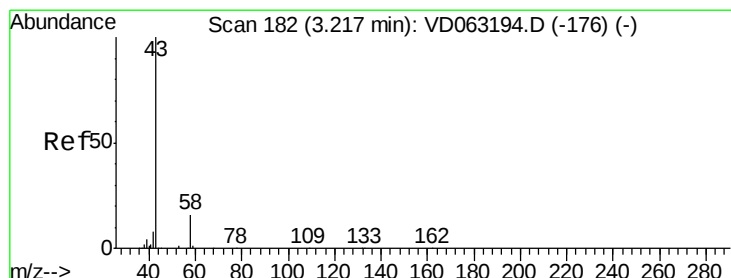
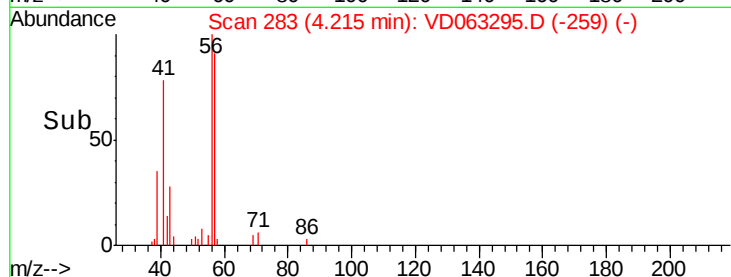
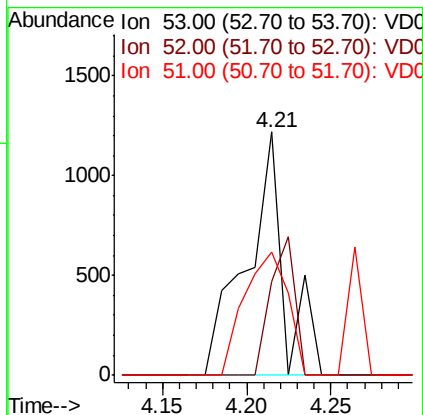
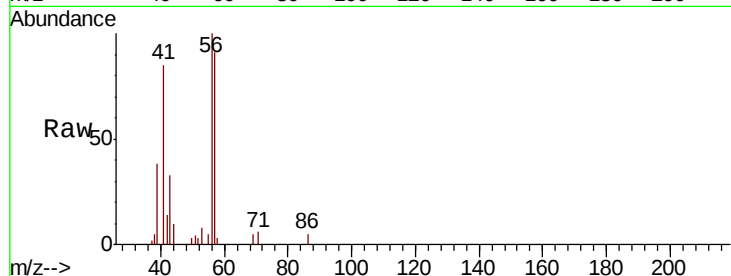
Tot Ion: 53 Resp: 1887

Ion Ratio Lower Upper

53 100

52 38.4 69.7 104.5#

51 50.6 37.4 56.0



#16

Acetone

Concen: 28.052 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD063295.D

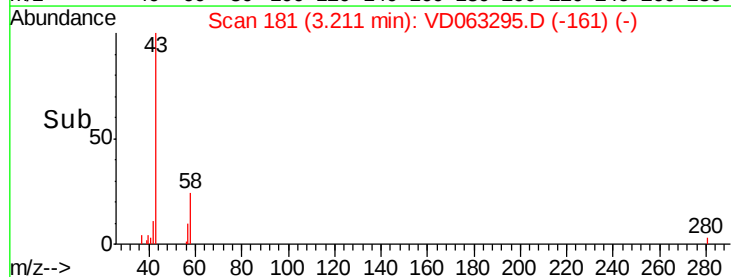
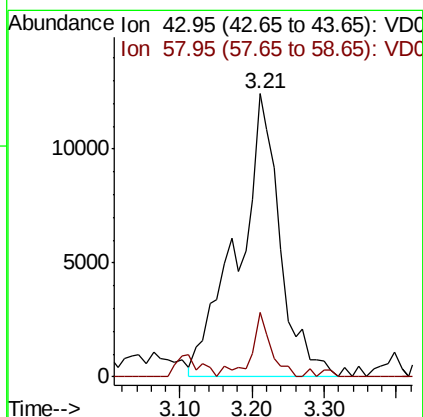
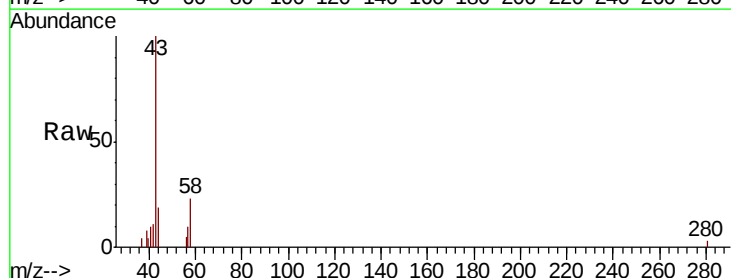
Acq: 1 Aug 2019 16:29

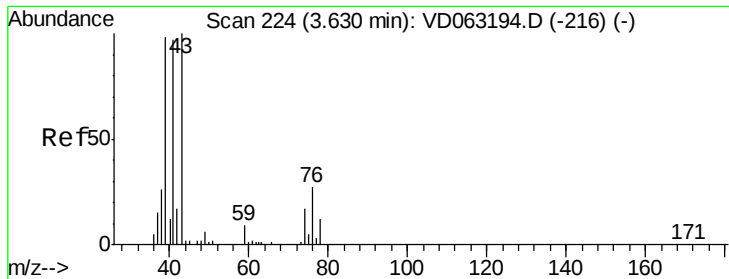
Tgt Ion: 43 Resp: 50540

Ion Ratio Lower Upper

43 100

58 22.7 13.0 19.4#

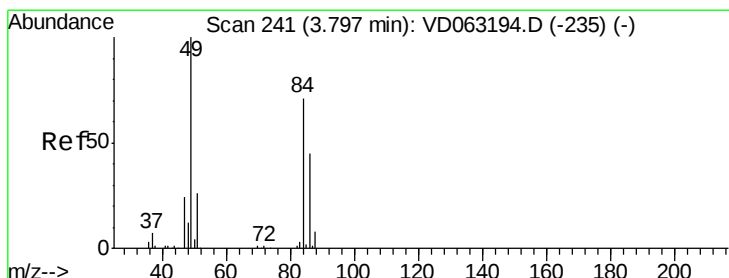
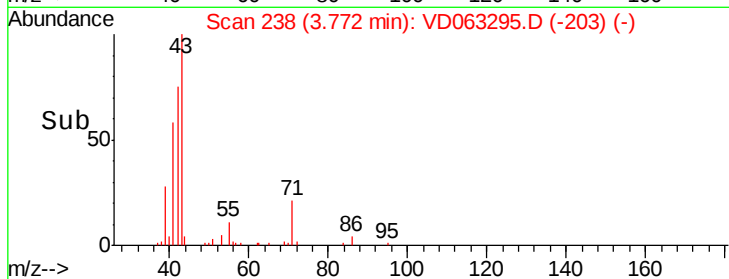
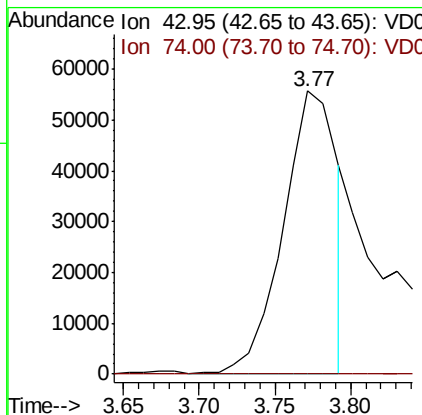
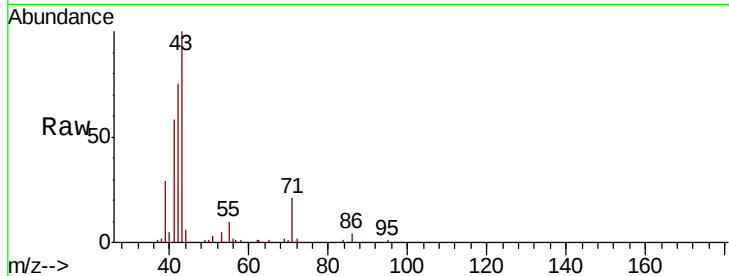




#18
Methyl Acetate
Concen: 39.750 ug/l
RT: 3.77 min Scan# 238
Delta R.T. 0.14 min
Lab File: VD063295.D
Acq: 1 Aug 2019 16:29

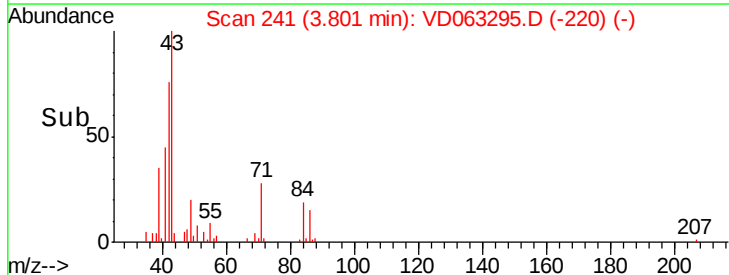
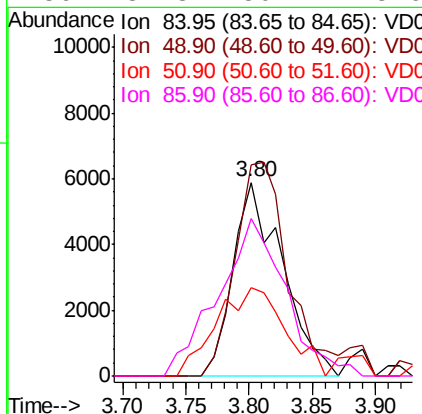
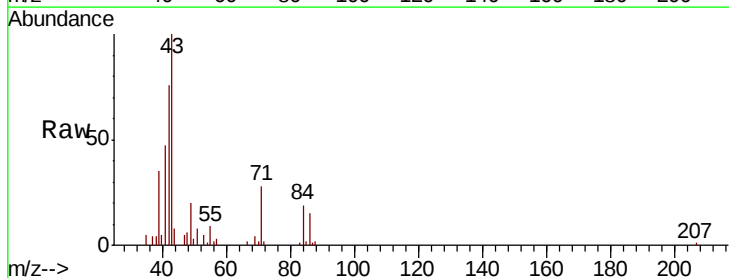
Instrument :
MSVOA_D
ClientSampleId :
T2-2

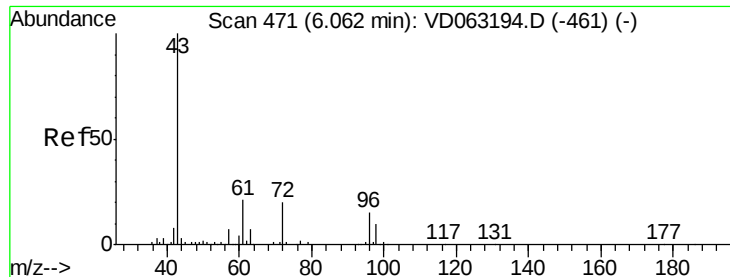
Tot Ion: 43 Resp: 137559
Ion Ratio Lower Upper
43 100
74 0.0 13.8 20.8#



#20
Methylene Chloride
Concen: 2.188 ug/l
RT: 3.80 min Scan# 241
Delta R.T. 0.00 min
Lab File: VD063295.D
Acq: 1 Aug 2019 16:29

Tgt Ion: 84 Resp: 15932
Ion Ratio Lower Upper
84 100
49 109.2 112.5 168.7#
51 45.6 29.6 44.4#
86 81.3 50.4 75.6#

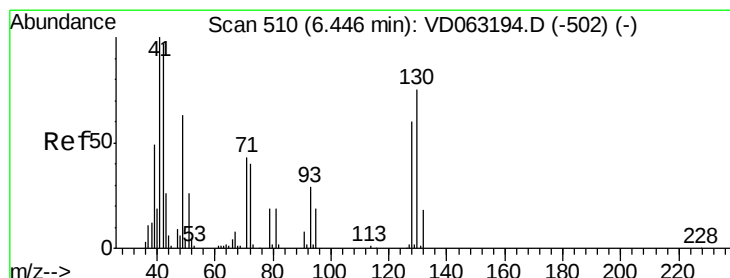
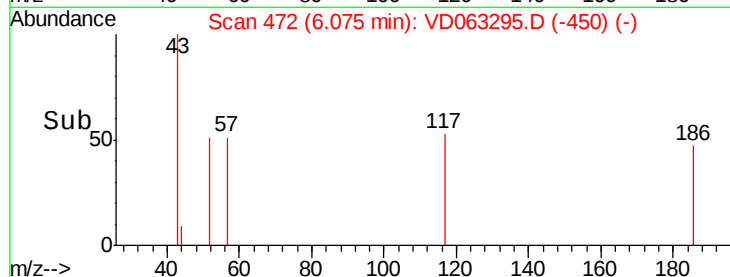
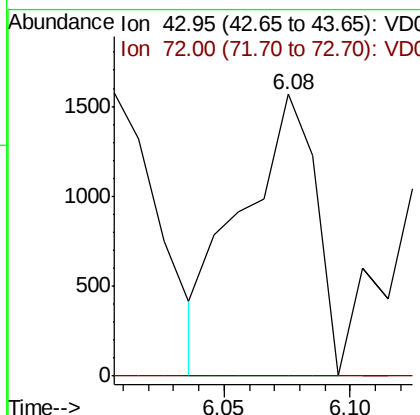
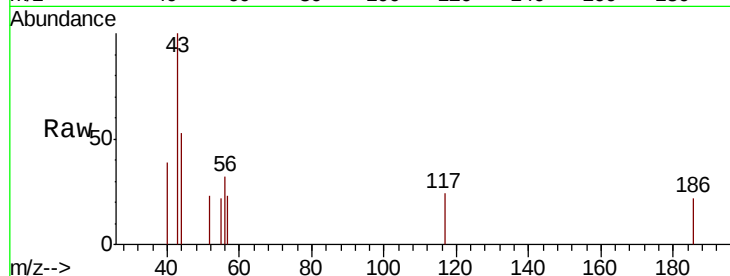




#25
2-Butanone
Concen: 1.790 ug/l
RT: 6.08 min Scan# 472
Delta R.T. 0.01 min
Lab File: VD063295.D
Acq: 1 Aug 2019 16:29

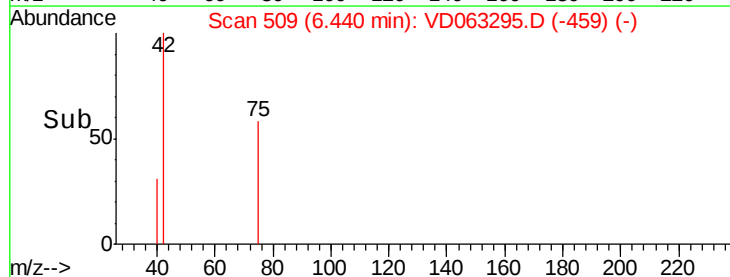
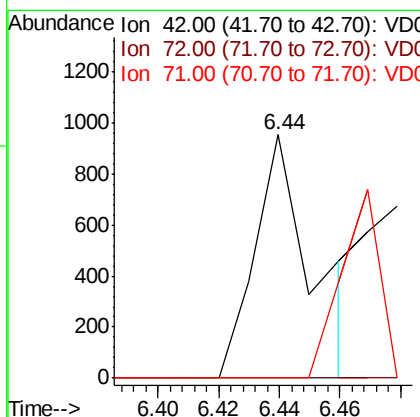
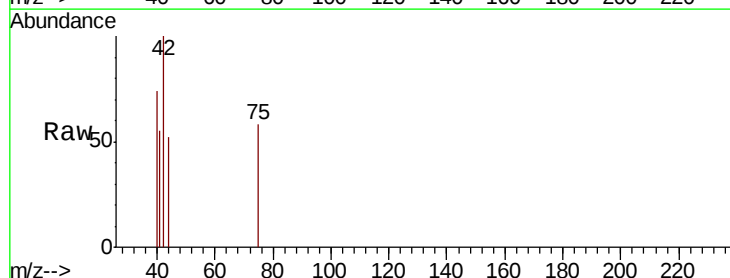
Instrument :
MSVOA_D
ClientSampled :
T2-2

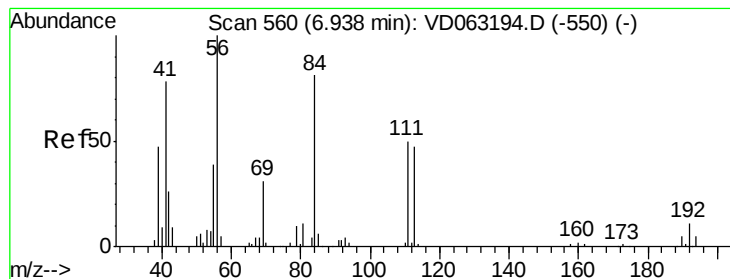
Tot Ion: 43 Resp: 3237
Ion Ratio Lower Upper
43 100
72 0.0 16.3 24.5#



#29
Tetrahydrofuran
Concen: 1.460 ug/l
RT: 6.44 min Scan# 509
Delta R.T. -0.01 min
Lab File: VD063295.D
Acq: 1 Aug 2019 16:29

Tgt Ion: 42 Resp: 1250
Ion Ratio Lower Upper
42 100
72 0.0 33.4 50.2#
71 0.0 35.7 53.5#





#31

Cyclohexane

Concen: 11.846 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.00 min

Lab File: VD063295.D

Acq: 1 Aug 2019 16:29

Instrument :

MSVOA_D

ClientSampleId :

T2-2

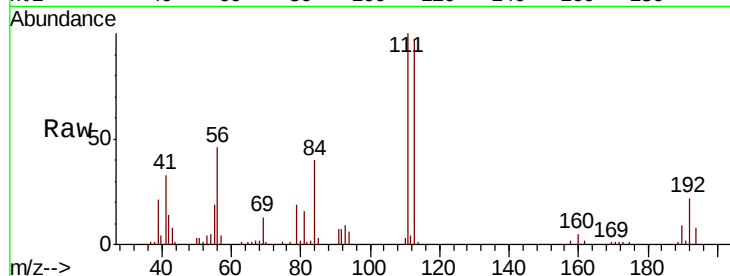
Tot Ion: 56 Resp: 97567

Ion Ratio Lower Upper

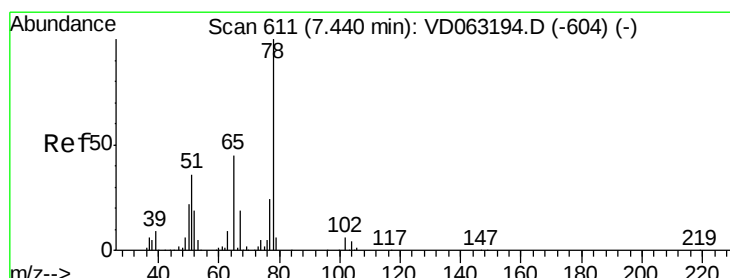
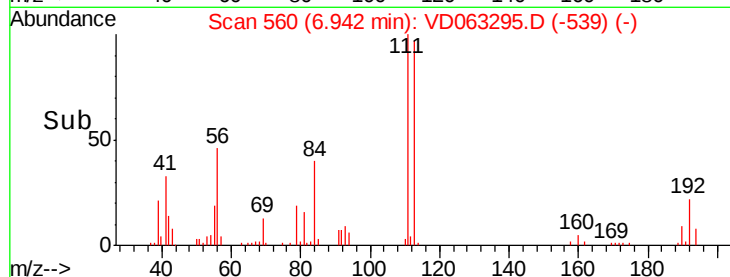
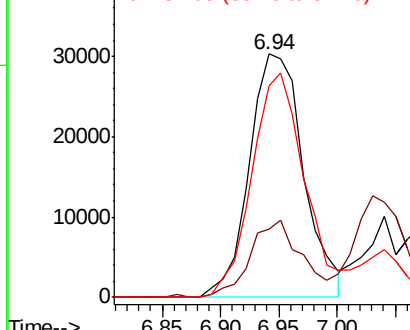
56 100

69 27.8 24.5 36.7

84 87.0 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: 40.929 ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.00 min

Lab File: VD063295.D

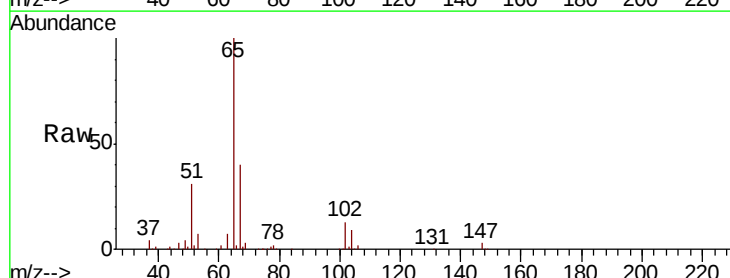
Acq: 1 Aug 2019 16:29

Tgt Ion: 65 Resp: 378461

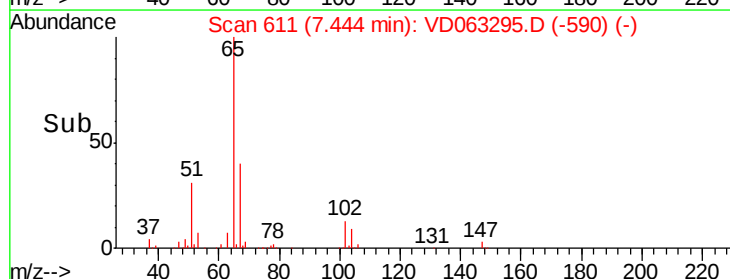
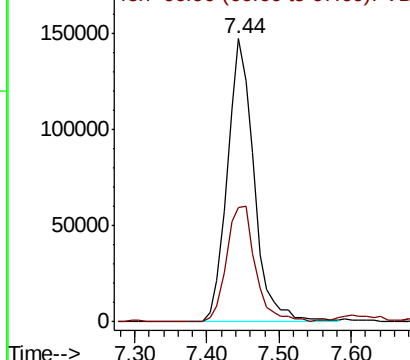
Ion Ratio Lower Upper

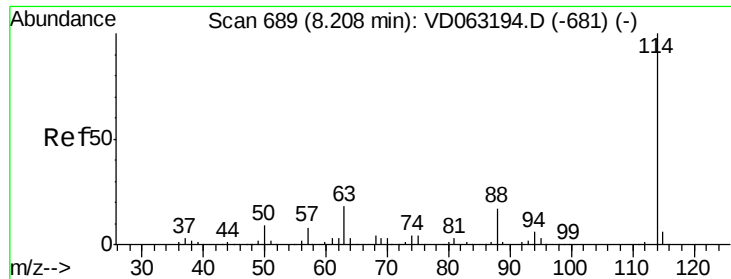
65 100

67 40.3 0.0 85.8



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

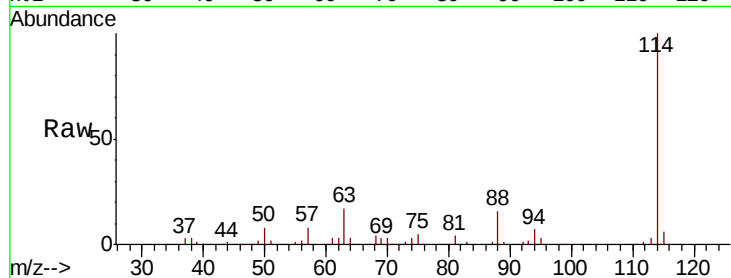




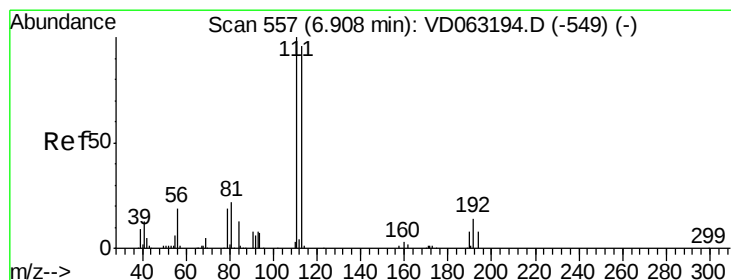
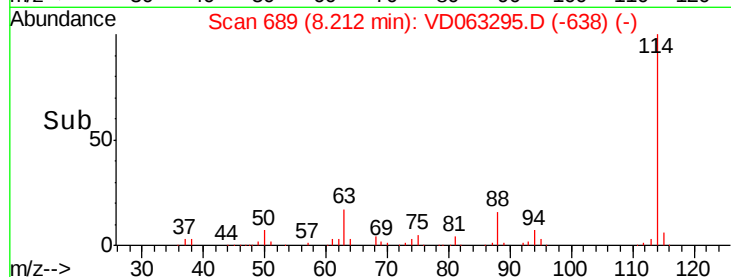
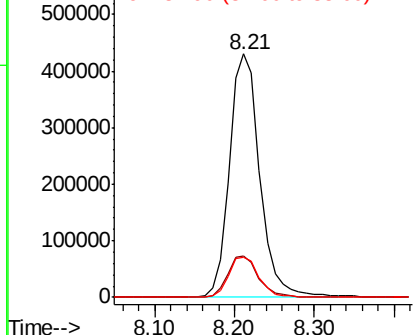
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. 0.00 min
 Lab File: VD063295.D
 Acq: 1 Aug 2019 16:29

Instrument :
 MSVOA_D
 ClientSampleID :
 T2-2

Tot Ion:114 Resp: 1143083
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 35.2
 88 16.4 0.0 34.6

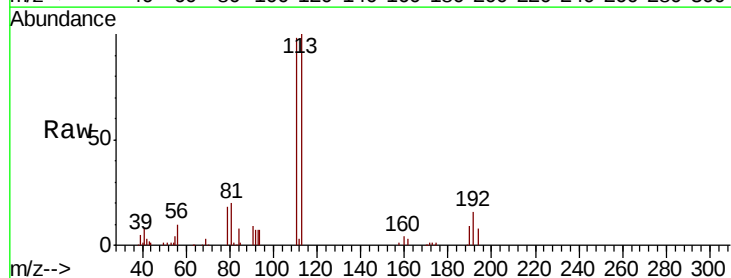


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

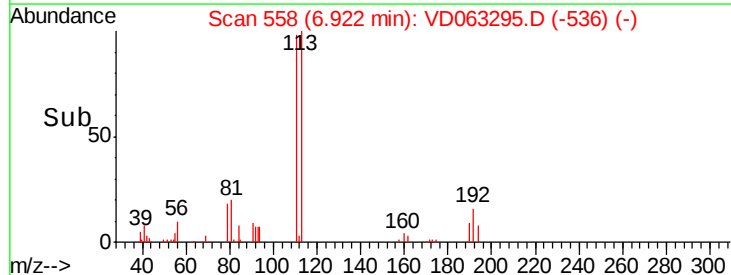
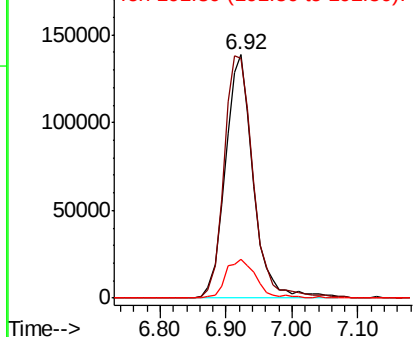


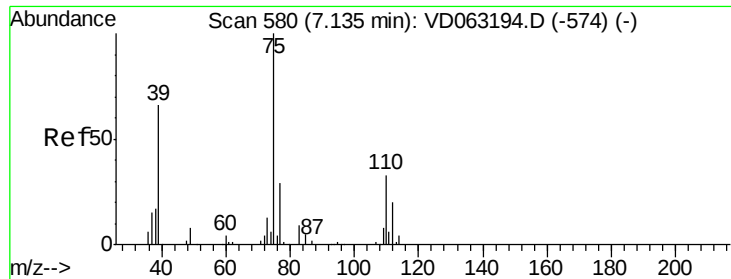
#35
 Dibromofluoromethane
 Concen: 42.069 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.01 min
 Lab File: VD063295.D
 Acq: 1 Aug 2019 16:29

Tgt Ion:113 Resp: 410575
 Ion Ratio Lower Upper
 113 100
 111 98.2 83.2 124.8
 192 16.2 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: 5.615 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.10 min

Lab File: VD063295.D

Acq: 1 Aug 2019 16:29

Instrument :

MSVOA_D

ClientSampled :

T2-2

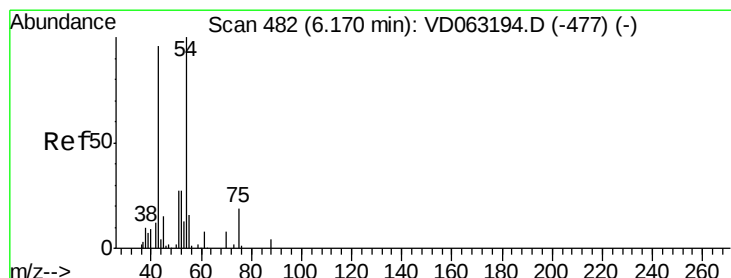
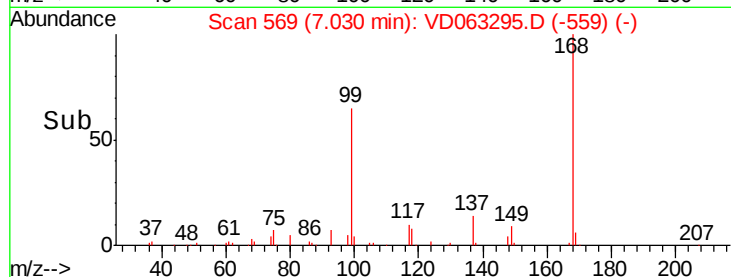
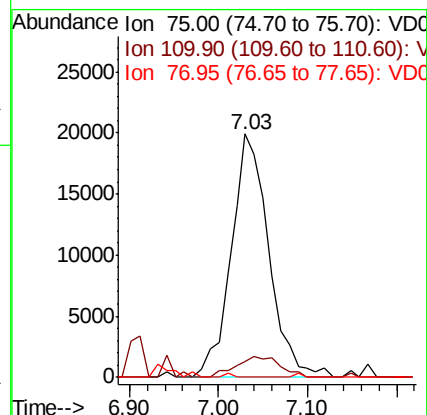
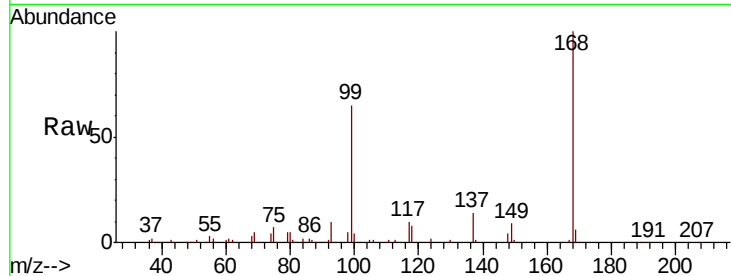
Tot Ion: 75 Resp: 58581

Ion Ratio Lower Upper

75 100

110 6.3 16.1 48.2#

77 0.0 22.7 34.1#



#37

Ethyl Acetate

Concen: 2.022 ug/l

RT: 6.14 min Scan# 479

Delta R.T. -0.03 min

Lab File: VD063295.D

Acq: 1 Aug 2019 16:29

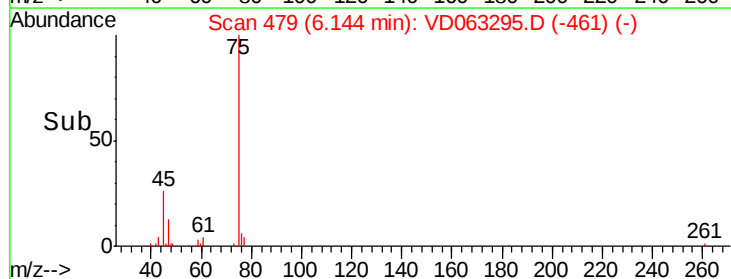
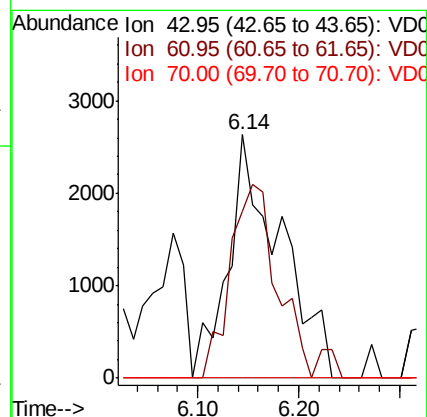
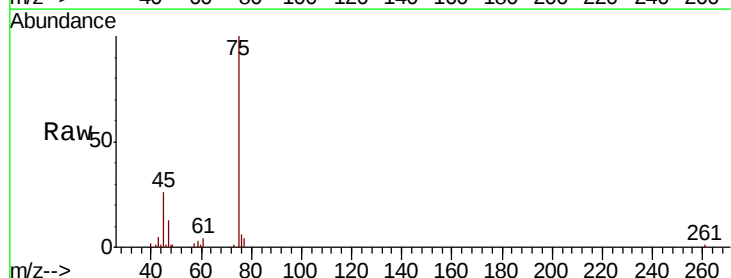
Tgt Ion: 43 Resp: 9475

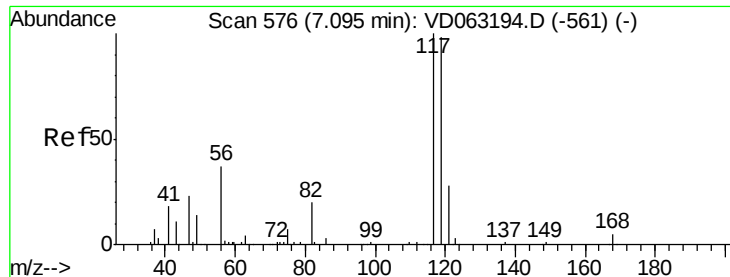
Ion Ratio Lower Upper

43 100

61 68.5 11.3 16.9#

70 0.0 5.1 7.7#





#38

Carbon Tetrachloride

Concen: 4.978 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.06 min

Lab File: VD063295.D

Acq: 1 Aug 2019 16:29

Instrument :

MSVOA_D

ClientSampleId :

T2-2

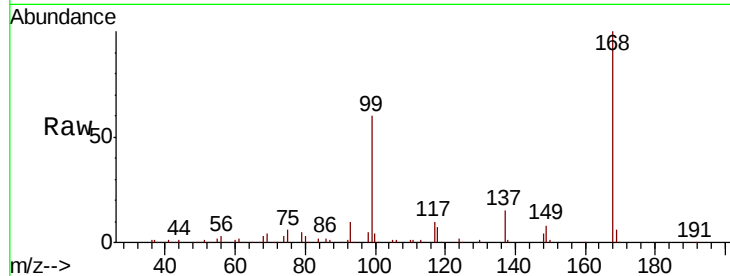
Tot Ion:117 Resp: 78185

Ion Ratio Lower Upper

117 100

119 5.1 78.2 117.2#

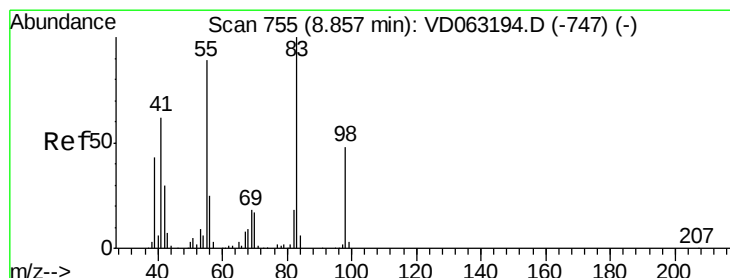
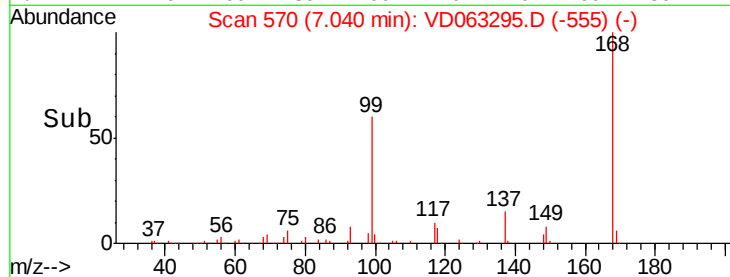
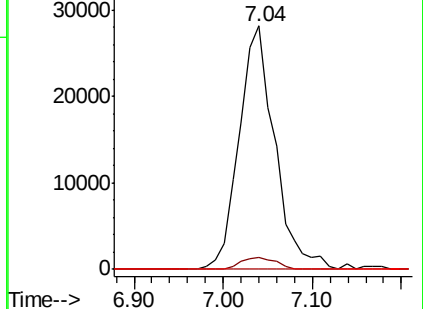
121 0.0 22.1 33.1#



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



#39

Methylcyclohexane

Concen: 4.610 ug/l

RT: 8.85 min Scan# 754

Delta R.T. -0.01 min

Lab File: VD063295.D

Acq: 1 Aug 2019 16:29

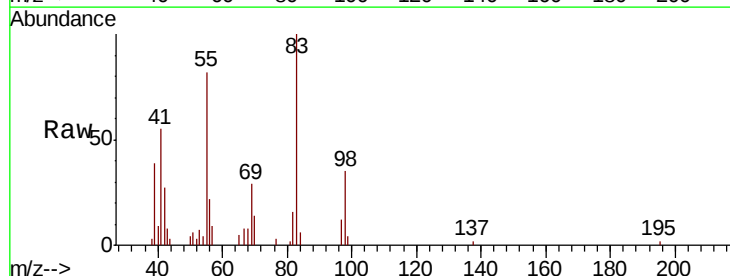
Tgt Ion: 83 Resp: 40071

Ion Ratio Lower Upper

83 100

55 82.3 71.1 106.7

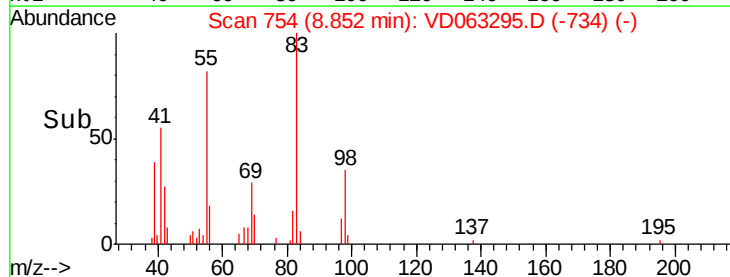
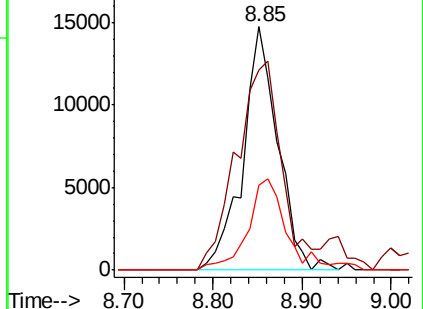
98 34.7 38.5 57.7#

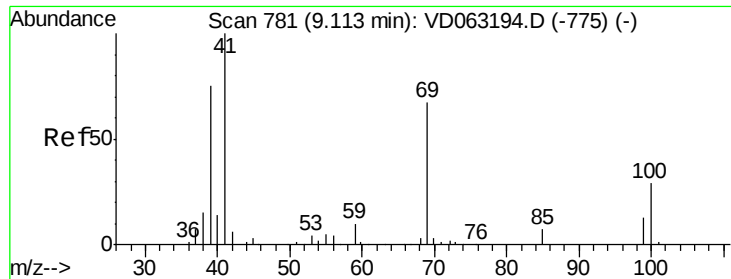


Abundance Ion 83.05 (82.75 to 83.75): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.05 (97.75 to 98.75): V

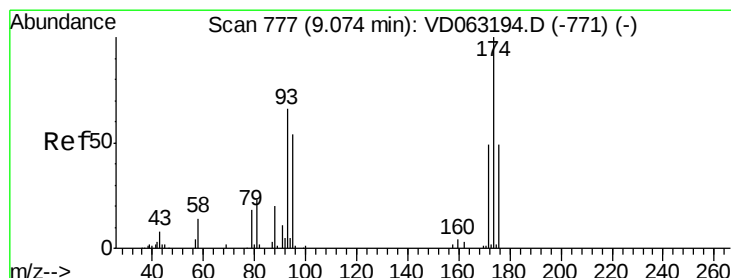
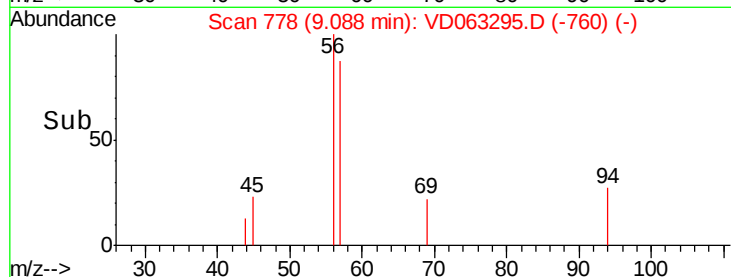
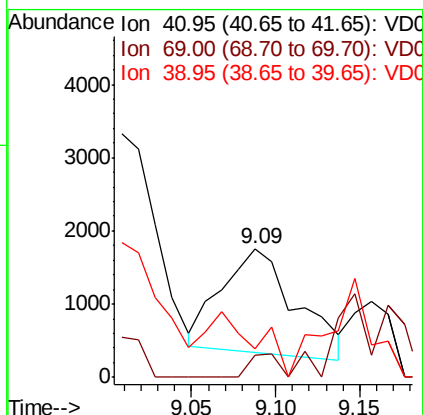
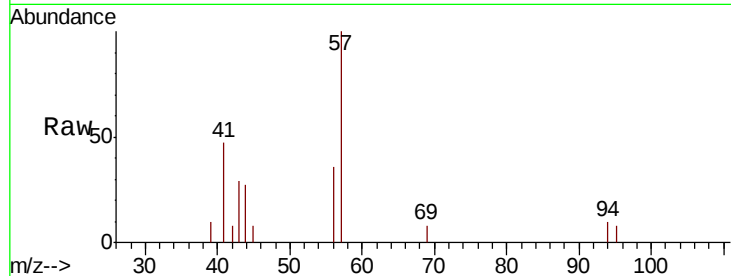




#48
Methyl methacrylate
Concen: 1.115 ug/l
RT: 9.09 min Scan# 778
Delta R.T. -0.03 min
Lab File: VD063295.D
Acq: 1 Aug 2019 16:29

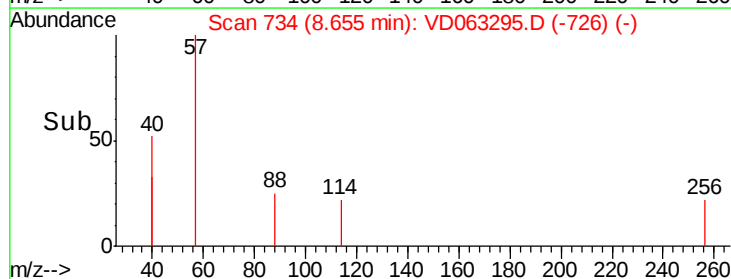
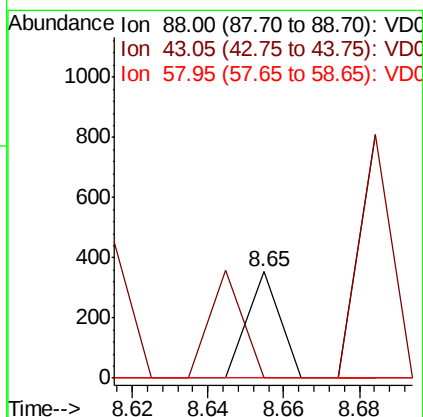
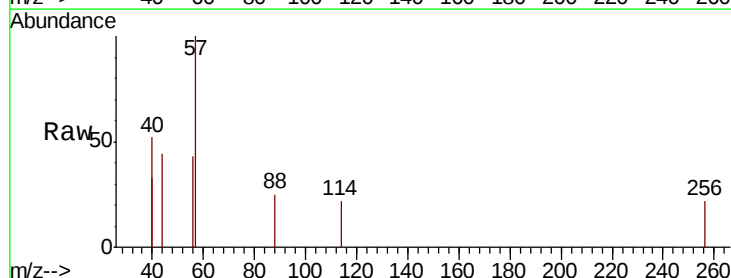
Instrument :
MSVOA_D
ClientSampled :
T2-2

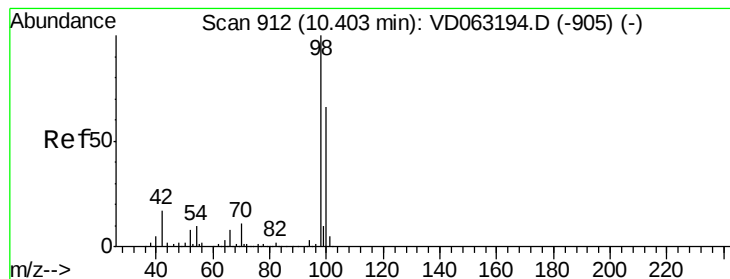
Tot Ion: 41 Resp: 4330
Ion Ratio Lower Upper
41 100
69 17.0 53.4 80.0#
39 22.4 60.3 90.5#



#49
1,4-Dioxane
Concen: 2.247 ug/l
RT: 8.65 min Scan# 734
Delta R.T. -0.42 min
Lab File: VD063295.D
Acq: 1 Aug 2019 16:29

Tgt Ion: 88 Resp: 209
Ion Ratio Lower Upper
88 100
43 0.0 30.7 46.1#
58 0.0 56.5 84.7#





#50

Toluene-d8

Concen: 34.802 ug/l

RT: 10.41 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD063295.D

Acq: 1 Aug 2019 16:29

Instrument :

MSVOA_D

ClientSampleId :

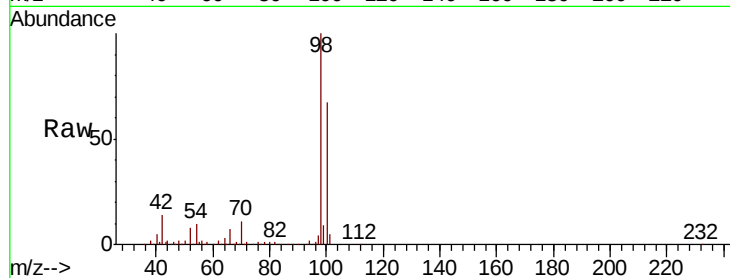
T2-2

Tot Ion: 98 Resp: 760135

Ion Ratio Lower Upper

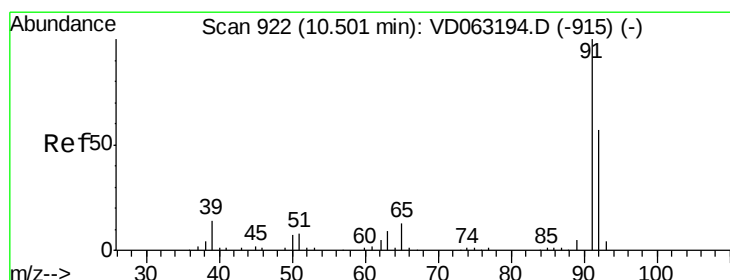
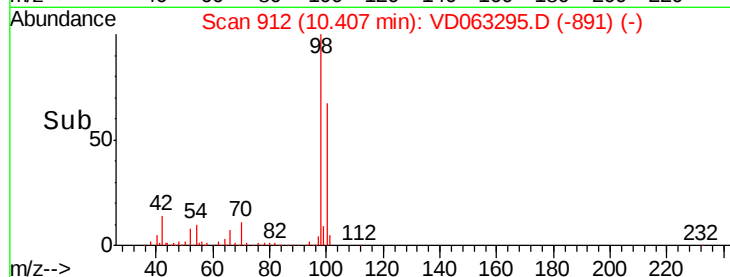
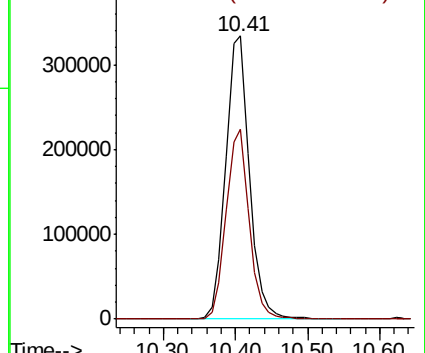
98 100

100 67.1 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#52

Toluene

Concen: 1.901 ug/l

RT: 10.51 min Scan# 922

Delta R.T. 0.00 min

Lab File: VD063295.D

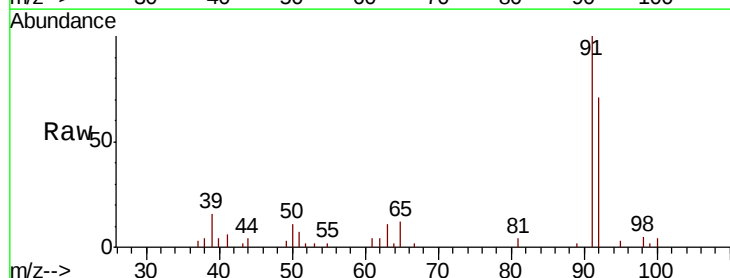
Acq: 1 Aug 2019 16:29

Tgt Ion: 92 Resp: 27650

Ion Ratio Lower Upper

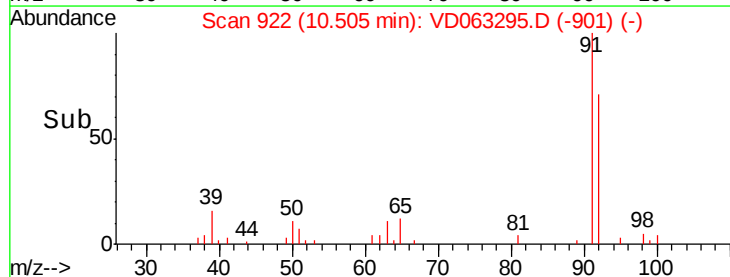
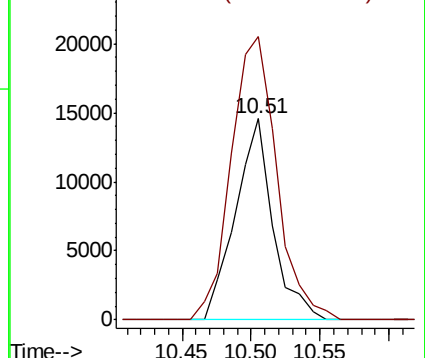
92 100

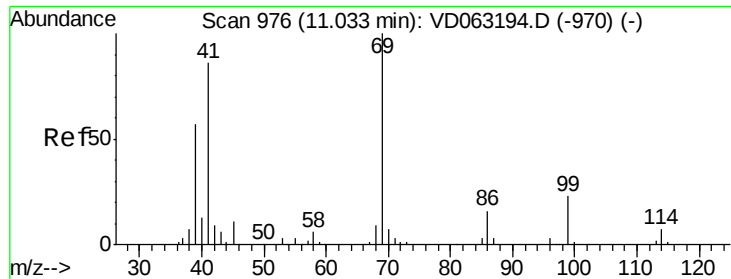
91 140.5 140.8 211.2#



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

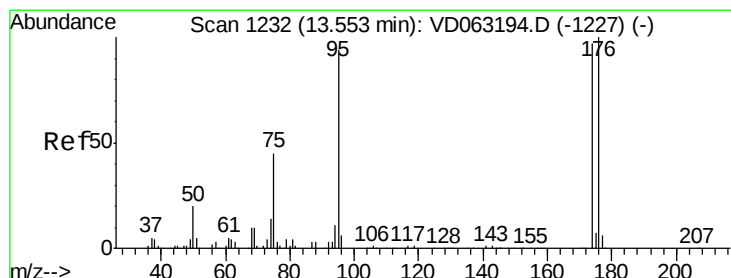
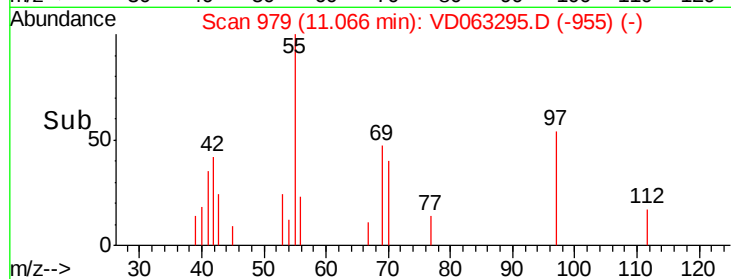
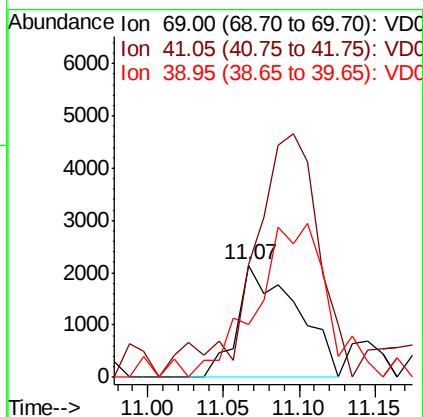
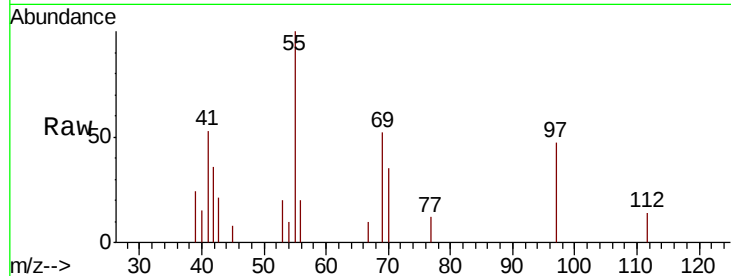




#56
Ethyl methacrylate
Concen: 1.085 ug/l
RT: 11.07 min Scan# 979
Delta R.T. 0.03 min
Lab File: VD063295.D
Acq: 1 Aug 2019 16:29

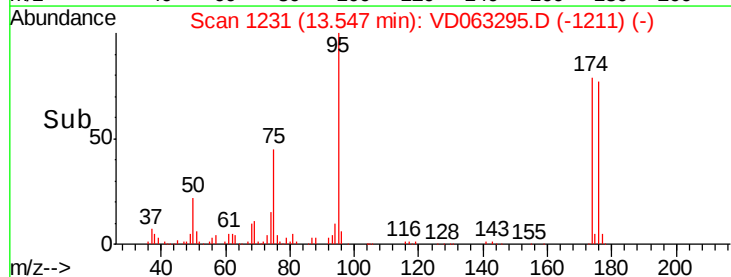
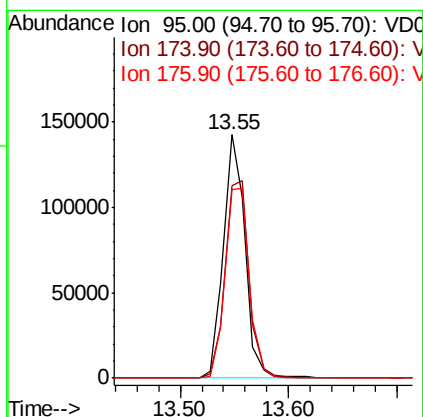
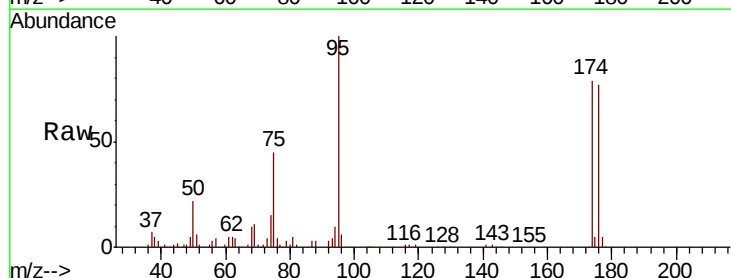
Instrument :
MSVOA_D
ClientSampleID :
T2-2

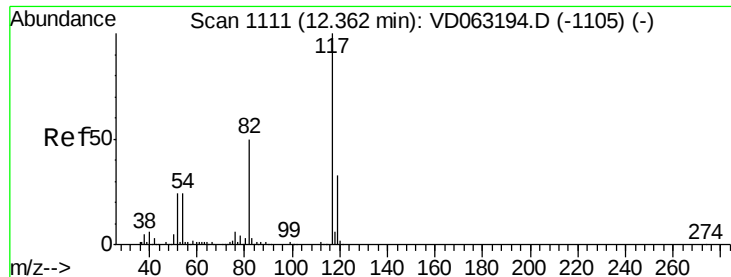
Tot Ion: 69 Resp: 5837
Ion Ratio Lower Upper
69 100
41 170.1 68.8 103.2#
39 46.7 45.8 68.8



#62
4-Bromofluorobenzene
Concen: 19.896 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD063295.D
Acq: 1 Aug 2019 16:29

Tgt Ion: 95 Resp: 198030
Ion Ratio Lower Upper
95 100
174 78.9 0.0 205.4
176 77.3 0.0 211.8

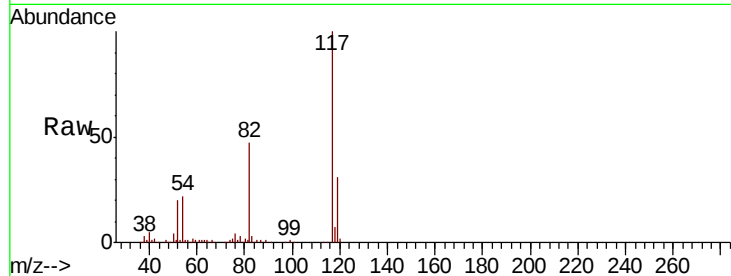




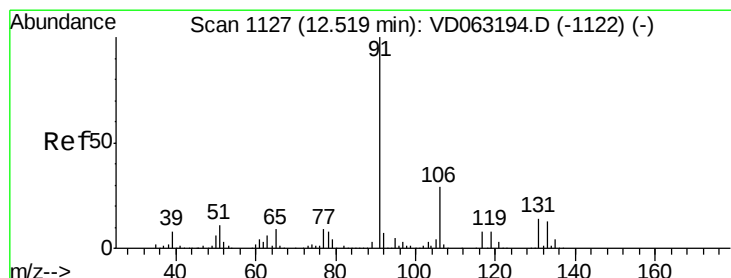
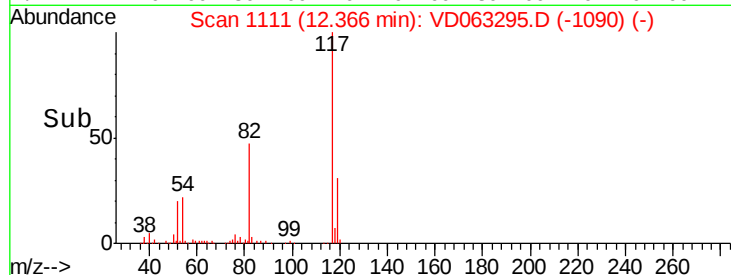
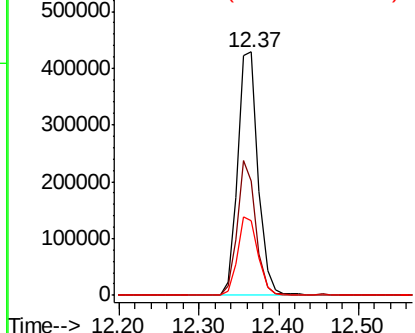
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063295.D
Acq: 1 Aug 2019 16:29

Instrument :
MSVOA_D
ClientSampled :
T2-2

Tot Ion	Ratio	Lower	Upper
117	100		
82	47.2	40.1	60.1
119	30.8	26.5	39.7

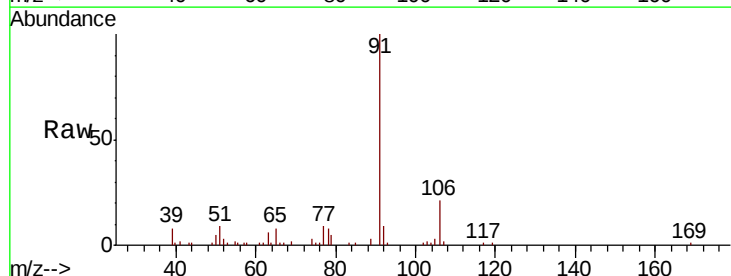


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

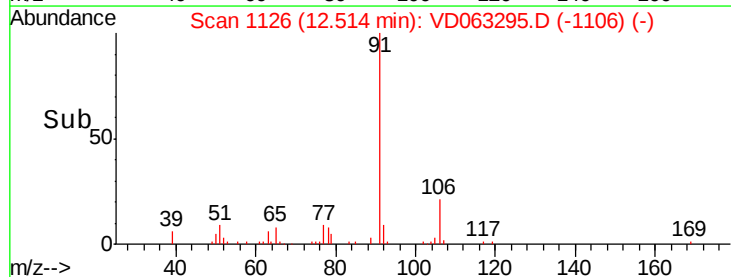
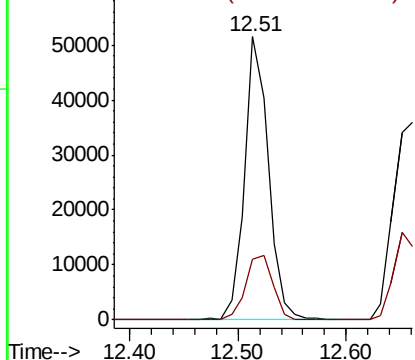


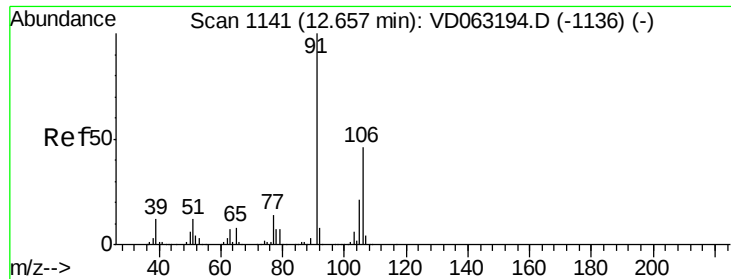
#67
Ethyl Benzene
Concen: 3.140 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VD063295.D
Acq: 1 Aug 2019 16:29

Tgt Ion	Ratio	Lower	Upper
91	100		
106	21.3	22.9	34.3



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.05 (105.75 to 106.75): V

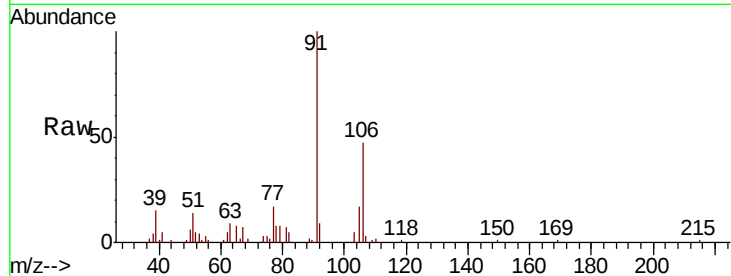




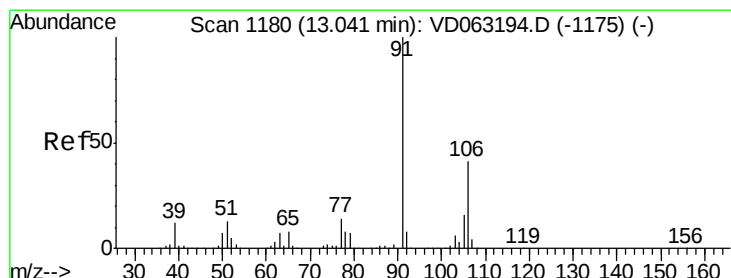
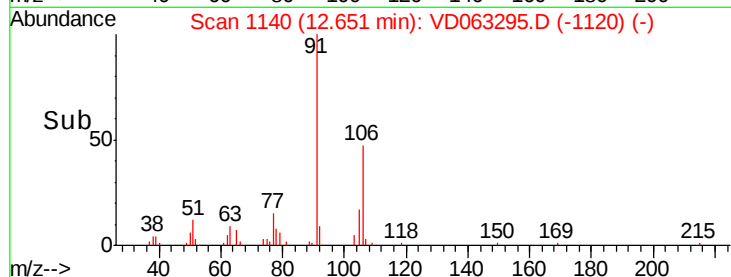
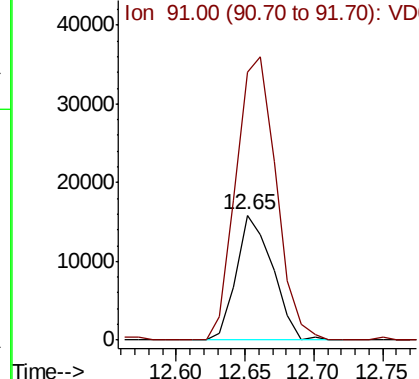
#68
m/p-Xylenes
Concen: 3.175 ug/l
RT: 12.65 min Scan# 1140
Delta R.T. -0.01 min
Lab File: VD063295.D
Acq: 1 Aug 2019 16:29

Instrument :
MSVOA_D
ClientSampled :
T2-2

Tot Ion:106 Resp: 29115
Ion Ratio Lower Upper
106 100
91 214.4 172.6 259.0

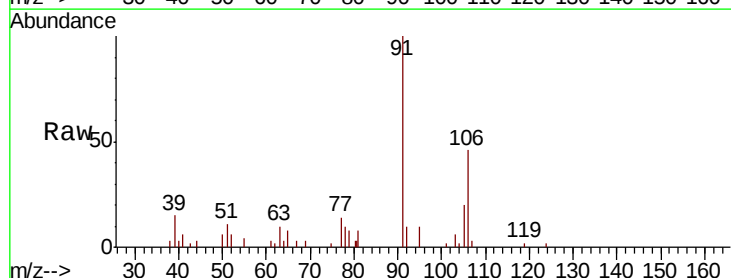


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

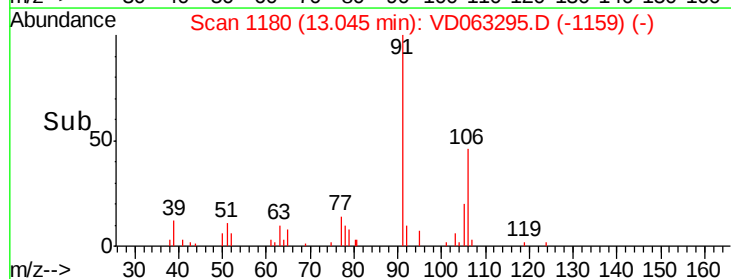
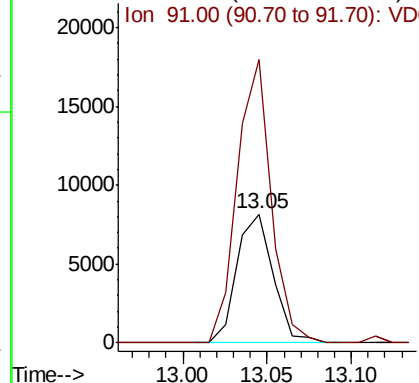


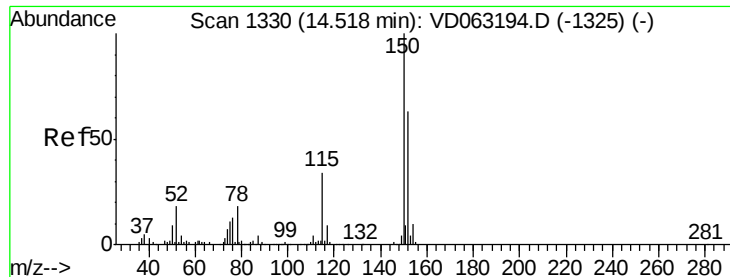
#69
o-Xylene
Concen: 1.447 ug/l
RT: 13.05 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VD063295.D
Acq: 1 Aug 2019 16:29

Tgt Ion:106 Resp: 12190
Ion Ratio Lower Upper
106 100
91 219.7 121.3 363.9



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VD063295.D

Acq: 1 Aug 2019 16:29

Instrument :

MSVOA_D

ClientSampleId :

T2-2

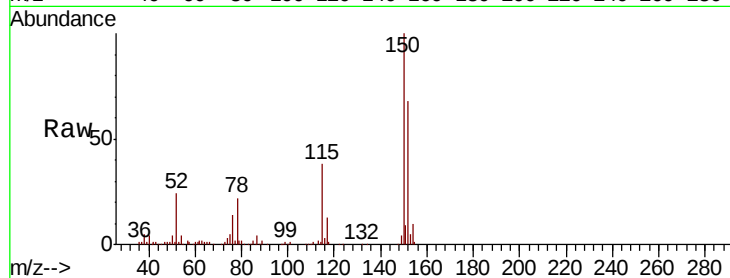
Tot Ion:152 Resp: 209680

Ion Ratio Lower Upper

152 100

115 55.4 27.5 82.4

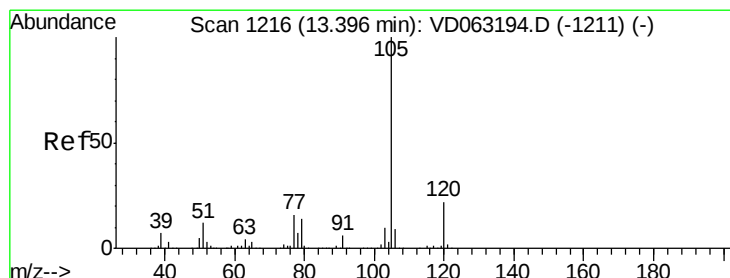
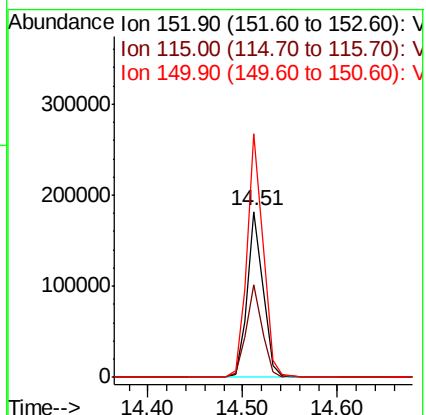
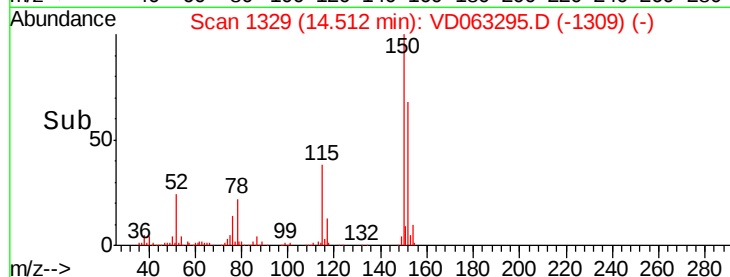
150 146.6 0.0 320.6



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



#73

Isopropylbenzene

Concen: 1.458 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. 0.00 min

Lab File: VD063295.D

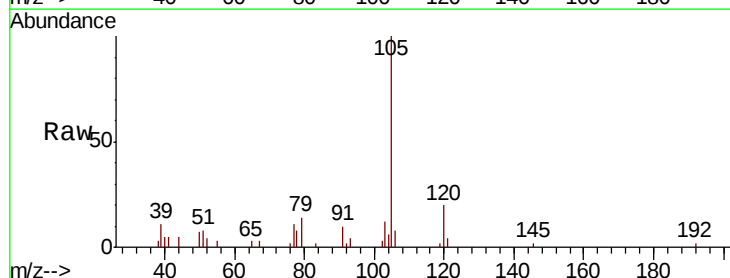
Acq: 1 Aug 2019 16:29

Tgt Ion:105 Resp: 19194

Ion Ratio Lower Upper

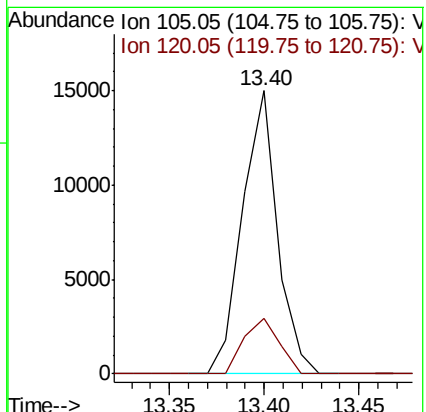
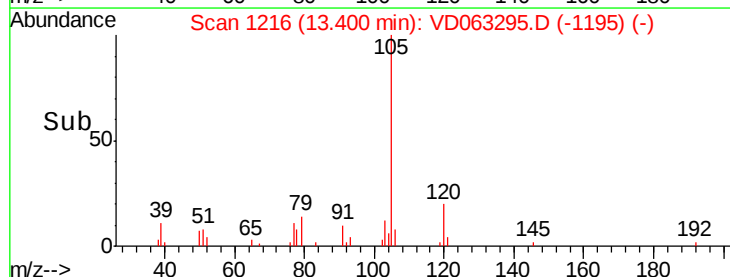
105 100

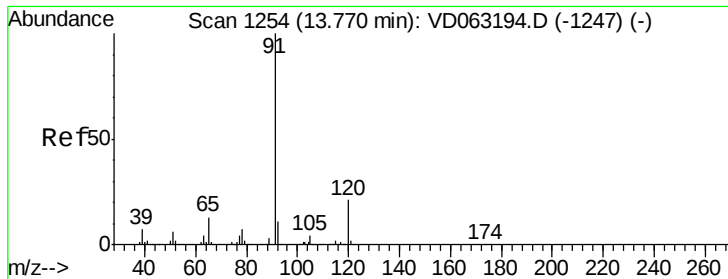
120 19.5 11.1 33.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#78

n-propylbenzene

Concen: 1.204 ug/l

RT: 13.76 min Scan# 1253

Delta R.T. -0.01 min

Lab File: VD063295.D

Acq: 1 Aug 2019 16:29

Instrument :

MSVOA_D

ClientSampled :

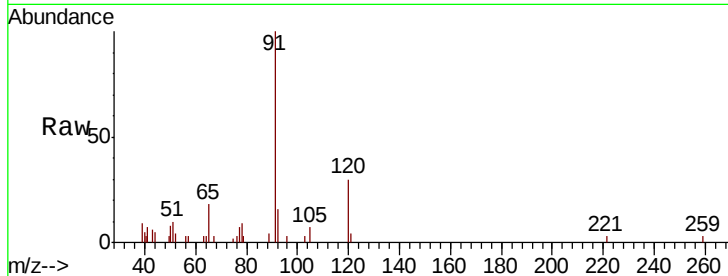
T2-2

Tot Ion: 91 Resp: 18850

Ion Ratio Lower Upper

91 100

120 30.1 10.7 32.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC

13.76

15000

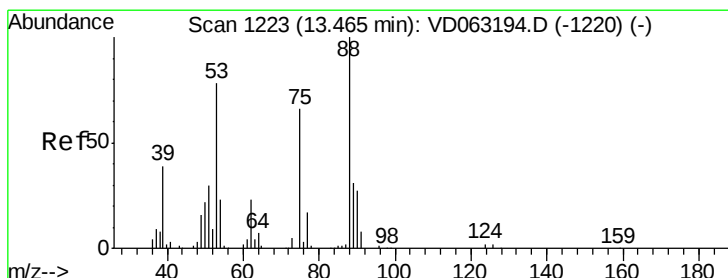
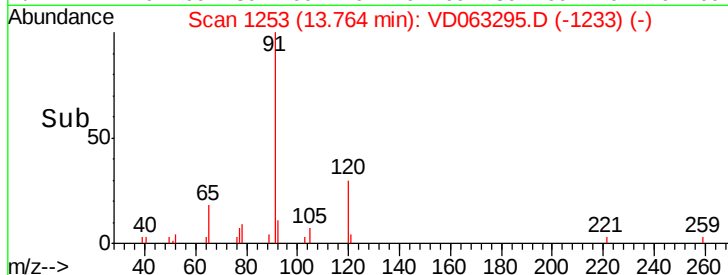
10000

5000

0

Time-->

13.70 13.75 13.80



#81

trans-1,4-Dichloro-2-butene

Concen: 122.608 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD063295.D

Acq: 1 Aug 2019 16:29

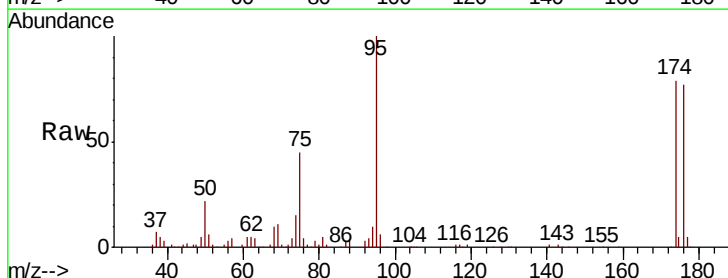
Tgt Ion: 75 Resp: 85745

Ion Ratio Lower Upper

75 100

53 0.8 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

13.55

80000

60000

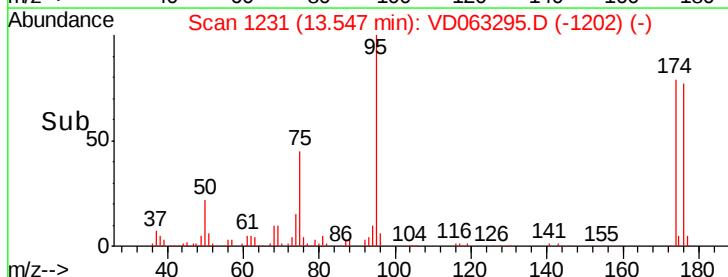
40000

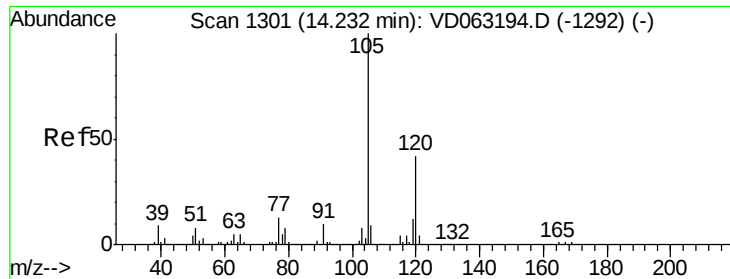
20000

0

Time-->

13.50 13.55 13.60

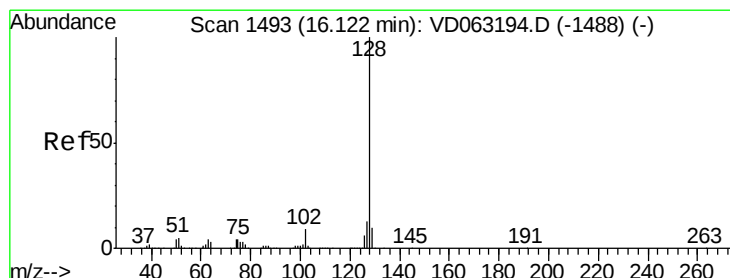
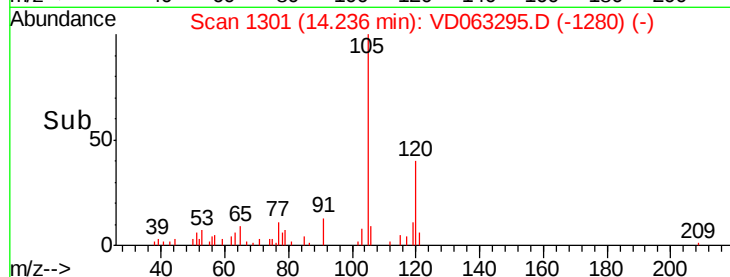
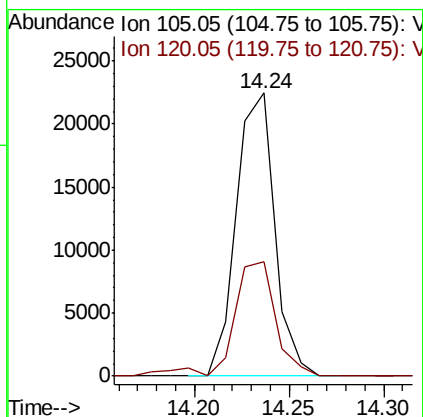
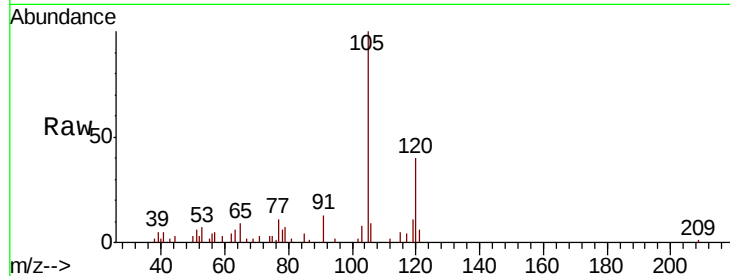




#84
 1,2,4-Trimethylbenzene
 Concen: 2.674 ug/l
 RT: 14.24 min Scan# 1301
 Delta R.T. 0.00 min
 Lab File: VD063295.D
 Acq: 1 Aug 2019 16:29

Instrument :
 MSVOA_D
 ClientSampleId :
 T2-2

Tot Ion:105 Resp: 31391
 Ion Ratio Lower Upper
 105 100
 120 40.4 20.9 62.7



#95
 Naphthalene
 Concen: 1.628 ug/l
 RT: 16.12 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VD063295.D
 Acq: 1 Aug 2019 16:29

Tgt Ion:128 Resp: 10558
 Ion Ratio Lower Upper
 128 100
 127 16.5 10.2 15.4#
 129 13.2 7.8 11.8#

