

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081418\
 Data File : VD059767.D
 Acq On : 14 Aug 2018 15:24
 Operator : VA/AP
 Sample : J4430-11RE
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 UST-ERE

Quant Time: Aug 14 15:49:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D081018S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 11 05:42:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	205862	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.69	114	284516	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.69	117	197595	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	78466	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	133085	41.30	ug/l	0.01
Spiked Amount			Recovery	=	82.60%	
35) Dibromofluoromethane	5.55	113	113915	38.88	ug/l	0.01
Spiked Amount			Recovery	=	77.76%	
50) Toluene-d8	8.71	98	200051	34.43	ug/l	0.01
Spiked Amount			Recovery	=	68.86%	
62) 4-Bromofluorobenzene	11.93	95	85614	29.37	ug/l	0.00
Spiked Amount			Recovery	=	58.74%	

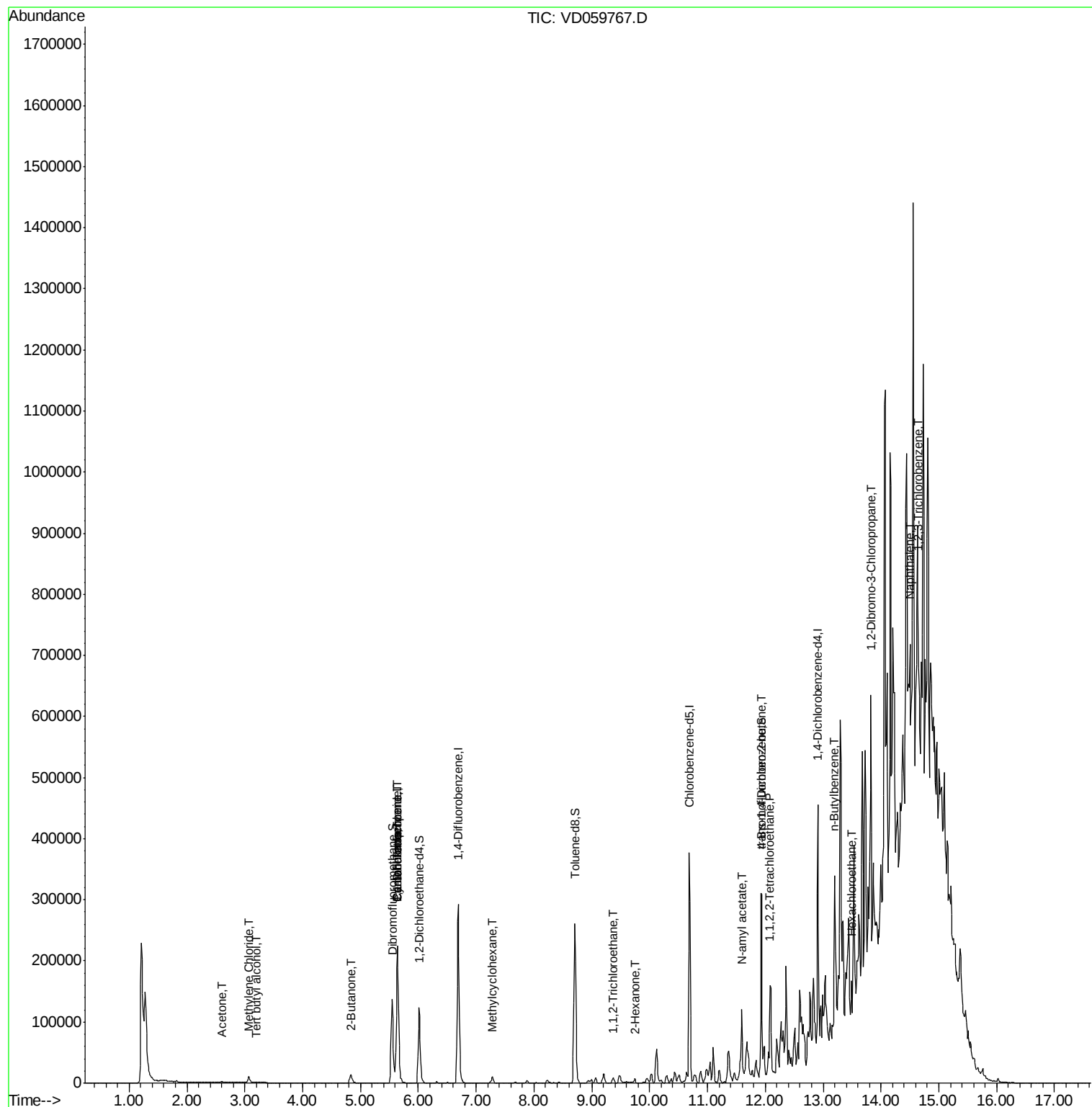
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.20	59	179	1.60	ug/l #	75
16) Acetone	2.61	43	2268	4.31	ug/l #	59
20) Methylene Chloride	3.07	84	4904	3.23	ug/l	87
25) 2-Butanone	4.82	43	894	1.58	ug/l #	62
31) Cyclohexane	5.64	56	5812	2.80	ug/l #	19
36) 1,1-Dichloropropene	5.64	75	17961	5.44	ug/l #	51
38) Carbon Tetrachloride	5.64	117	19828	3.82	ug/l #	15
39) Methylcyclohexane	7.28	83	5854	2.39	ug/l #	88
55) 1,1,2-Trichloroethane	9.36	97	3225	2.21	ug/l #	13
59) 2-Hexanone	9.74	43	2905	2.75	ug/l #	36
74) N-amyl acetate	11.59	43	13034	8.53	ug/l #	38
75) 1,1,2,2-Tetrachloroethane	12.08	83	11141	11.45	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.93	75	41948	160.45	ug/l #	1
89) n-Butylbenzene	13.19	91	6210	1.31	ug/l #	51
90) Hexachloroethane	13.49	117	2057	1.65	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	13.83	75	424	1.75	ug/l #	4
95) Naphthalene	14.51	128	6714	2.35	ug/l #	1
96) 1,2,3-Trichlorobenzene	14.65	180	6739	3.71	ug/l #	1

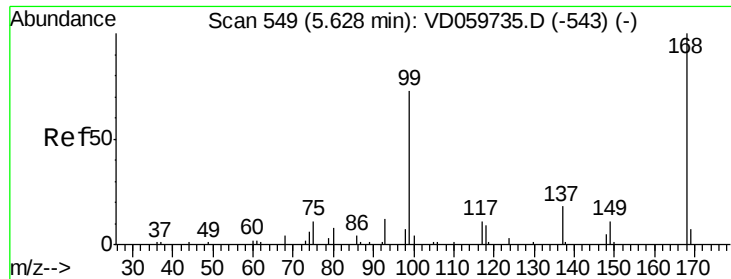
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Aug 11 05:42:24 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.64 min Scan# 550

Delta R.T. 0.01 min

Lab File: VD059767.D

Acq: 14 Aug 2018 15:24

Instrument :

MSVOA_D

ClientSampleId :

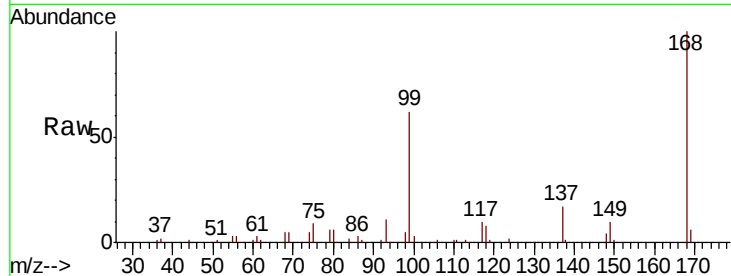
UST-ERE

Tot Ion:168 Resp: 205862

Ion Ratio Lower Upper

168 100

99 62.2 61.4 92.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.64

80000

60000

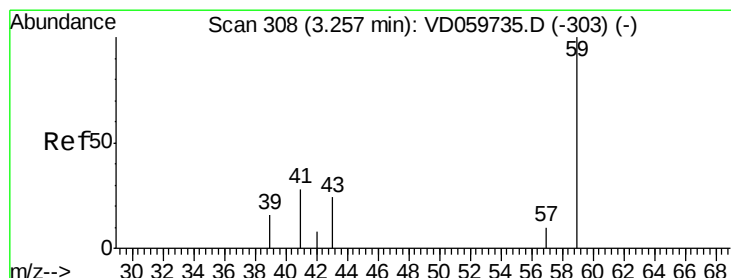
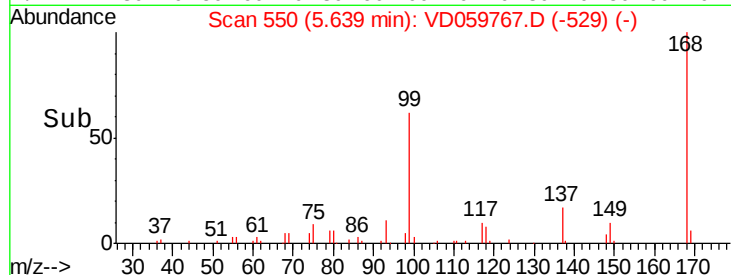
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 1.60 ug/l

RT: 3.20 min Scan# 302

Delta R.T. -0.06 min

Lab File: VD059767.D

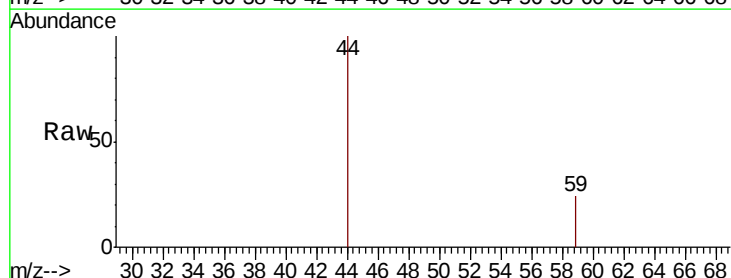
Acq: 14 Aug 2018 15:24

Tgt Ion: 59 Resp: 179

Ion Ratio Lower Upper

59 100

57 0.0 7.3 10.9#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.20

300

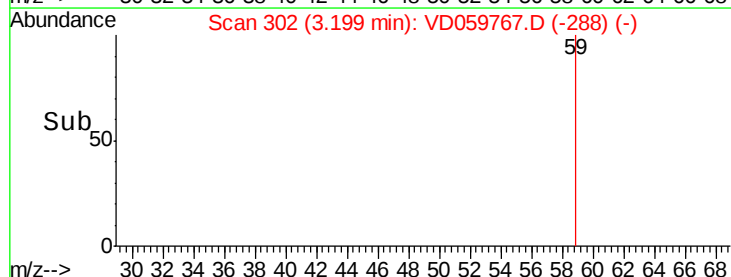
200

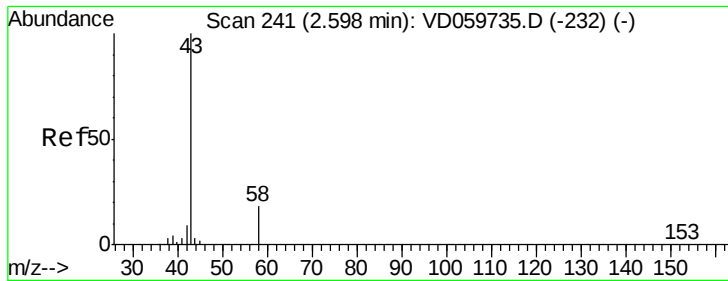
100

0

Time-->

3.18 3.20 3.22





#16

Acetone

Concen: 4.31 ug/l

RT: 2.61 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD059767.D

Acq: 14 Aug 2018 15:24

Instrument :

MSVOA_D

ClientSampled :

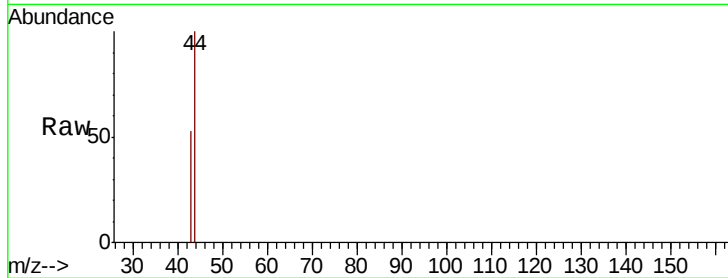
UST-ERE

Tot Ion: 43 Resp: 2268

Ion Ratio Lower Upper

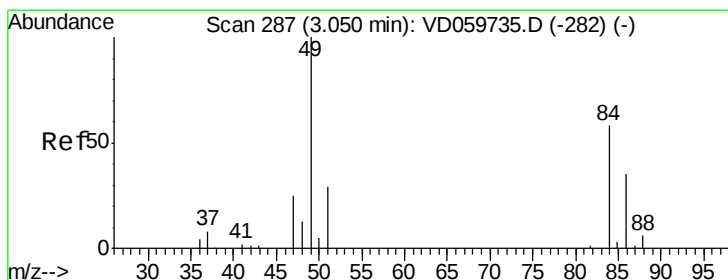
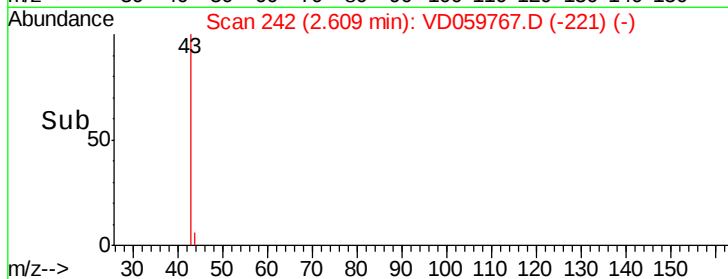
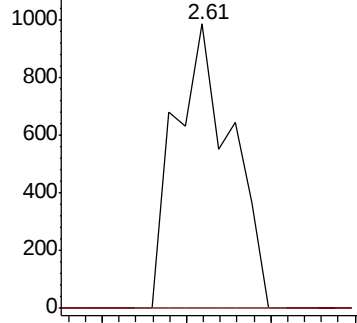
43 100

58 0.0 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 3.23 ug/l

RT: 3.07 min Scan# 289

Delta R.T. 0.02 min

Lab File: VD059767.D

Acq: 14 Aug 2018 15:24

Tgt Ion: 84 Resp: 4904

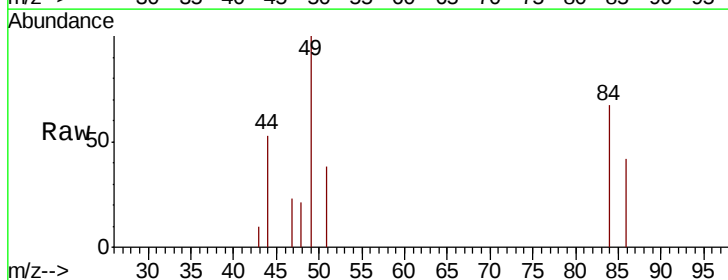
Ion Ratio Lower Upper

84 100

49 150.4 138.9 208.3

51 57.8 40.2 60.2

86 62.7 49.1 73.7

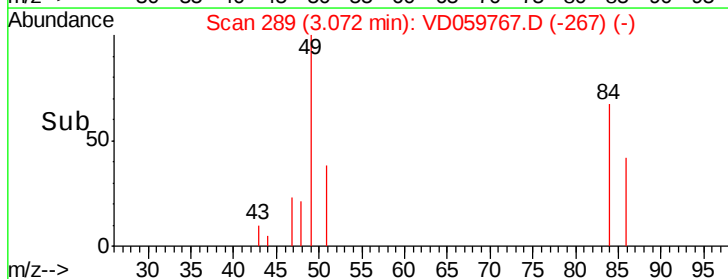
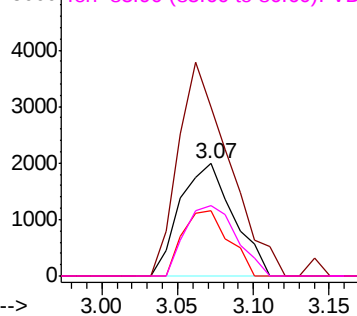


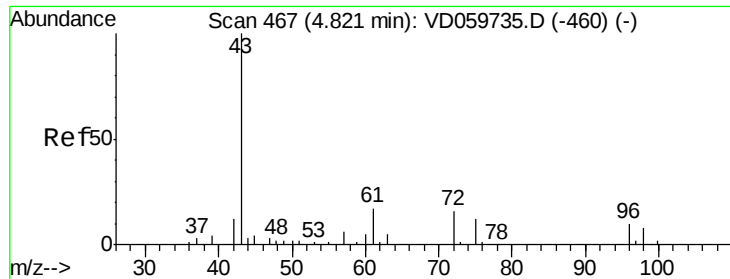
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 1.58 ug/l

RT: 4.82 min Scan# 467

Delta R.T. 0.00 min

Lab File: VD059767.D

Acq: 14 Aug 2018 15:24

Instrument :

MSVOA_D

ClientSampleId :

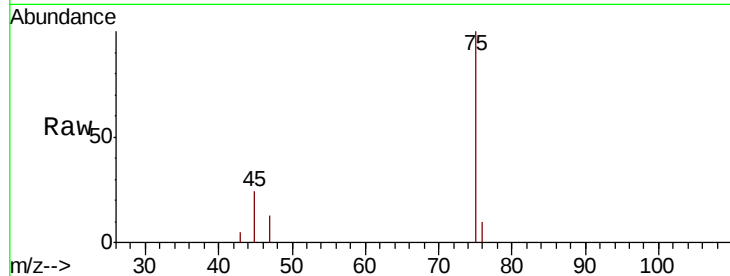
UST-ERE

Tot Ion: 43 Resp: 894

Ion Ratio Lower Upper

43 100

72 0.0 13.1 19.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

4.82

400

300

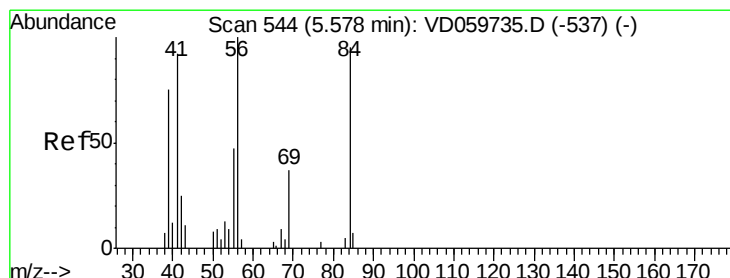
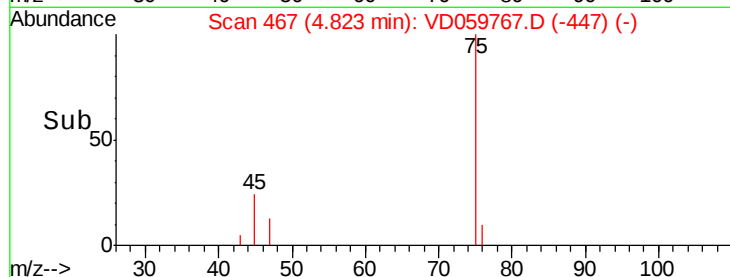
200

100

0

4.80 4.85

Time-->



#31

Cyclohexane

Concen: 2.80 ug/l

RT: 5.64 min Scan# 550

Delta R.T. 0.06 min

Lab File: VD059767.D

Acq: 14 Aug 2018 15:24

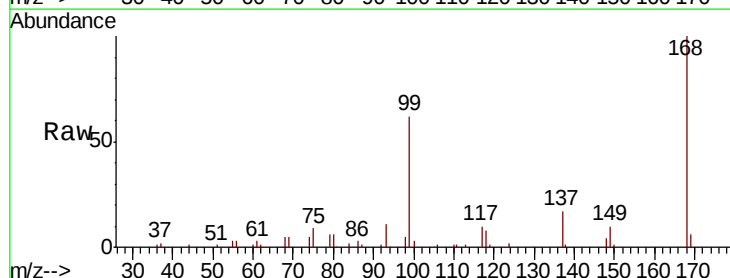
Tgt Ion: 56 Resp: 5812

Ion Ratio Lower Upper

56 100

69 171.1 29.3 43.9#

84 70.4 76.2 114.2#



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

5000

4000

3000

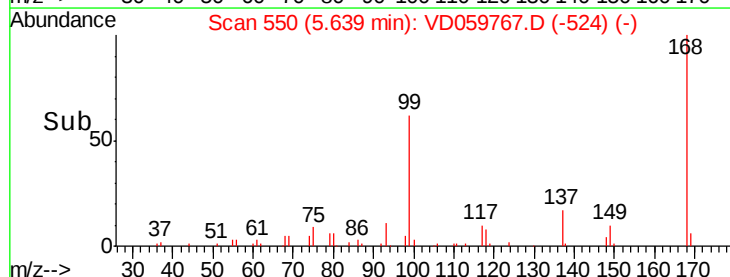
2000

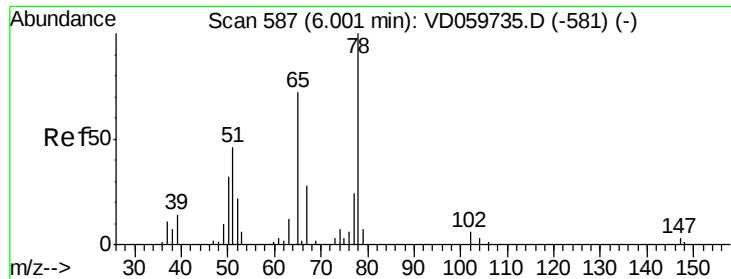
1000

0

5.50 5.60 5.70

Time-->

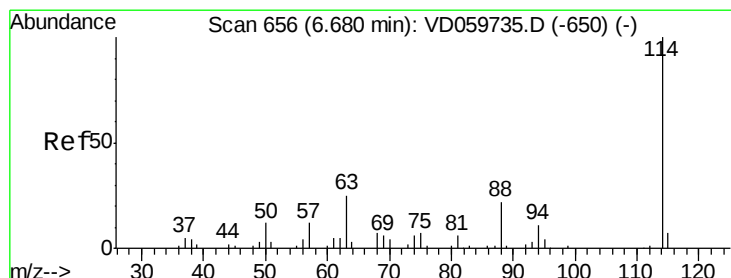
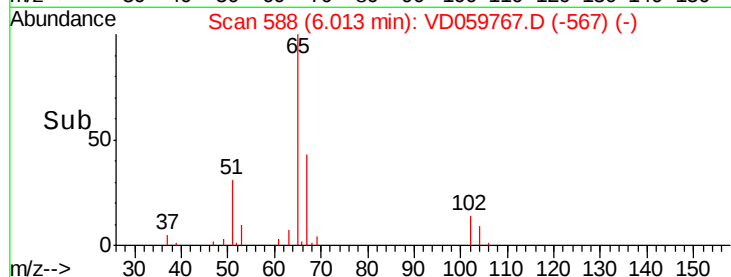
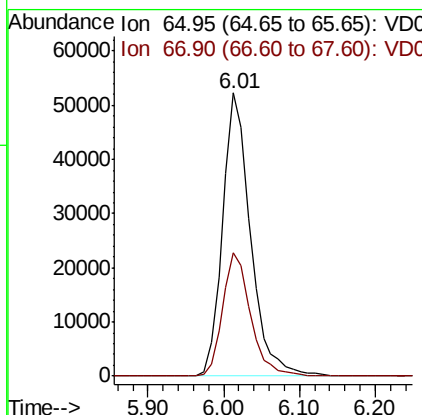
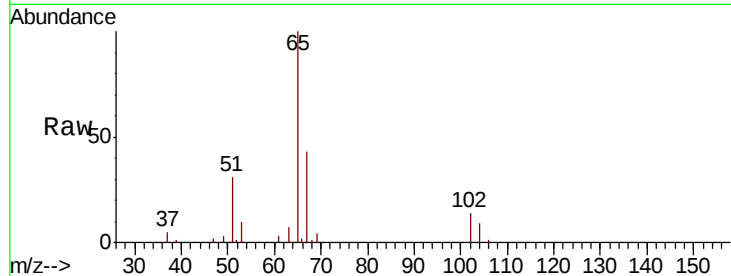




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.01 min Scan# 588
 Delta R.T. 0.01 min
 Lab File: VD059767.D
 Acq: 14 Aug 2018 15:24

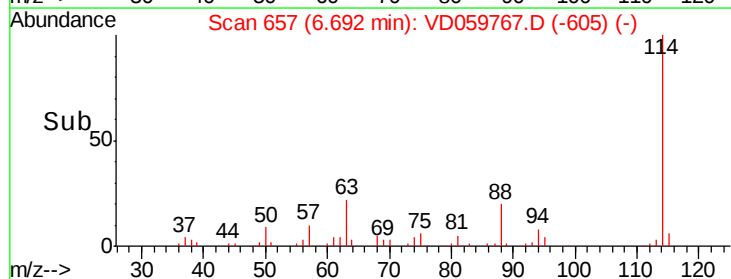
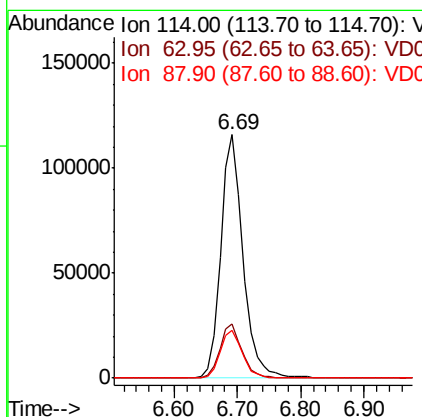
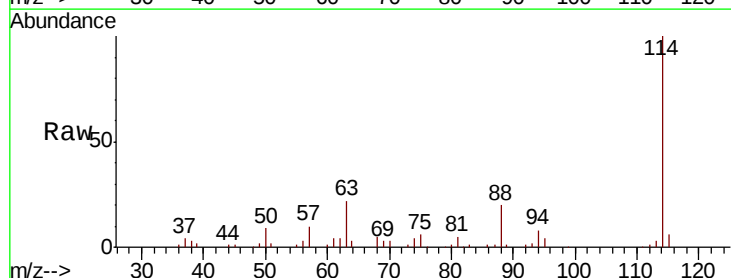
Instrument :
 MSVOA_D
 ClientSampleId :
 UST-ERE

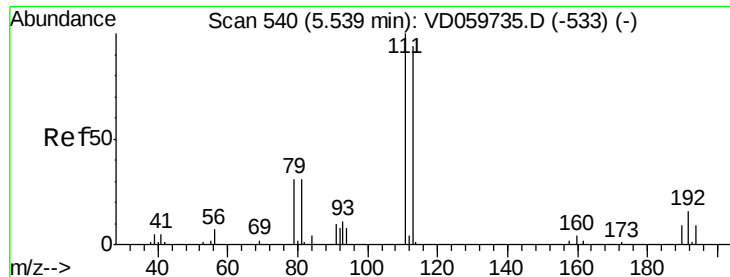
Tot Ion: 65 Resp: 133085
 Ion Ratio Lower Upper
 65 100
 67 43.5 0.0 77.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.69 min Scan# 657
 Delta R.T. 0.01 min
 Lab File: VD059767.D
 Acq: 14 Aug 2018 15:24

Tgt Ion: 114 Resp: 284516
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 50.6
 88 19.5 0.0 43.4

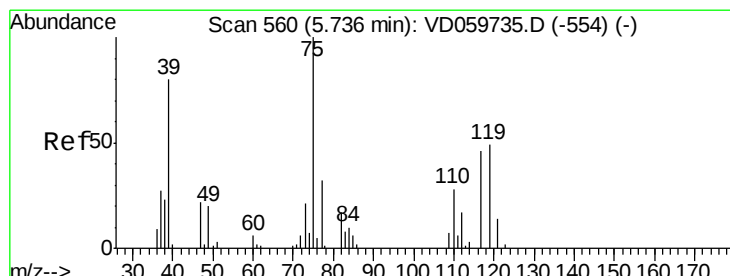
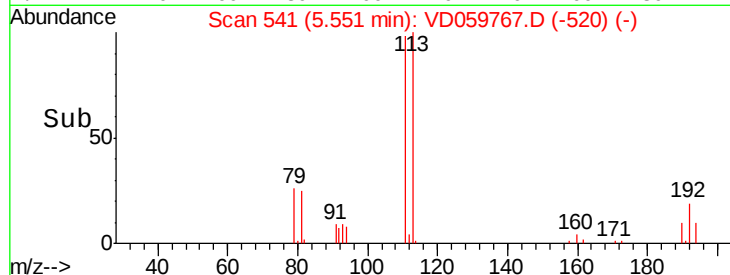
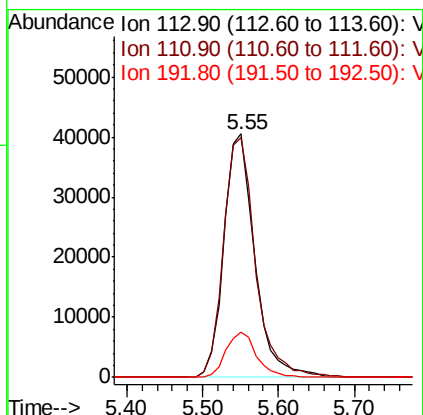
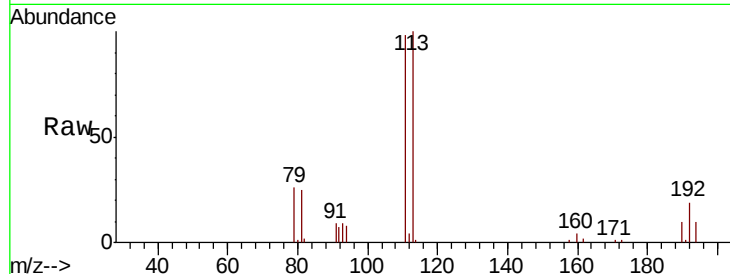




#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 5.55 min Scan# 541
 Delta R.T. 0.01 min
 Lab File: VD059767.D
 Acq: 14 Aug 2018 15:24

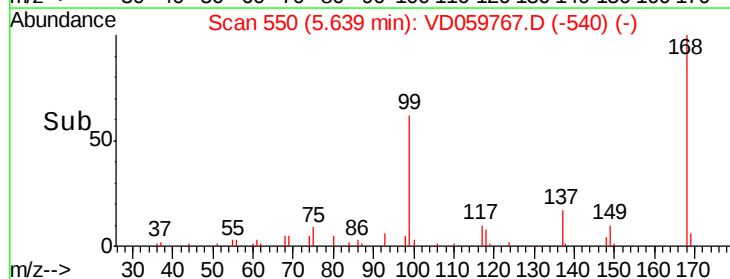
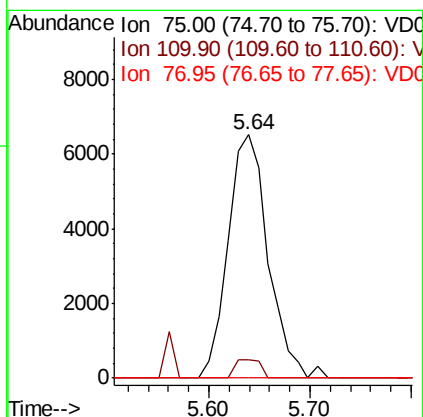
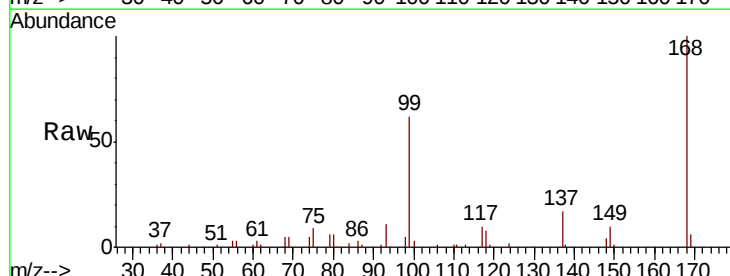
Instrument :
 MSVOA_D
 ClientSampled :
 UST-ERE

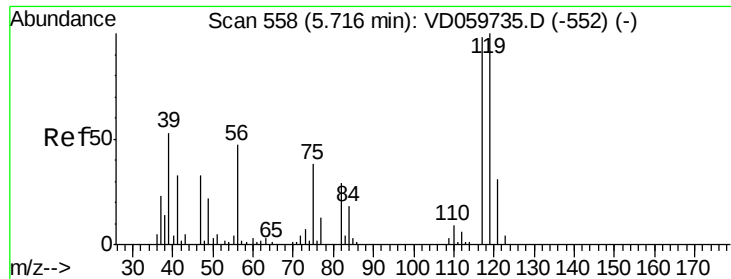
Tot Ion	Ratio	Lower	Upper
113	100		
111	98.3	85.3	127.9
192	18.7	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 5.44 ug/l
 RT: 5.64 min Scan# 550
 Delta R.T. -0.10 min
 Lab File: VD059767.D
 Acq: 14 Aug 2018 15:24

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.3	13.7	41.0#
77	0.0	25.4	38.2#

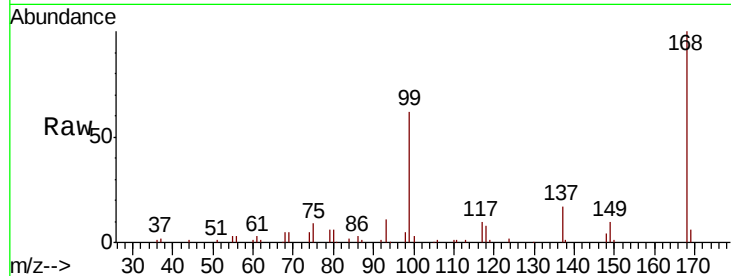




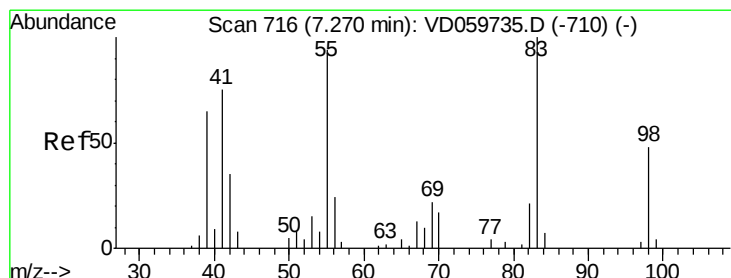
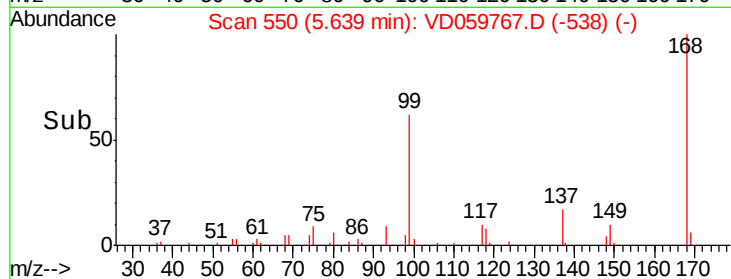
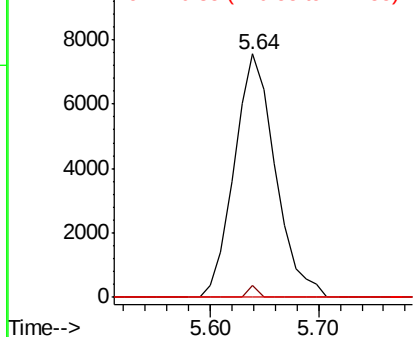
#38
Carbon Tetrachloride
Concen: 3.82 ug/l
RT: 5.64 min Scan# 550
Delta R.T. -0.08 min
Lab File: VD059767.D
Acq: 14 Aug 2018 15:24

Instrument :
MSVOA_D
ClientSampleId :
UST-ERE

Tot Ion:117 Resp: 19828
Ion Ratio Lower Upper
117 100
119 4.9 78.2 117.2#
121 0.0 23.9 35.9#

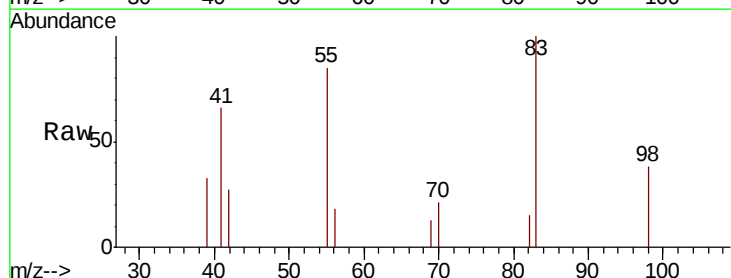


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

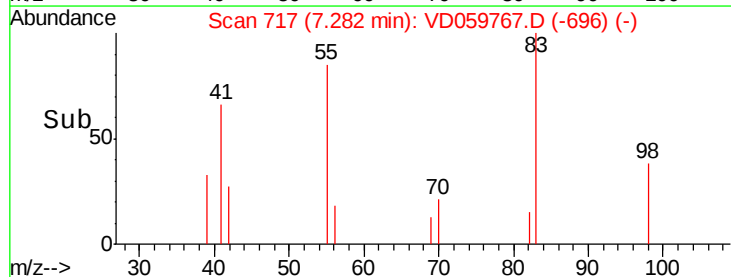
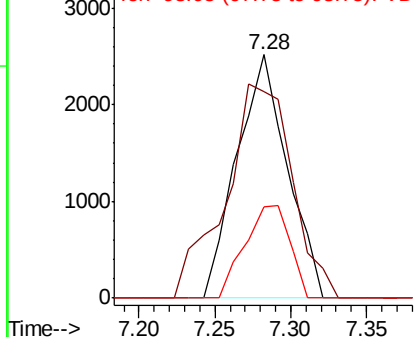


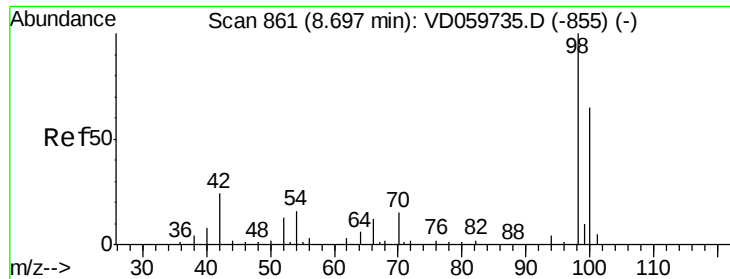
#39
Methylcyclohexane
Concen: 2.39 ug/l
RT: 7.28 min Scan# 717
Delta R.T. 0.01 min
Lab File: VD059767.D
Acq: 14 Aug 2018 15:24

Tgt Ion: 83 Resp: 5854
Ion Ratio Lower Upper
83 100
55 84.9 75.1 112.7
98 37.6 38.7 58.1#



Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.71 min Scan# 862

Delta R.T. 0.01 min

Lab File: VD059767.D

Acq: 14 Aug 2018 15:24

Instrument :

MSVOA_D

ClientSampleId :

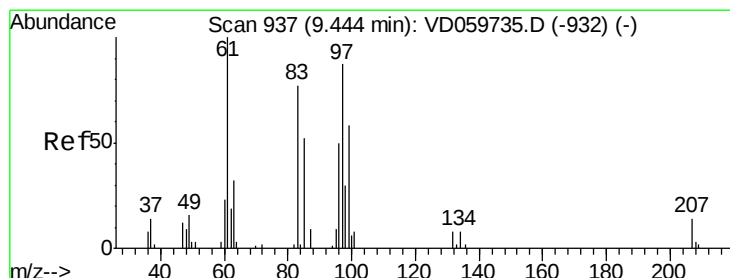
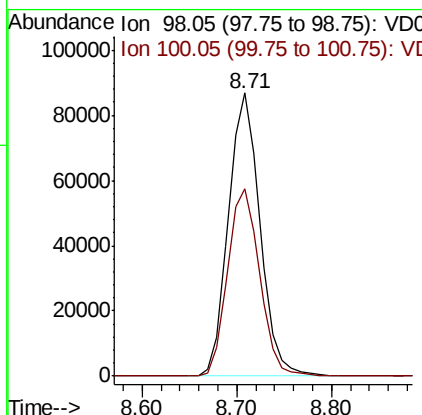
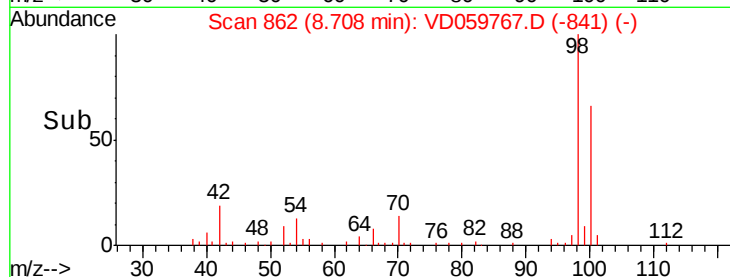
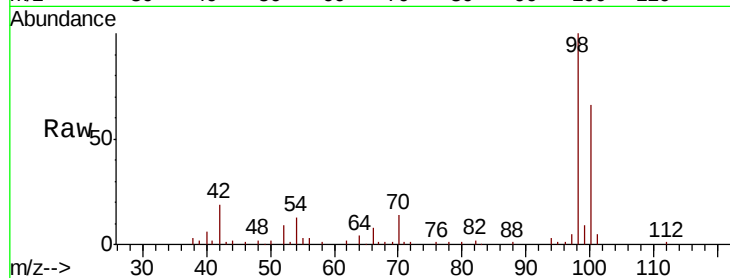
UST-ERE

Tot Ion: 98 Resp: 200051

Ion Ratio Lower Upper

98 100

100 66.4 52.2 78.2



#55

1,1,2-Trichloroethane

Concen: 2.21 ug/l

RT: 9.36 min Scan# 928

Delta R.T. -0.09 min

Lab File: VD059767.D

Acq: 14 Aug 2018 15:24

Tgt Ion: 97 Resp: 3225

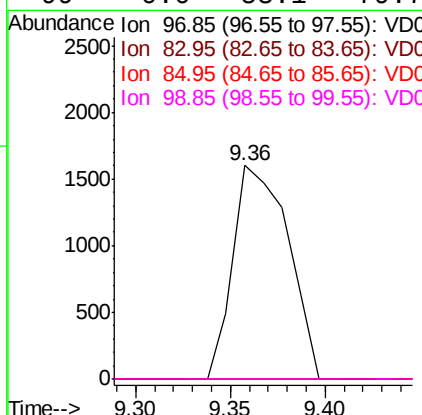
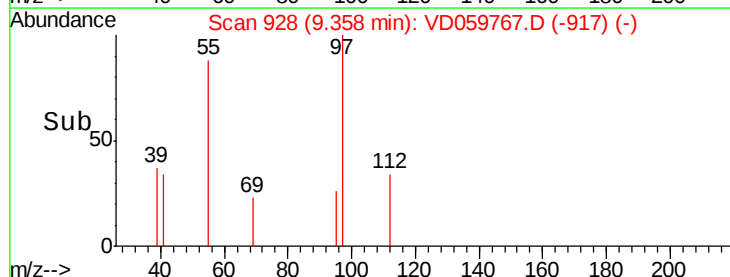
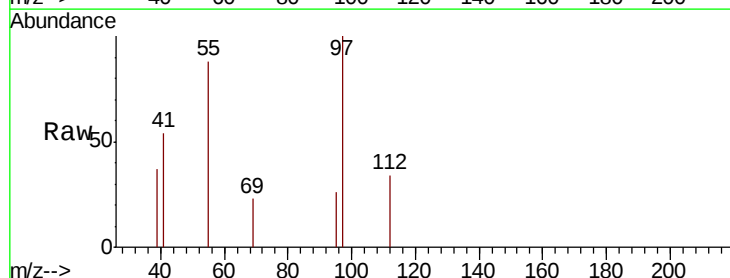
Ion Ratio Lower Upper

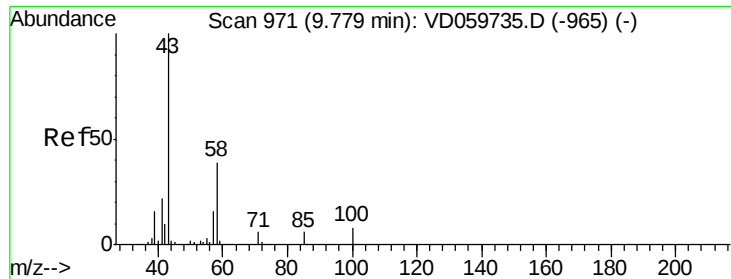
97 100

83 0.0 70.4 105.6#

85 0.0 47.6 71.4#

99 0.0 53.1 79.7#





#59

2-Hexanone

Concen: 2.75 ug/l

RT: 9.74 min Scan# 967

Delta R.T. -0.04 min

Lab File: VD059767.D

Acq: 14 Aug 2018 15:24

Instrument :

MSVOA_D

ClientSampled :

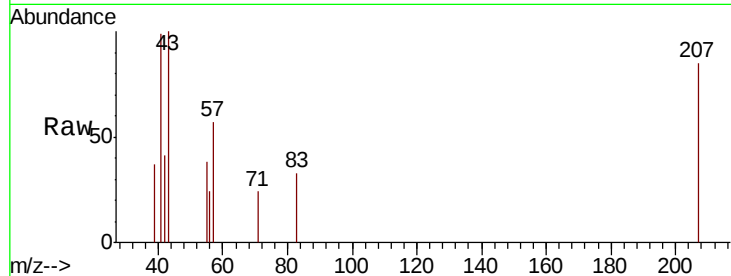
UST-ERE

Tot Ion: 43 Resp: 2905

Ion Ratio Lower Upper

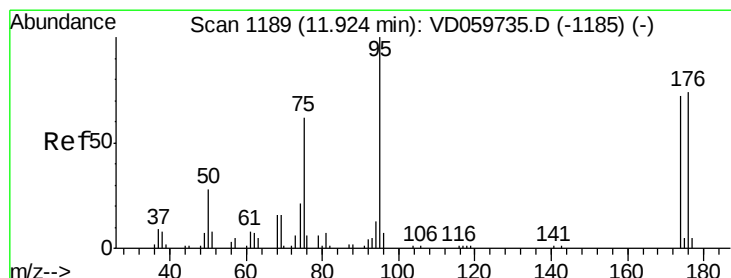
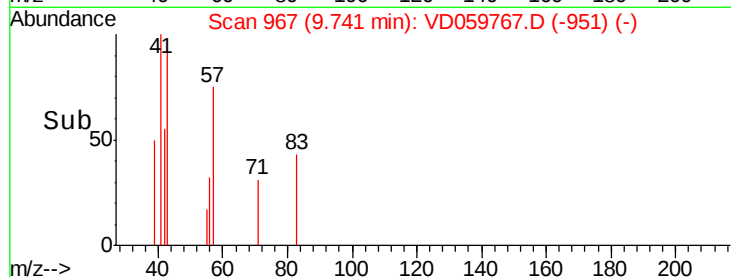
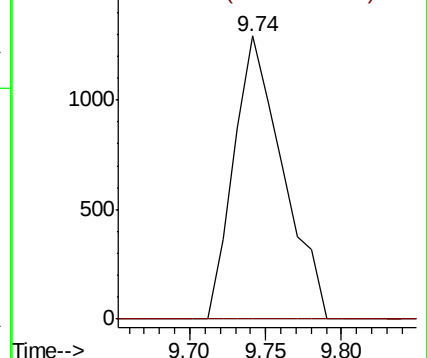
43 100

58 0.0 19.8 59.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD059767.D

Acq: 14 Aug 2018 15:24

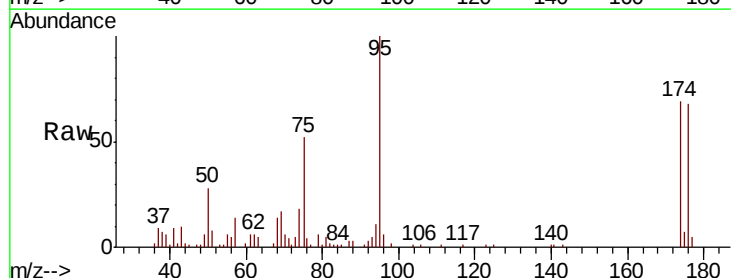
Tgt Ion: 95 Resp: 85614

Ion Ratio Lower Upper

95 100

174 69.0 0.0 143.2

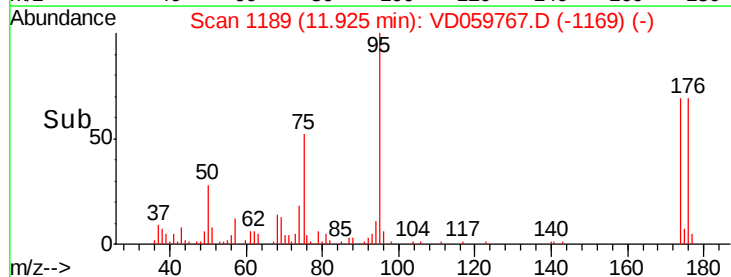
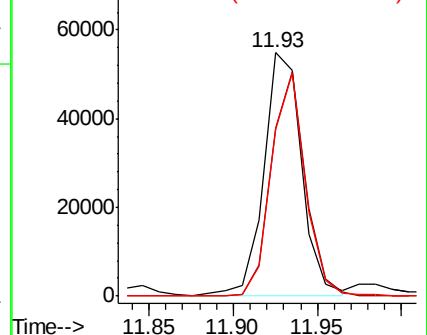
176 68.3 0.0 147.2

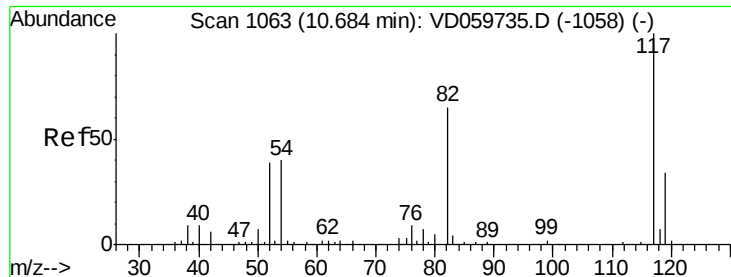


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

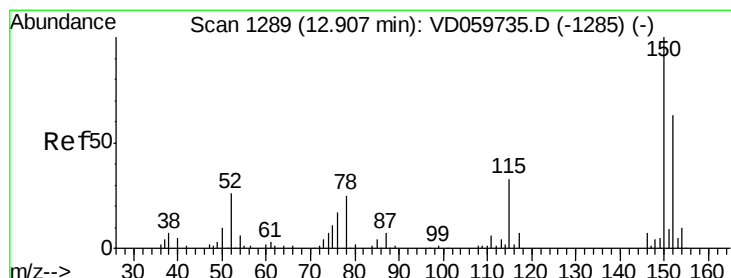
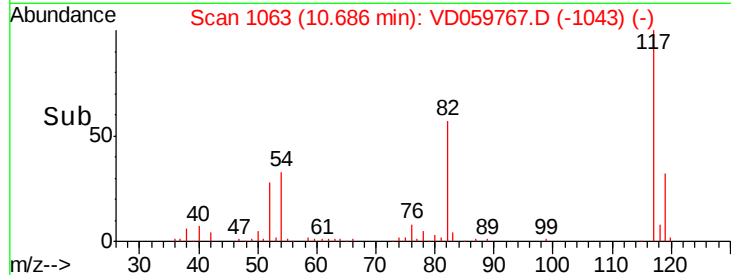
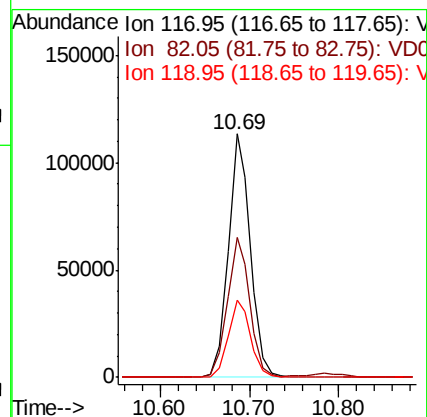
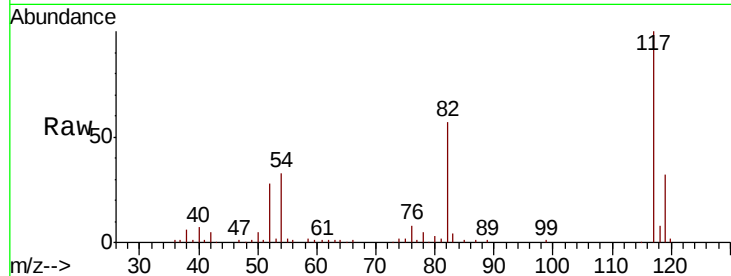




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. 0.00 min
Lab File: VD059767.D
Acq: 14 Aug 2018 15:24

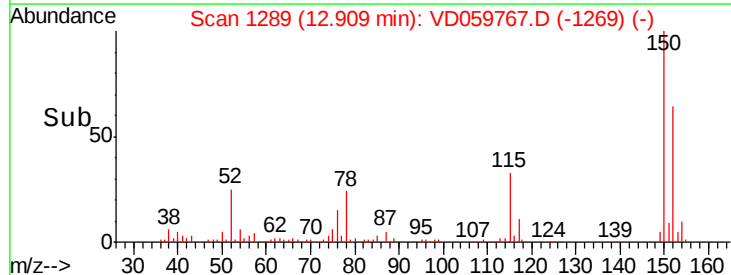
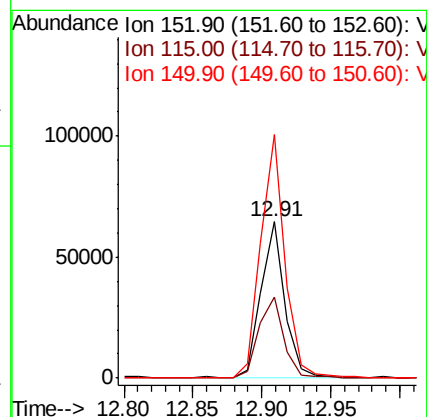
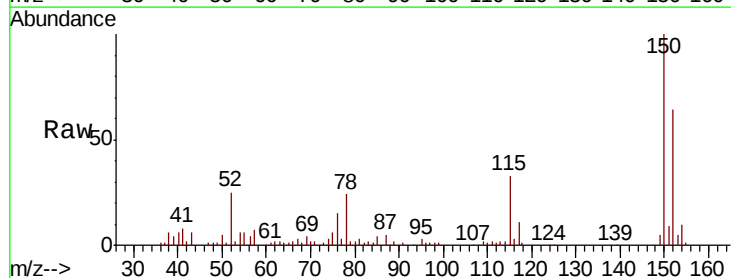
Instrument :
MSVOA_D
ClientSampleId :
UST-ERE

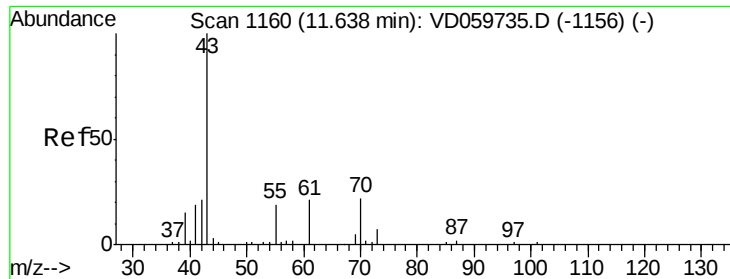
Tot Ion:117 Resp: 197595
Ion Ratio Lower Upper
117 100
82 57.3 51.9 77.9
119 32.0 27.4 41.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.91 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VD059767.D
Acq: 14 Aug 2018 15:24

Tgt Ion:152 Resp: 78466
Ion Ratio Lower Upper
152 100
115 52.1 29.8 89.3
150 156.0 0.0 320.4





#74

N-amvl acetate

Concen: 8.53 ug/l

RT: 11.59 min Scan# 1155

Delta R.T. -0.05 min

Lab File: VD059767.D

Acq: 14 Aug 2018 15:24

Instrument :

MSVOA_D

ClientSampleId :

UST-ERE

Tot Ion: 43 Resp: 13034

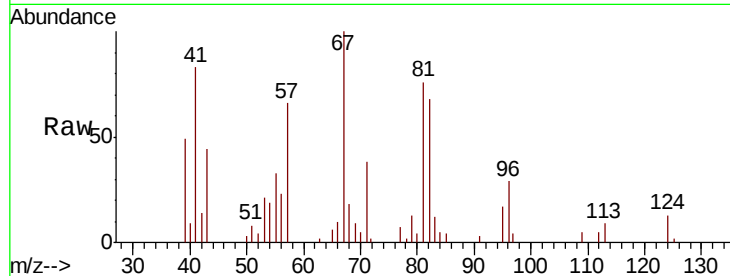
Ion Ratio Lower Upper

43 100

70 12.3 18.0 27.0#

55 76.2 14.8 22.2#

61 0.0 17.1 25.7#

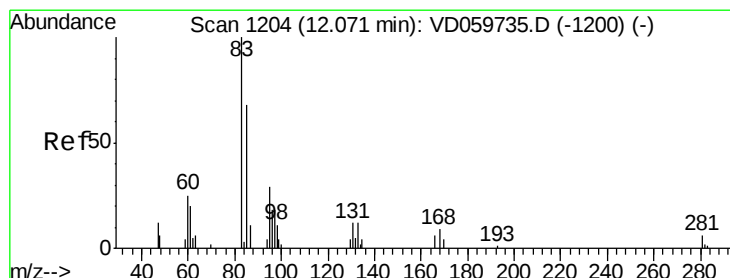
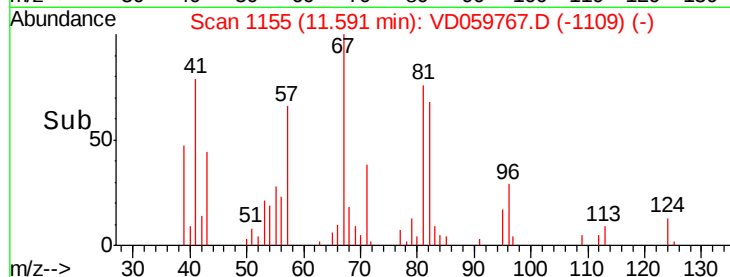
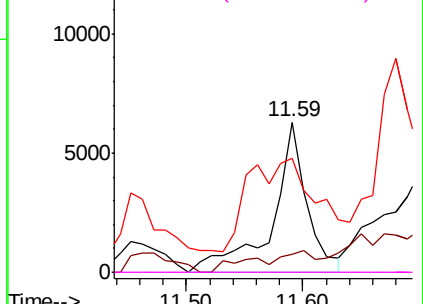


Abundance Ion 42.95 (42.65 to 43.65): VDC

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



#75

1,1,2,2-Tetrachloroethane

Concen: 11.45 ug/l

RT: 12.08 min Scan# 1205

Delta R.T. 0.01 min

Lab File: VD059767.D

Acq: 14 Aug 2018 15:24

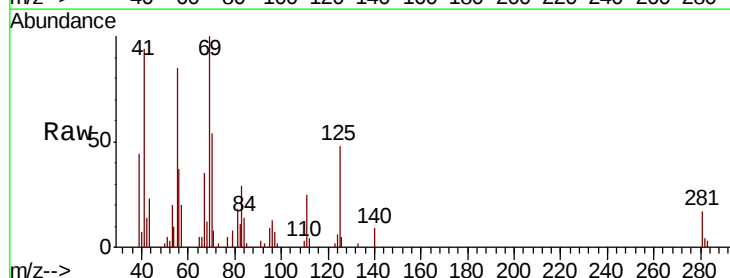
Tgt Ion: 83 Resp: 11141

Ion Ratio Lower Upper

83 100

131 0.0 6.3 19.1#

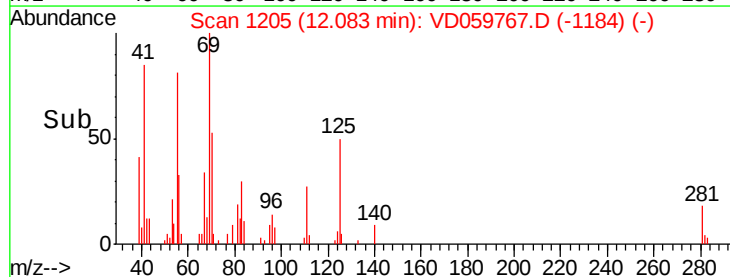
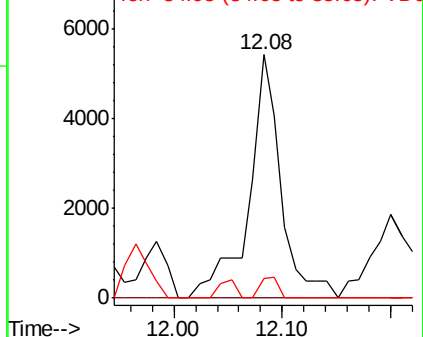
85 8.2 34.2 102.5#

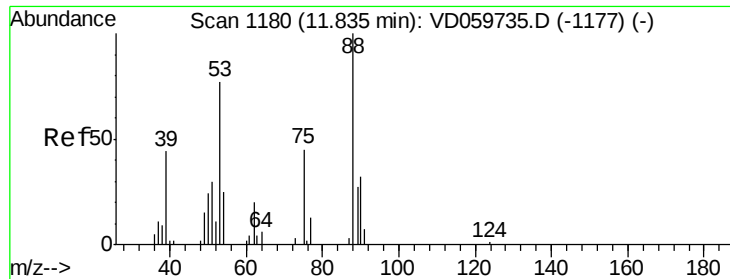


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): VDC

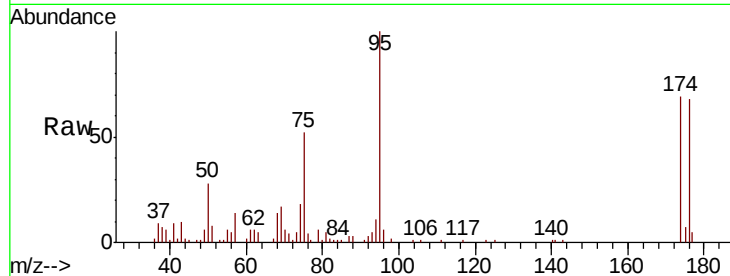




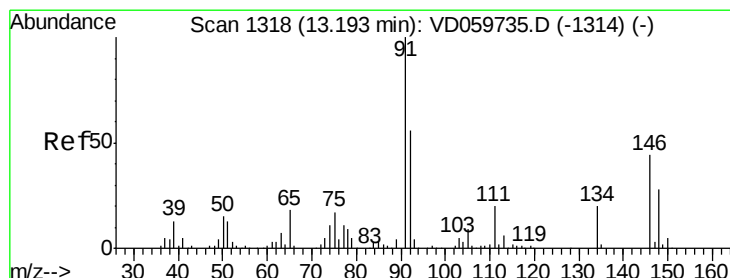
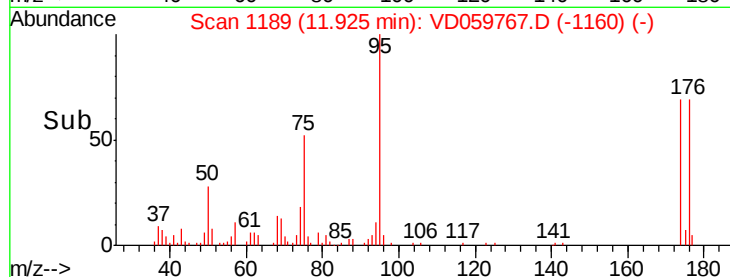
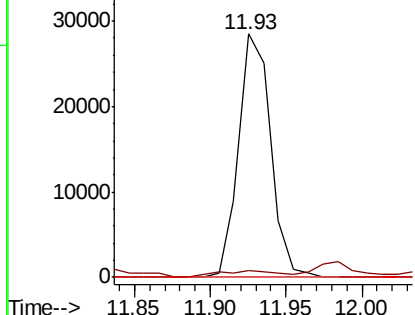
#81
trans-1,4-Dichloro-2-butene
Concen: 160.45 ug/l
RT: 11.93 min Scan# 1189
Delta R.T. 0.09 min
Lab File: VD059767.D
Acq: 14 Aug 2018 15:24

Instrument :
MSVOA_D
ClientSampleId :
UST-ERE

Tot Ion: 75 Resp: 41948
Ion Ratio Lower Upper
75 100
53 2.8 137.5 206.3#
89 0.0 48.3 72.5#

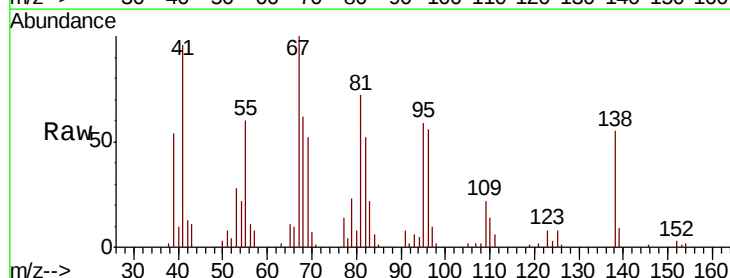


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

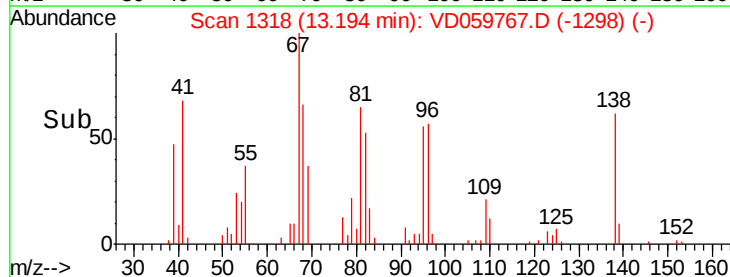
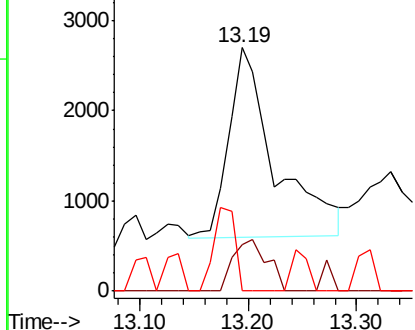


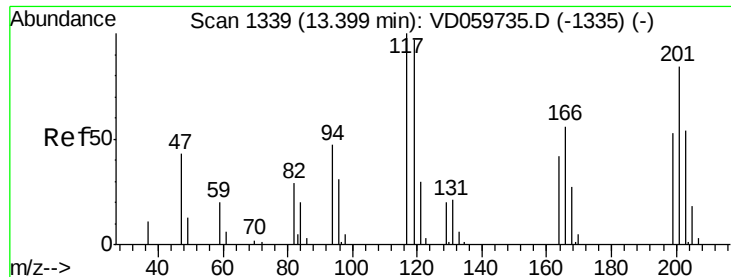
#89
n-Butylbenzene
Concen: 1.31 ug/l
RT: 13.19 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VD059767.D
Acq: 14 Aug 2018 15:24

Tgt Ion: 91 Resp: 6210
Ion Ratio Lower Upper
91 100
92 19.1 28.1 84.4#
134 0.0 10.3 30.8#



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





#90

Hexachloroethane

Concen: 1.65 ug/l

RT: 13.49 min Scan# 1348

Delta R.T. 0.09 min

Lab File: VD059767.D

Acq: 14 Aug 2018 15:24

Instrument :

MSVOA_D

ClientSampleId :

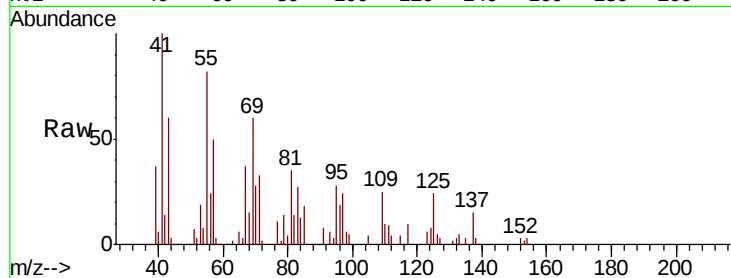
UST-ERE

Tot Ion:117 Resp: 2057

Ion Ratio Lower Upper

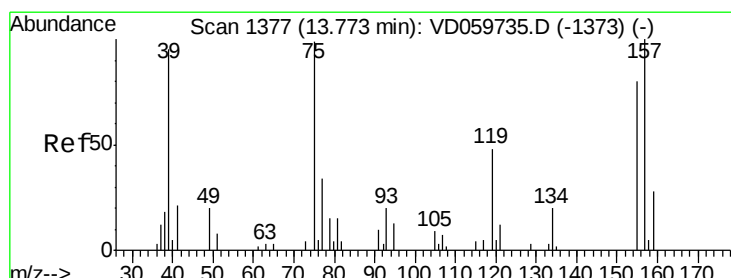
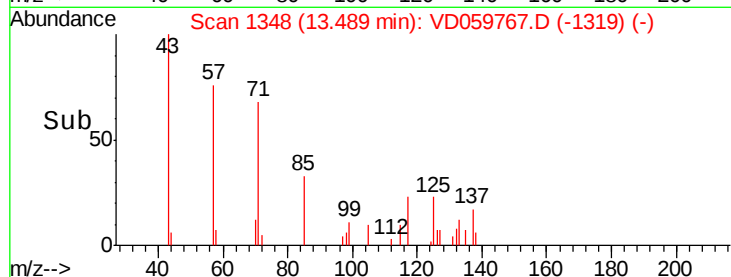
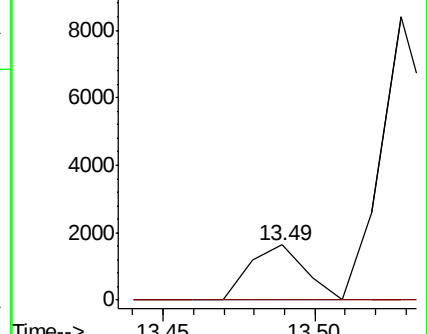
117 100

201 0.0 41.9 125.7#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.75 ug/l

RT: 13.83 min Scan# 1383

Delta R.T. 0.06 min

Lab File: VD059767.D

Acq: 14 Aug 2018 15:24

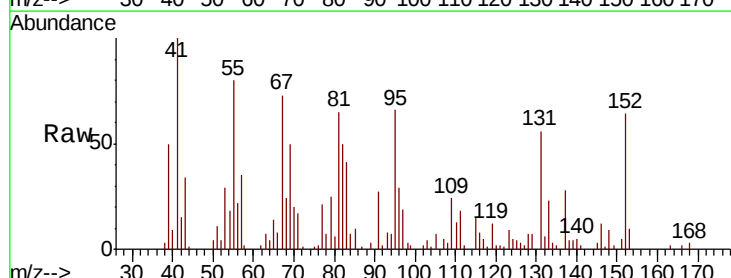
Tgt Ion: 75 Resp: 424

Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.1#

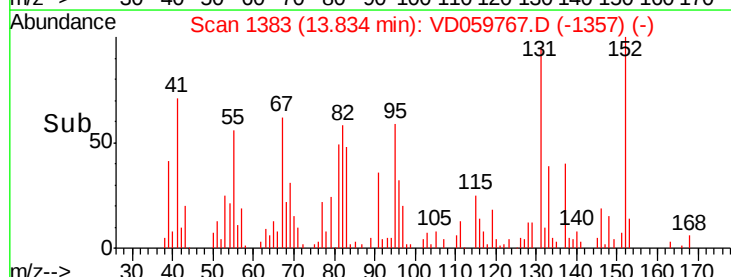
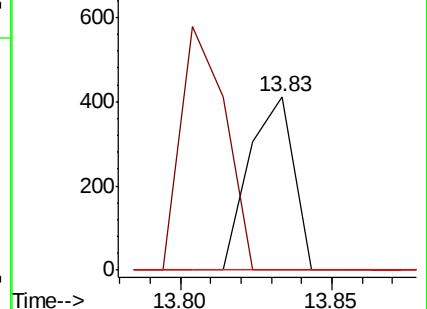
157 0.0 50.5 151.6#

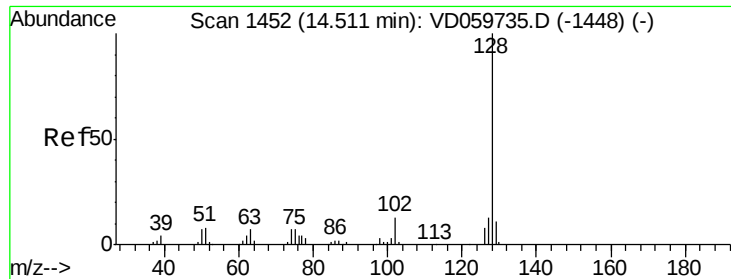


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V





#95

Naphthalene

Concen: 2.35 ug/l

RT: 14.51 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VD059767.D

Acq: 14 Aug 2018 15:24

Instrument :

MSVOA_D

ClientSampleId :

UST-ERE

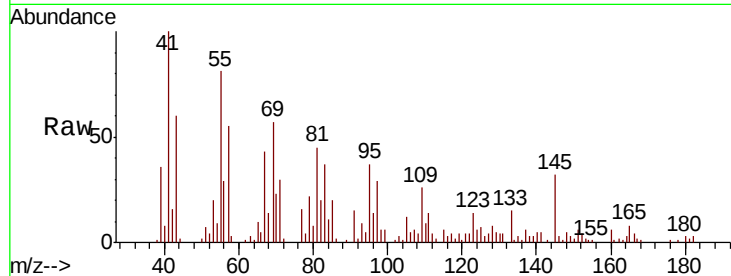
Tot Ion:128 Resp: 6714

Ion Ratio Lower Upper

128 100

127 46.0 10.4 15.6#

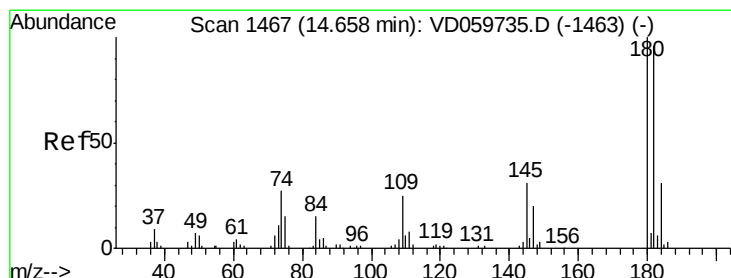
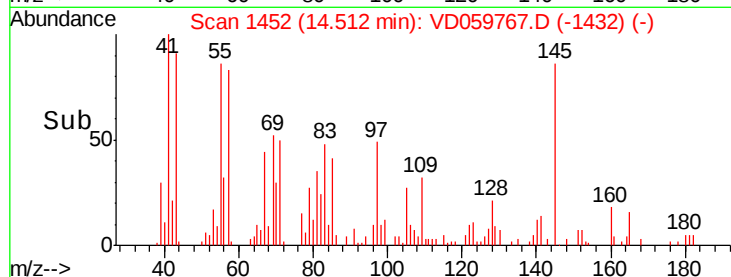
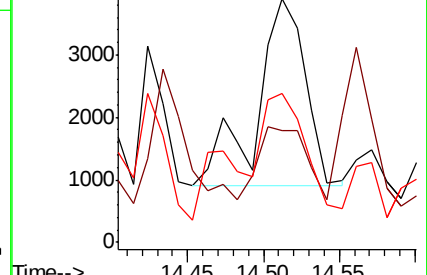
129 61.0 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.71 ug/l

RT: 14.65 min Scan# 1466

Delta R.T. -0.01 min

Lab File: VD059767.D

Acq: 14 Aug 2018 15:24

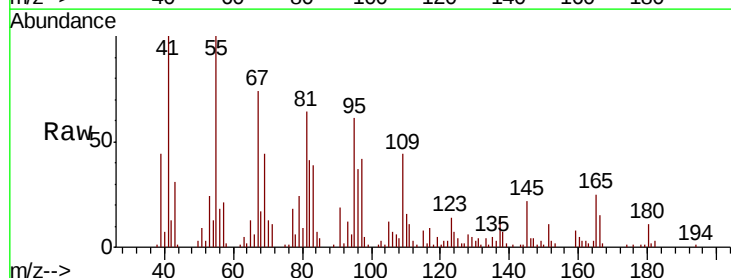
Tgt Ion:180 Resp: 6739

Ion Ratio Lower Upper

180 100

182 23.7 48.1 144.4#

145 210.7 15.4 46.4#



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

