

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD121619\
 Data File : VD064532.D
 Acq On : 16 Dec 2019 19:24
 Operator : VA/SY
 Sample : K6299-09
 Misc : 5.25G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SHORE-RD-BH-04

Quant Time: Dec 17 01:57:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

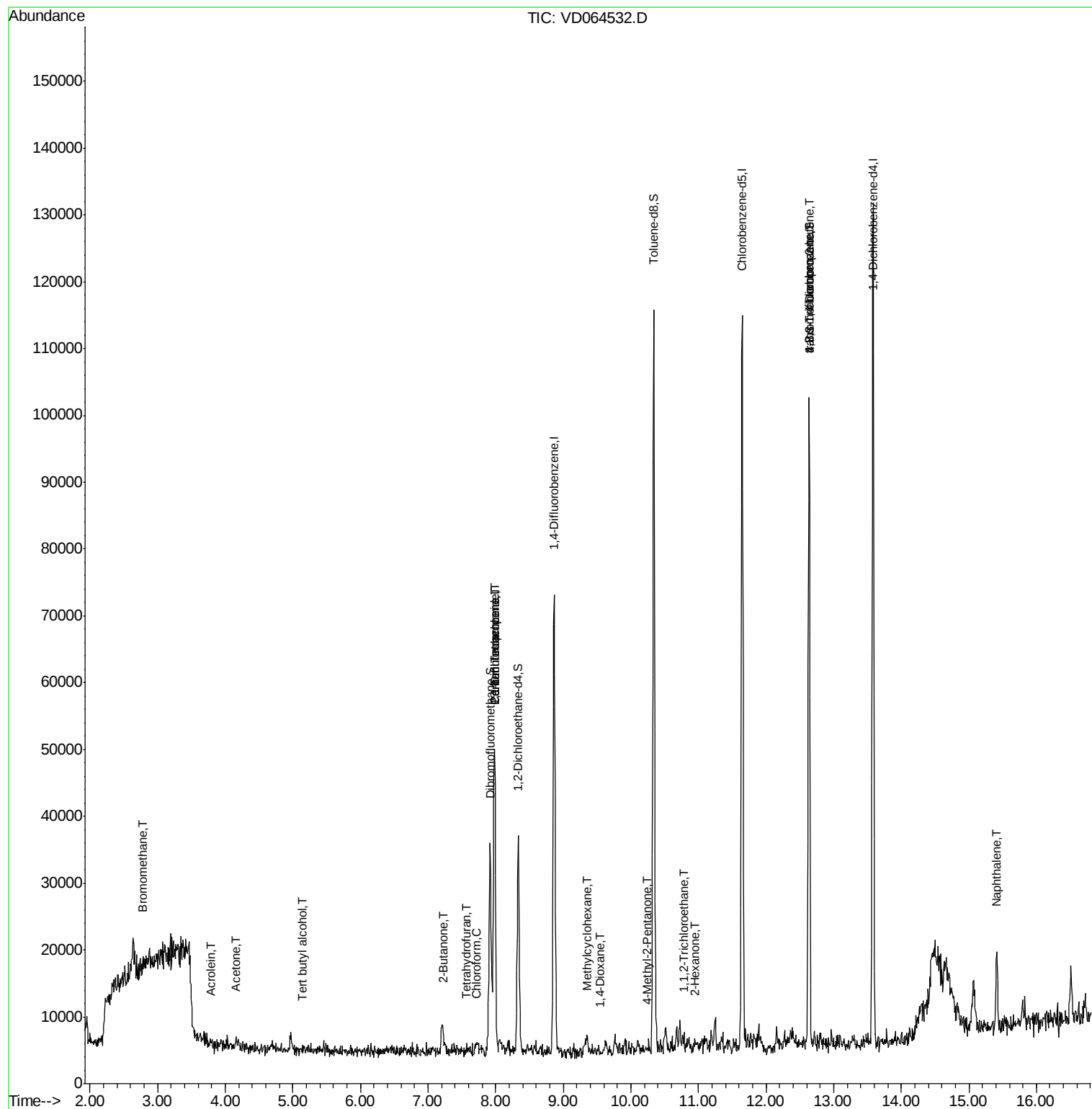
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	36070	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	57314	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	62846	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	33723	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	22744	69.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	139.32%	
35) Dibromofluoromethane	7.92	113	19896	55.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.20%	
50) Toluene-d8	10.34	98	70376	51.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.48%	
62) 4-Bromofluorobenzene	12.64	95	27938	63.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	127.82%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.78	94	352	1.000	ug/l	89
11) Tert butyl alcohol	5.14	59	58	2.791	ug/l #	100
13) Acrolein	3.79	56	120	4.233	ug/l #	14
16) Acetone	4.17	43	2616	39.651	ug/l #	47
20) Methylene Chloride	4.96	84	1089	Below Cal	#	55
25) 2-Butanone	7.23	43	305	3.269	ug/l #	49
29) Tetrahydrofuran	7.56	42	66	1.112	ug/l #	34
30) Chloroform	7.71	83	1247	1.999	ug/l #	82
31) Cyclohexane	7.98	56	874	Below Cal	#	1
36) 1,1-Dichloropropene	7.98	75	2980	5.497	ug/l #	40
38) Carbon Tetrachloride	7.98	117	3371	5.892	ug/l #	11
39) Methylcyclohexane	9.36	83	780	1.160	ug/l #	86
49) 1,4-Dioxane	9.55	88	60	23.908	ug/l #	25
51) 4-Methyl-2-Pentanone	10.24	43	431	1.926	ug/l #	83
55) 1,1,2-Trichloroethane	10.78	97	1202	4.319	ug/l #	15
59) 2-Hexanone	10.96	43	736	4.740	ug/l #	26
76) 1,2,3-Trichloropropane	12.64	75	14947	53.897	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	14947	117.523	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.54	75	207	Below Cal	#	1
95) Naphthalene	15.41	128	9309	7.497	ug/l #	91

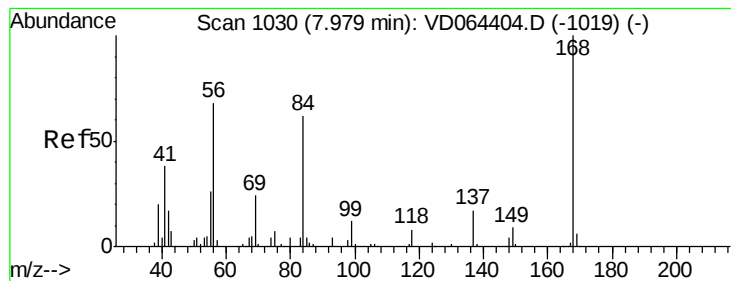
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD064532.D

Acq: 16 Dec 2019 19:24

Instrument :

MSVOA_D

ClientSampleId :

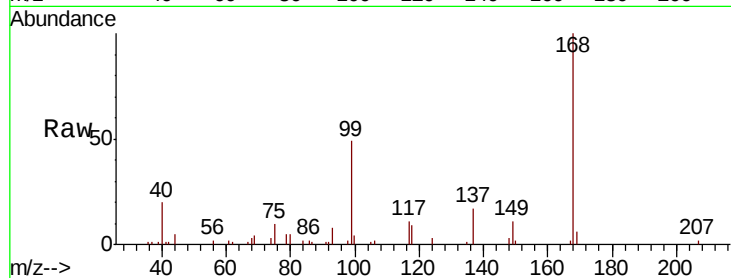
SHORE-RD-BH-04

Tgt Ion:168 Resp: 36070

Ion Ratio Lower Upper

168 100

99 49.1 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

15000

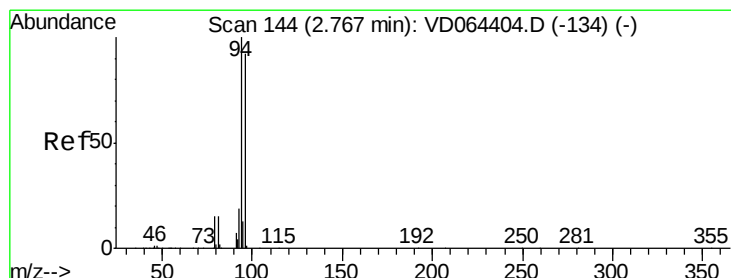
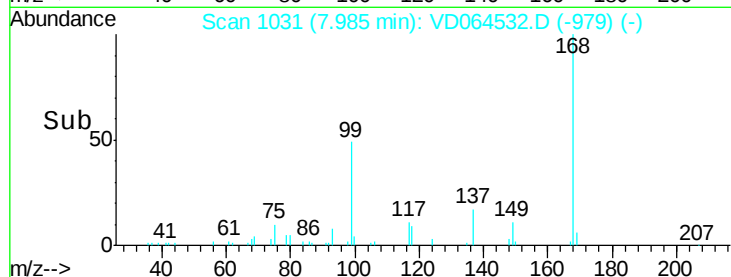
10000

5000

0

7.90 7.95 8.00 8.05 8.10

Time-->



#5

Bromomethane

Concen: 1.000 ug/l

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD064532.D

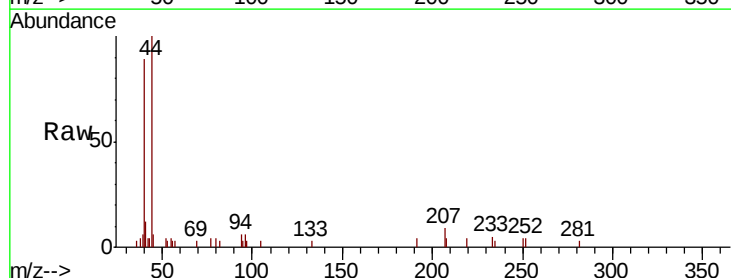
Acq: 16 Dec 2019 19:24

Tgt Ion: 94 Resp: 352

Ion Ratio Lower Upper

94 100

96 102.5 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.78

400

300

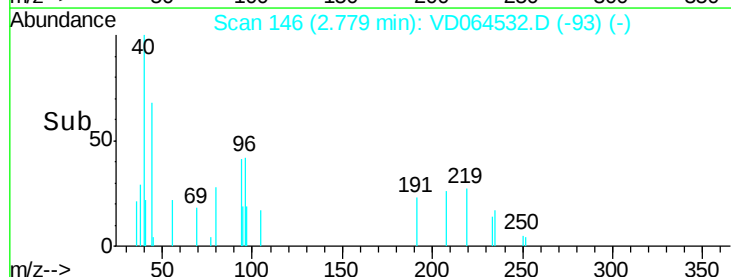
200

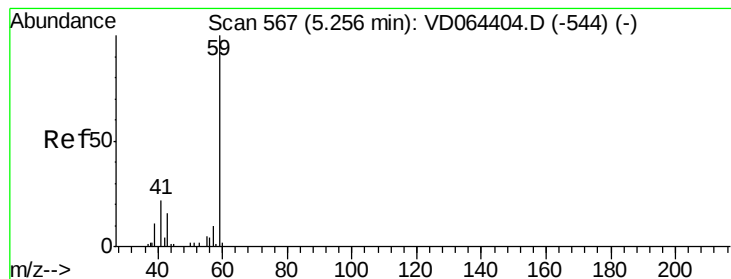
100

0

2.76 2.78 2.80 2.82

Time-->





#11

Tert butyl alcohol

Concen: 2.791 ug/l

RT: 5.14 min Scan# 548

Delta R.T. -0.11 min

Lab File: VD064532.D

Acq: 16 Dec 2019 19:24

Instrument :

MSVOA_D

ClientSampleId :

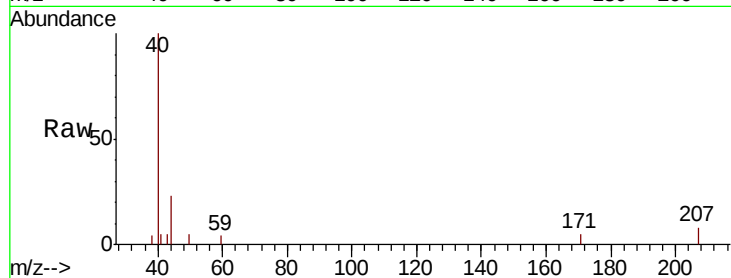
SHORE-RD-BH-04

Tgt Ion: 59 Resp: 58

Ion Ratio Lower Upper

59 100

57 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.14

150

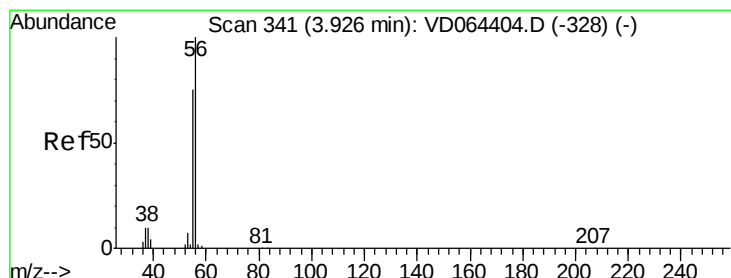
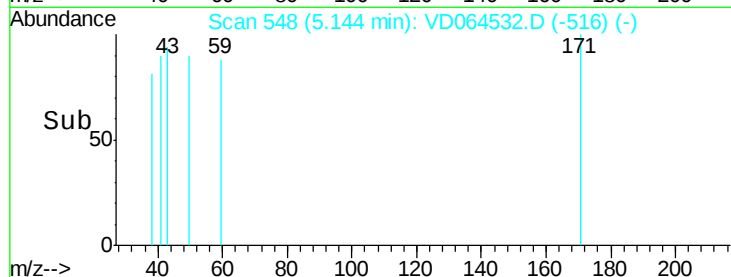
100

50

0

5.13 5.14 5.15 5.16

Time-->



#13

Acrolein

Concen: 4.233 ug/l

RT: 3.79 min Scan# 318

Delta R.T. -0.14 min

Lab File: VD064532.D

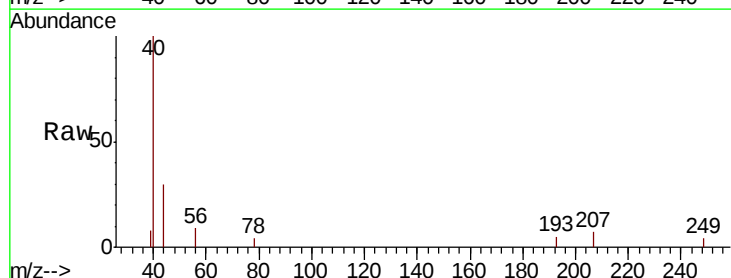
Acq: 16 Dec 2019 19:24

Tgt Ion: 56 Resp: 120

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.79

400

300

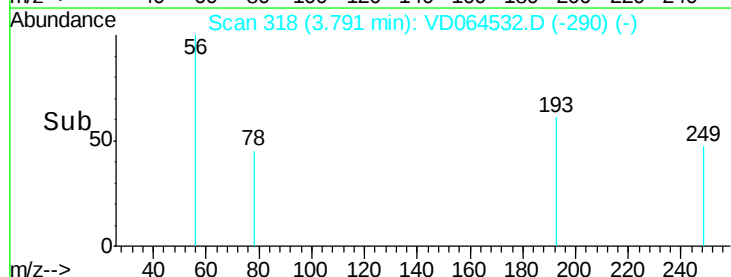
200

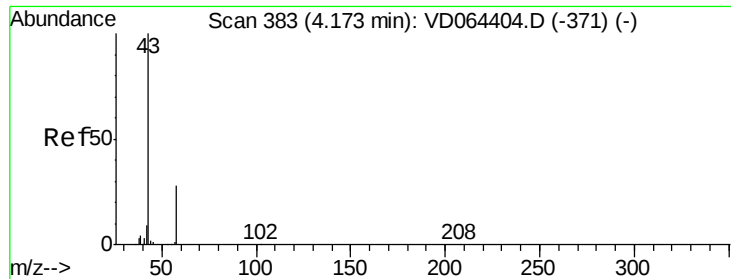
100

0

3.77 3.78 3.79 3.80 3.81

Time-->





#16

Acetone

Concen: 39.651 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064532.D

Acq: 16 Dec 2019 19:24

Instrument :

MSVOA_D

ClientSampleId :

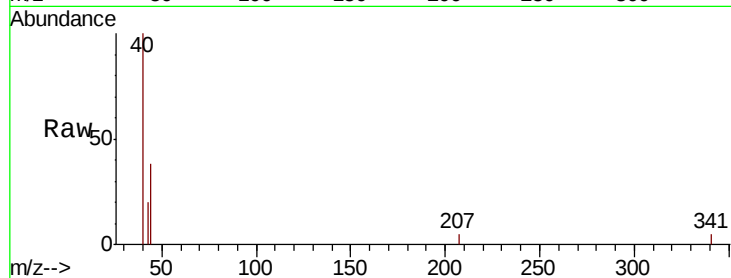
SHORE-RD-BH-04

Tgt Ion: 43 Resp: 2616

Ion Ratio Lower Upper

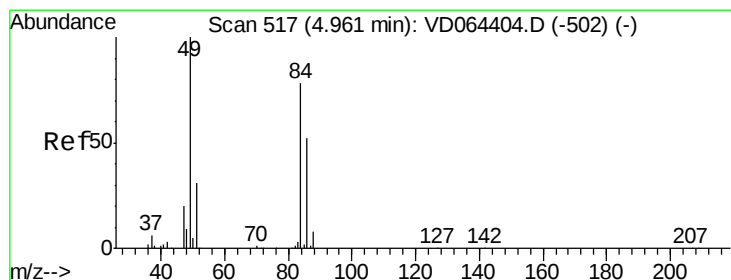
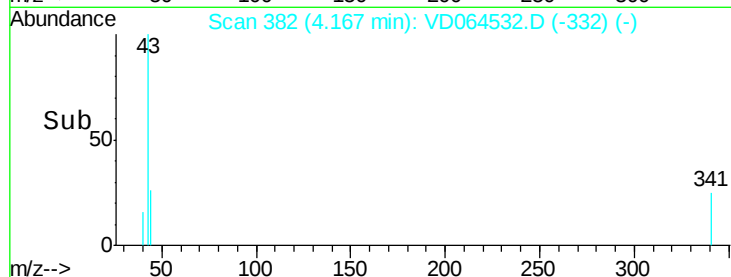
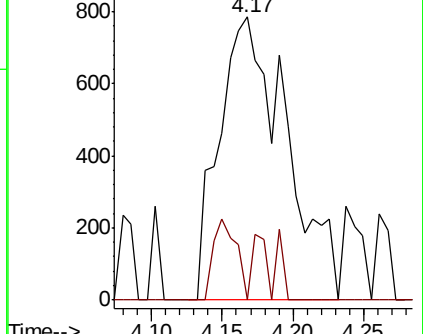
43 100

58 0.0 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD064532.D

Acq: 16 Dec 2019 19:24

Tgt Ion: 84 Resp: 1089

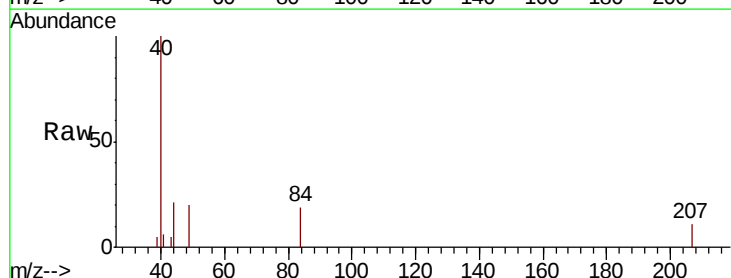
Ion Ratio Lower Upper

84 100

49 105.6 102.6 153.8

51 0.0 32.0 48.0#

86 0.0 53.4 80.0#

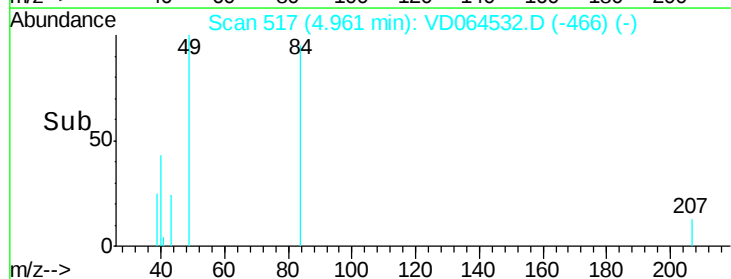
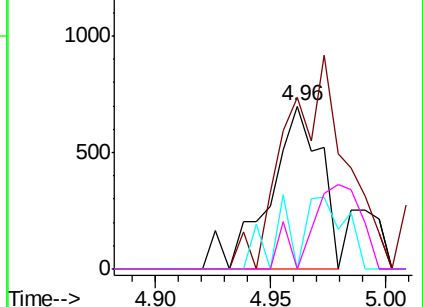


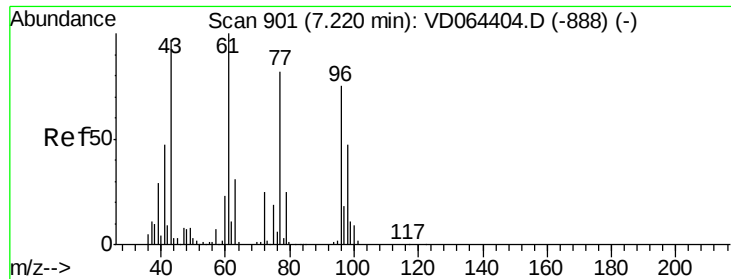
Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 3.269 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD064532.D

Acq: 16 Dec 2019 19:24

Instrument :

MSVOA_D

ClientSampleId :

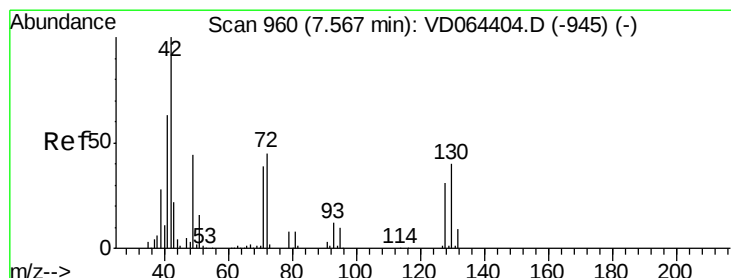
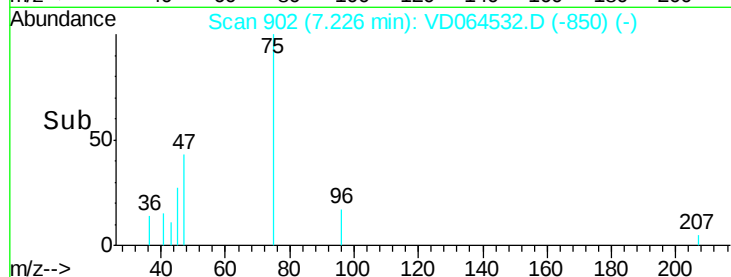
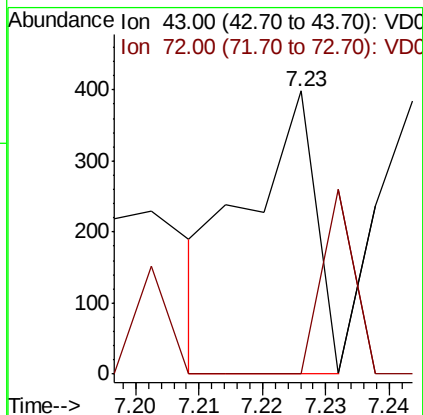
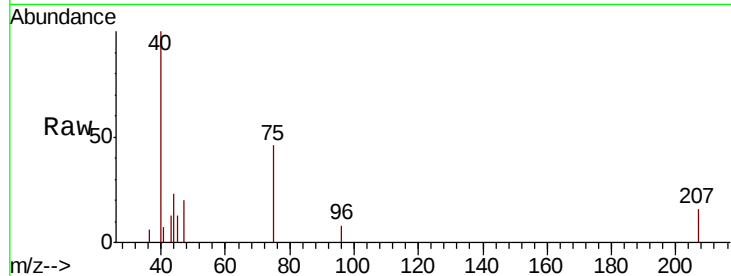
SHORE-RD-BH-04

Tgt Ion: 43 Resp: 305

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.4#



#29

Tetrahydrofuran

Concen: 1.112 ug/l

RT: 7.56 min Scan# 959

Delta R.T. -0.01 min

Lab File: VD064532.D

Acq: 16 Dec 2019 19:24

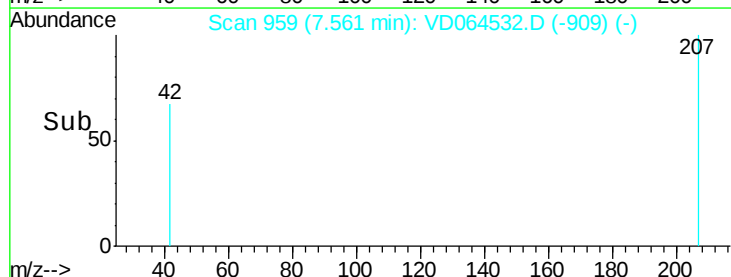
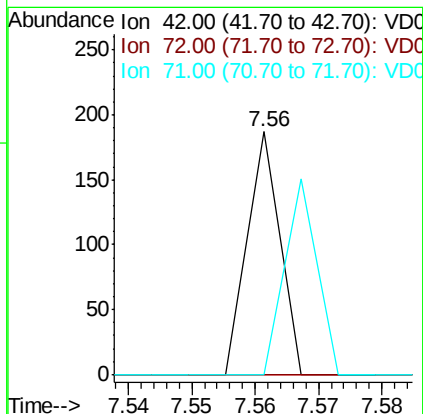
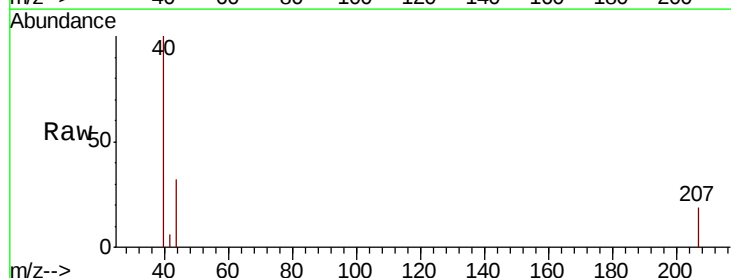
Tgt Ion: 42 Resp: 66

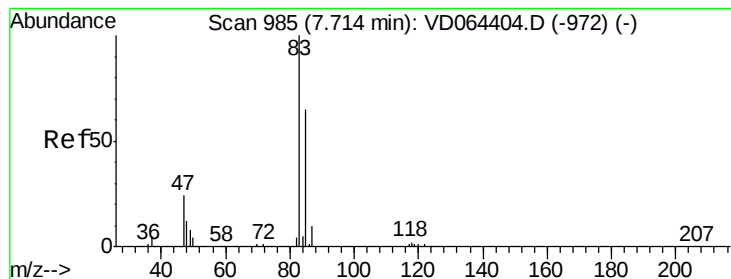
Ion Ratio Lower Upper

42 100

72 0.0 35.8 53.8#

71 80.3 32.7 49.1#





#30

Chloroform

Concen: 1.999 ug/l

RT: 7.71 min Scan# 984

Delta R.T. -0.01 min

Lab File: VD064532.D

Acq: 16 Dec 2019 19:24

Instrument :

MSVOA_D

ClientSampleId :

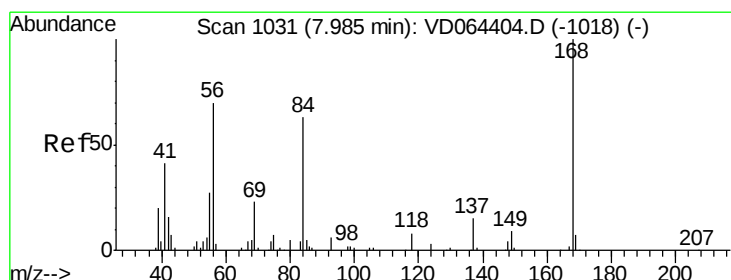
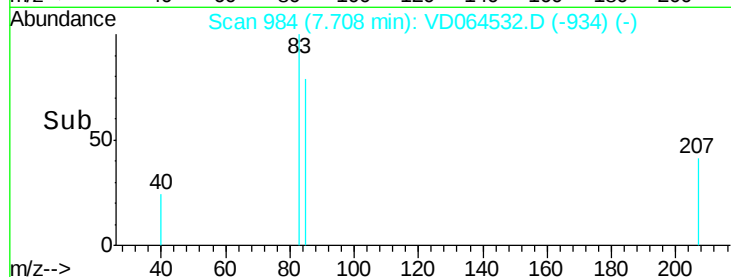
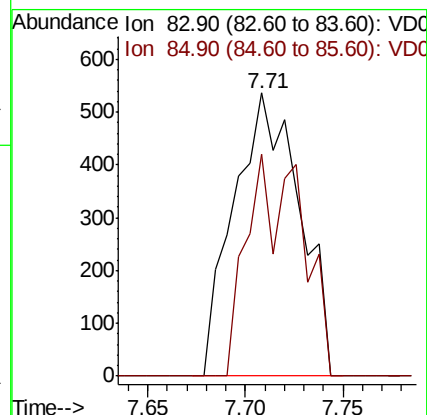
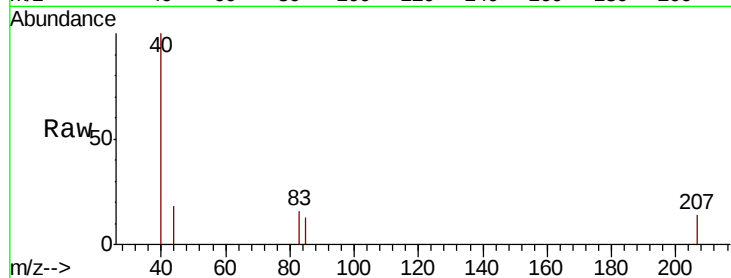
SHORE-RD-BH-04

Tgt Ion: 83 Resp: 1247

Ion Ratio Lower Upper

83 100

85 78.5 51.8 77.6#



#31

Cyclohexane

Concen: Below Cal

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064532.D

Acq: 16 Dec 2019 19:24

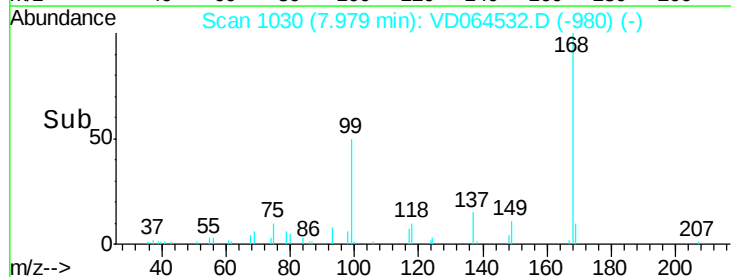
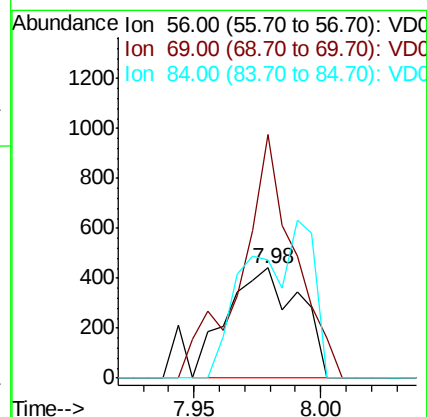
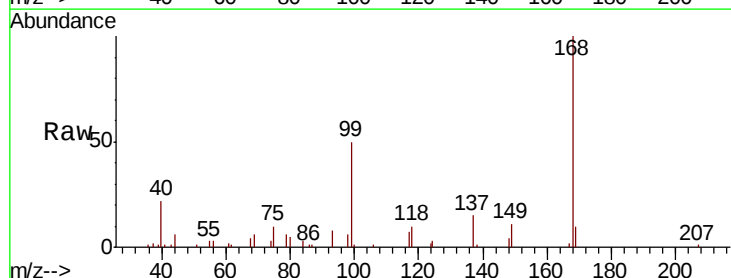
Tgt Ion: 56 Resp: 874

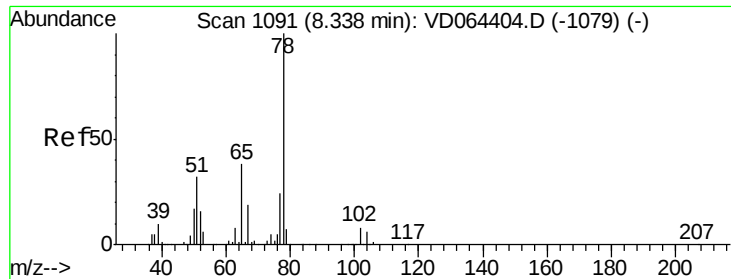
Ion Ratio Lower Upper

56 100

69 221.3 26.2 39.4#

84 107.5 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 69.663 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD064532.D

Acq: 16 Dec 2019 19:24

Instrument :

MSVOA_D

ClientSampleId :

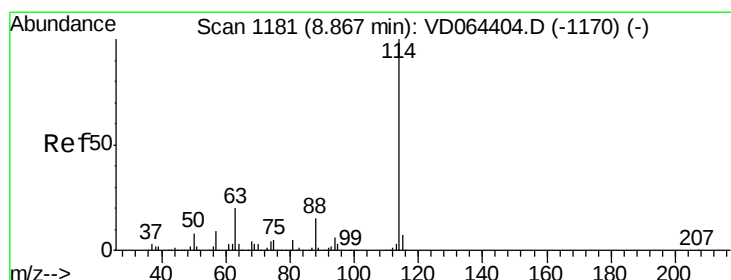
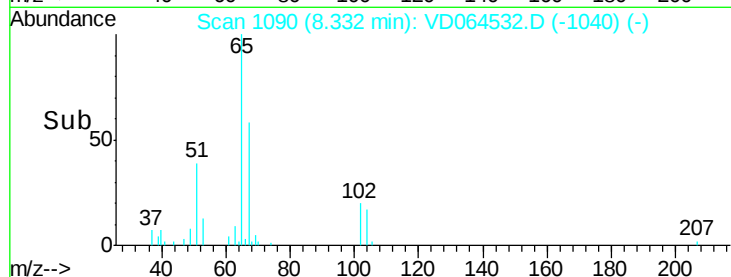
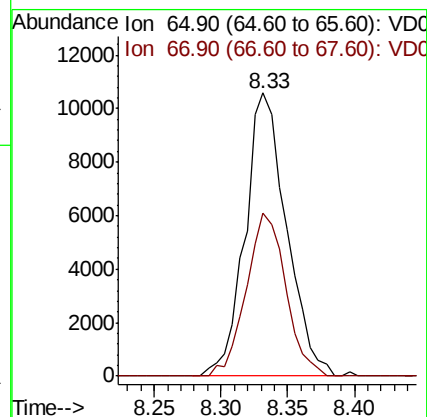
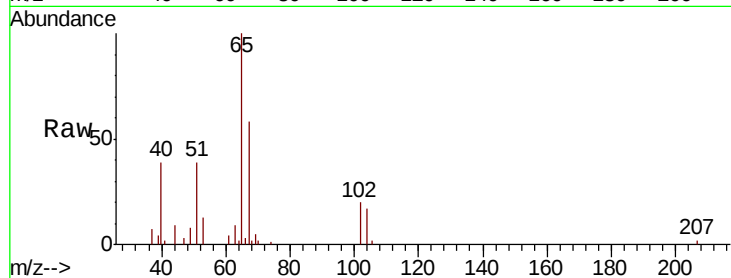
SHORE-RD-BH-04

Tgt Ion: 65 Resp: 22744

Ion Ratio Lower Upper

65 100

67 54.7 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD064532.D

Acq: 16 Dec 2019 19:24

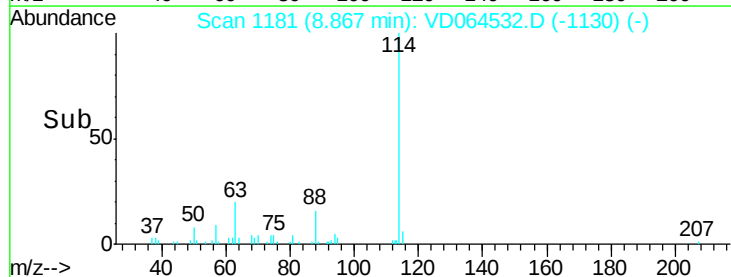
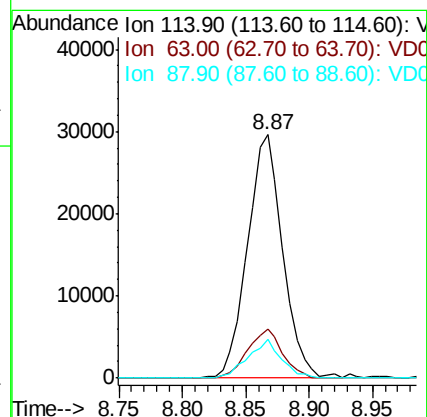
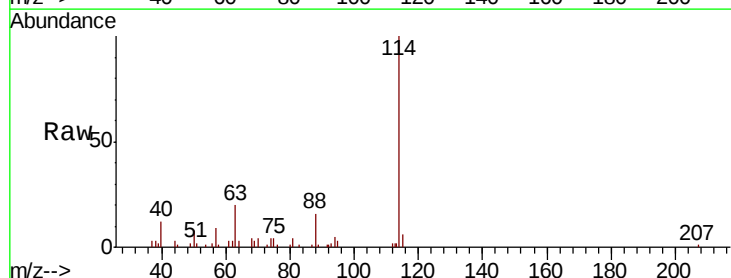
Tgt Ion: 114 Resp: 57314

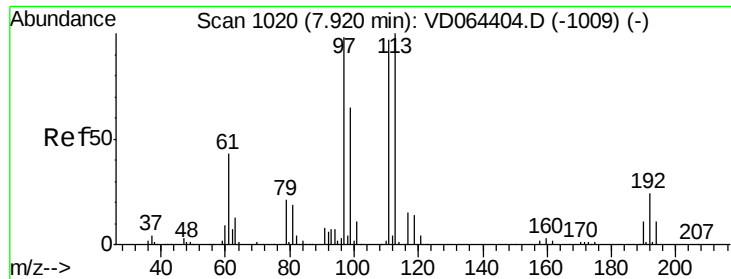
Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.0

88 15.8 0.0 29.2

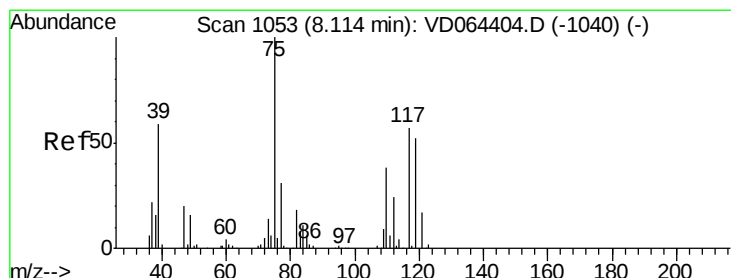
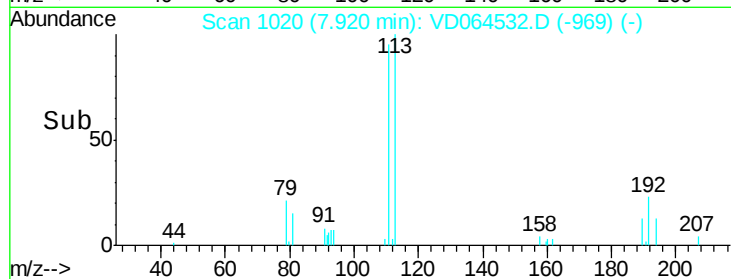
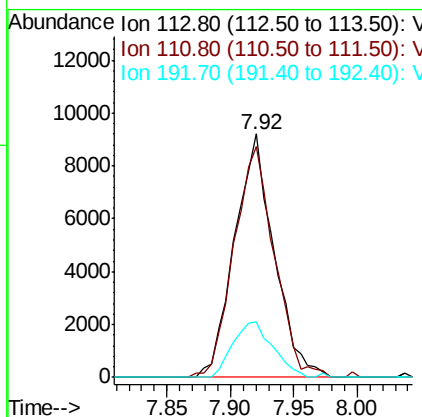
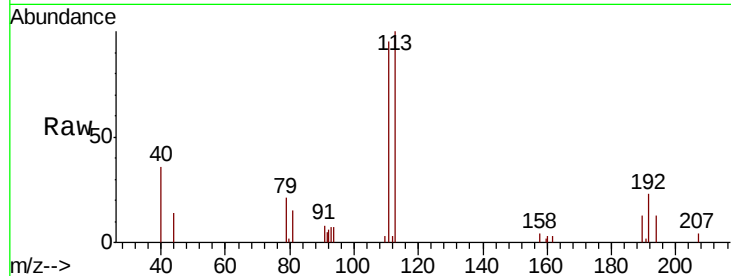




#35
 Dibromofluoromethane
 Concen: 55.097 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064532.D
 Acq: 16 Dec 2019 19:24

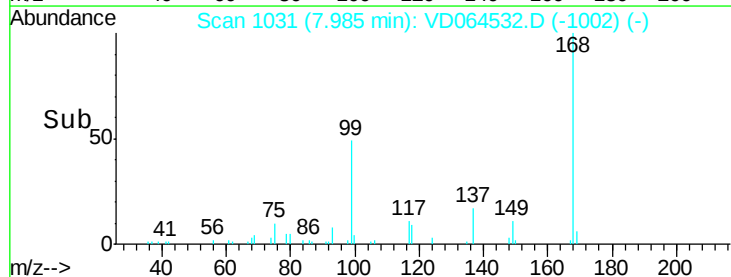
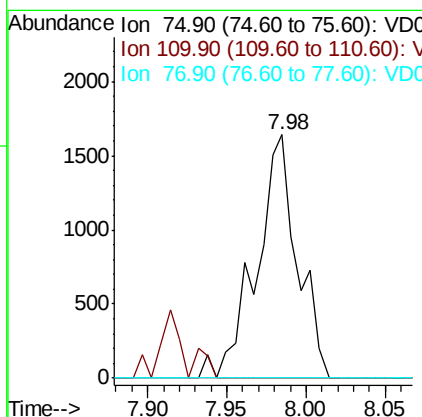
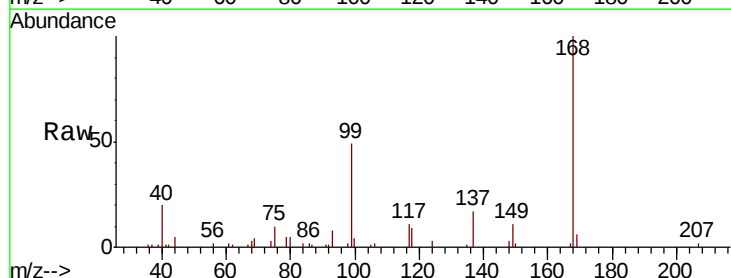
Instrument :
 MSVOA_D
 ClientSampleId :
 SHORE-RD-BH-04

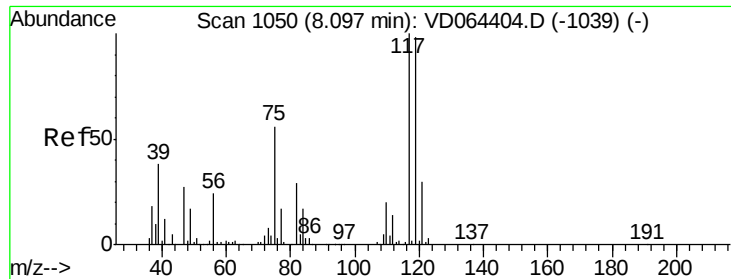
Tgt Ion: 113 Resp: 19896
 Ion Ratio Lower Upper
 113 100
 111 97.2 79.4 119.2
 192 23.1 18.6 28.0



#36
 1,1-Dichloropropene
 Concen: 5.497 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064532.D
 Acq: 16 Dec 2019 19:24

Tgt Ion: 75 Resp: 2980
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.6 55.8#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.892 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD064532.D

Acq: 16 Dec 2019 19:24

Instrument :

MSVOA_D

ClientSampleId :

SHORE-RD-BH-04

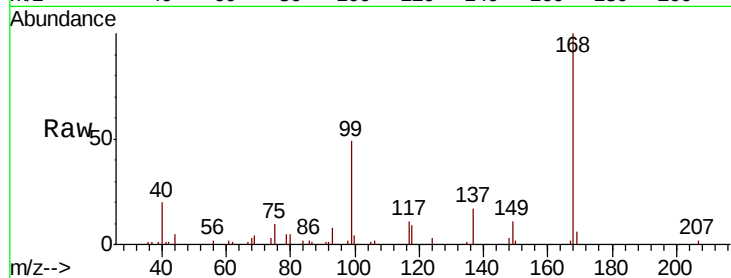
Tgt Ion: 117 Resp: 3371

Ion Ratio Lower Upper

117 100

119 0.0 78.8 118.2#

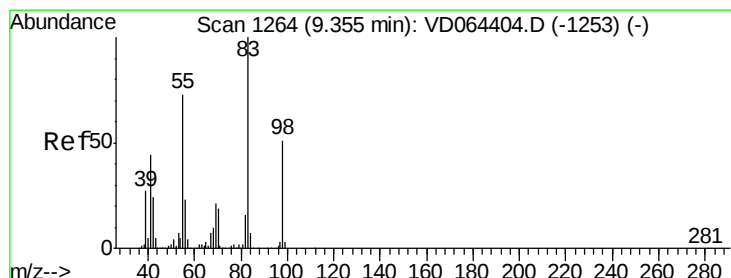
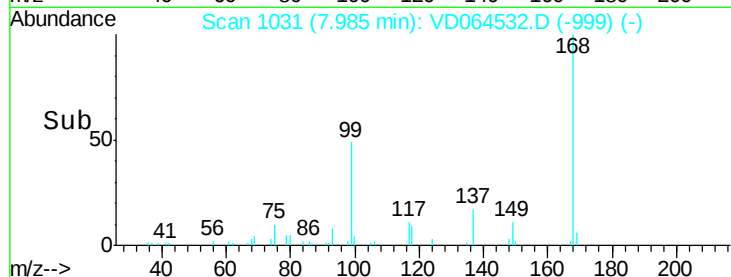
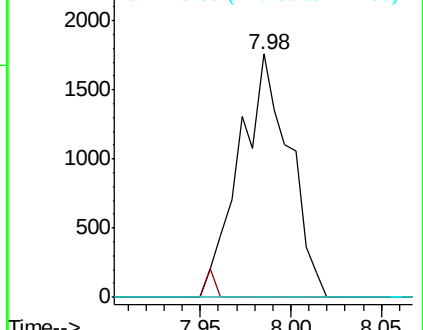
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 1.160 ug/l

RT: 9.36 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VD064532.D

Acq: 16 Dec 2019 19:24

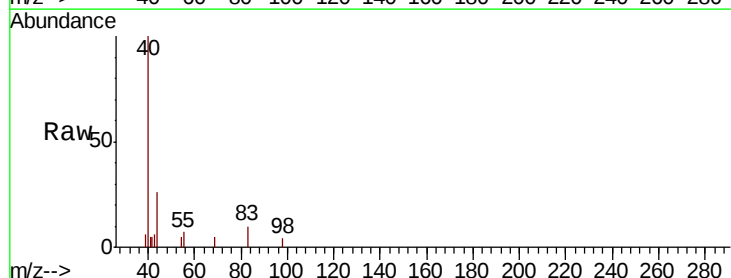
Tgt Ion: 83 Resp: 780

Ion Ratio Lower Upper

83 100

55 63.3 58.6 87.8

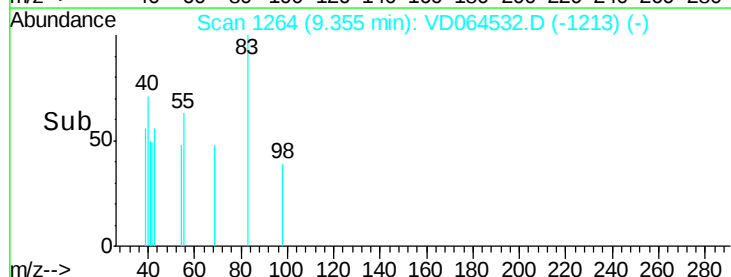
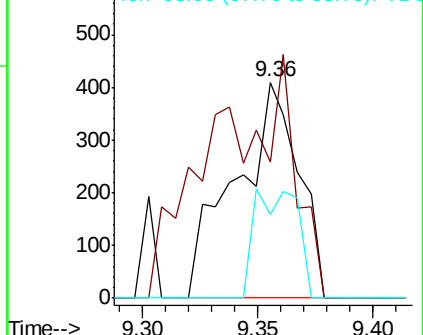
98 38.9 40.9 61.3#

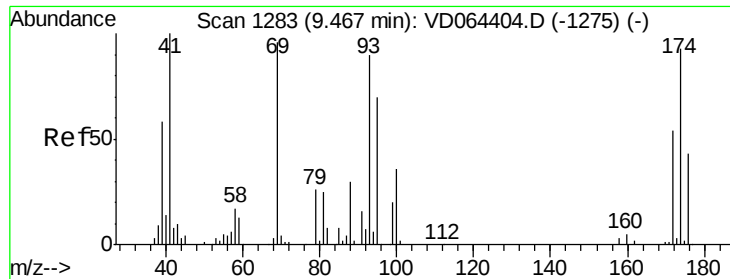


Abundance Ion 83.00 (82.70 to 83.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.00 (97.70 to 98.70): VDC

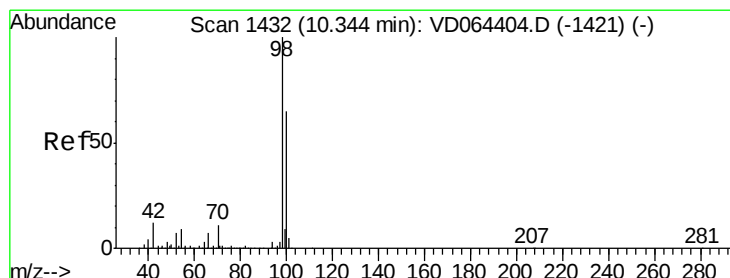
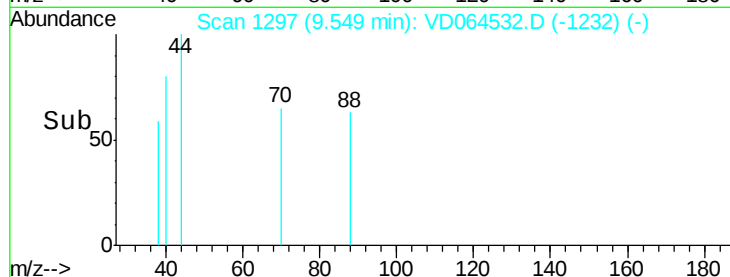
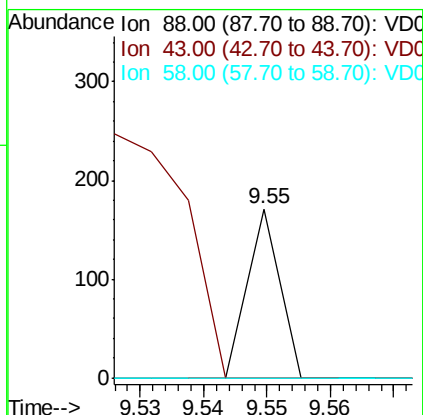
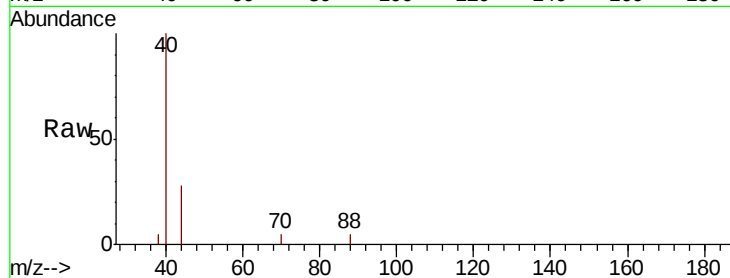




#49
1,4-Dioxane
Concen: 23.908 ug/l
RT: 9.55 min Scan# 1297
Delta R.T. 0.08 min
Lab File: VD064532.D
Acq: 16 Dec 2019 19:24

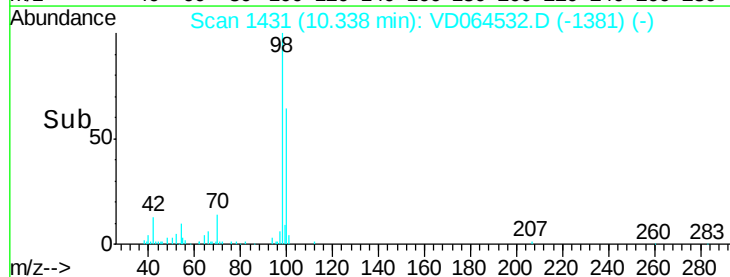
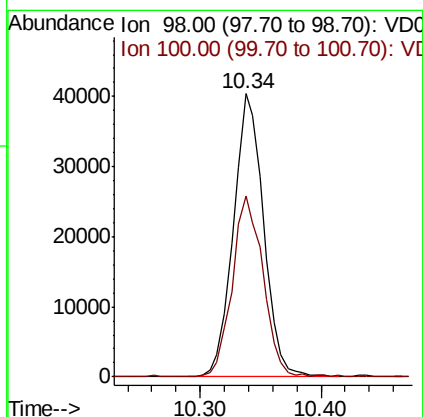
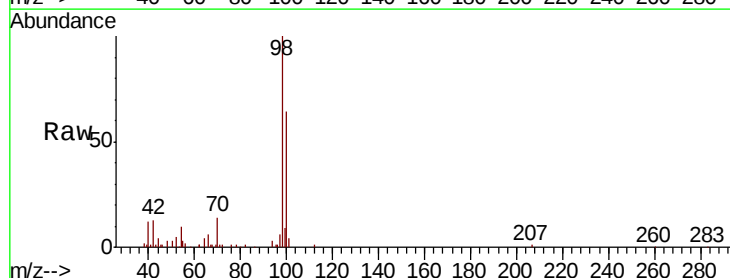
Instrument :
MSVOA_D
ClientSampleId :
SHORE-RD-BH-04

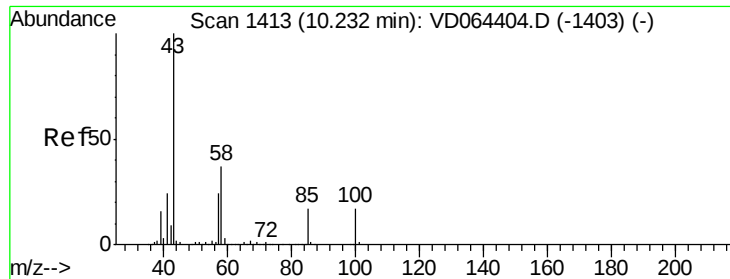
Tgt Ion: 88 Resp: 60
Ion Ratio Lower Upper
88 100
43 0.0 26.7 40.1#
58 0.0 52.3 78.5#



#50
Toluene-d8
Concen: 51.738 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD064532.D
Acq: 16 Dec 2019 19:24

Tgt Ion: 98 Resp: 70376
Ion Ratio Lower Upper
98 100
100 65.1 52.6 79.0

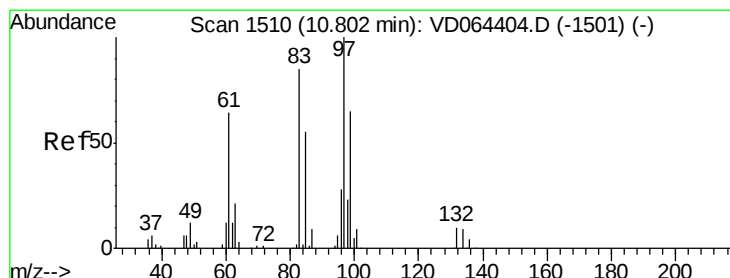
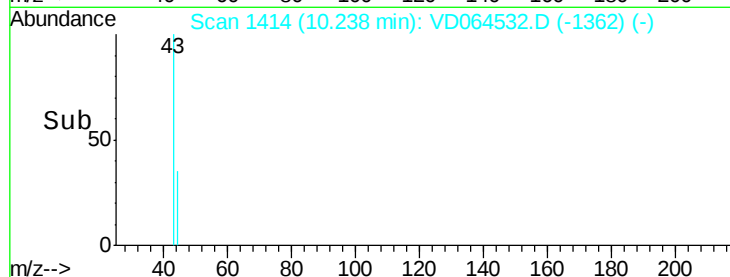
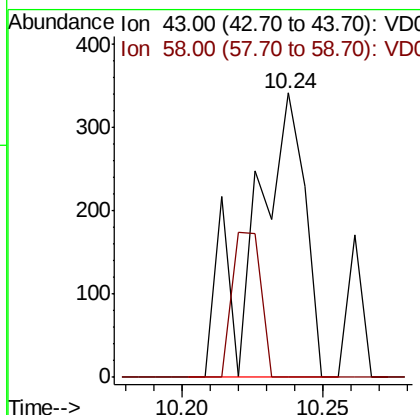
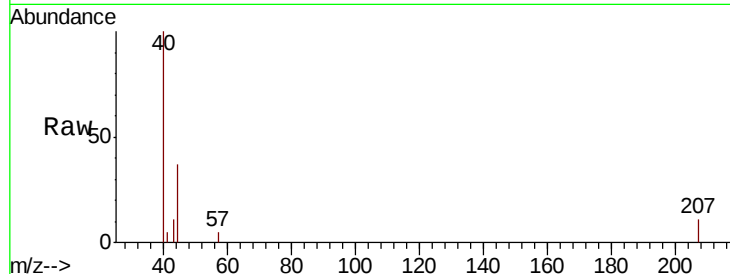




#51
 4-Methyl-2-Pentanone
 Concen: 1.926 ug/l
 RT: 10.24 min Scan# 1414
 Delta R.T. 0.01 min
 Lab File: VD064532.D
 Acq: 16 Dec 2019 19:24

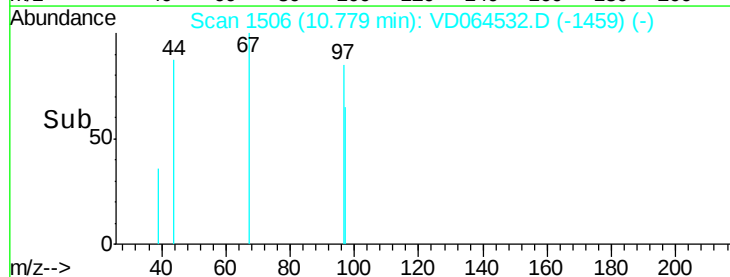
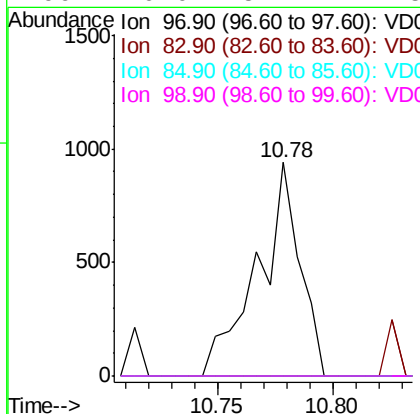
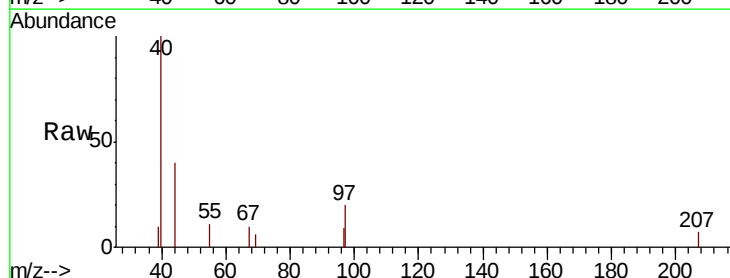
Instrument :
 MSVOA_D
 ClientSampleId :
 SHORE-RD-BH-04

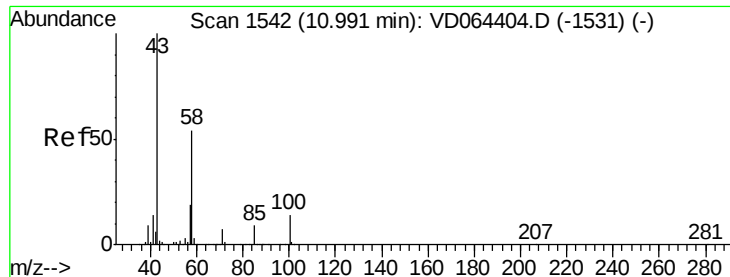
Tgt Ion: 43 Resp: 431
 Ion Ratio Lower Upper
 43 100
 58 28.3 30.6 46.0#



#55
 1,1,2-Trichloroethane
 Concen: 4.319 ug/l
 RT: 10.78 min Scan# 1506
 Delta R.T. -0.02 min
 Lab File: VD064532.D
 Acq: 16 Dec 2019 19:24

Tgt Ion: 97 Resp: 1202
 Ion Ratio Lower Upper
 97 100
 83 0.0 67.8 101.8#
 85 0.0 43.7 65.5#
 99 0.0 51.7 77.5#





#59

2-Hexanone

Concen: 4.740 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. -0.04 min

Lab File: VD064532.D

Acq: 16 Dec 2019 19:24

Instrument :

MSVOA_D

ClientSampleId :

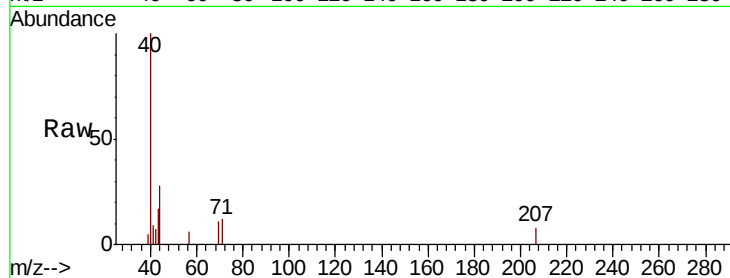
SHORE-RD-BH-04

Tgt Ion: 43 Resp: 736

Ion Ratio Lower Upper

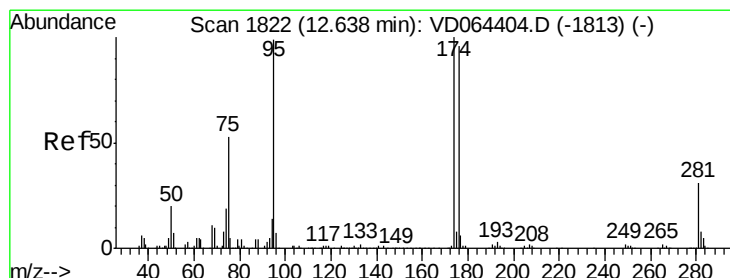
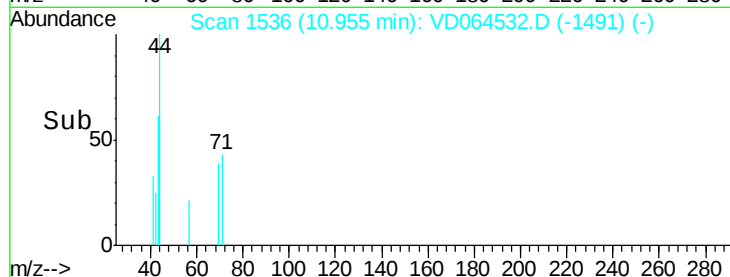
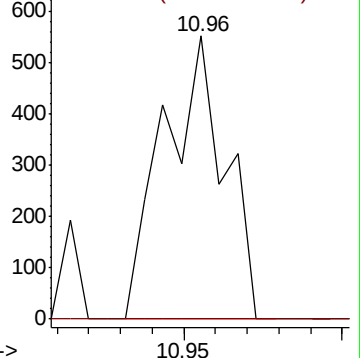
43 100

58 0.0 26.3 78.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 63.910 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064532.D

Acq: 16 Dec 2019 19:24

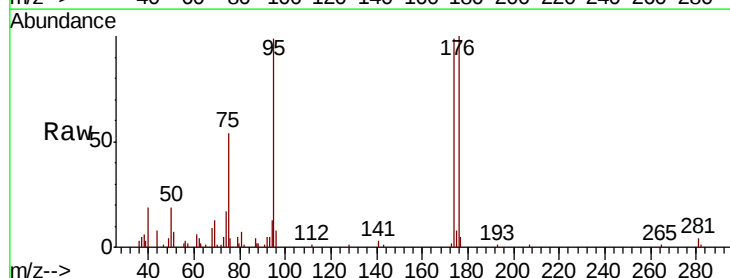
Tgt Ion: 95 Resp: 27938

Ion Ratio Lower Upper

95 100

174 99.3 0.0 197.2

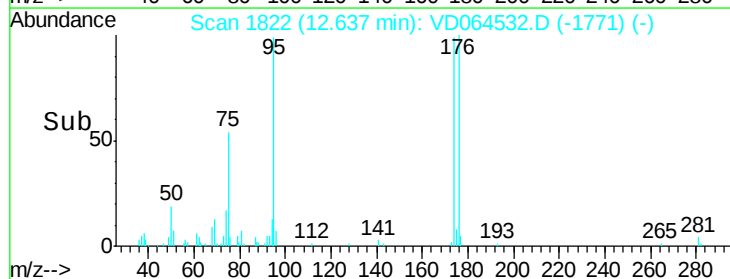
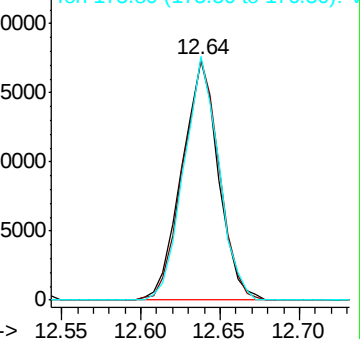
176 96.5 0.0 189.6

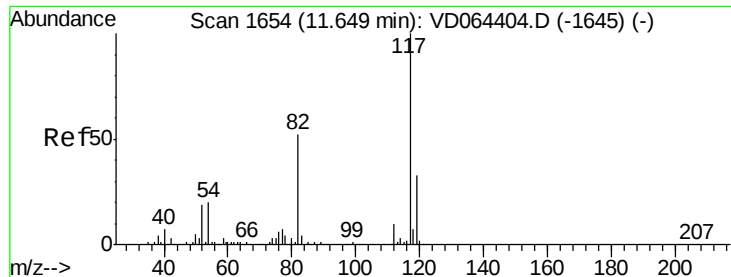


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

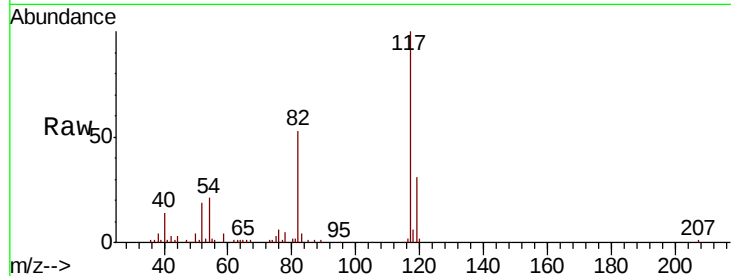




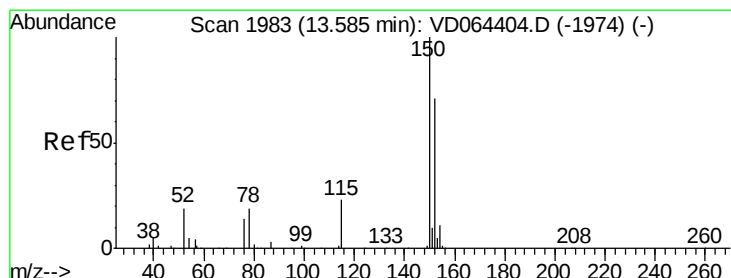
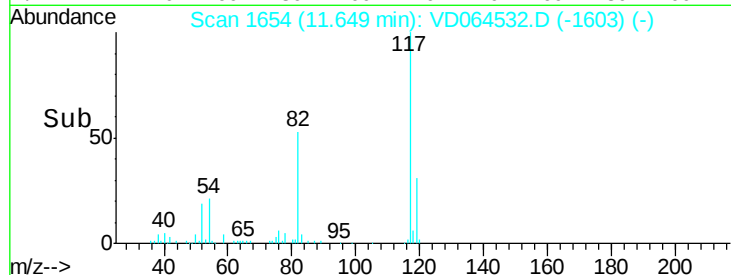
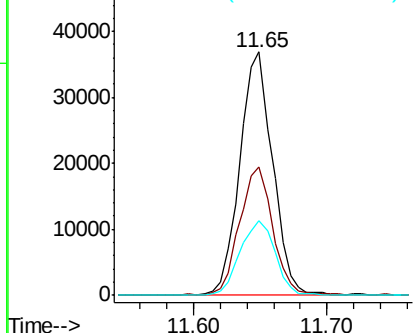
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064532.D
Acq: 16 Dec 2019 19:24

Instrument :
MSVOA_D
ClientSampleId :
SHORE-RD-BH-04

Tgt Ion:117 Resp: 62846
Ion Ratio Lower Upper
117 100
82 52.2 41.4 62.2
119 30.7 26.2 39.2

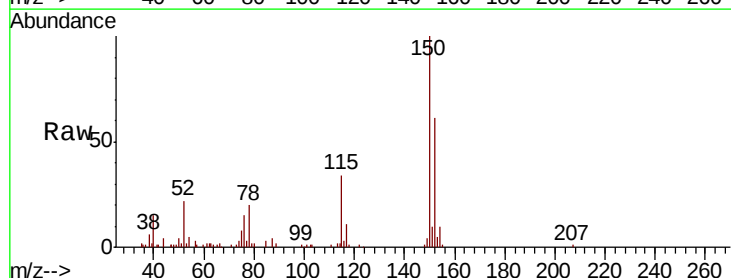


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

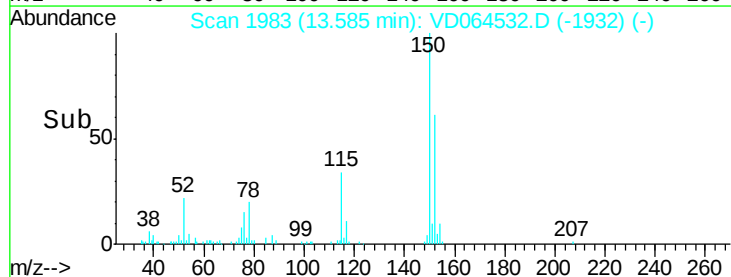
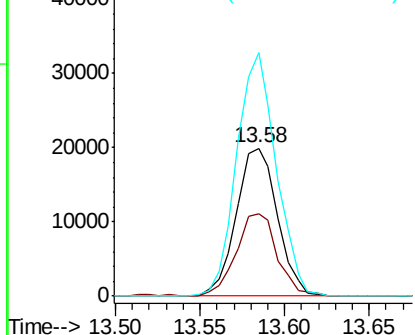


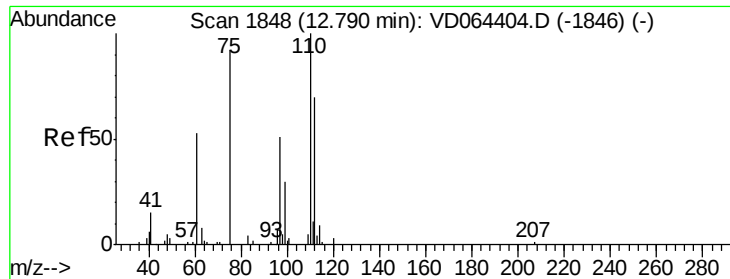
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD064532.D
Acq: 16 Dec 2019 19:24

Tgt Ion:152 Resp: 33723
Ion Ratio Lower Upper
152 100
115 55.8 26.7 80.1
150 158.1 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

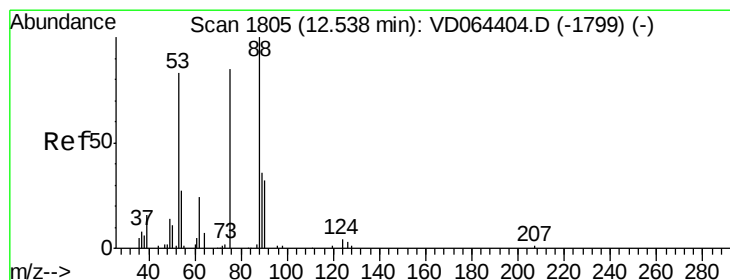
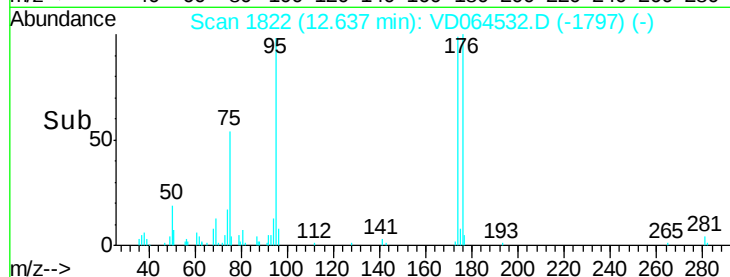
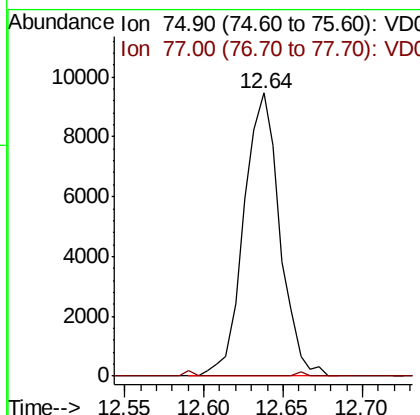
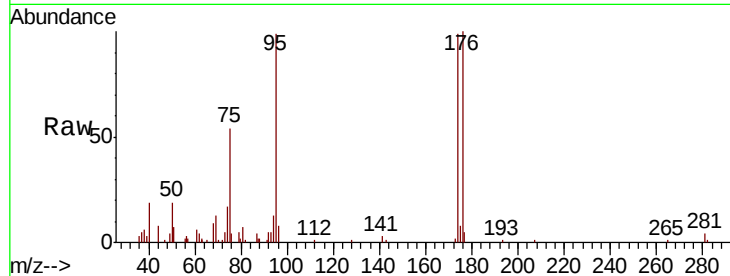




#76
 1,2,3-Trichloropropane
 Concen: 53.897 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD064532.D
 Acq: 16 Dec 2019 19:24

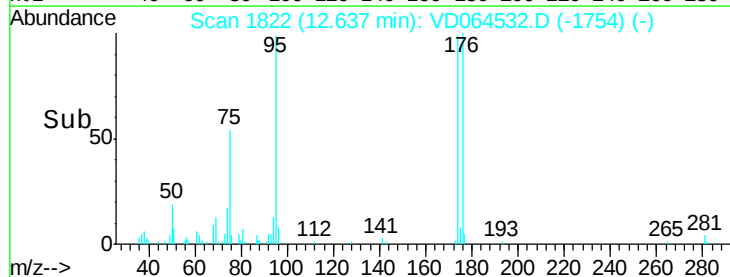
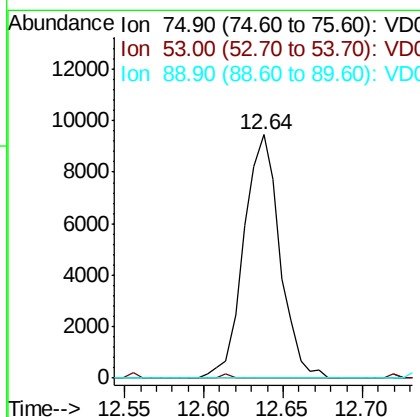
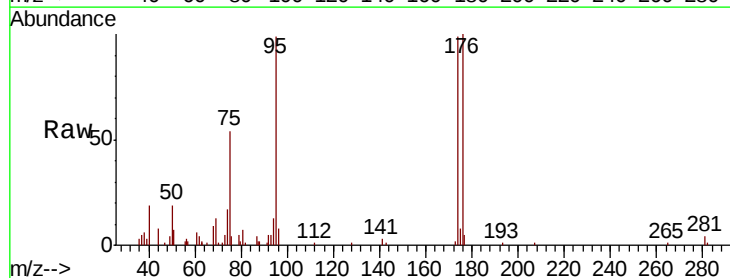
Instrument :
 MSVOA_D
 ClientSampleId :
 SHORE-RD-BH-04

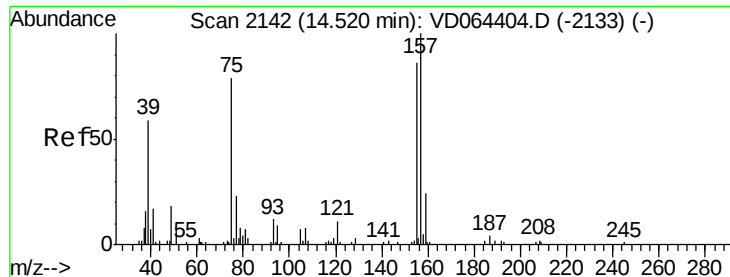
Tgt Ion: 75 Resp: 14947
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 117.523 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.10 min
 Lab File: VD064532.D
 Acq: 16 Dec 2019 19:24

Tgt Ion: 75 Resp: 14947
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.0 121.6#
 89 0.0 38.5 57.7#

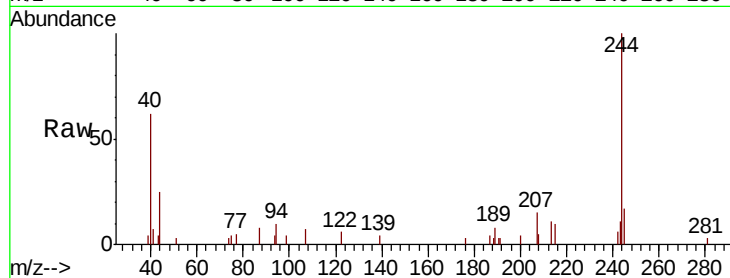




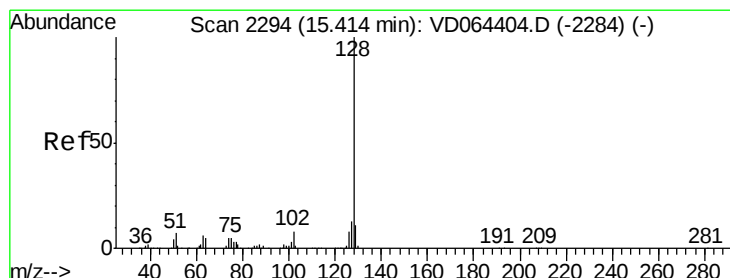
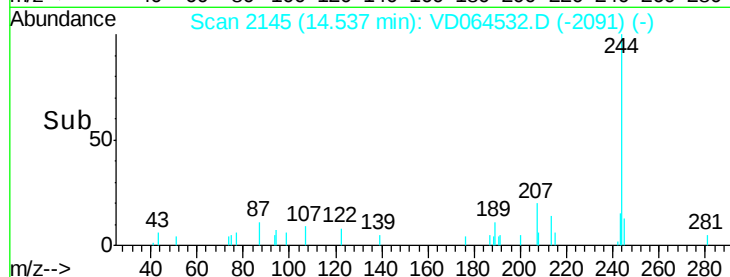
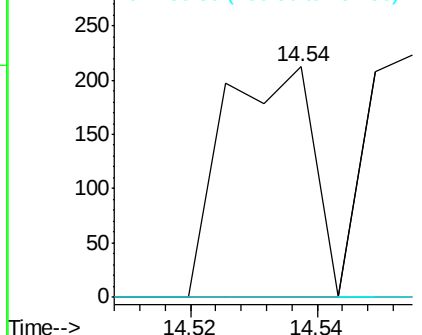
#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.54 min Scan# 2145
 Delta R.T. 0.02 min
 Lab File: VD064532.D
 Acq: 16 Dec 2019 19:24

Instrument :
 MSVOA_D
 ClientSampleId :
 SHORE-RD-BH-04

Tgt Ion: 75 Resp: 207
 Ion Ratio Lower Upper
 75 100
 155 0.0 51.9 155.7#
 157 0.0 63.2 189.8#

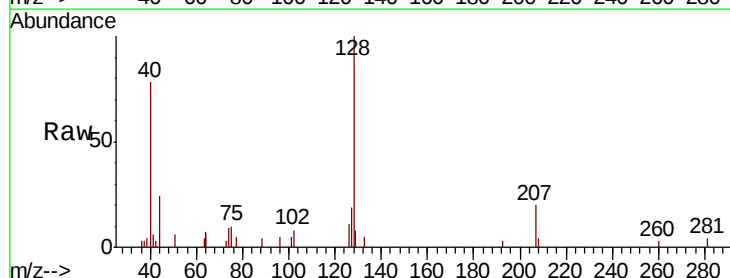


Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V



#95
 Naphthalene
 Concen: 7.497 ug/l
 RT: 15.41 min Scan# 2294
 Delta R.T. -0.00 min
 Lab File: VD064532.D
 Acq: 16 Dec 2019 19:24

Tgt Ion: 128 Resp: 9309
 Ion Ratio Lower Upper
 128 100
 127 18.3 10.5 15.7#
 129 12.9 8.8 13.2



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

