

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD121619\
 Data File : VD064528.D
 Acq On : 16 Dec 2019 17:29
 Operator : VA/SY
 Sample : K6299-01
 Misc : 5.10G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SHORE-RD-BH-01

Quant Time: Dec 17 01:55:49 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

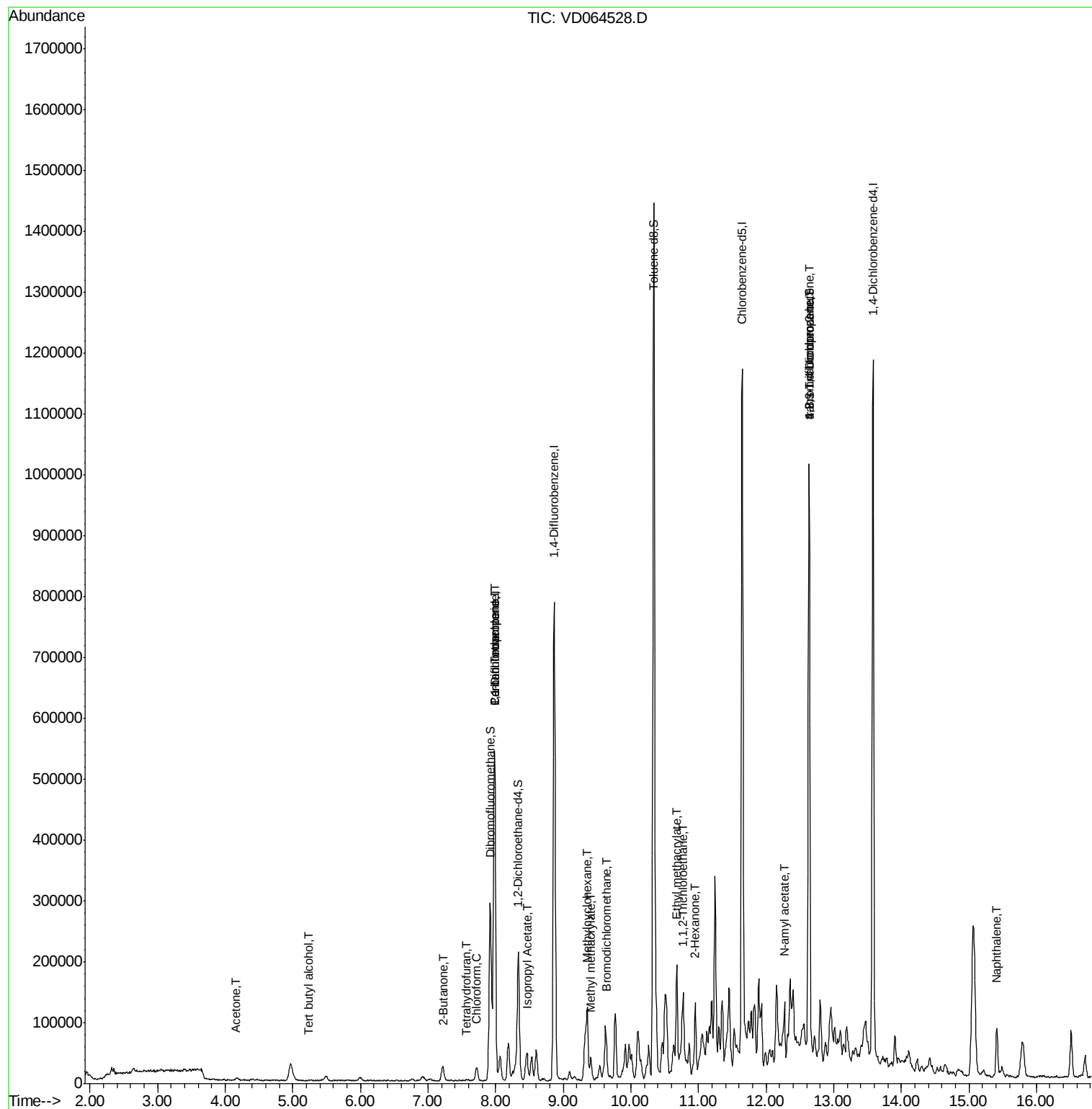
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	437192	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	681988	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	639600	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	313949	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	166798	42.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.30%	
35) Dibromofluoromethane	7.92	113	198117	46.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.22%	
50) Toluene-d8	10.34	98	833110	51.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.94%	
62) 4-Bromofluorobenzene	12.64	95	277861	53.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.84%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.24	59	574	2.279	ug/l #	100
16) Acetone	4.17	43	7287	9.112	ug/l	100
25) 2-Butanone	7.24	43	3251	2.875	ug/l #	80
29) Tetrahydrofuran	7.58	42	843	1.172	ug/l #	45
30) Chloroform	7.72	83	18315	2.422	ug/l	92
31) Cyclohexane	7.98	56	14716	Below Cal	#	48
36) 1,1-Dichloropropene	7.98	75	29582	4.586	ug/l #	49
38) Carbon Tetrachloride	7.98	117	40690	5.977	ug/l #	15
39) Methylcyclohexane	9.35	83	46606	5.824	ug/l	95
43) Isopropyl Acetate	8.46	43	10462	1.944	ug/l #	51
47) Bromodichloromethane	9.64	83	10217	1.644	ug/l #	36
48) Methyl methacrylate	9.40	41	8371	3.399	ug/l #	35
55) 1,1,2-Trichloroethane	10.77	97	45790	13.828	ug/l #	22
56) Ethyl methacrylate	10.68	69	16846	3.989	ug/l #	1
59) 2-Hexanone	10.96	43	44104	23.869	ug/l #	32
74) N-amyl acetate	12.27	43	21193	4.135	ug/l #	43
76) 1,2,3-Trichloropropane	12.64	75	146166	56.614	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	146166	123.447	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.43	75	102	Below Cal		51
95) Naphthalene	15.41	128	74052	6.406	ug/l	98

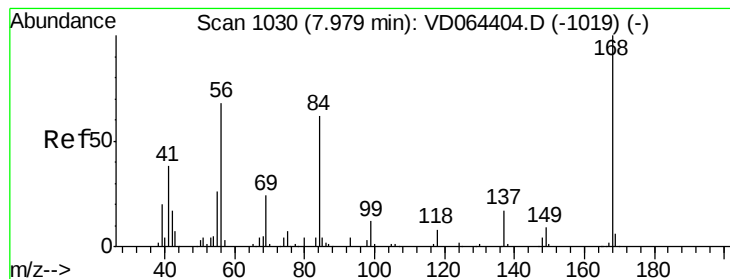
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 29 07:18:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD064528.D

Acq: 16 Dec 2019 17:29

Instrument :

MSVOA_D

ClientSampleId :

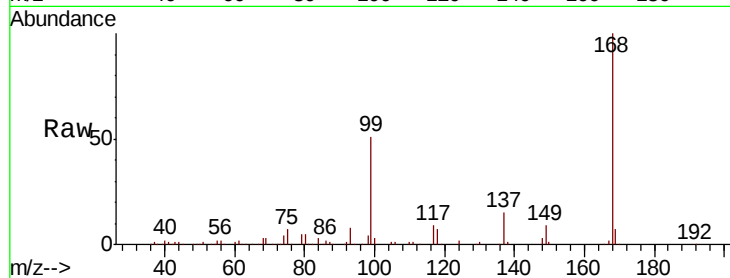
SHORE-RD-BH-01

Tgt Ion: 168 Resp: 437192

Ion Ratio Lower Upper

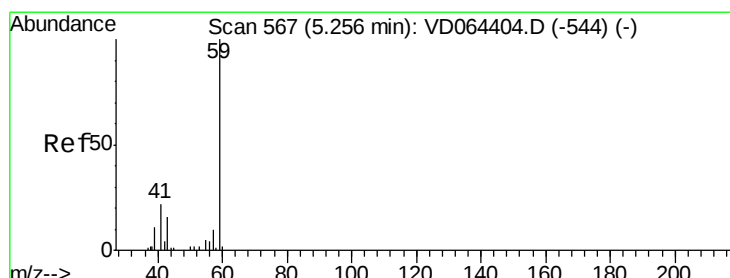
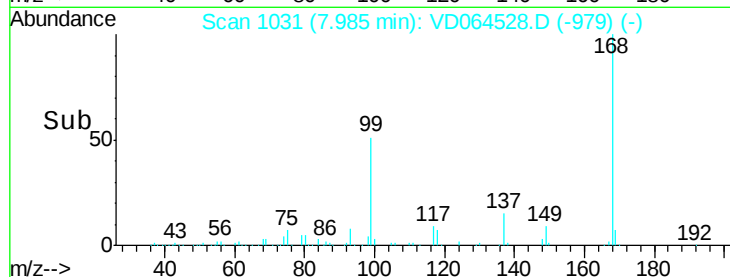
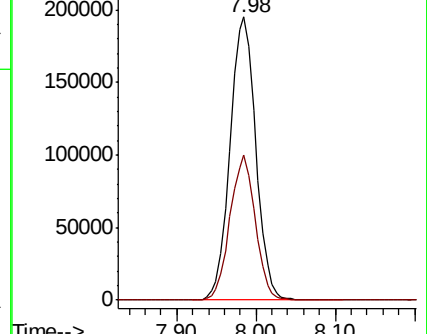
168 100

99 51.1 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 2.279 ug/l

RT: 5.24 min Scan# 564

Delta R.T. -0.02 min

Lab File: VD064528.D

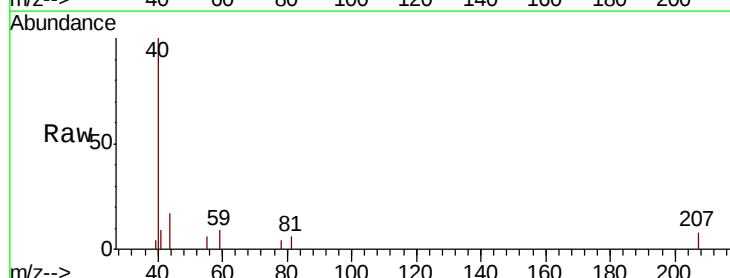
Acq: 16 Dec 2019 17:29

Tgt Ion: 59 Resp: 574

Ion Ratio Lower Upper

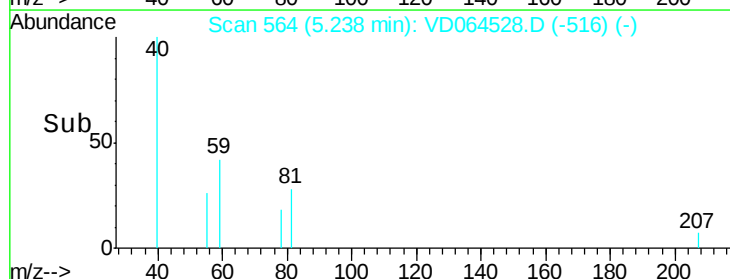
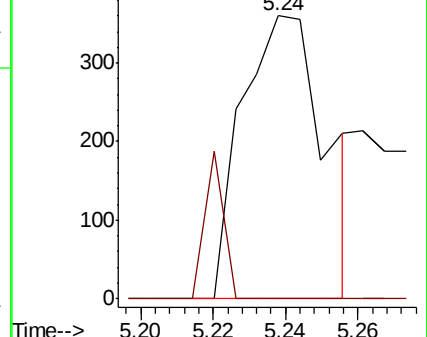
59 100

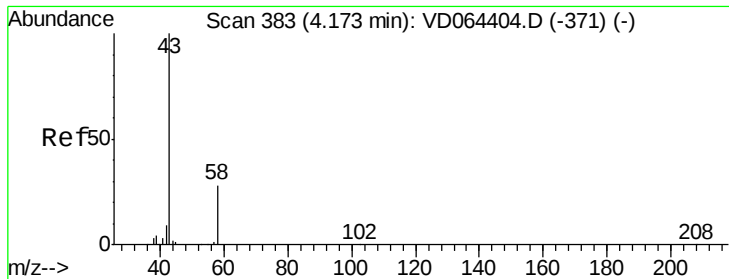
57 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 9.112 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064528.D

Acq: 16 Dec 2019 17:29

Instrument :

MSVOA_D

ClientSampleId :

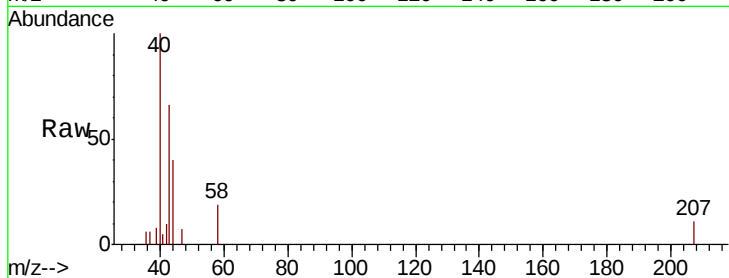
SHORE-RD-BH-01

Tgt Ion: 43 Resp: 7287

Ion Ratio Lower Upper

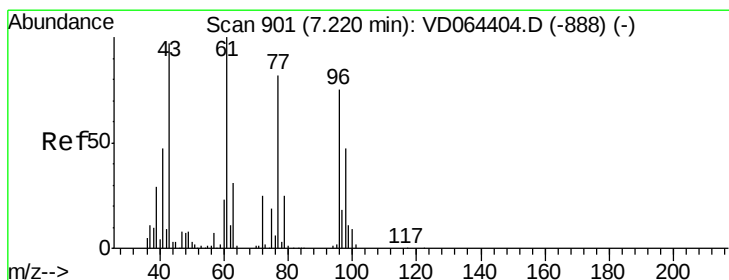
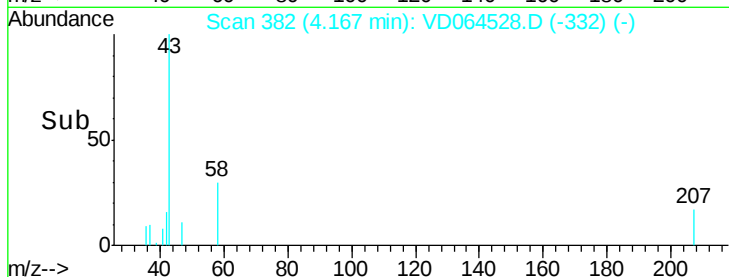
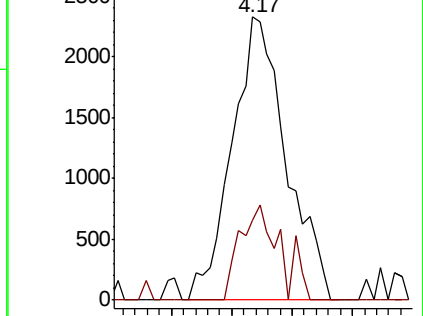
43 100

58 28.3 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#25

2-Butanone

Concen: 2.875 ug/l

RT: 7.24 min Scan# 904

Delta R.T. 0.02 min

Lab File: VD064528.D

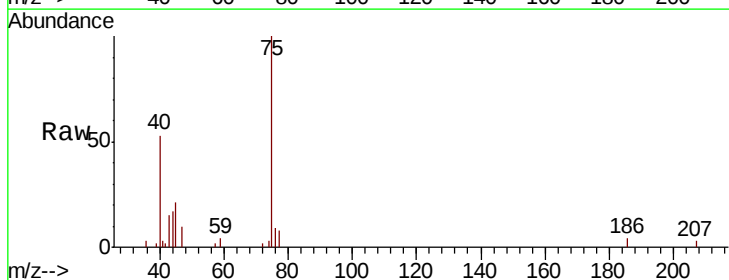
Acq: 16 Dec 2019 17:29

Tgt Ion: 43 Resp: 3251

Ion Ratio Lower Upper

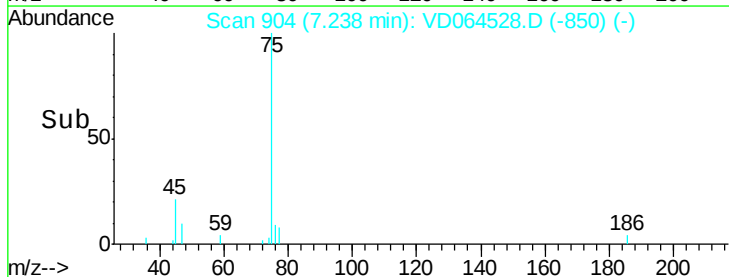
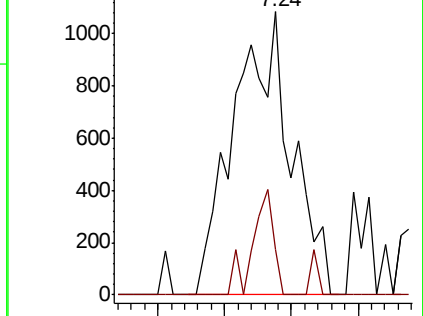
43 100

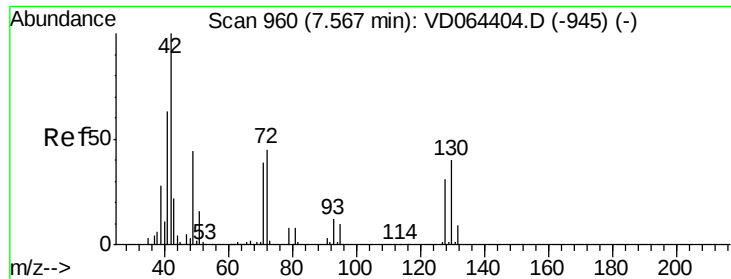
72 15.8 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

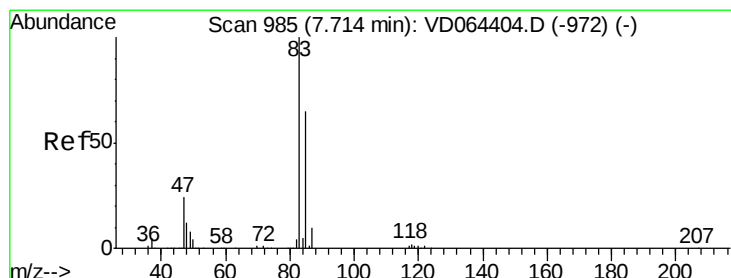
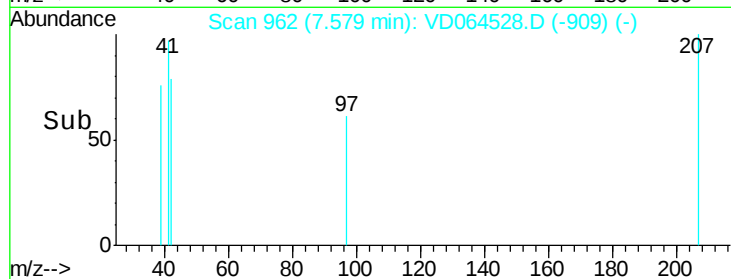
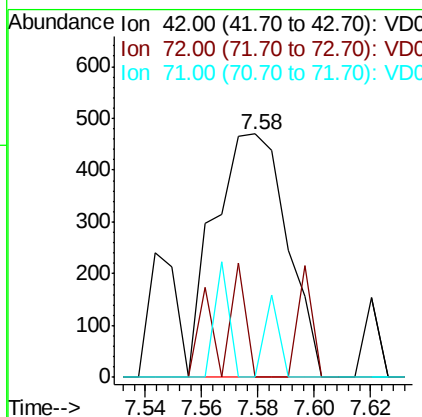
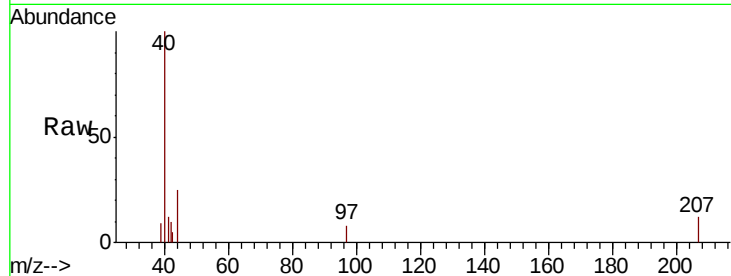




#29
Tetrahydrofuran
Concen: 1.172 ug/l
RT: 7.58 min Scan# 962
Delta R.T. 0.01 min
Lab File: VD064528.D
Acq: 16 Dec 2019 17:29

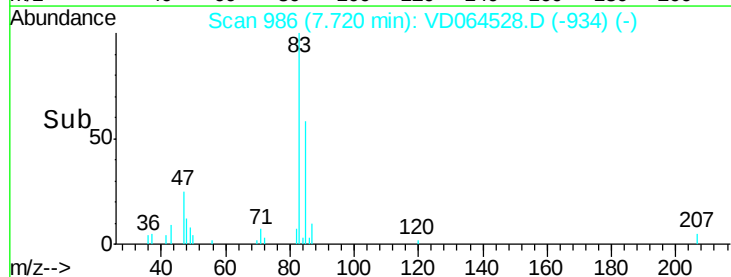
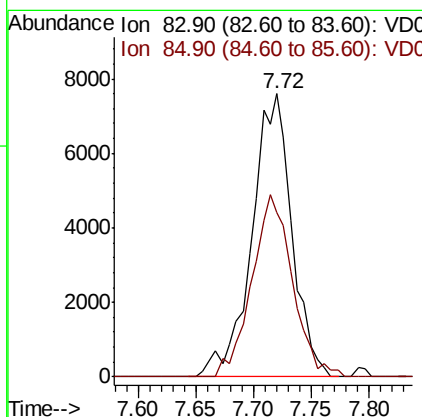
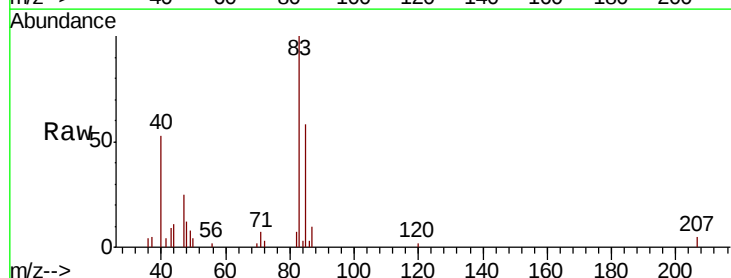
Instrument :
MSVOA_D
ClientSampleId :
SHORE-RD-BH-01

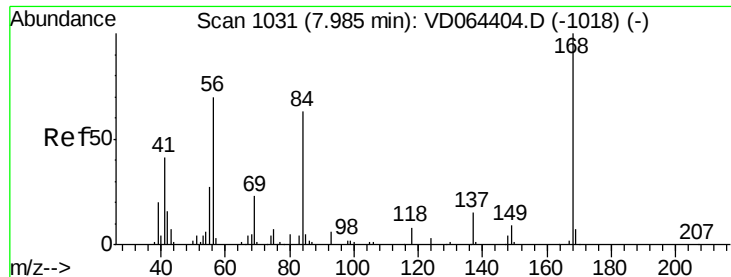
Tgt Ion: 42 Resp: 843
Ion Ratio Lower Upper
42 100
72 9.1 35.8 53.8#
71 6.6 32.7 49.1#



#30
Chloroform
Concen: 2.422 ug/l
RT: 7.72 min Scan# 986
Delta R.T. 0.01 min
Lab File: VD064528.D
Acq: 16 Dec 2019 17:29

Tgt Ion: 83 Resp: 18315
Ion Ratio Lower Upper
83 100
85 58.2 51.8 77.6

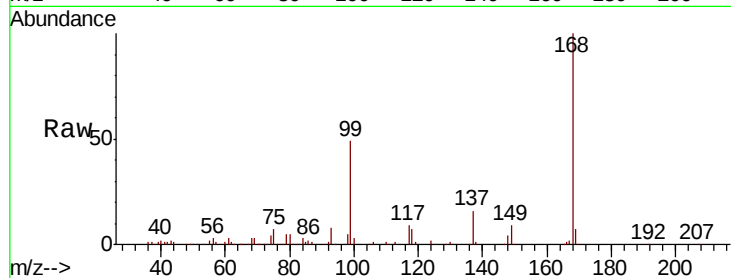




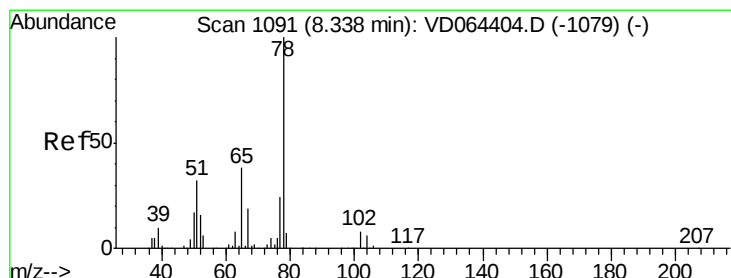
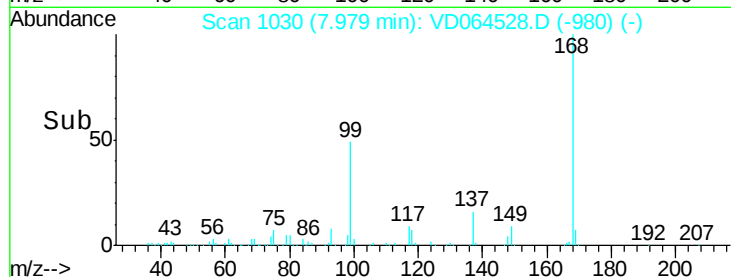
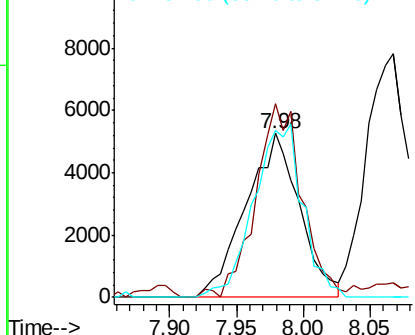
#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD064528.D
Acq: 16 Dec 2019 17:29

Instrument :
MSVOA_D
ClientSampleId :
SHORE-RD-BH-01

Tgt Ion: 56 Resp: 14716
Ion Ratio Lower Upper
56 100
69 117.8 26.2 39.4#
84 101.7 70.3 105.5

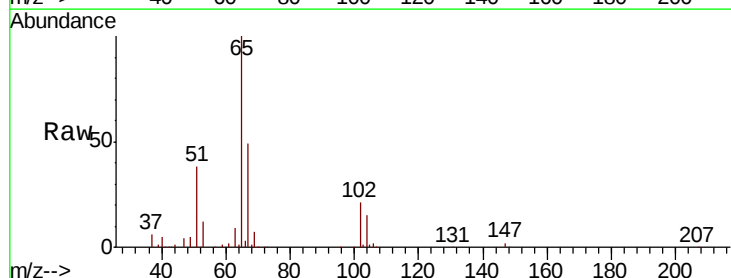


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

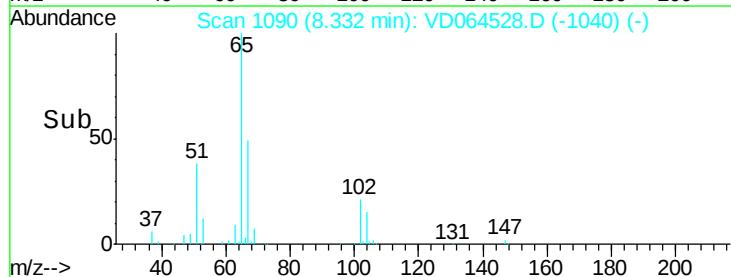
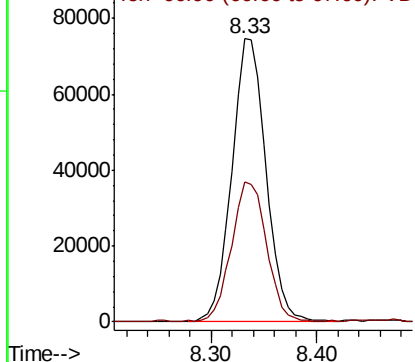


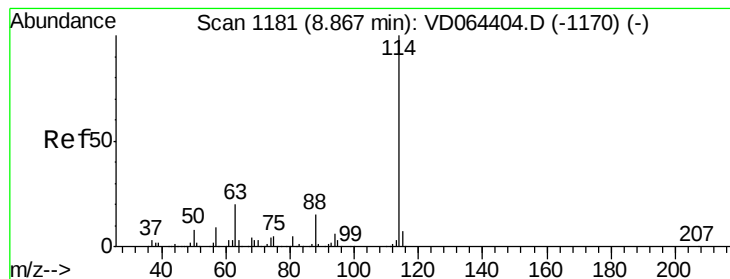
#33
1,2-Dichloroethane-d4
Concen: 42.150 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD064528.D
Acq: 16 Dec 2019 17:29

Tgt Ion: 65 Resp: 166798
Ion Ratio Lower Upper
65 100
67 51.5 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD064528.D

Acq: 16 Dec 2019 17:29

Instrument :

MSVOA_D

ClientSampleId :

SHORE-RD-BH-01

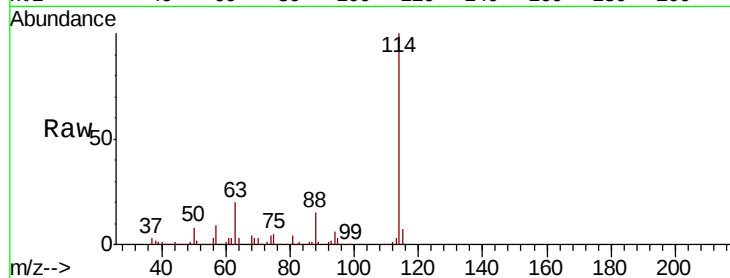
Tgt Ion:114 Resp: 681988

Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.0

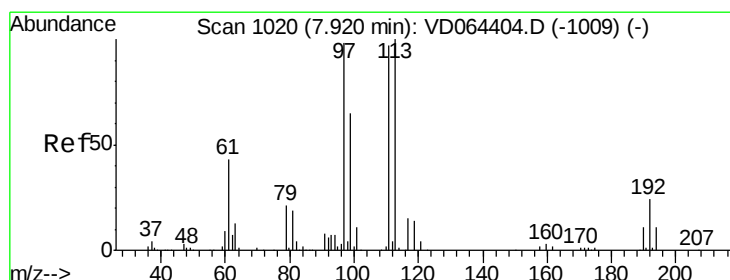
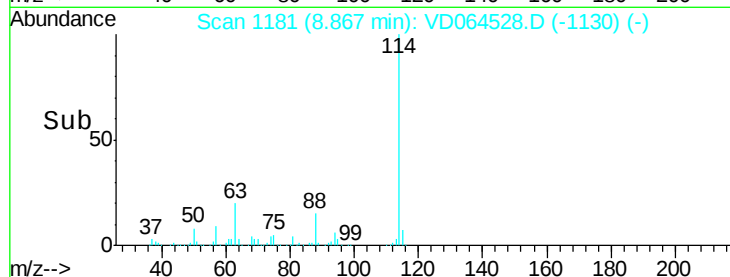
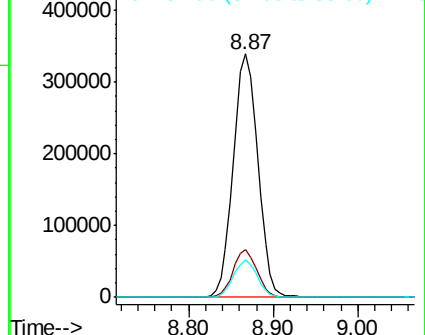
88 15.3 0.0 29.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC



#35

Dibromofluoromethane

Concen: 46.107 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD064528.D

Acq: 16 Dec 2019 17:29

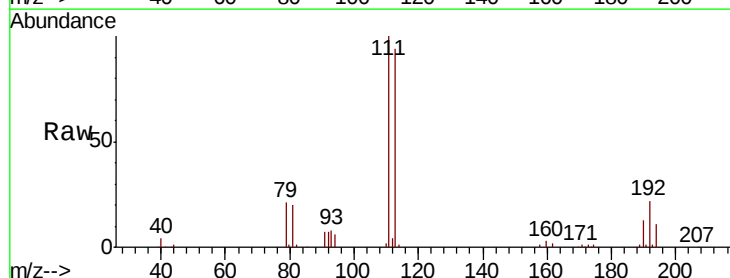
Tgt Ion:113 Resp: 198117

Ion Ratio Lower Upper

113 100

111 102.3 79.4 119.2

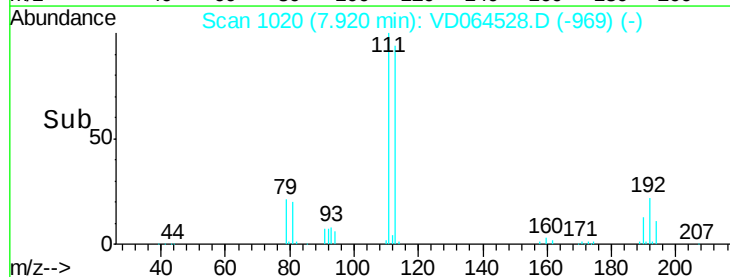
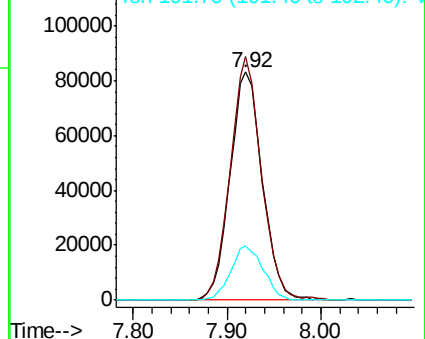
192 23.9 18.6 28.0

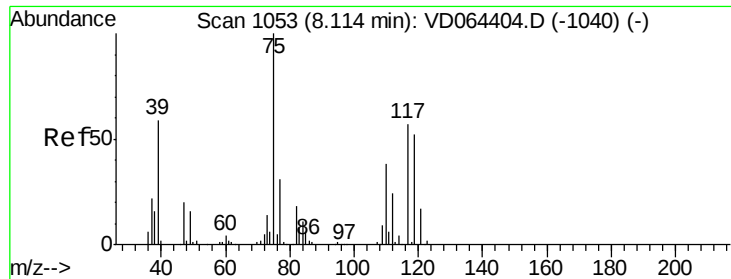


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

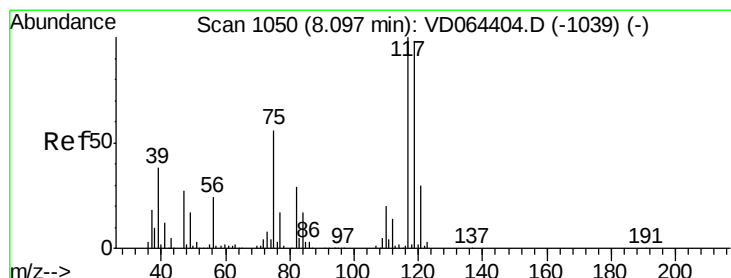
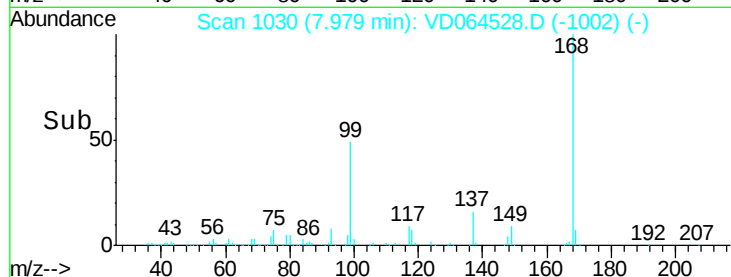
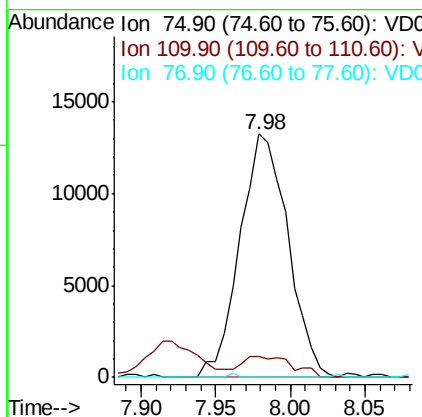
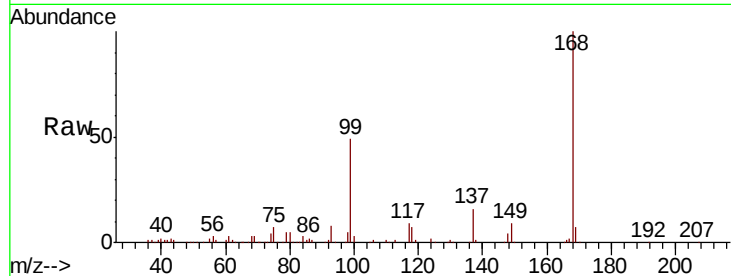




#36
 1,1-Dichloropropene
 Concen: 4.586 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064528.D
 Acq: 16 Dec 2019 17:29

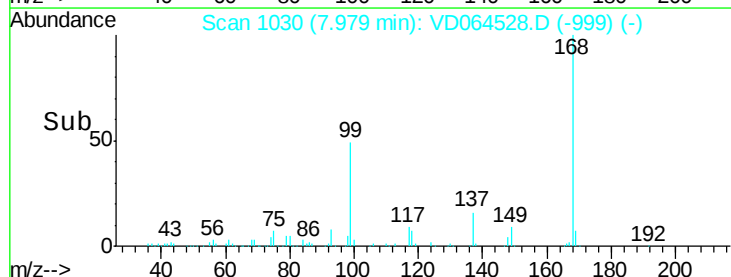
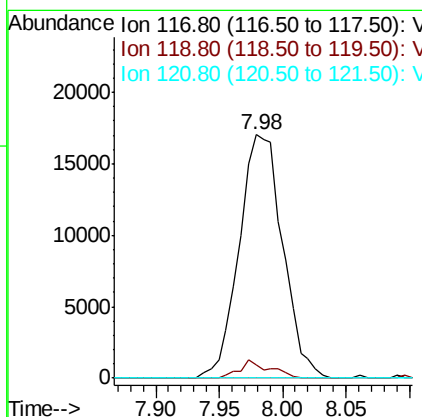
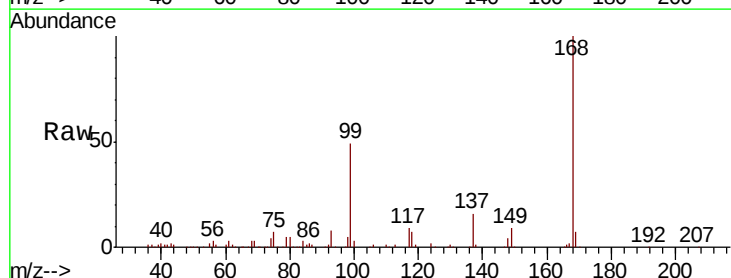
Instrument :
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 SHORE-RD-BH-01

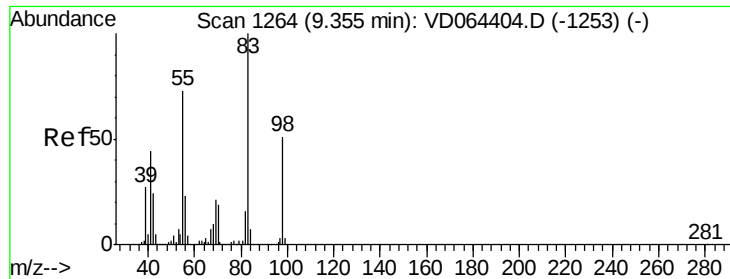
Tgt Ion: 75 Resp: 29582
 Ion Ratio Lower Upper
 75 100
 110 9.5 18.6 55.8#
 77 0.3 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.977 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.12 min
 Lab File: VD064528.D
 Acq: 16 Dec 2019 17:29

Tgt Ion: 117 Resp: 40690
 Ion Ratio Lower Upper
 117 100
 119 5.5 78.8 118.2#
 121 0.0 24.2 36.2#

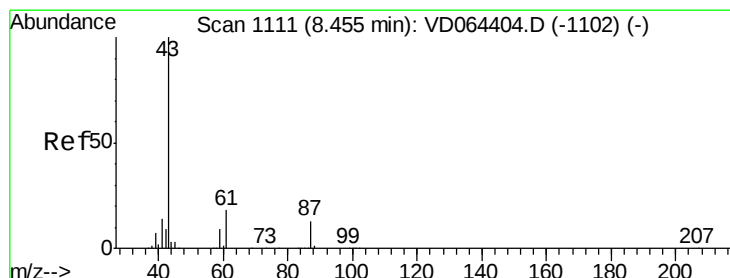
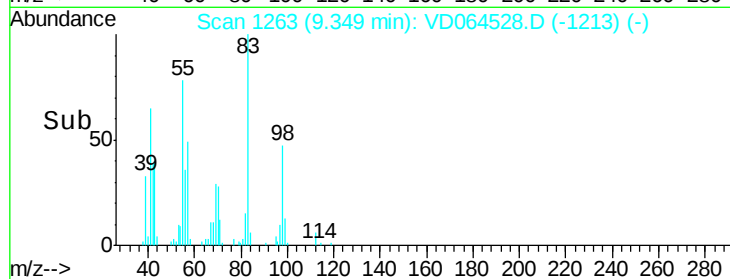
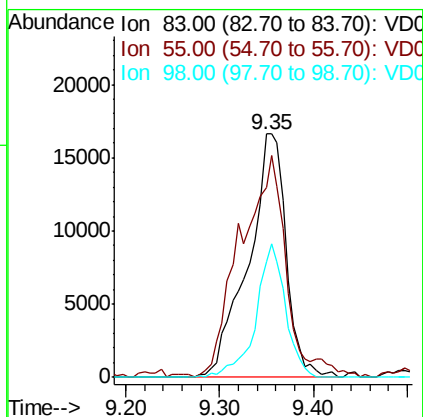
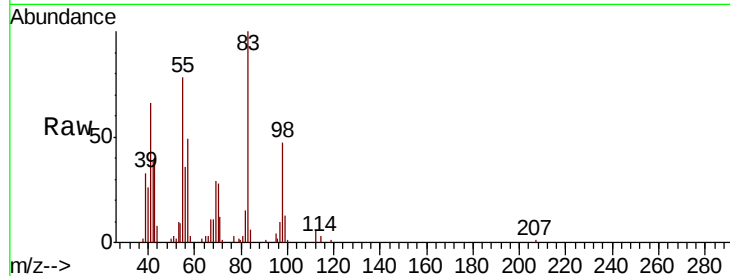




#39
Methylcyclohexane
Concen: 5.824 ug/l
RT: 9.35 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VD064528.D
Acq: 16 Dec 2019 17:29

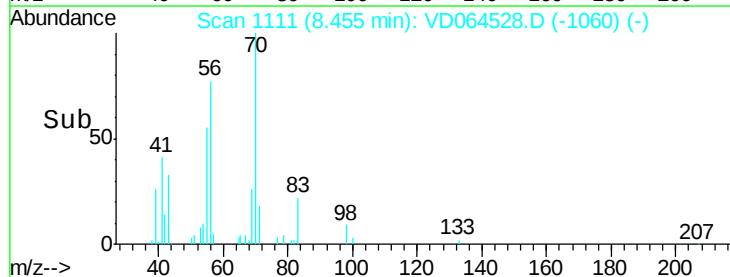
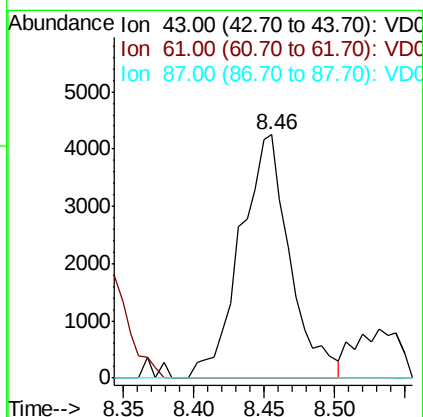
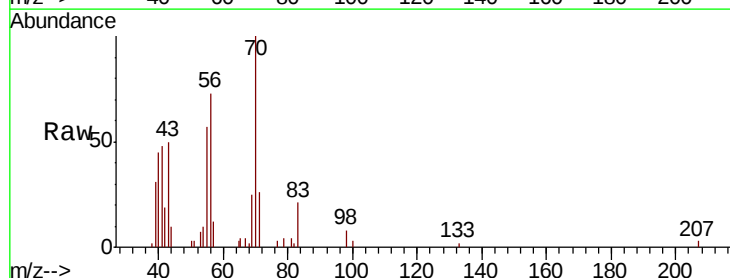
Instrument :
MSVOA_D
ClientSampleId :
SHORE-RD-BH-01

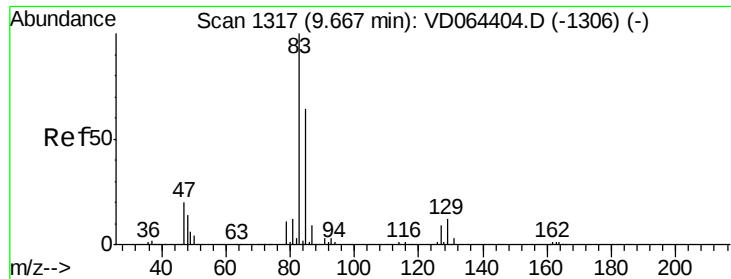
Tgt Ion: 83 Resp: 46606
Ion Ratio Lower Upper
83 100
55 77.2 58.6 87.8
98 47.4 40.9 61.3



#43
Isopropyl Acetate
Concen: 1.944 ug/l
RT: 8.46 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD064528.D
Acq: 16 Dec 2019 17:29

Tgt Ion: 43 Resp: 10462
Ion Ratio Lower Upper
43 100
61 0.0 24.0 36.0#
87 0.0 10.6 15.8#

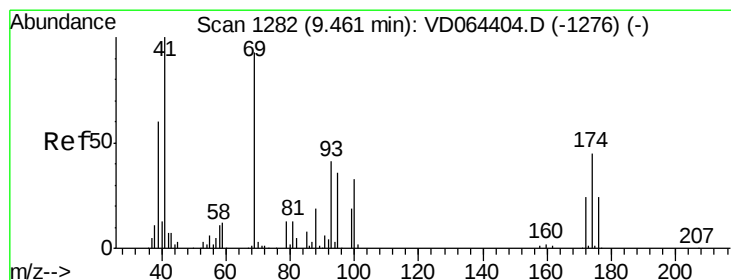
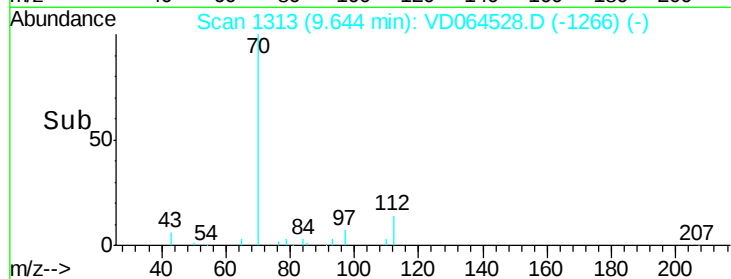
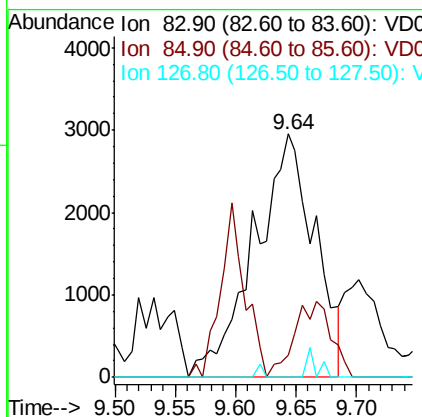
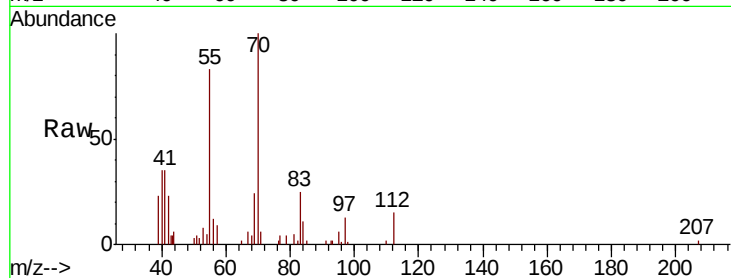




#47
Bromodichloromethane
Concen: 1.644 ug/l
RT: 9.64 min Scan# 1313
Delta R.T. -0.02 min
Lab File: VD064528.D
Acq: 16 Dec 2019 17:29

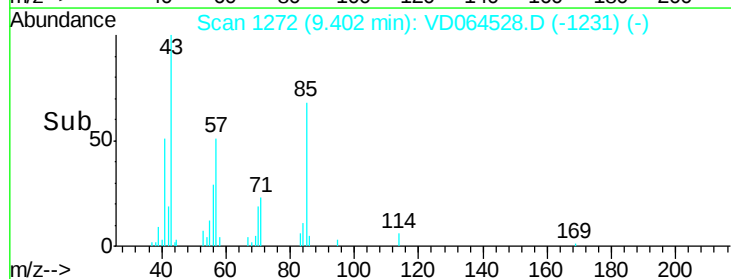
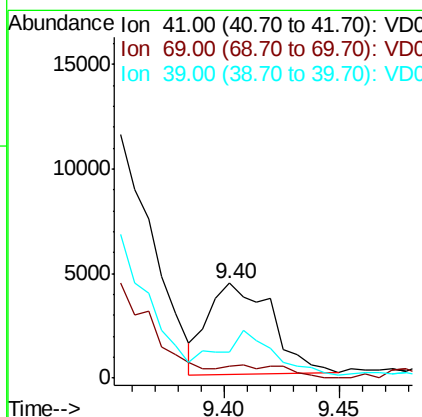
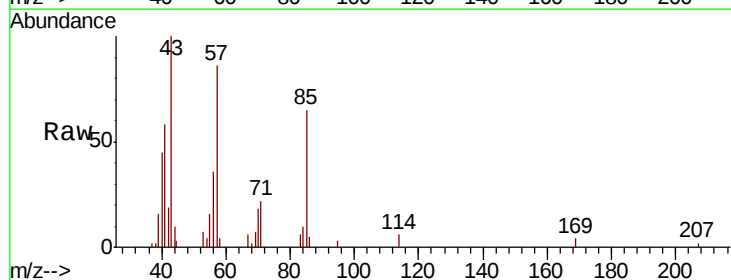
Instrument :
MSVOA_D
ClientSampleId :
SHORE-RD-BH-01

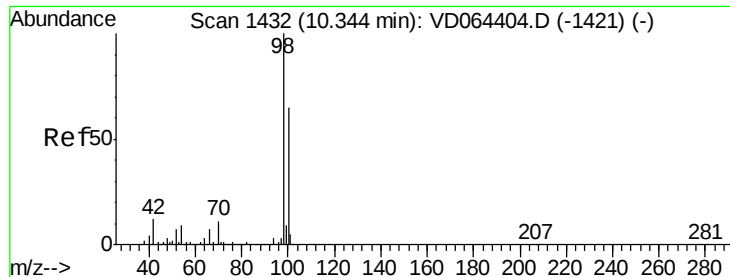
Tgt Ion: 83 Resp: 10217
Ion Ratio Lower Upper
83 100
85 9.1 51.1 76.7#
127 0.0 7.4 11.0#



#48
Methyl methacrylate
Concen: 3.399 ug/l
RT: 9.40 min Scan# 1272
Delta R.T. -0.06 min
Lab File: VD064528.D
Acq: 16 Dec 2019 17:29

Tgt Ion: 41 Resp: 8371
Ion Ratio Lower Upper
41 100
69 13.5 72.0 108.0#
39 32.6 55.2 82.8#





#50

Toluene-d8

Concen: 51.472 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD064528.D

Acq: 16 Dec 2019 17:29

Instrument :

MSVOA_D

ClientSampleId :

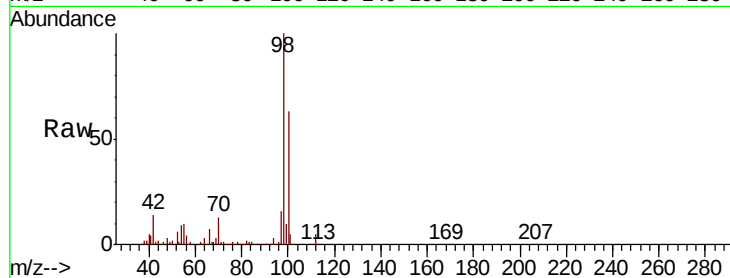
SHORE-RD-BH-01

Tgt Ion: 98 Resp: 833110

Ion Ratio Lower Upper

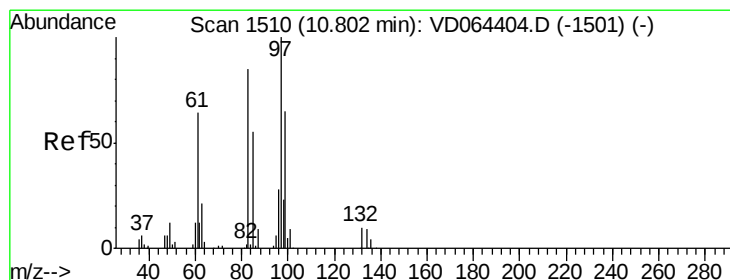
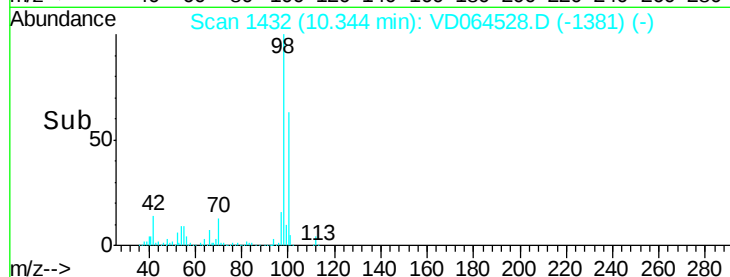
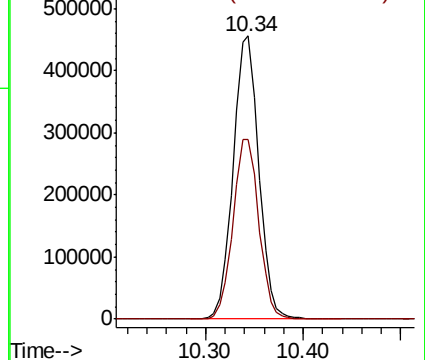
98 100

100 64.1 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#55

1,1,2-Trichloroethane

Concen: 13.828 ug/l

RT: 10.77 min Scan# 1505

Delta R.T. -0.03 min

Lab File: VD064528.D

Acq: 16 Dec 2019 17:29

Tgt Ion: 97 Resp: 45790

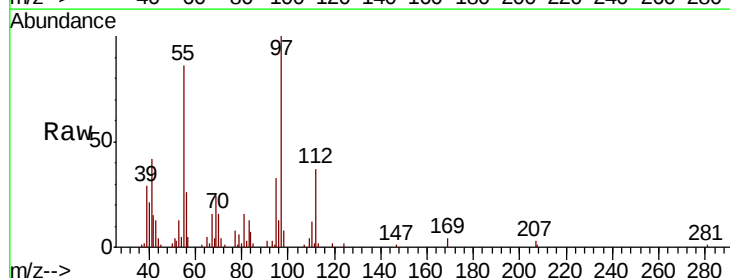
Ion Ratio Lower Upper

97 100

83 12.9 67.8 101.8#

85 2.0 43.7 65.5#

99 0.0 51.7 77.5#

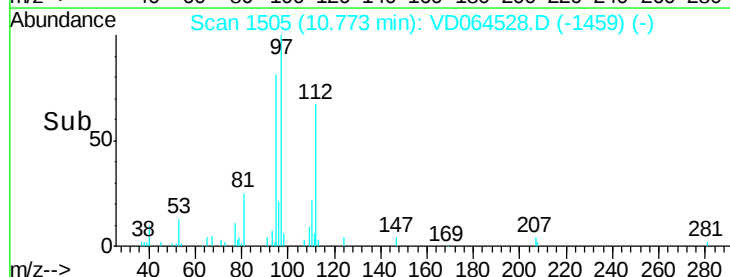
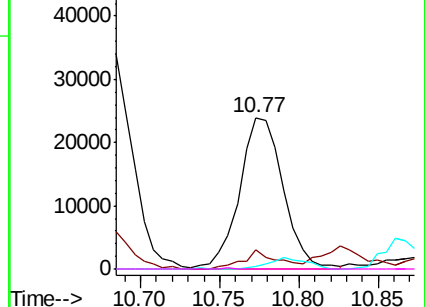


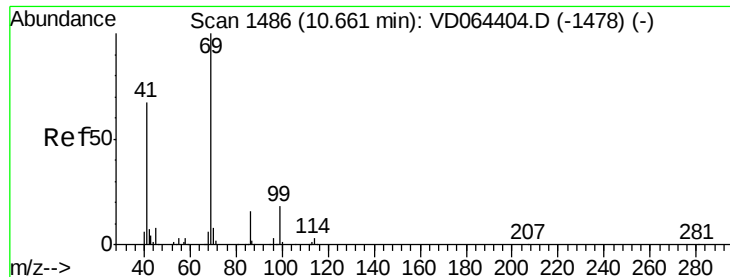
Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC





#56

Ethyl methacrylate

Concen: 3.989 ug/l

RT: 10.68 min Scan# 1489

Delta R.T. 0.02 min

Lab File: VD064528.D

Acq: 16 Dec 2019 17:29

Instrument :

MSVOA_D

ClientSampleId :

SHORE-RD-BH-01

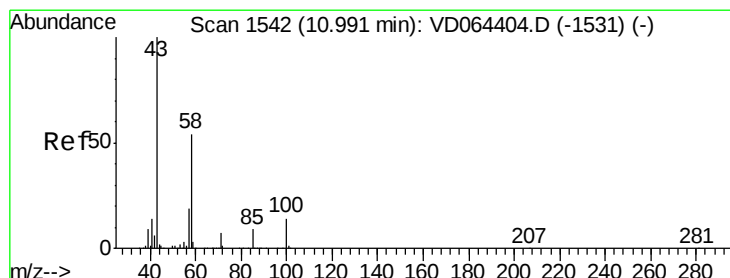
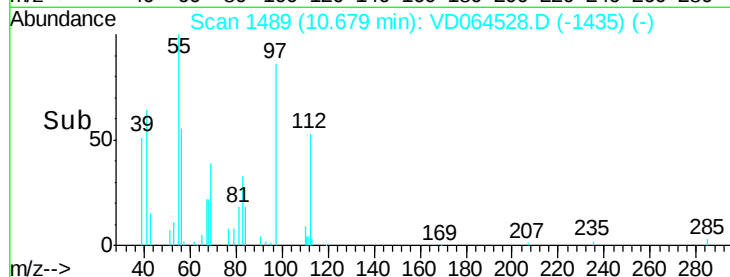
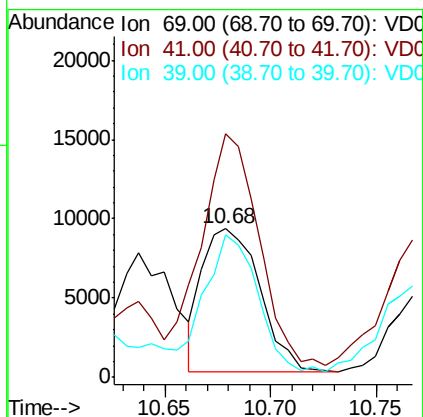
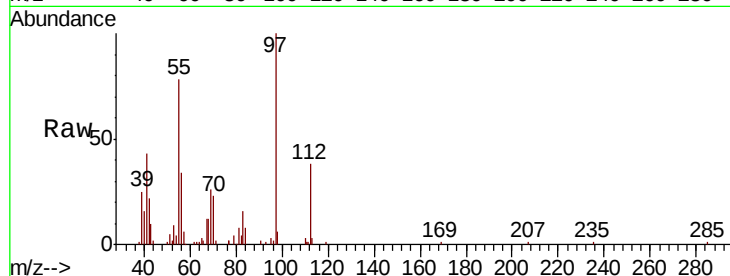
Tgt Ion: 69 Resp: 16846

Ion Ratio Lower Upper

69 100

41 163.6 55.0 82.4#

39 88.5 33.0 49.6#



#59

2-Hexanone

Concen: 23.869 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. -0.04 min

Lab File: VD064528.D

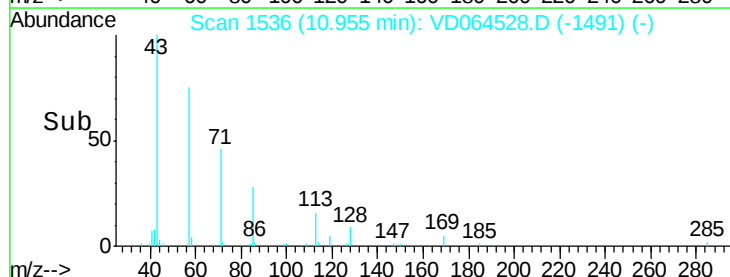
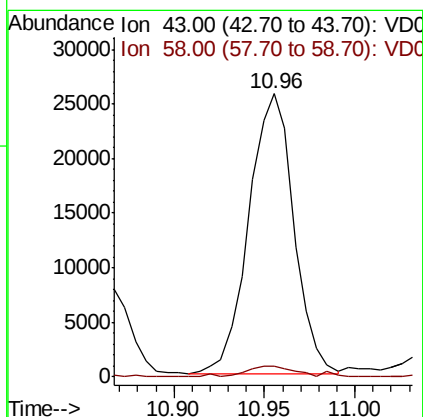
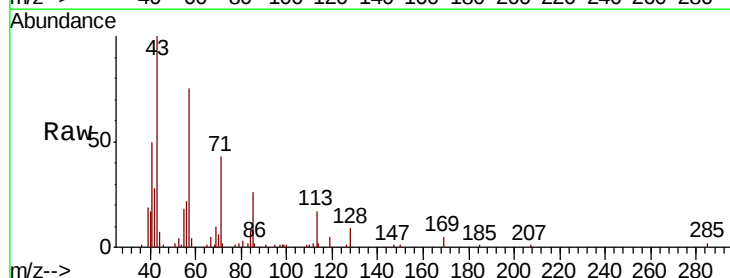
Acq: 16 Dec 2019 17:29

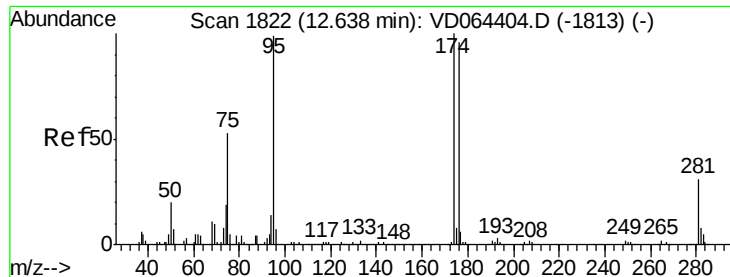
Tgt Ion: 43 Resp: 44104

Ion Ratio Lower Upper

43 100

58 4.2 26.3 78.8#

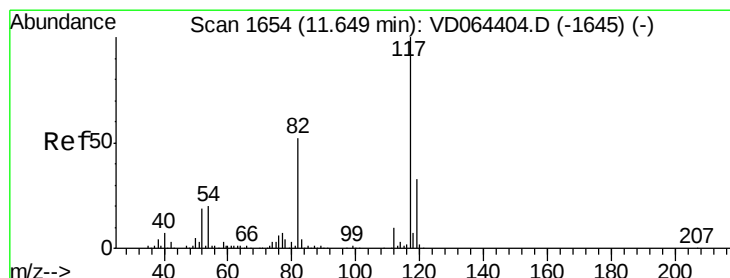
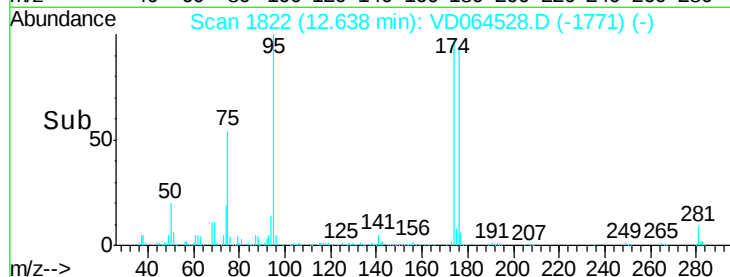
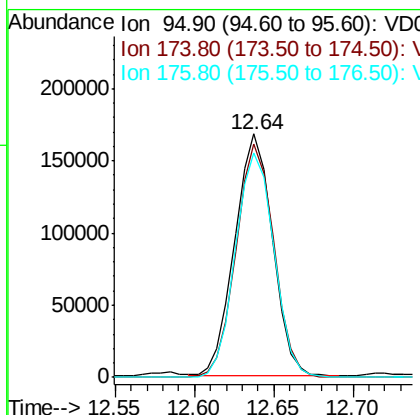
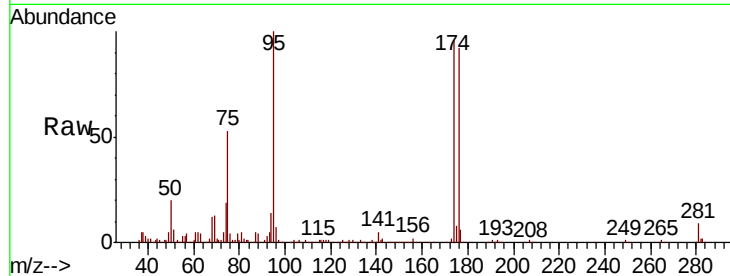




#62
4-Bromofluorobenzene
Concen: 53.418 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD064528.D
Acq: 16 Dec 2019 17:29

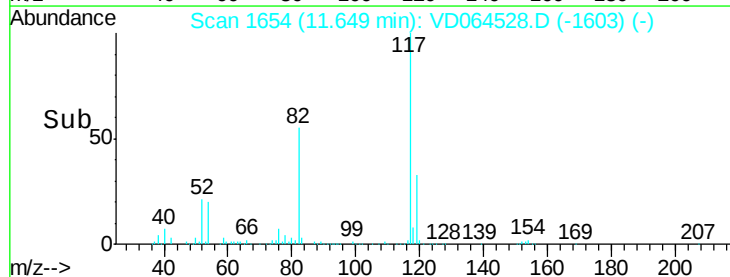
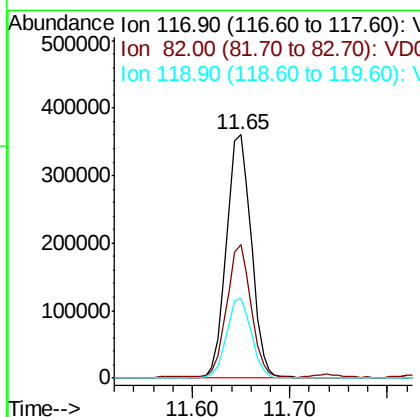
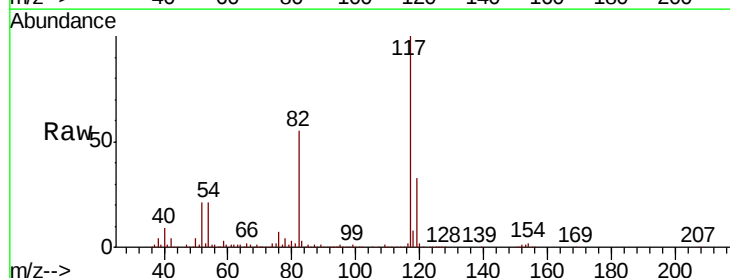
Instrument :
MSVOA_D
ClientSampleId :
SHORE-RD-BH-01

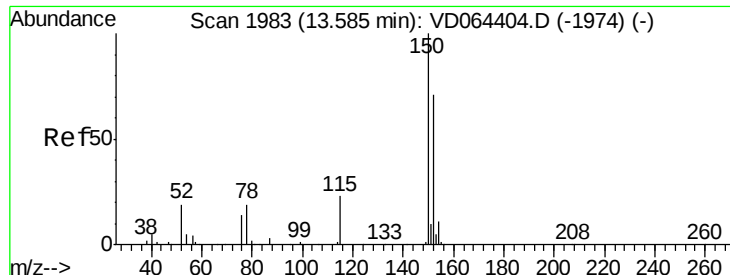
Tgt Ion: 95 Resp: 277861
Ion Ratio Lower Upper
95 100
174 96.6 0.0 197.2
176 94.4 0.0 189.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064528.D
Acq: 16 Dec 2019 17:29

Tgt Ion: 117 Resp: 639600
Ion Ratio Lower Upper
117 100
82 54.3 41.4 62.2
119 32.8 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VD064528.D

Acq: 16 Dec 2019 17:29

Instrument :

MSVOA_D

ClientSampleId :

SHORE-RD-BH-01

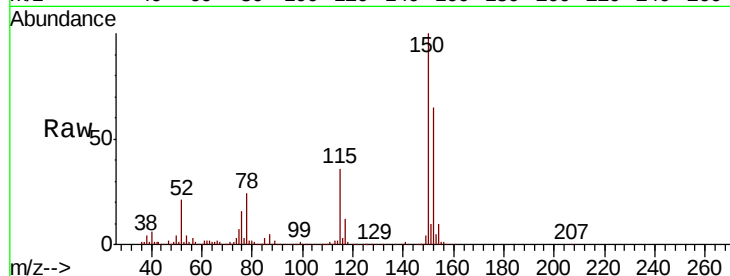
Tgt Ion:152 Resp: 313949

Ion Ratio Lower Upper

152 100

115 55.1 26.7 80.1

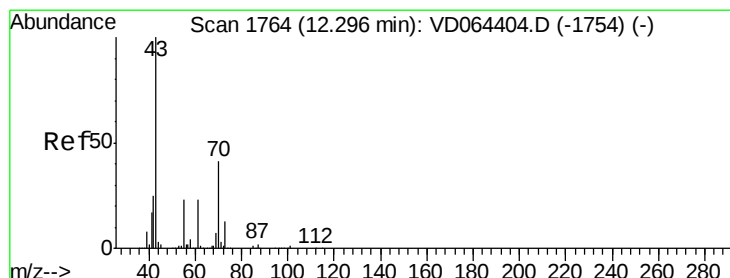
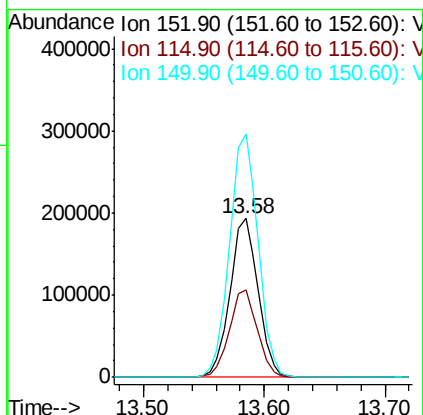
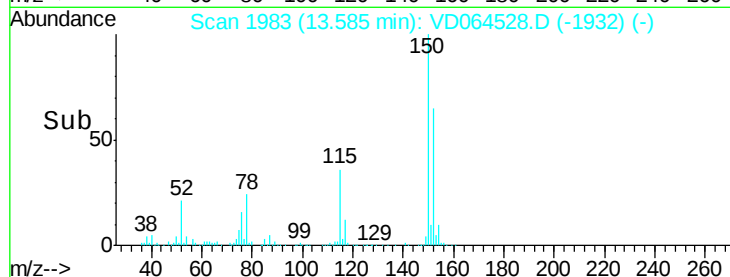
150 155.1 0.0 347.2



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



#74

N-ethyl acetate

Concen: 4.135 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD064528.D

Acq: 16 Dec 2019 17:29

Tgt Ion: 43 Resp: 21193

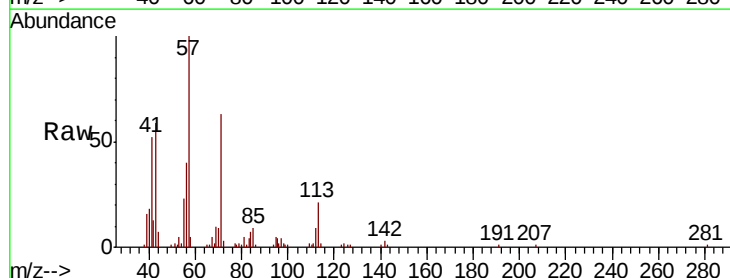
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.2#

55 0.0 18.9 28.3#

61 0.0 18.5 27.7#

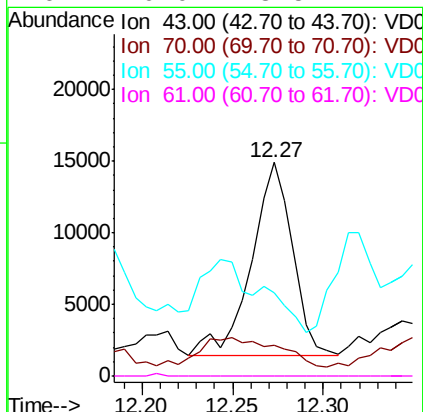
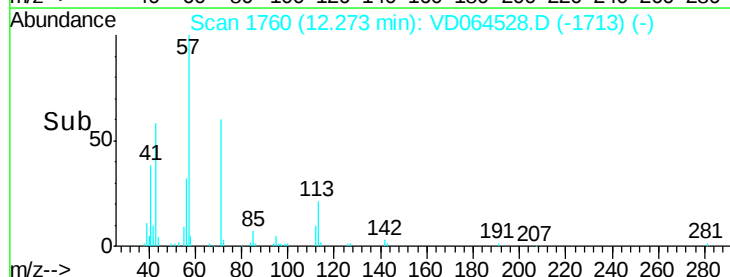


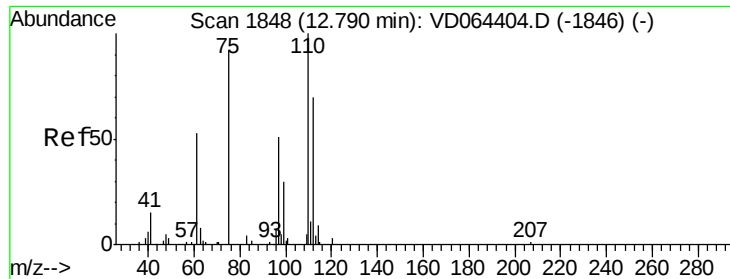
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#76

1,2,3-Trichloropropane

Concen: 56.614 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064528.D

Acq: 16 Dec 2019 17:29

Instrument :

MSVOA_D

ClientSampleId :

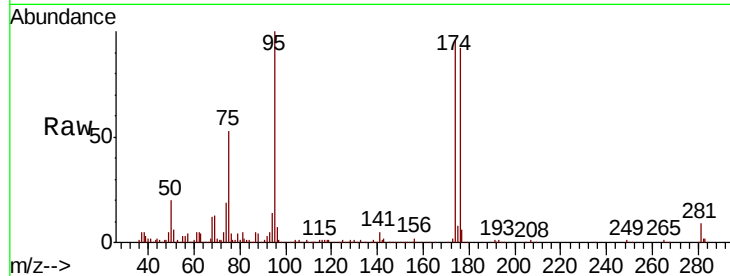
SHORE-RD-BH-01

Tgt Ion: 75 Resp: 146166

Ion Ratio Lower Upper

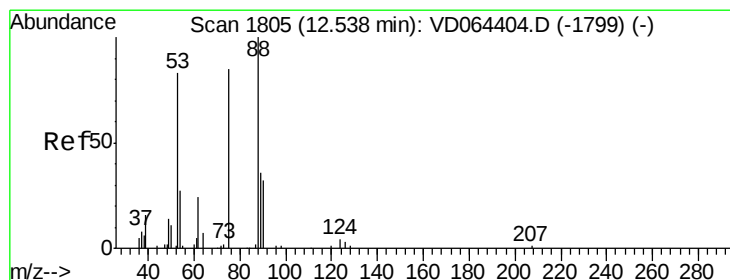
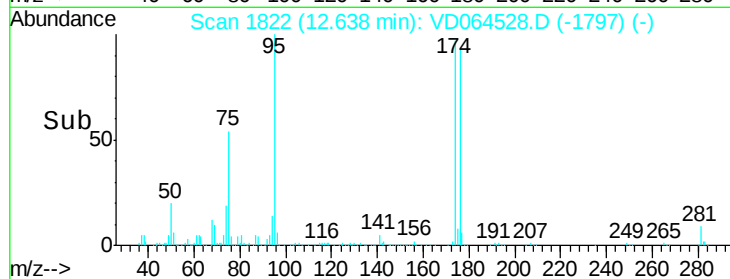
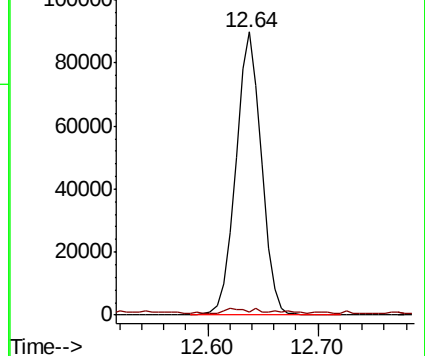
75 100

77 1.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 123.447 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064528.D

Acq: 16 Dec 2019 17:29

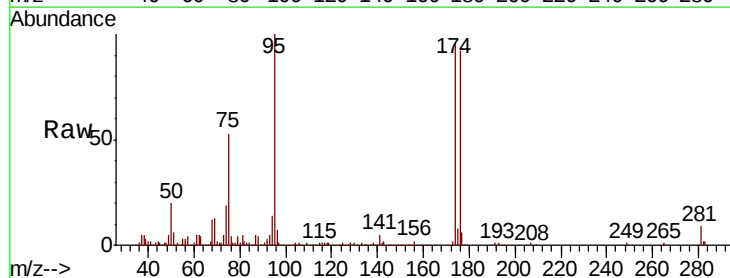
Tgt Ion: 75 Resp: 146166

Ion Ratio Lower Upper

75 100

53 0.8 81.0 121.6#

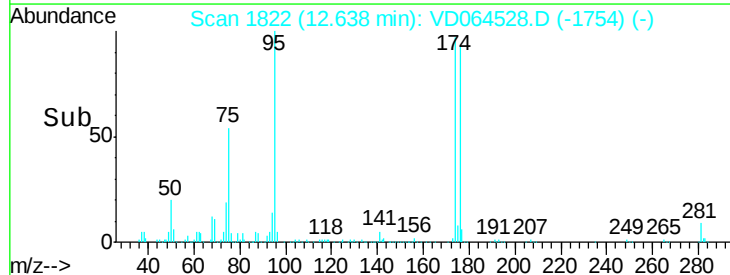
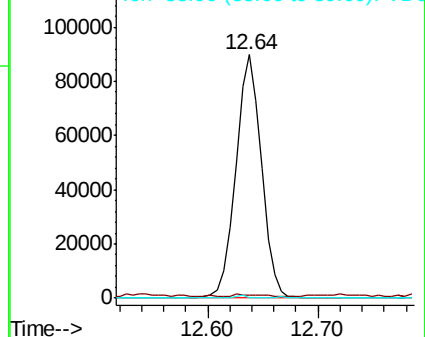
89 0.8 38.5 57.7#

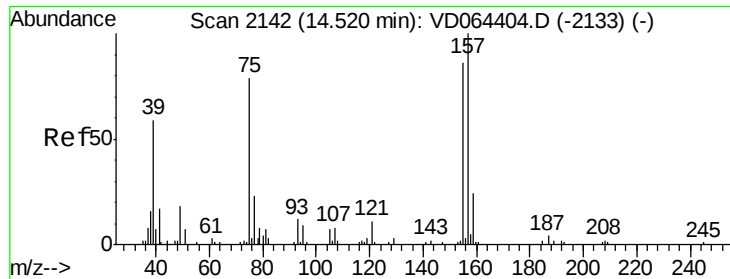


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.43 min Scan# 2127

Delta R.T. -0.09 min

Lab File: VD064528.D

Acq: 16 Dec 2019 17:29

Instrument :

MSVOA_D

ClientSampleId :

SHORE-RD-BH-01

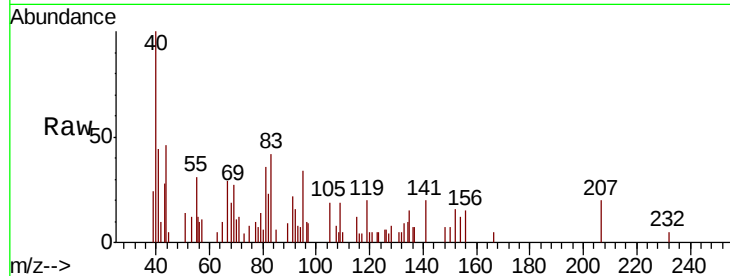
Tgt Ion: 75 Resp: 102

Ion Ratio Lower Upper

75 100

155 153.9 51.9 155.7

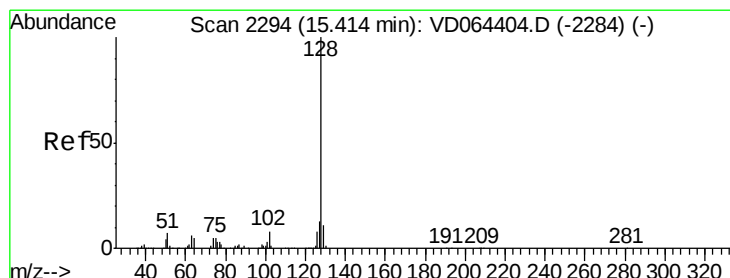
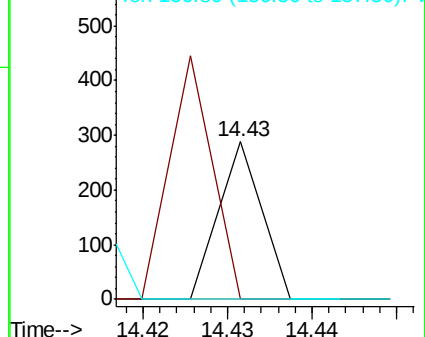
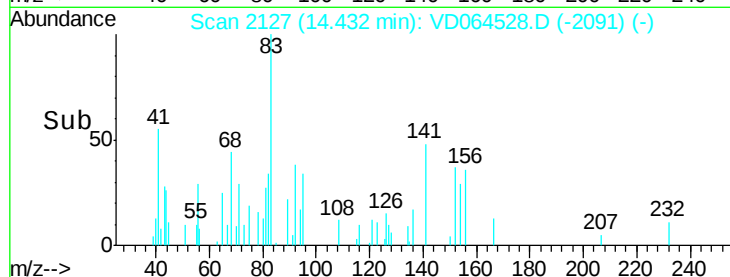
157 70.6 63.2 189.8



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: 6.406 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD064528.D

Acq: 16 Dec 2019 17:29

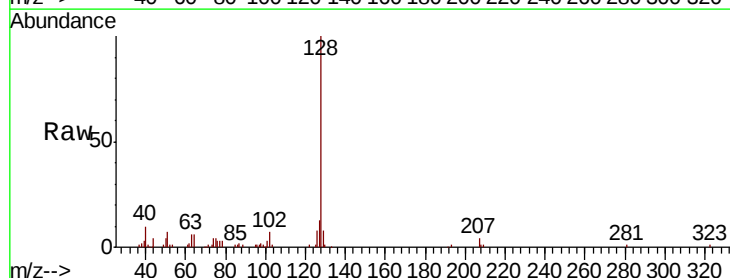
Tgt Ion: 128 Resp: 74052

Ion Ratio Lower Upper

128 100

127 14.5 10.5 15.7

129 10.9 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

