

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD121619\
 Data File : VD064530.D
 Acq On : 16 Dec 2019 18:27
 Operator : VA/SY
 Sample : K6299-05
 Misc : 4.73G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SHORE-RD-BH-02B

Quant Time: Dec 17 01:56:26 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	372594	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	595111	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	567057	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	258889	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	162375	48.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.30%	
35) Dibromofluoromethane	7.92	113	180509	48.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.28%	
50) Toluene-d8	10.34	98	715498	50.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.32%	
62) 4-Bromofluorobenzene	12.64	95	242207	53.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.72%	

Target Compounds

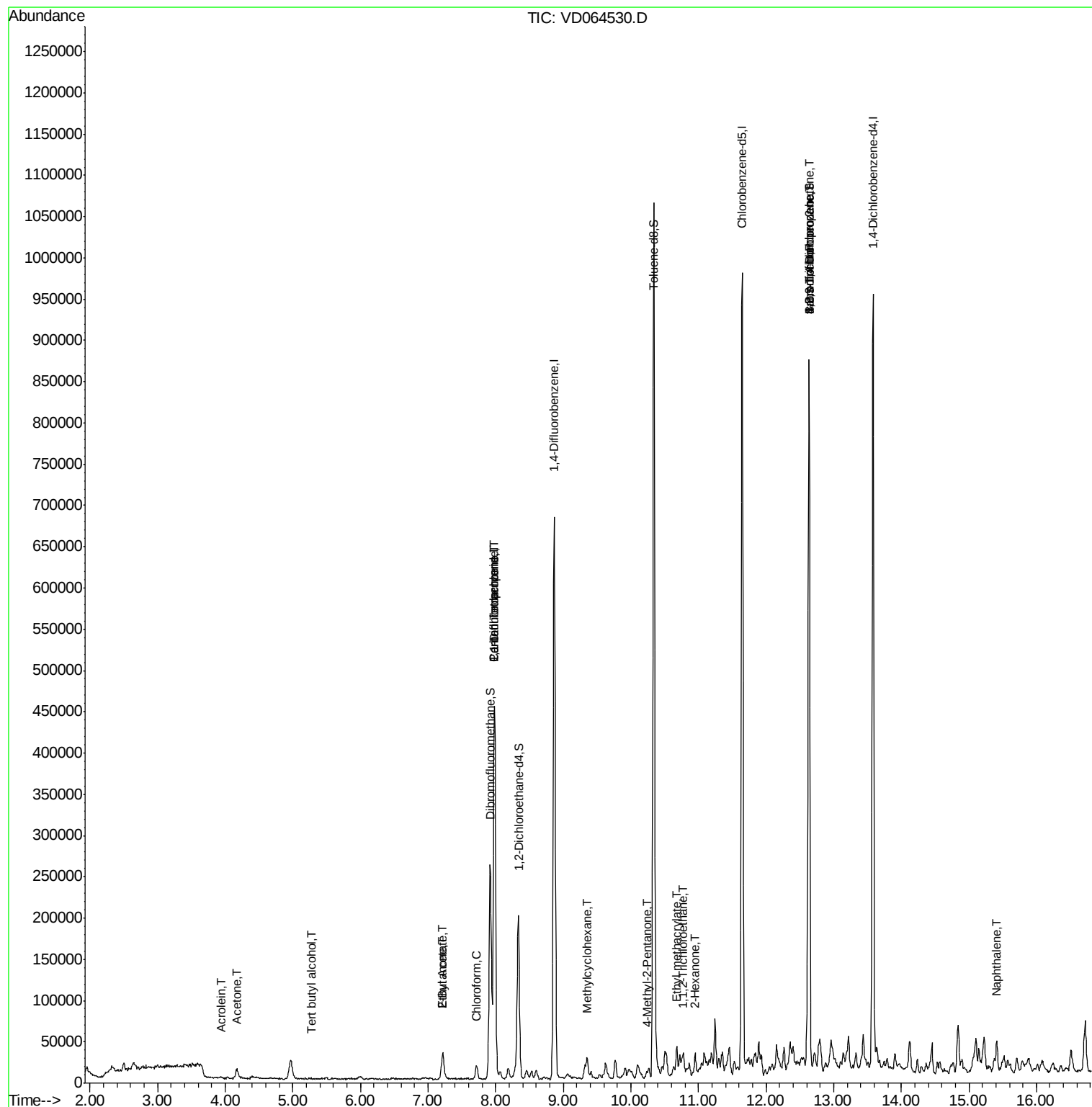
						Qvalue
11) Tert butyl alcohol	5.27	59	549	2.557	ug/l #	100
13) Acrolein	3.94	56	600	2.049	ug/l #	47
16) Acetone	4.17	43	19914	29.220	ug/l #	83
25) 2-Butanone	7.22	43	8006	8.307	ug/l #	89
30) Chloroform	7.71	83	15196	2.358	ug/l	95
31) Cyclohexane	7.98	56	8377	Below Cal	#	25
36) 1,1-Dichloropropene	7.98	75	25177	4.473	ug/l #	49
37) Ethyl Acetate	7.22	43	8006	3.352	ug/l #	82
38) Carbon Tetrachloride	7.98	117	32835	5.527	ug/l #	16
39) Methylcyclohexane	9.35	83	9784	1.401	ug/l #	80
51) 4-Methyl-2-Pentanone	10.24	43	3364	1.448	ug/l #	84
55) 1,1,2-Trichloroethane	10.77	97	8253	2.856	ug/l #	21
56) Ethyl methacrylate	10.68	69	4032	1.094	ug/l #	1
59) 2-Hexanone	10.96	43	9811	6.085	ug/l #	27
71) Bromoform	12.63	173	3061	1.169	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	128318	60.271	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	128318	131.422	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.46	75	84	Below Cal	#	1
95) Naphthalene	15.41	128	28967	3.039	ug/l	96

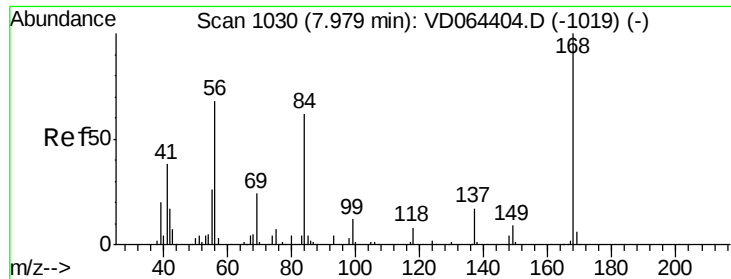
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1030

Delta R.T. 0.00 min

Lab File: VD064530.D

Acq: 16 Dec 2019 18:27

Instrument :

MSVOA_D

ClientSampleId :

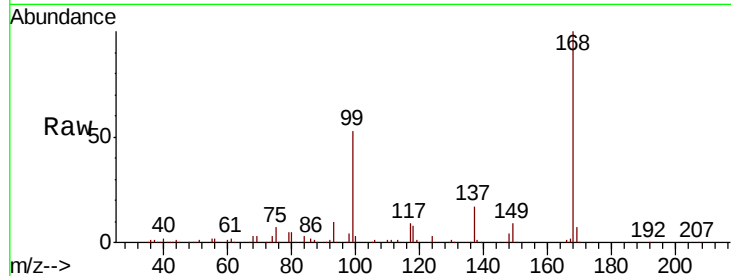
SHORE-RD-BH-02B

Tgt Ion:168 Resp: 372594

Ion Ratio Lower Upper

168 100

99 52.8 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

150000

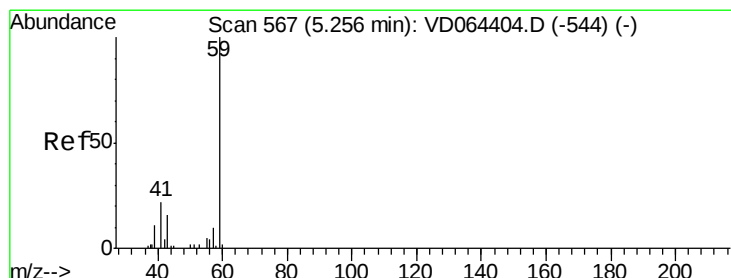
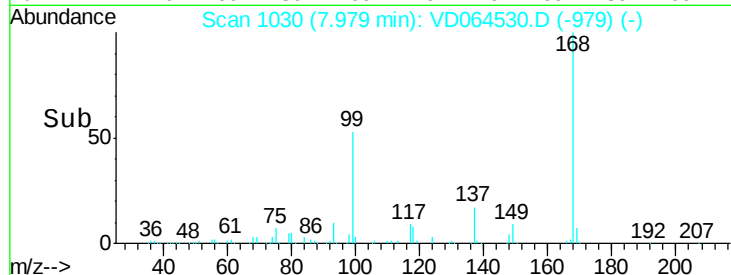
100000

50000

0

7.90 8.00 8.10

Time-->



#11

Tert butyl alcohol

Concen: 2.557 ug/l

RT: 5.27 min Scan# 569

Delta R.T. 0.01 min

Lab File: VD064530.D

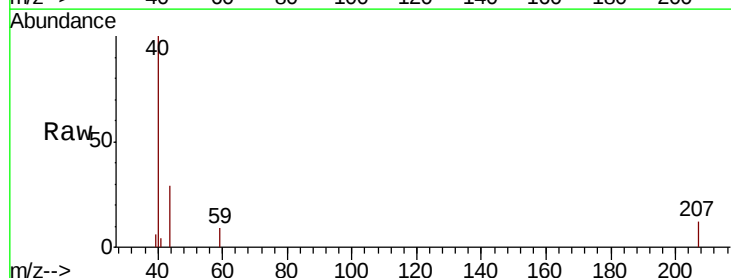
Acq: 16 Dec 2019 18:27

Tgt Ion: 59 Resp: 549

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

500

400

300

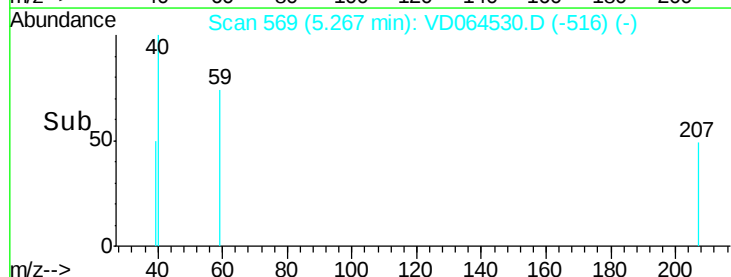
200

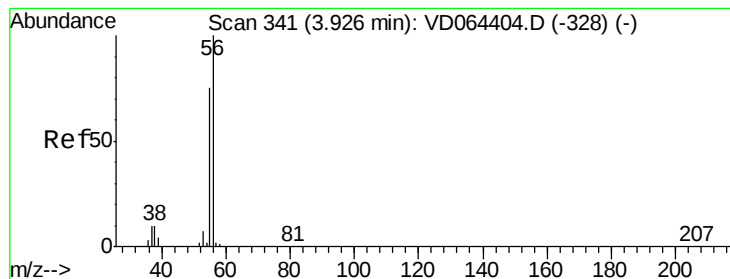
100

0

5.24 5.26 5.28 5.30

Time-->





#13

Acrolein

Concen: 2.049 ug/l

RT: 3.94 min Scan# 344

Delta R.T. 0.02 min

Lab File: VD064530.D

Acq: 16 Dec 2019 18:27

Instrument :

MSVOA_D

ClientSampleId :

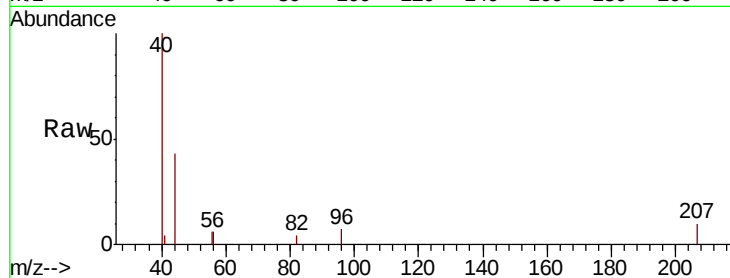
SHORE-RD-BH-02B

Tgt Ion: 56 Resp: 600

Ion Ratio Lower Upper

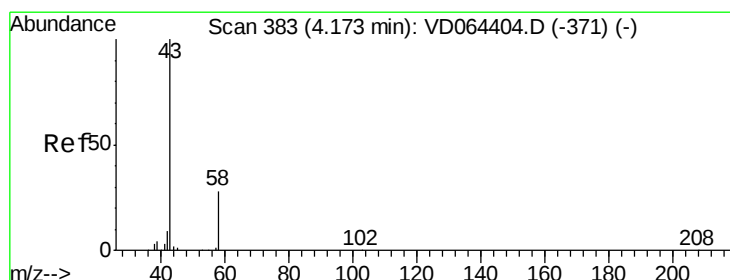
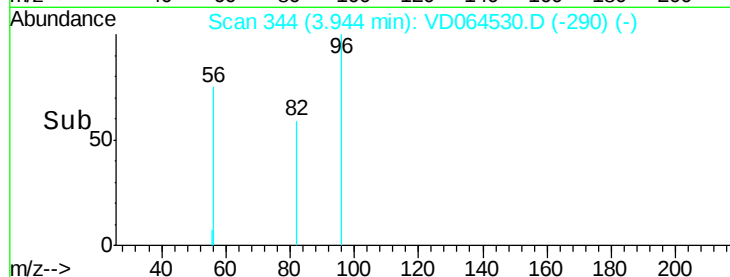
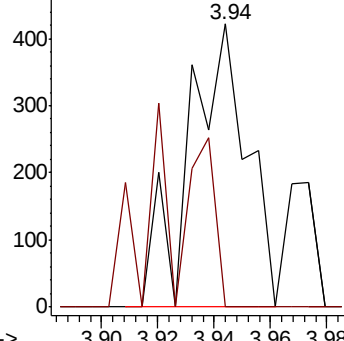
56 100

55 27.0 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 29.220 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.00 min

Lab File: VD064530.D

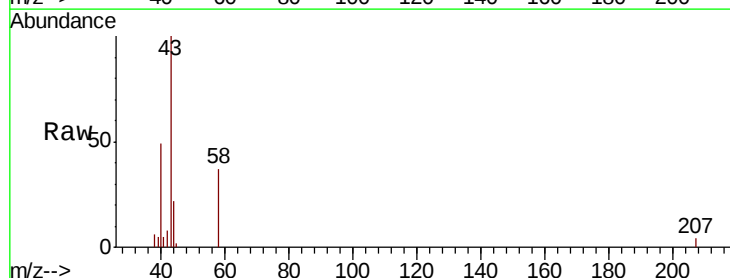
Acq: 16 Dec 2019 18:27

Tgt Ion: 43 Resp: 19914

Ion Ratio Lower Upper

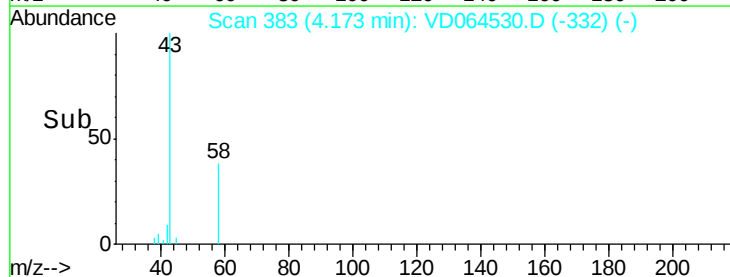
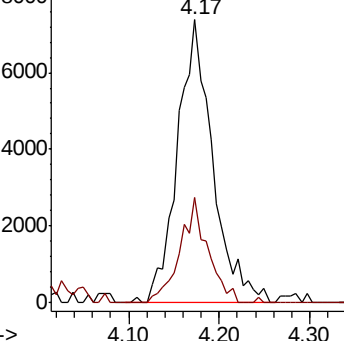
43 100

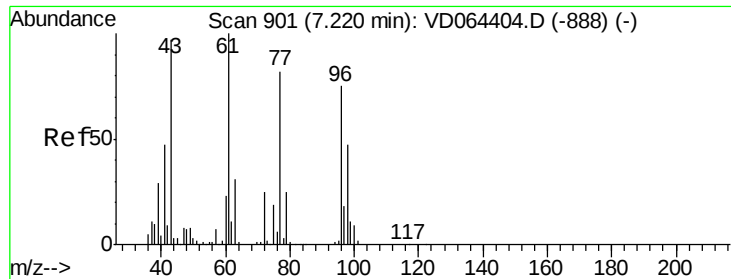
58 37.4 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#25

2-Butanone

Concen: 8.307 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064530.D

Acq: 16 Dec 2019 18:27

Instrument :

MSVOA_D

ClientSampleId :

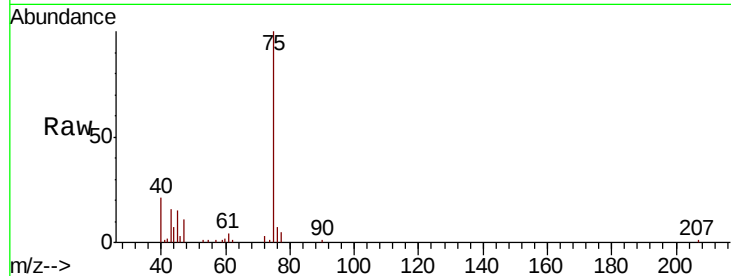
SHORE-RD-BH-02B

Tgt Ion: 43 Resp: 8006

Ion Ratio Lower Upper

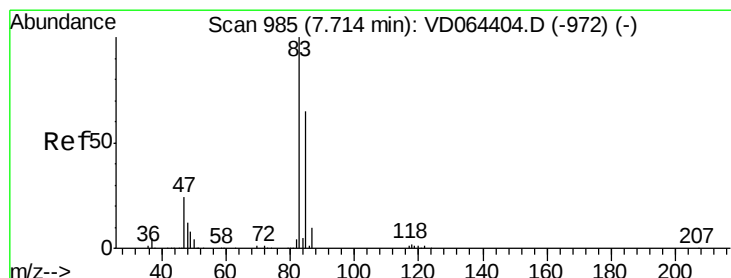
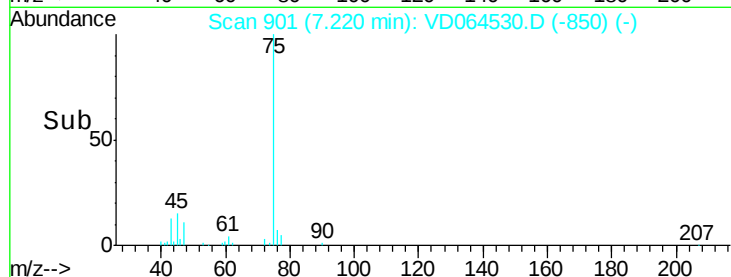
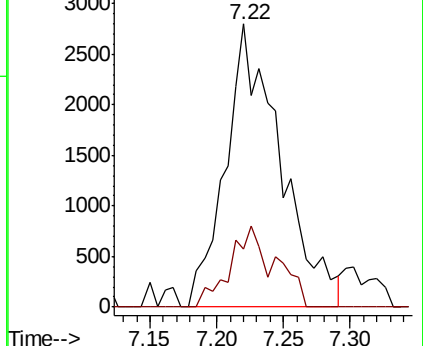
43 100

72 20.3 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#30

Chloroform

Concen: 2.358 ug/l

RT: 7.71 min Scan# 985

Delta R.T. 0.00 min

Lab File: VD064530.D

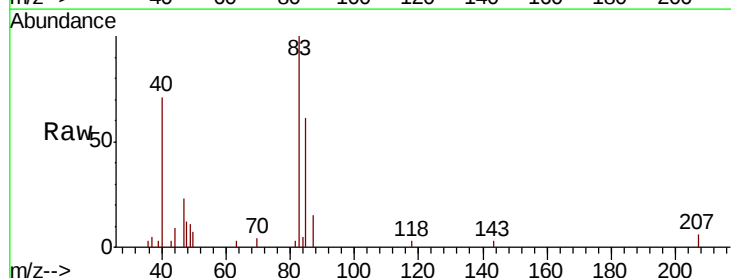
Acq: 16 Dec 2019 18:27

Tgt Ion: 83 Resp: 15196

Ion Ratio Lower Upper

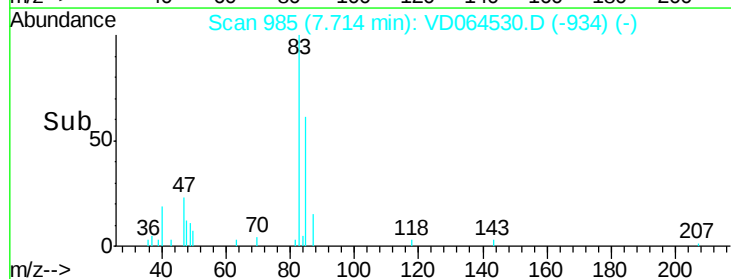
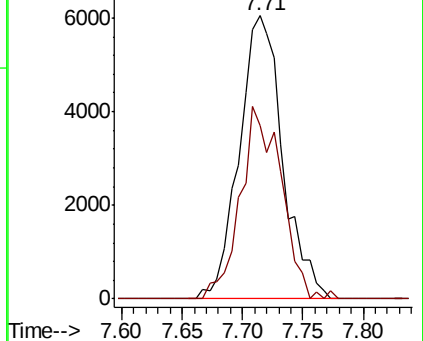
83 100

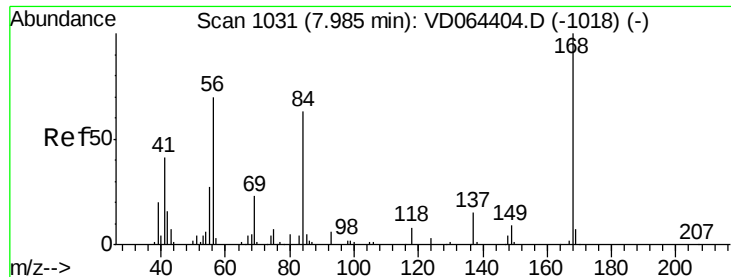
85 61.1 51.8 77.6



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

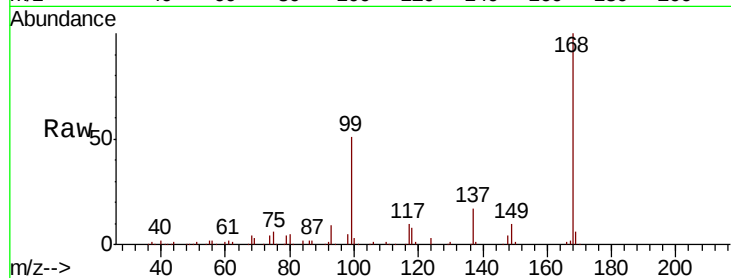




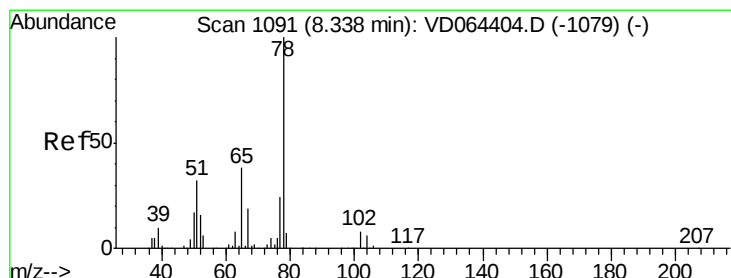
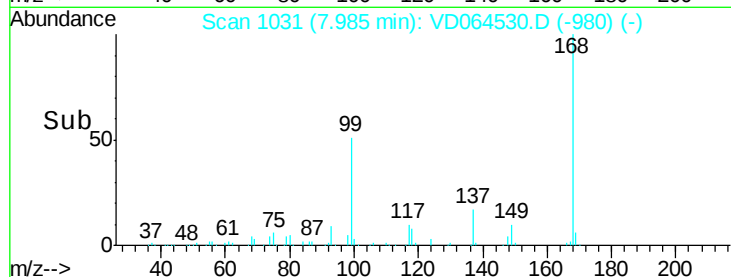
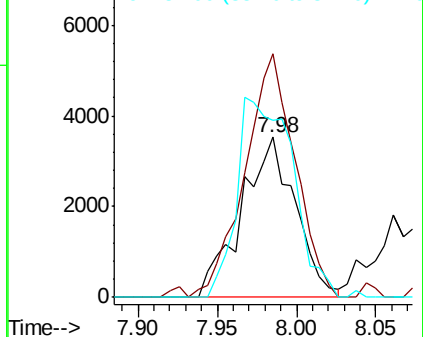
#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064530.D
Acq: 16 Dec 2019 18:27

Instrument :
MSVOA_D
ClientSampleId :
SHORE-RD-BH-02B

Tgt Ion: 56 Resp: 8377
Ion Ratio Lower Upper
56 100
69 151.9 26.2 39.4#
84 110.8 70.3 105.5#

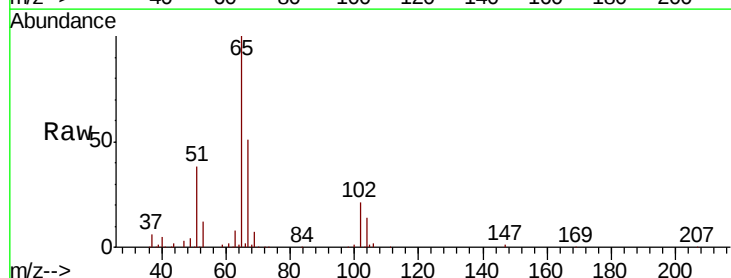


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

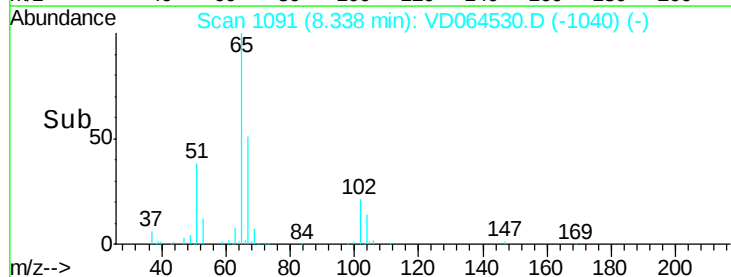
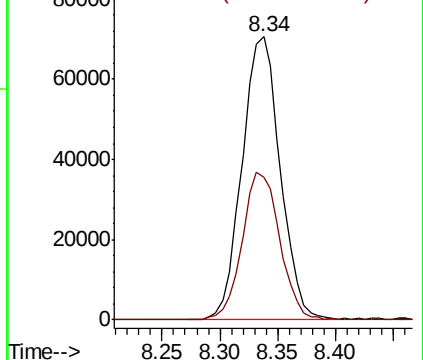


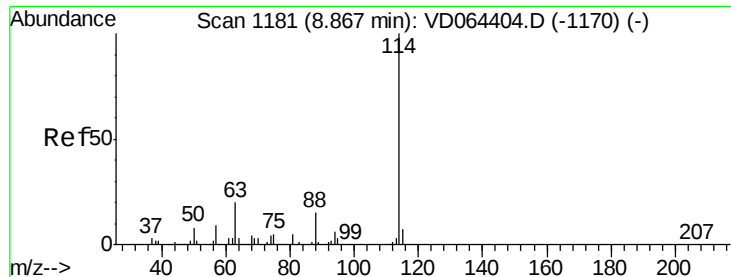
#33
1,2-Dichloroethane-d4
Concen: 48.146 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD064530.D
Acq: 16 Dec 2019 18:27

Tgt Ion: 65 Resp: 162375
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

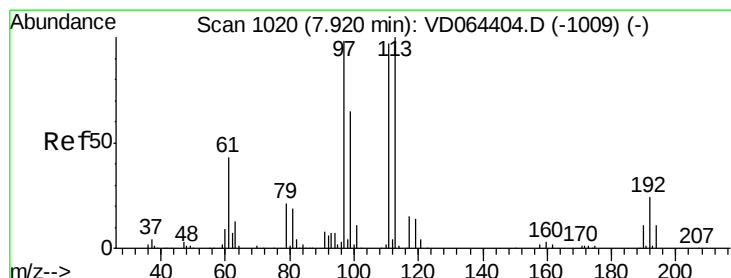
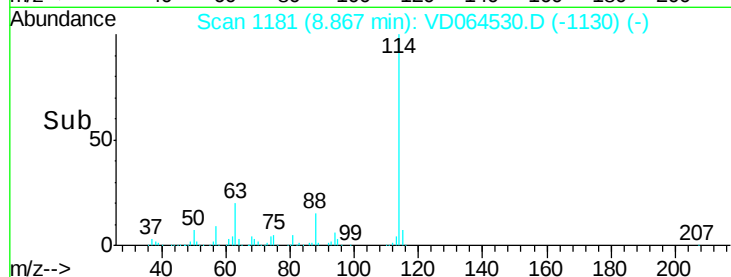
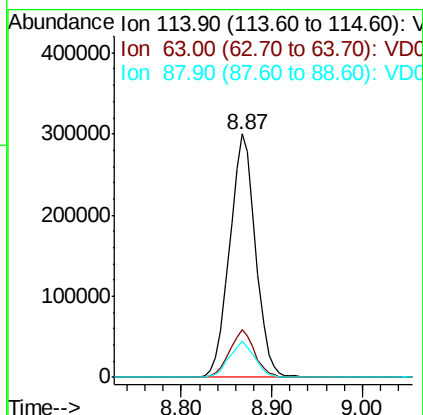
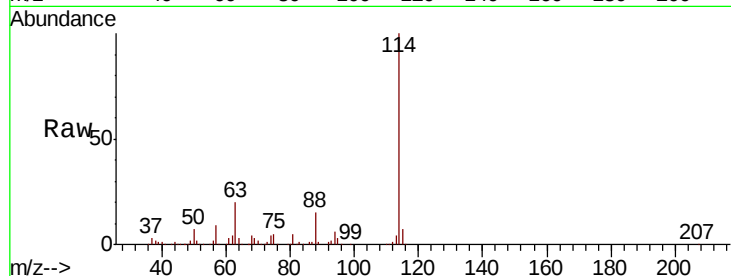




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064530.D
 Acq: 16 Dec 2019 18:27

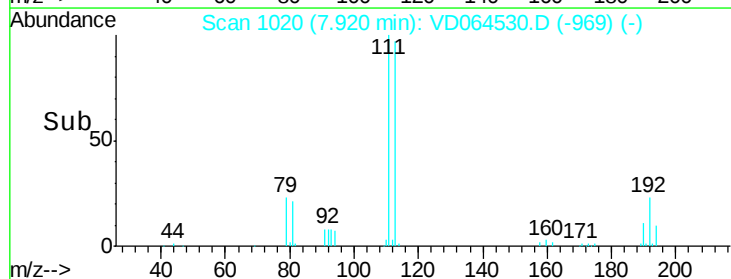
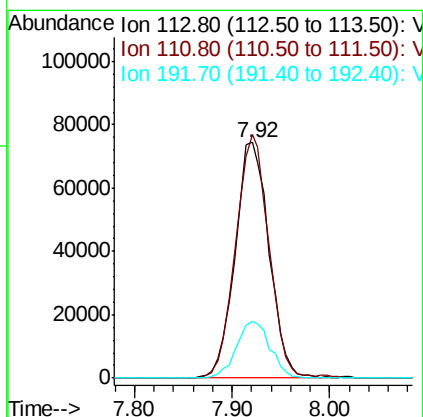
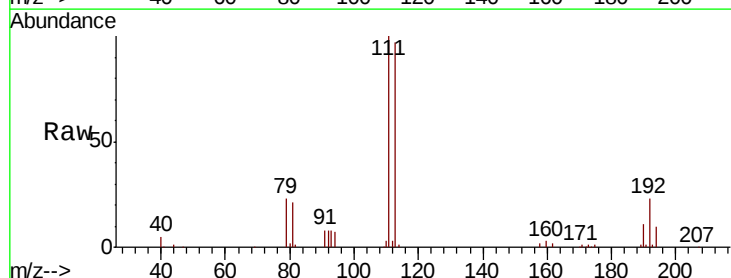
Instrument :
 MSVOA_D
 ClientSampleId :
 SHORE-RD-BH-02B

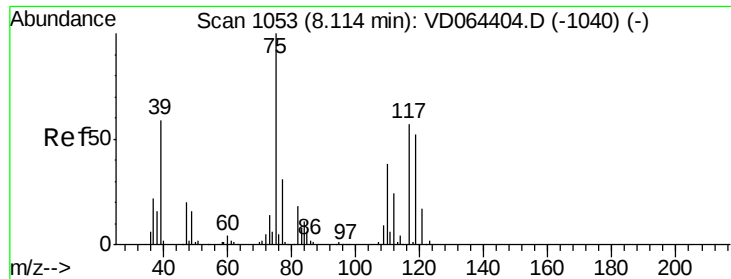
Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	40.0
88	15.1	0.0	29.2



#35
 Dibromofluoromethane
 Concen: 48.142 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064530.D
 Acq: 16 Dec 2019 18:27

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	79.4	119.2
192	23.9	18.6	28.0

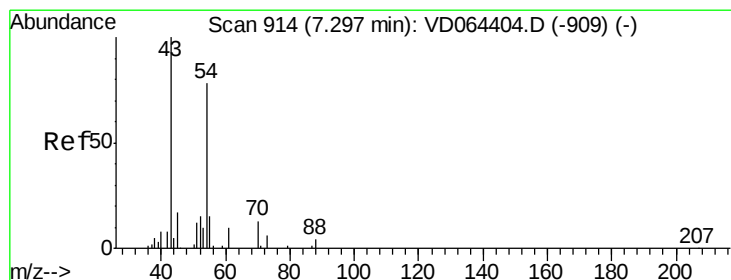
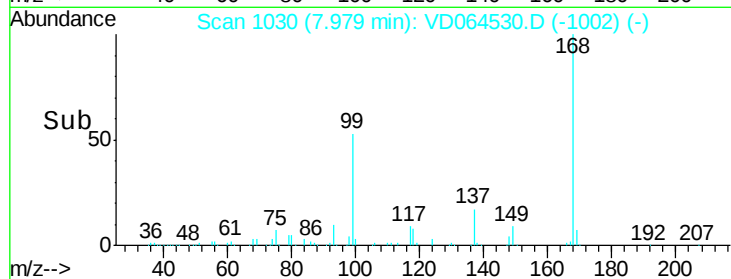
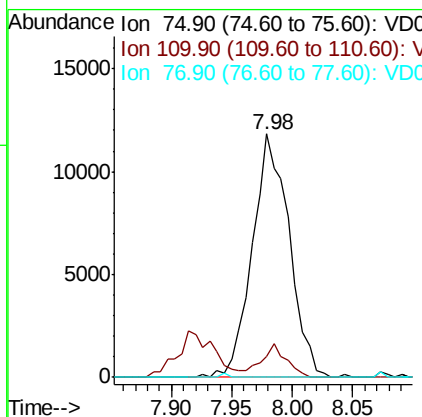
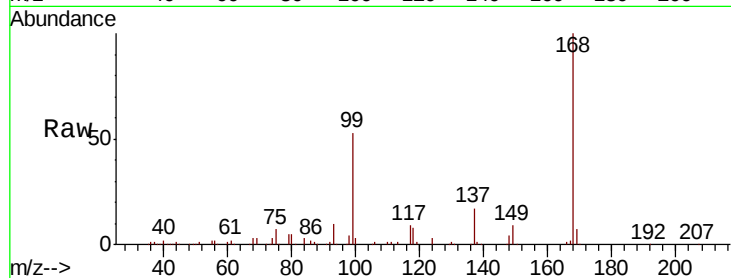




#36
 1,1-Dichloropropene
 Concen: 4.473 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064530.D
 Acq: 16 Dec 2019 18:27

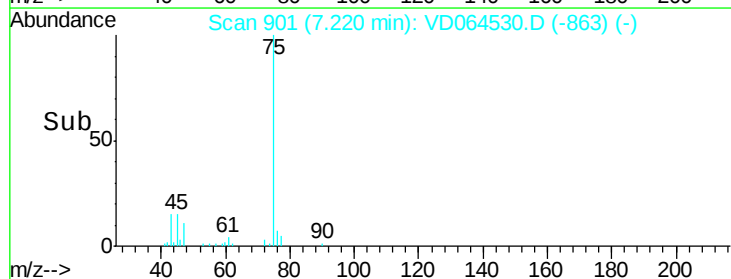
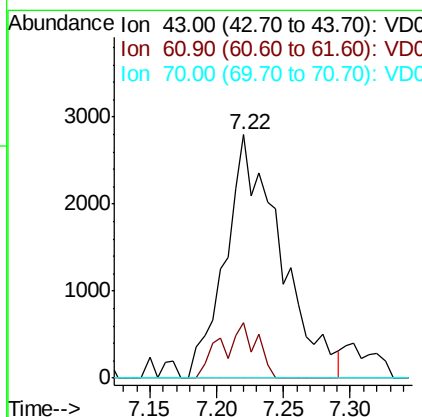
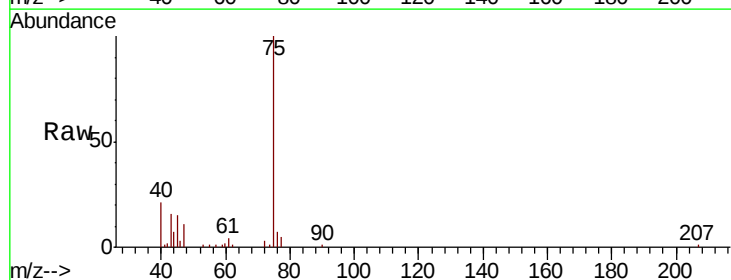
Instrument :
 MSVOA_D
 ClientSampleId :
 SHORE-RD-BH-02B

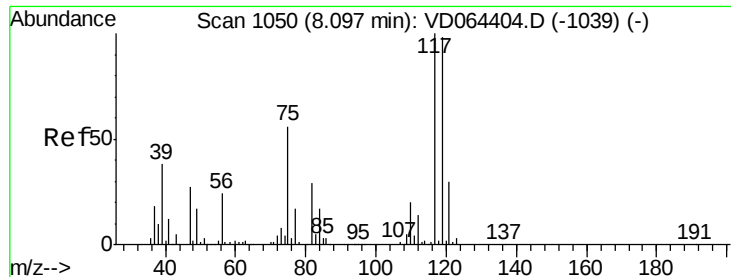
Tgt Ion: 75 Resp: 25177
 Ion Ratio Lower Upper
 75 100
 110 9.1 18.6 55.8#
 77 0.0 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 3.352 ug/l
 RT: 7.22 min Scan# 901
 Delta R.T. -0.08 min
 Lab File: VD064530.D
 Acq: 16 Dec 2019 18:27

Tgt Ion: 43 Resp: 8006
 Ion Ratio Lower Upper
 43 100
 61 9.2 10.9 16.3#
 70 0.0 8.3 12.5#

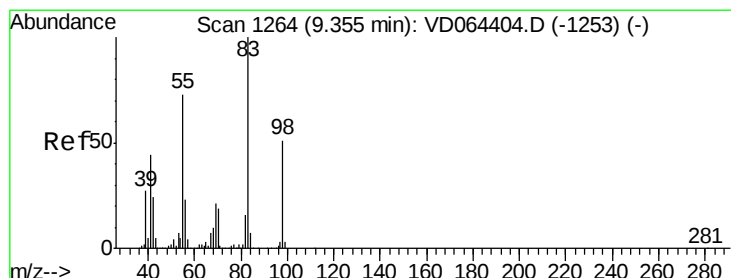
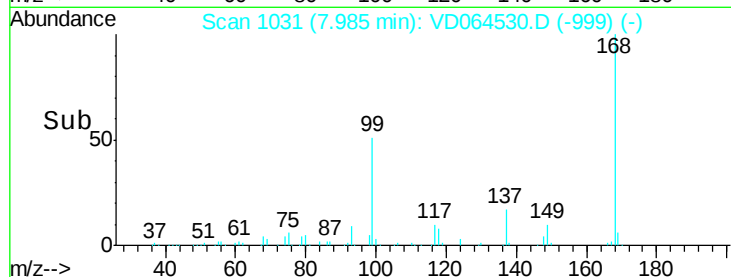
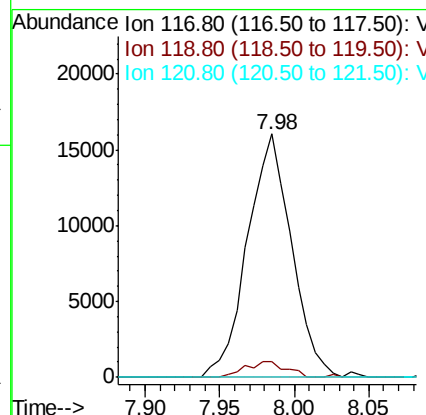
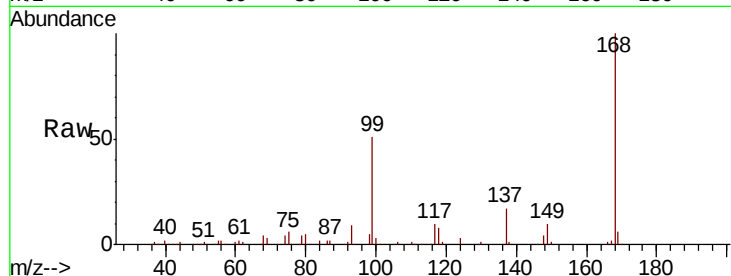




#38
Carbon Tetrachloride
Concen: 5.527 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064530.D
Acq: 16 Dec 2019 18:27

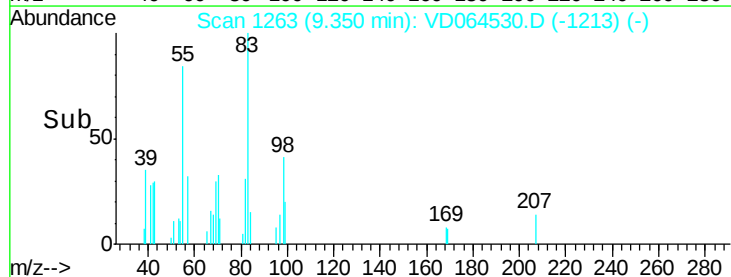
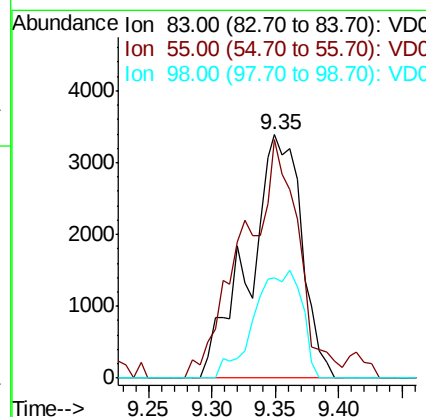
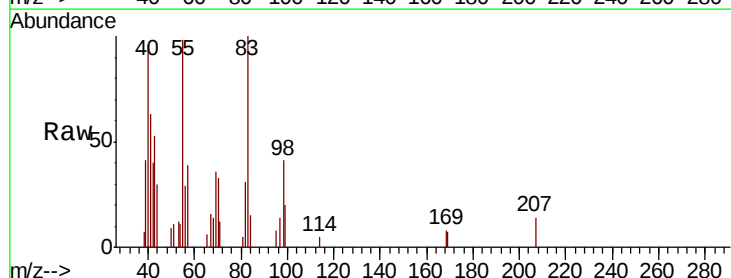
Instrument :
MSVOA_D
ClientSampleId :
SHORE-RD-BH-02B

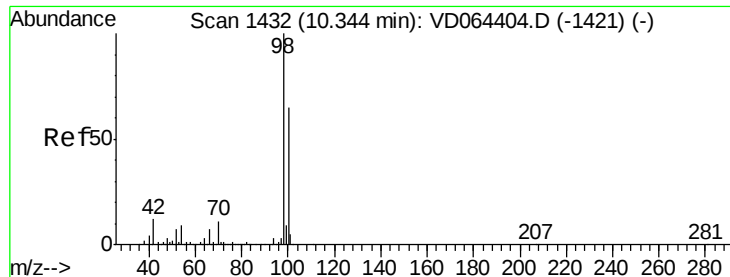
Tgt Ion: 117 Resp: 32835
Ion Ratio Lower Upper
117 100
119 6.4 78.8 118.2#
121 0.0 24.2 36.2#



#39
Methylcyclohexane
Concen: 1.401 ug/l
RT: 9.35 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VD064530.D
Acq: 16 Dec 2019 18:27

Tgt Ion: 83 Resp: 9784
Ion Ratio Lower Upper
83 100
55 93.6 58.6 87.8#
98 41.1 40.9 61.3





#50

Toluene-d8

Concen: 50.659 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064530.D

Acq: 16 Dec 2019 18:27

Instrument :

MSVOA_D

ClientSampleId :

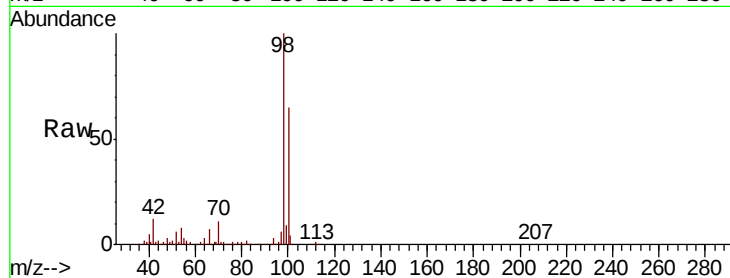
SHORE-RD-BH-02B

Tgt Ion: 98 Resp: 715498

Ion Ratio Lower Upper

98 100

100 64.2 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

400000

300000

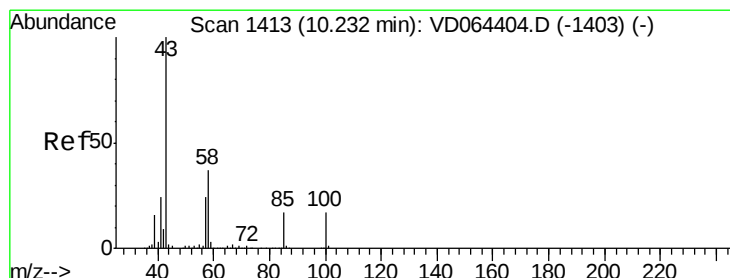
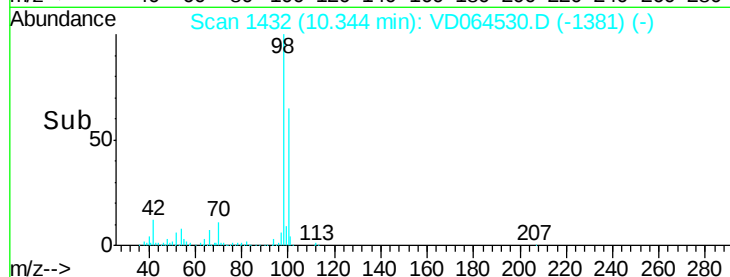
200000

100000

0

10.30 10.40

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.448 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. 0.01 min

Lab File: VD064530.D

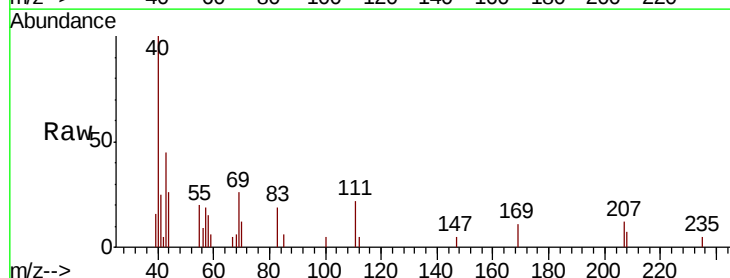
Acq: 16 Dec 2019 18:27

Tgt Ion: 43 Resp: 3364

Ion Ratio Lower Upper

43 100

58 28.4 30.6 46.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

3000

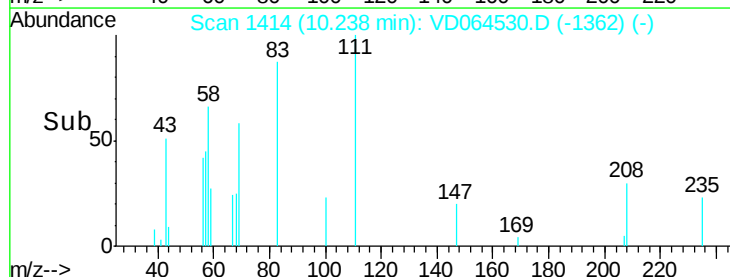
2000

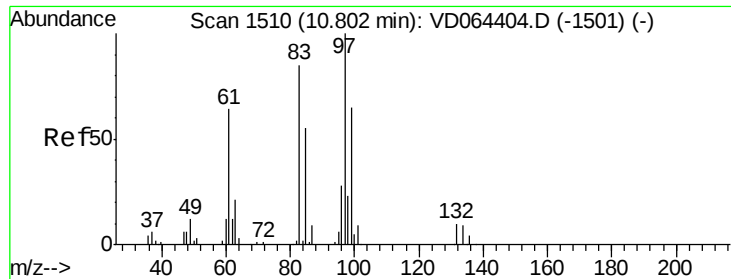
1000

0

10.20 10.25 10.30

Time-->

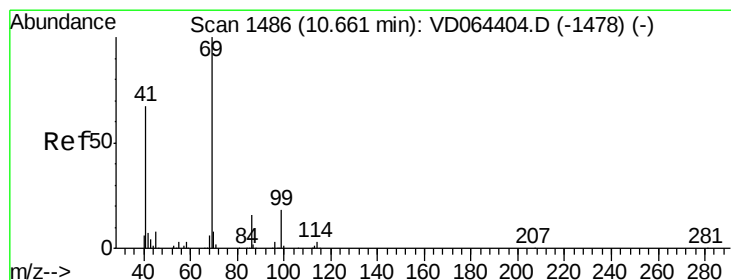
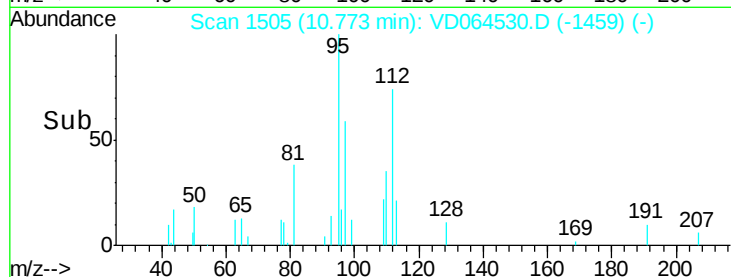
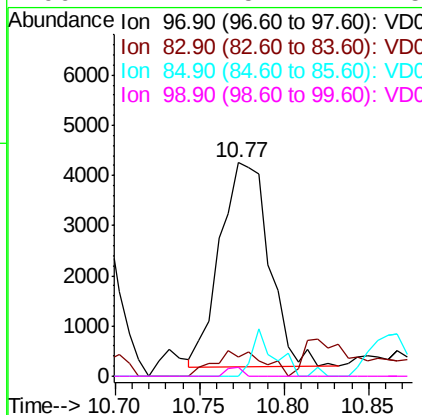
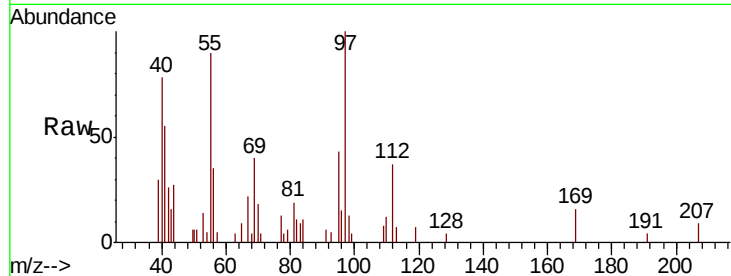




#55
 1,1,2-Trichloroethane
 Concen: 2.856 ug/l
 RT: 10.77 min Scan# 1505
 Delta R.T. -0.03 min
 Lab File: VD064530.D
 Acq: 16 Dec 2019 18:27

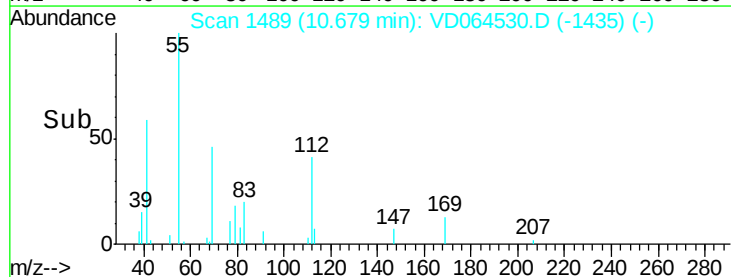
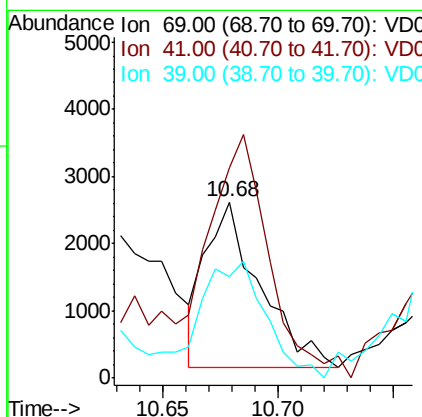
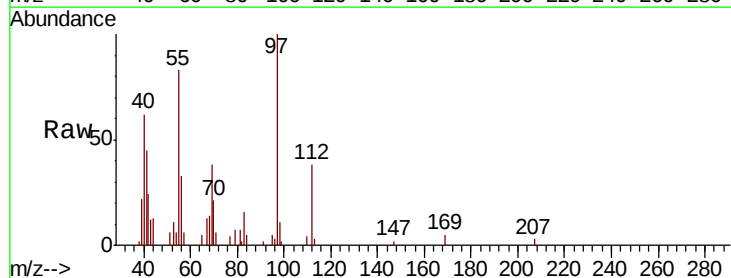
Instrument :
 MSVOA_D
 ClientSampleId :
 SHORE-RD-BH-02B

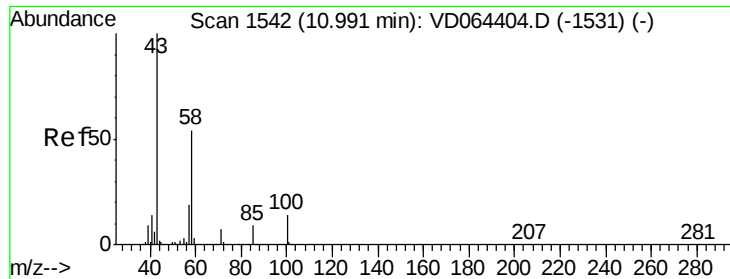
Tgt Ion: 97 Resp: 8253
 Ion Ratio Lower Upper
 97 100
 83 9.4 67.8 101.8#
 85 0.0 43.7 65.5#
 99 4.2 51.7 77.5#



#56
 Ethyl methacrylate
 Concen: 1.094 ug/l
 RT: 10.68 min Scan# 1489
 Delta R.T. 0.02 min
 Lab File: VD064530.D
 Acq: 16 Dec 2019 18:27

Tgt Ion: 69 Resp: 4032
 Ion Ratio Lower Upper
 69 100
 41 164.6 55.0 82.4#
 39 85.0 33.0 49.6#





#59

2-Hexanone

Concen: 6.085 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. -0.04 min

Lab File: VD064530.D

Acq: 16 Dec 2019 18:27

Instrument :

MSVOA_D

ClientSampleId :

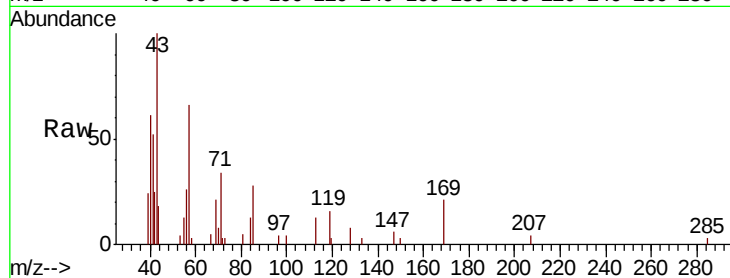
SHORE-RD-BH-02B

Tgt Ion: 43 Resp: 9811

Ion Ratio Lower Upper

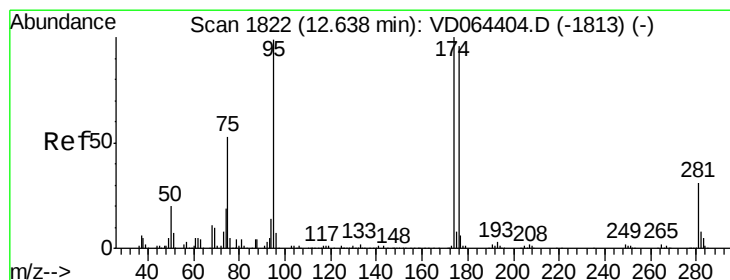
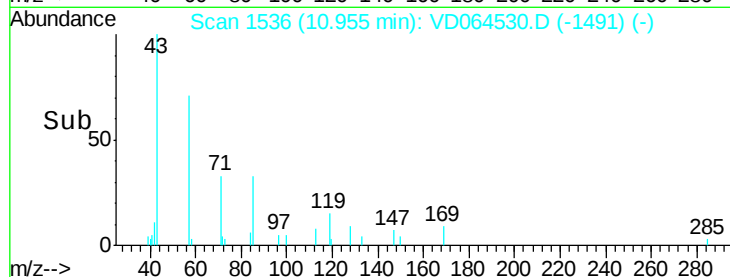
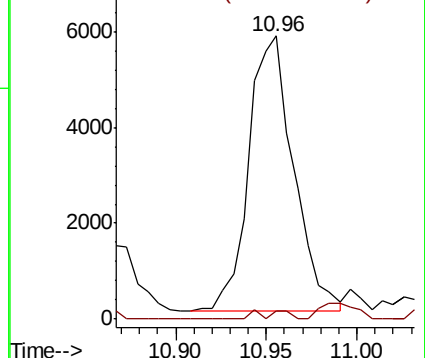
43 100

58 1.2 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: 53.361 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064530.D

Acq: 16 Dec 2019 18:27

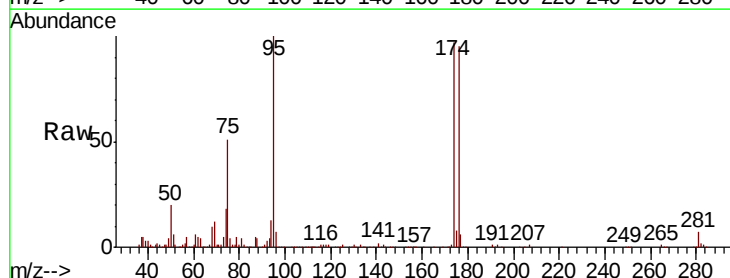
Tgt Ion: 95 Resp: 242207

Ion Ratio Lower Upper

95 100

174 97.4 0.0 197.2

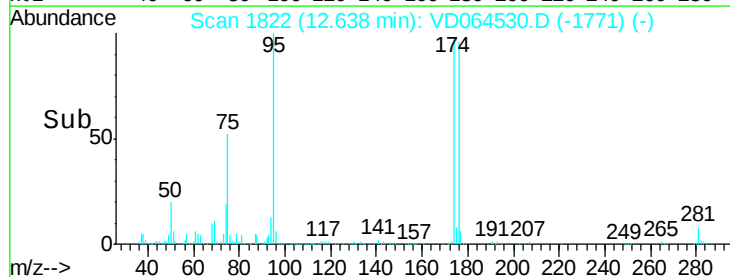
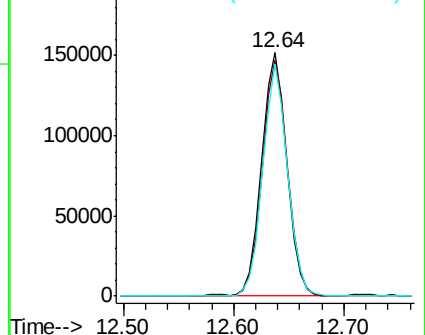
176 94.0 0.0 189.6

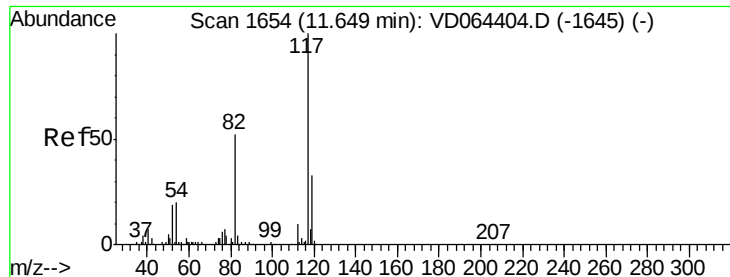


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

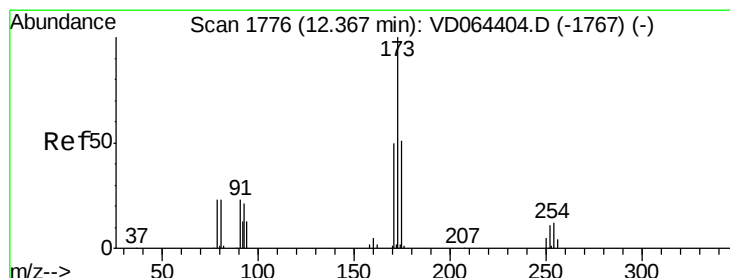
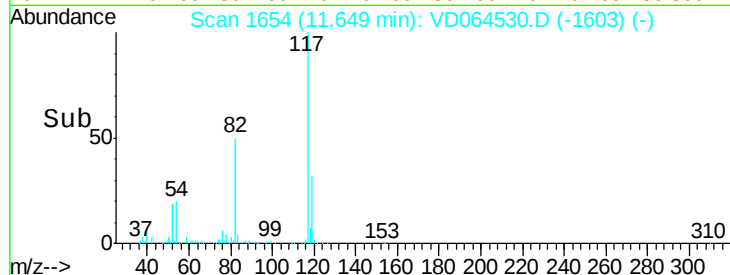
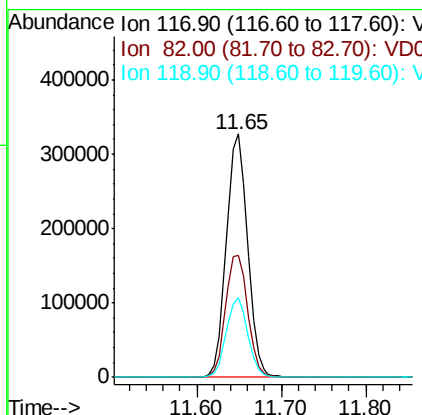
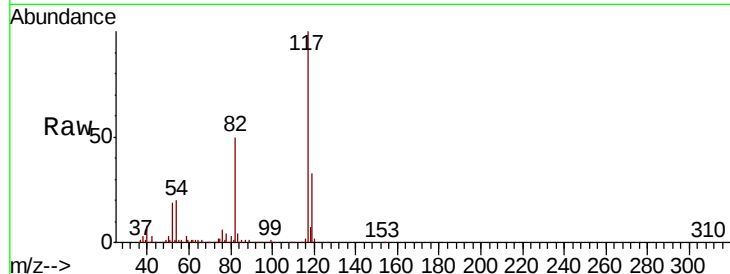




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064530.D
Acq: 16 Dec 2019 18:27

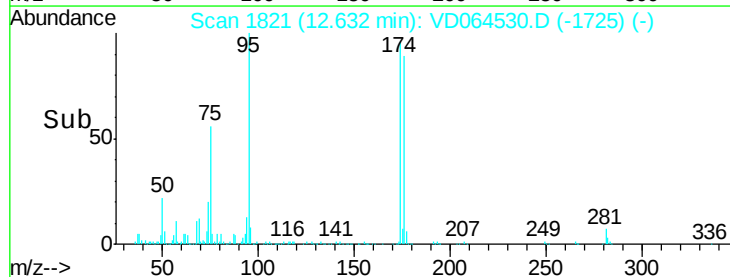
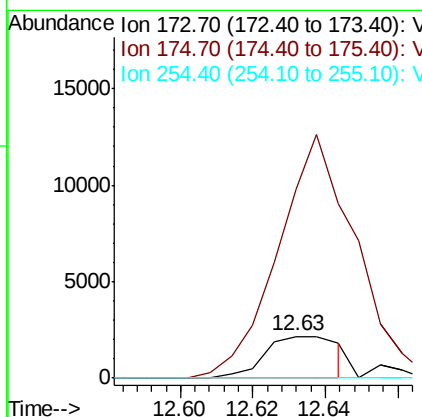
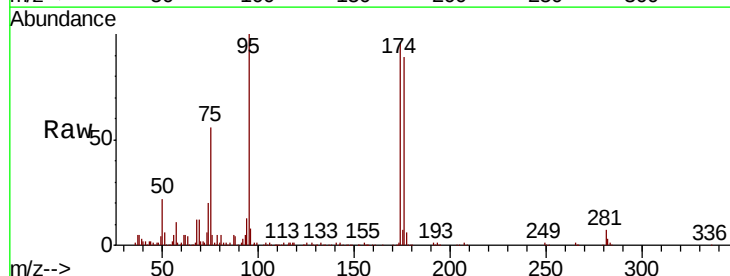
Instrument :
MSVOA_D
ClientSampleId :
SHORE-RD-BH-02B

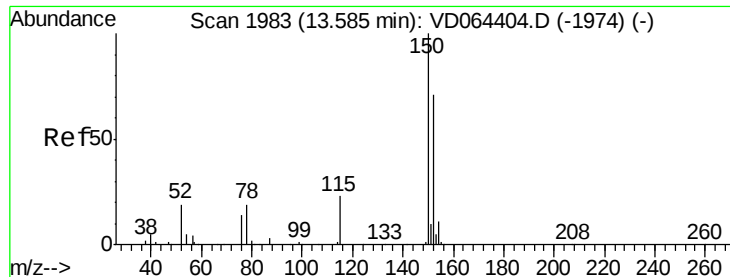
Tgt Ion:117 Resp: 567057
Ion Ratio Lower Upper
117 100
82 50.2 41.4 62.2
119 32.8 26.2 39.2



#71
Bromoform
Concen: 1.169 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.26 min
Lab File: VD064530.D
Acq: 16 Dec 2019 18:27

Tgt Ion:173 Resp: 3061
Ion Ratio Lower Upper
173 100
175 479.4 25.3 75.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064530.D

Acq: 16 Dec 2019 18:27

Instrument :

MSVOA_D

ClientSampleId :

SHORE-RD-BH-02B

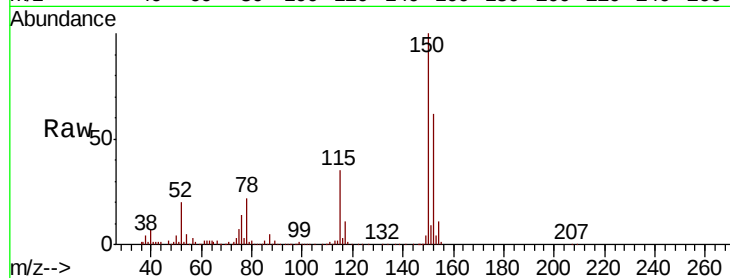
Tgt Ion:152 Resp: 258889

Ion Ratio Lower Upper

152 100

115 54.4 26.7 80.1

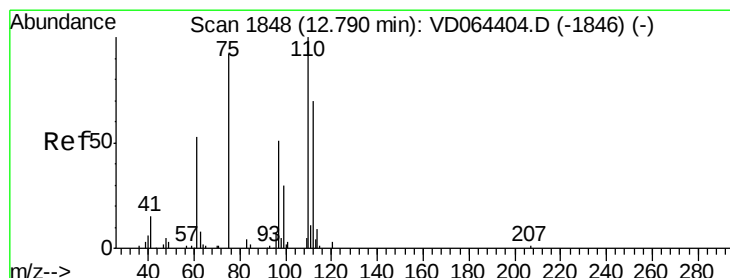
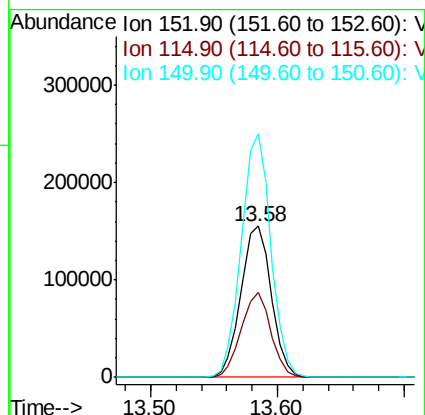
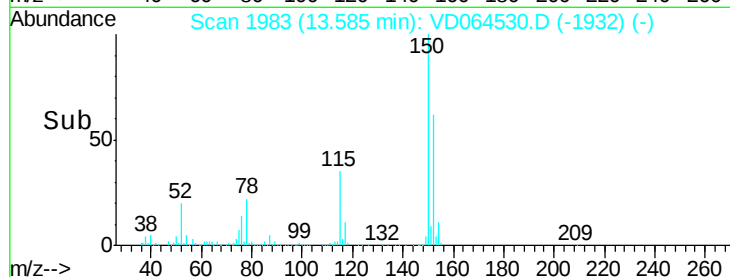
150 156.1 0.0 347.2



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: 60.271 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064530.D

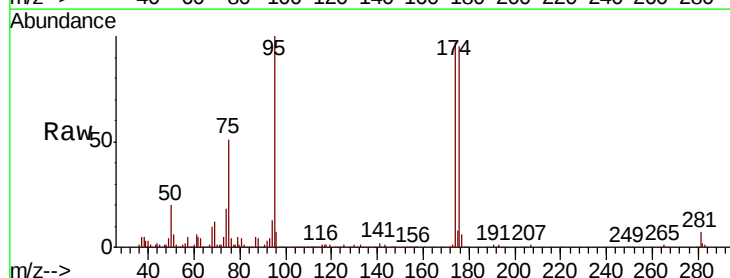
Acq: 16 Dec 2019 18:27

Tgt Ion: 75 Resp: 128318

Ion Ratio Lower Upper

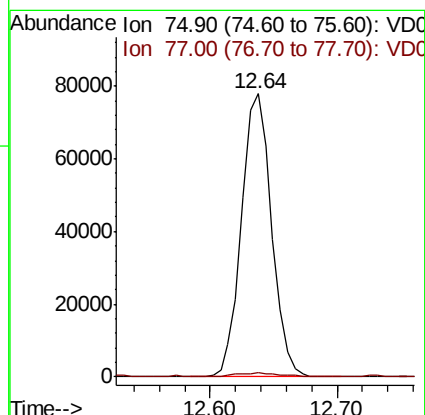
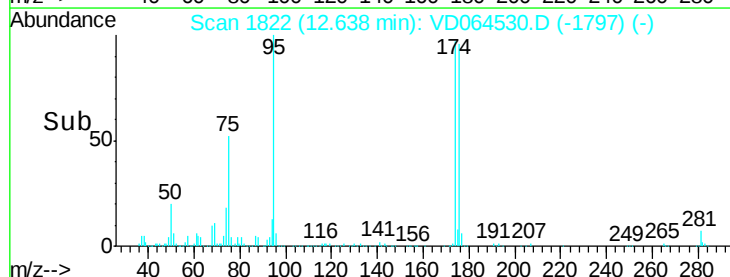
75 100

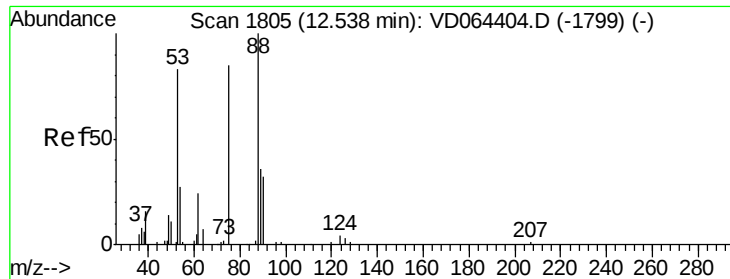
77 2.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 131.422 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064530.D

Acq: 16 Dec 2019 18:27

Instrument :

MSVOA_D

ClientSampleId :

SHORE-RD-BH-02B

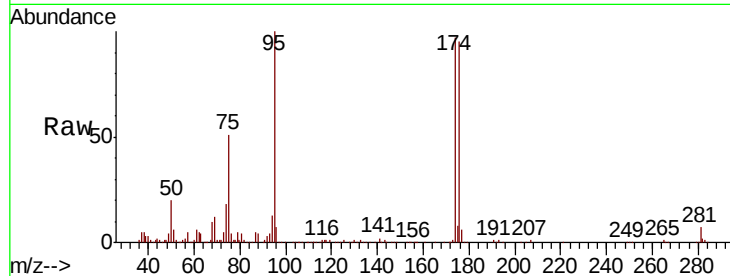
Tgt Ion: 75 Resp: 128318

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

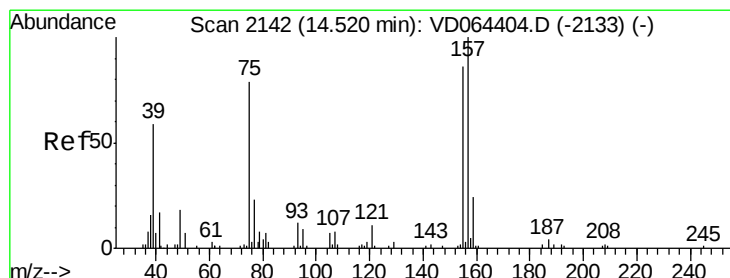
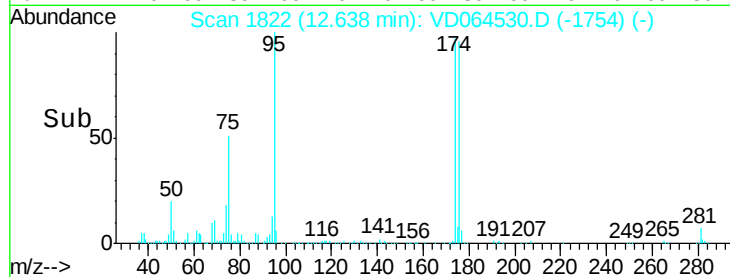
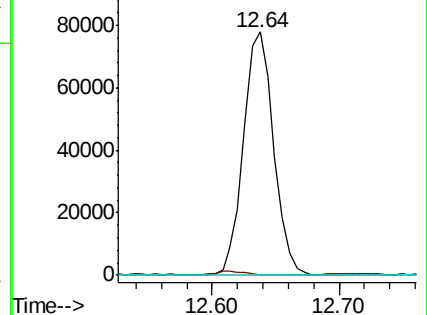
89 0.1 38.5 57.7#



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: 14.46 min Scan# 2132

Delta R.T. -0.06 min

Lab File: VD064530.D

Acq: 16 Dec 2019 18:27

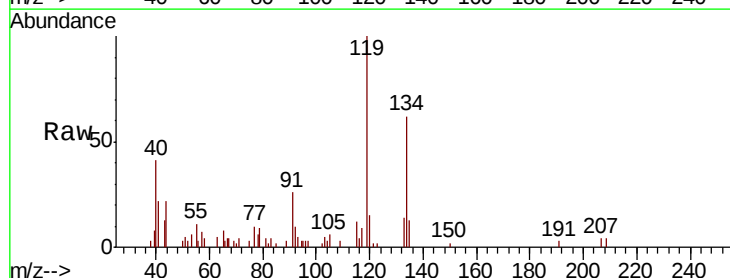
Tgt Ion: 75 Resp: 84

Ion Ratio Lower Upper

75 100

155 0.0 51.9 155.7#

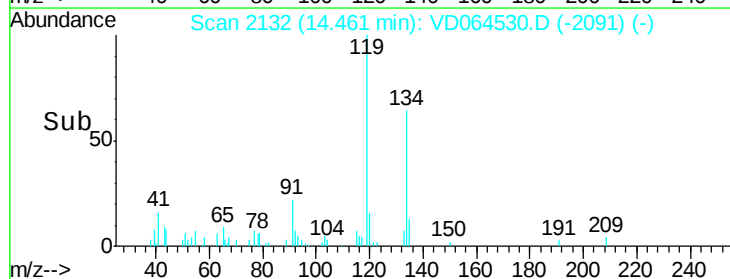
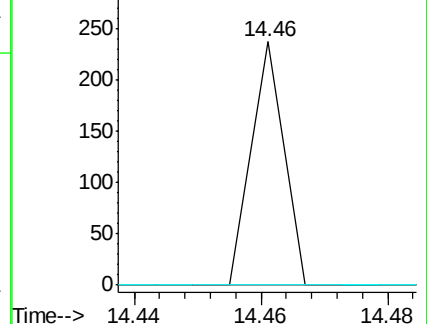
157 0.0 63.2 189.8#

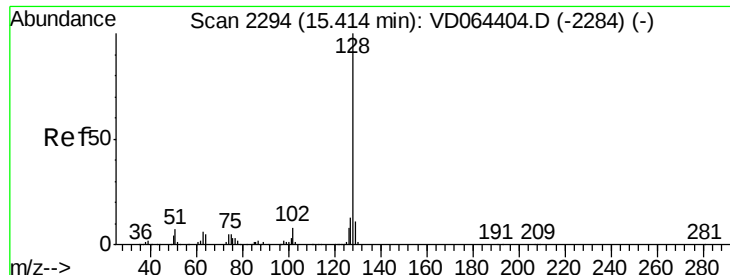


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 3.039 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD064530.D

Acq: 16 Dec 2019 18:27

Instrument :

MSVOA_D

ClientSampleId :

SHORE-RD-BH-02B

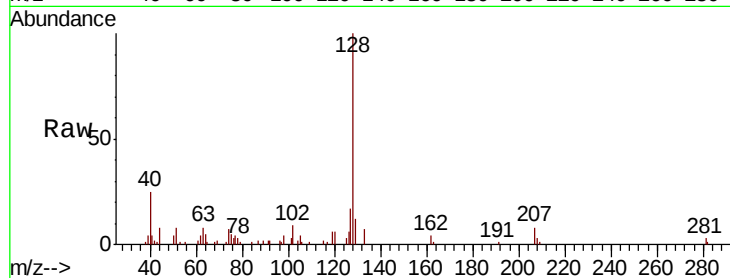
Tgt Ion:128 Resp: 28967

Ion Ratio Lower Upper

128 100

127 14.3 10.5 15.7

129 12.6 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

