

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051576.D
 Acq On : 27 Sep 2018 11:49
 Operator : MD\SY
 Sample : J4773-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-092518-C

Quant Time: Sep 27 12:19:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	637079	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1037922	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	854222	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	293376	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	460653	57.72	ug/l	0.00
Spiked Amount			Recovery	=	115.44%	
35) Dibromofluoromethane	7.59	113	400709	48.28	ug/l	0.00
Spiked Amount			Recovery	=	96.56%	
50) Toluene-d8	10.09	98	1443393	46.18	ug/l	0.00
Spiked Amount			Recovery	=	92.36%	
62) 4-Bromofluorobenzene	12.40	95	377239	37.31	ug/l	0.00
Spiked Amount			Recovery	=	74.62%	

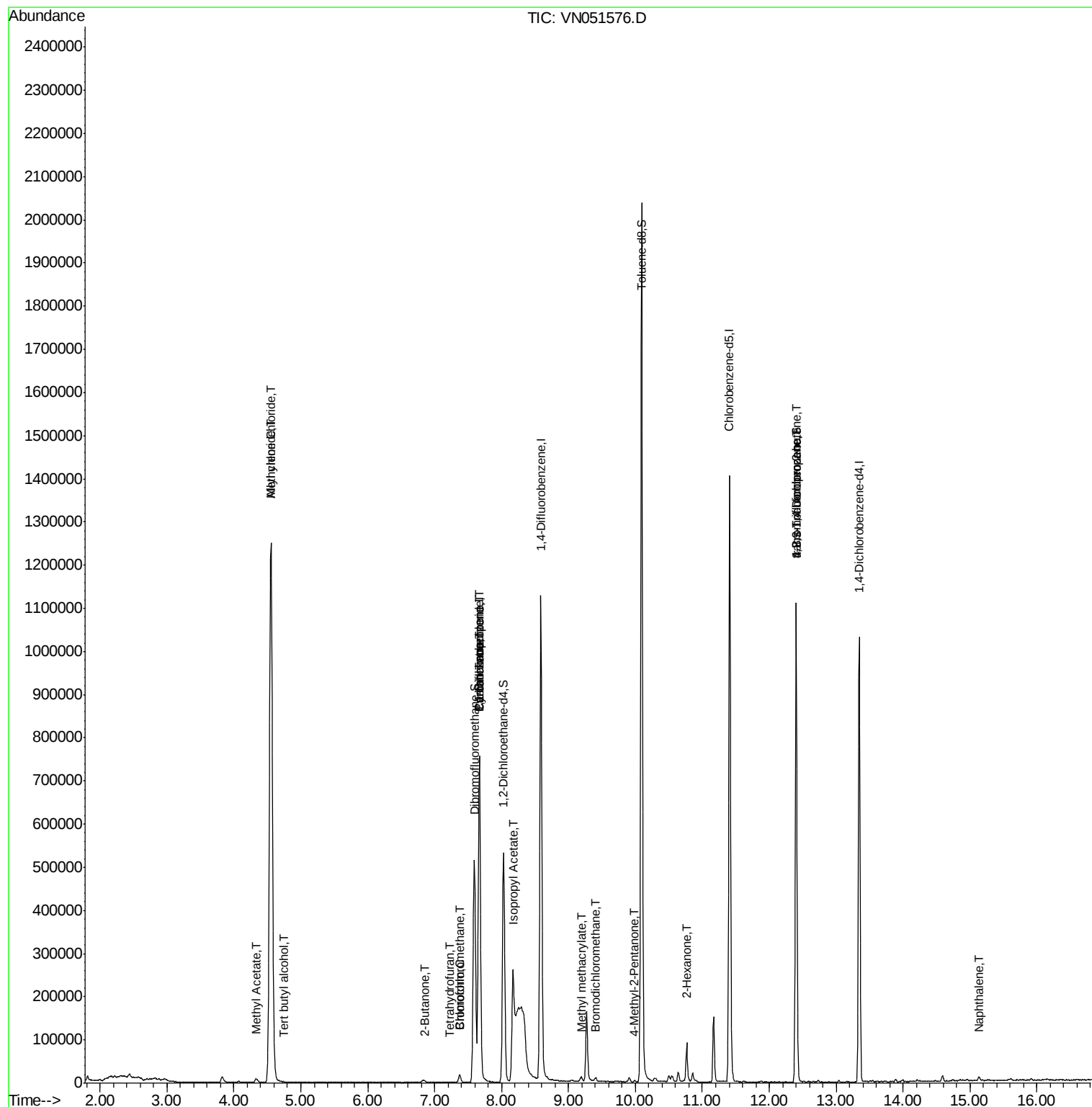
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	323	0.717	ug/l #	78
14) Allyl chloride	4.56	41	39340	3.308	ug/l #	26
16) Acetone	3.82	43	21735	Below Cal		99
18) Methyl Acetate	4.33	43	17611	2.898	ug/l	94
20) Methylene Chloride	4.55	84	945059	119.671	ug/l	99
25) 2-Butanone	6.86	43	4154	1.521	ug/l #	86
28) Bromochloromethane	7.37	49	1319	0.208	ug/l #	12
29) Tetrahydrofuran	7.22	42	604	0.349	ug/l #	54
30) Chloroform	7.37	83	18009	1.325	ug/l	91
31) Cyclohexane	7.67	56	12306	0.979	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47392	3.943	ug/l #	48
38) Carbon Tetrachloride	7.67	117	58407	4.646	ug/l #	17
43) Isopropyl Acetate	8.17	43	362548	29.012	ug/l #	85
47) Bromodichloromethane	9.40	83	5153	0.430	ug/l #	89
48) Methyl methacrylate	9.18	41	6367	1.022	ug/l #	24
51) 4-Methyl-2-Pentanone	9.99	43	1839	0.268	ug/l #	77
59) 2-Hexanone	10.76	43	13124	2.946	ug/l #	59
76) 1,2,3-Trichloropropane	12.40	75	185833	38.157	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	185833	117.330	ug/l #	12
95) Naphthalene	15.13	128	7563	8.626	ug/l #	96

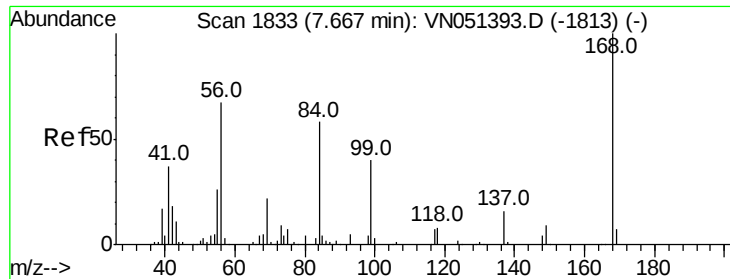
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051576.D

Acq: 27 Sep 2018 11:49

Instrument :

MSVOA_N

ClientSampleId :

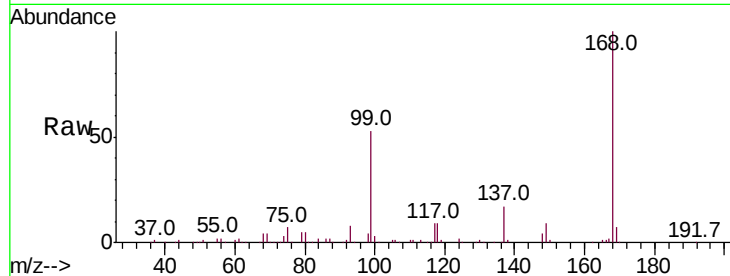
CL-02-092518-C

Tot Ion:168 Resp: 637079

Ion Ratio Lower Upper

168 100

99 52.6 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

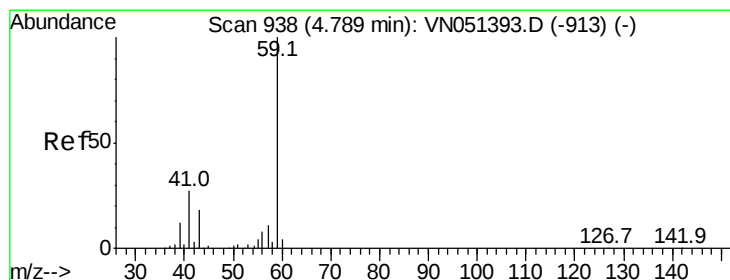
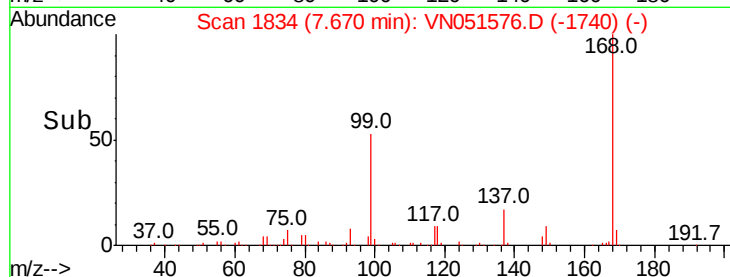
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.717 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.04 min

Lab File: VN051576.D

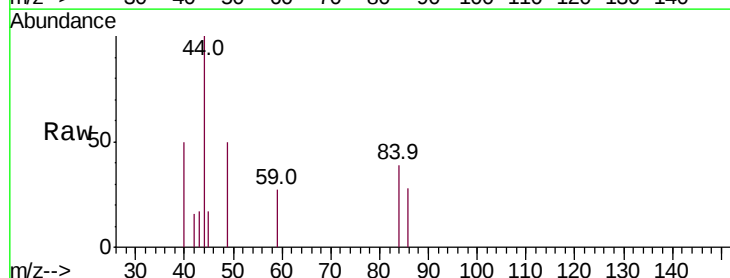
Acq: 27 Sep 2018 11:49

Tgt Ion: 59 Resp: 323

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.2#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.75

300

250

200

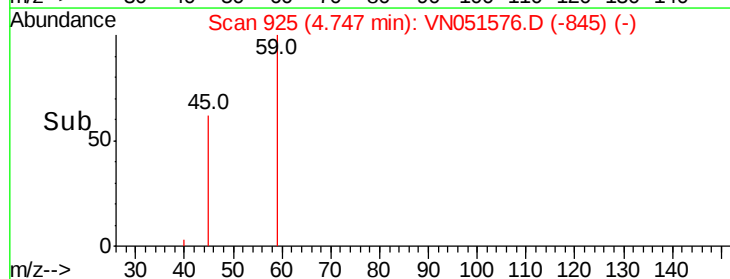
150

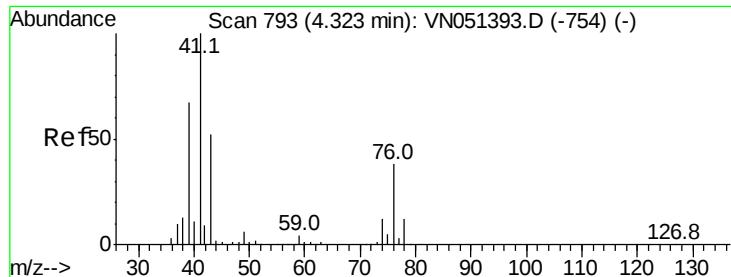
100

50

0

Time-->





#14

Allvl chloride

Concen: 3.308 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.23 min

Lab File: VN051576.D

Acq: 27 Sep 2018 11:49

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-C

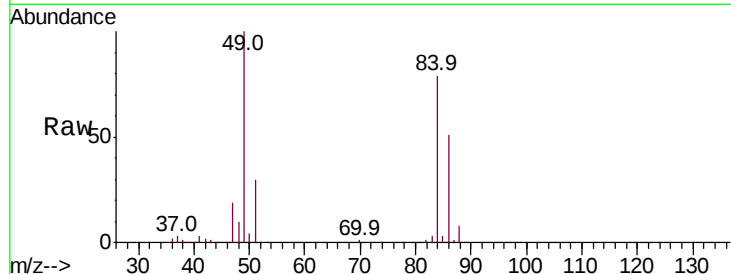
Tot Ion: 41 Resp: 39340

Ion Ratio Lower Upper

41 100

39 0.9 51.4 77.2#

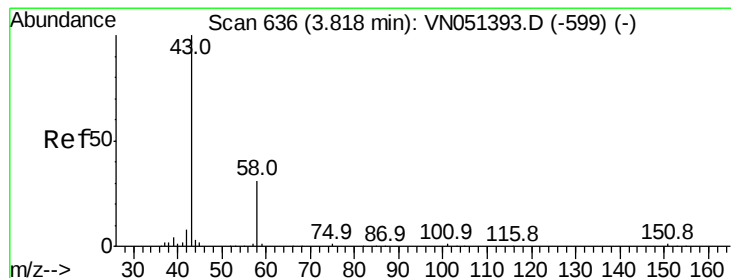
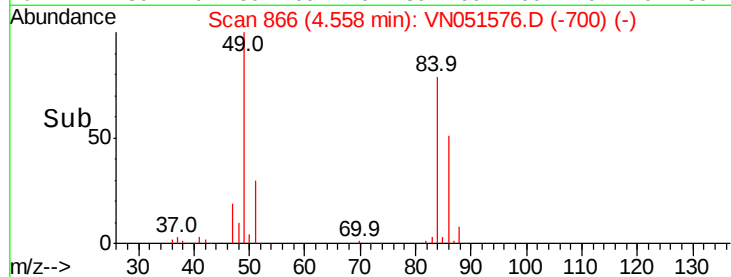
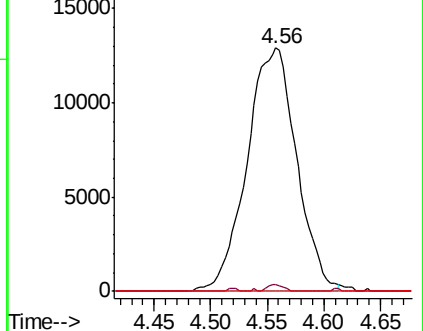
76 0.0 28.1 42.1#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051576.D

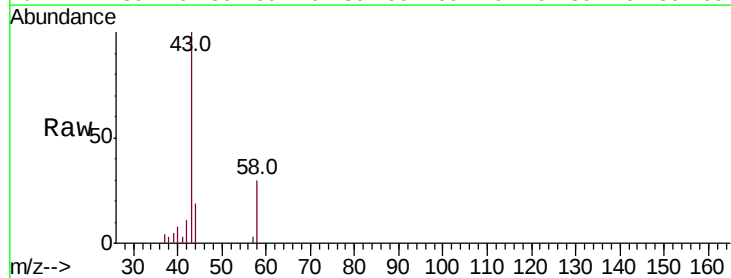
Acq: 27 Sep 2018 11:49

Tgt Ion: 43 Resp: 21735

Ion Ratio Lower Upper

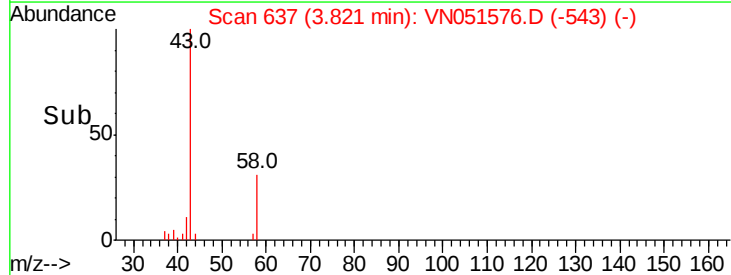
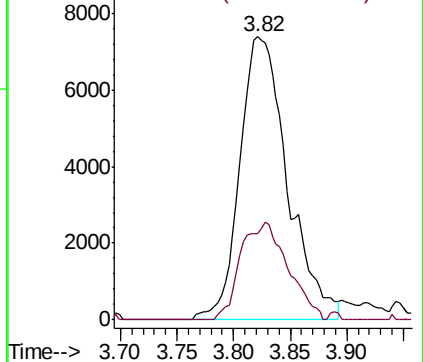
43 100

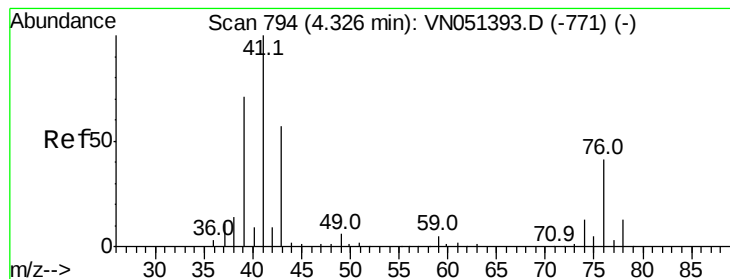
58 30.4 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#18

Methyl Acetate

Concen: 2.898 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN051576.D

Acq: 27 Sep 2018 11:49

Instrument :

MSVOA_N

ClientSampleId :

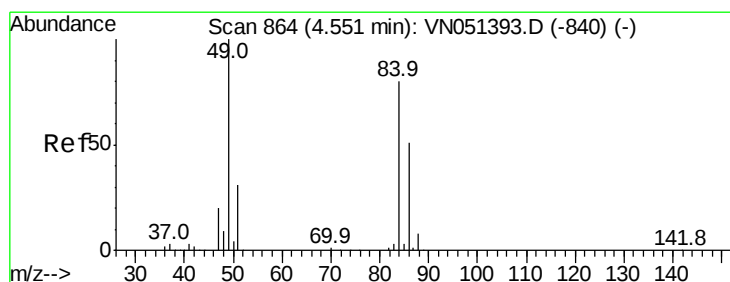
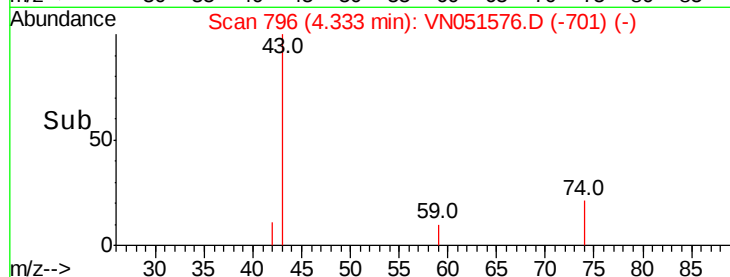
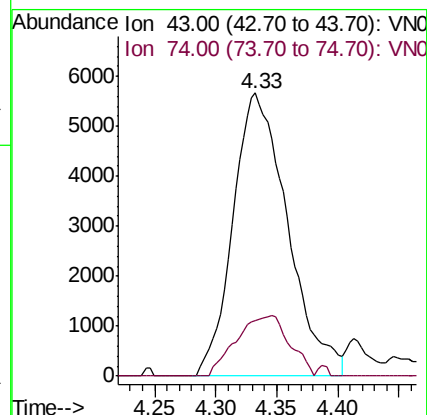
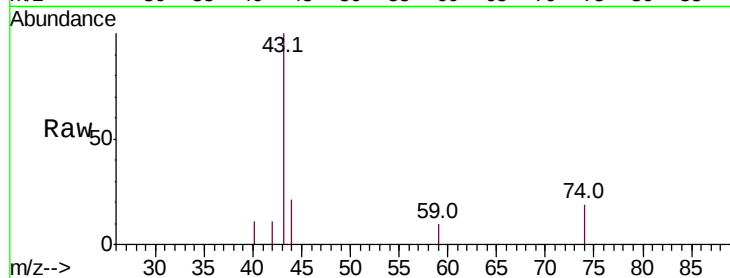
CL-02-092518-C

Tot Ion: 43 Resp: 17611

Ion Ratio Lower Upper

43 100

74 20.8 18.8 28.2



#20

Methylene Chloride

Concen: 119.671 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN051576.D

Acq: 27 Sep 2018 11:49

Tgt Ion: 84 Resp: 945059

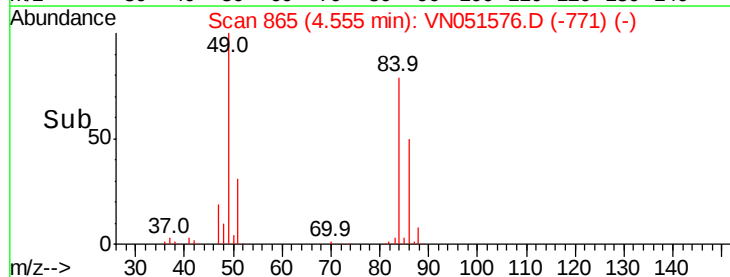
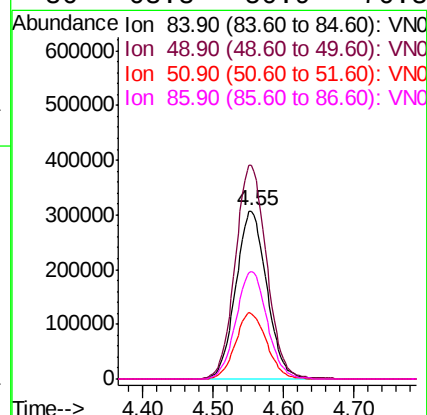
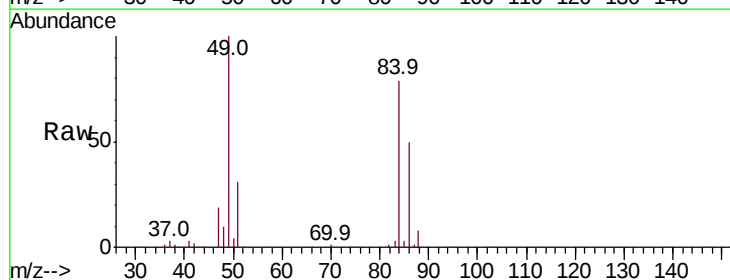
Ion Ratio Lower Upper

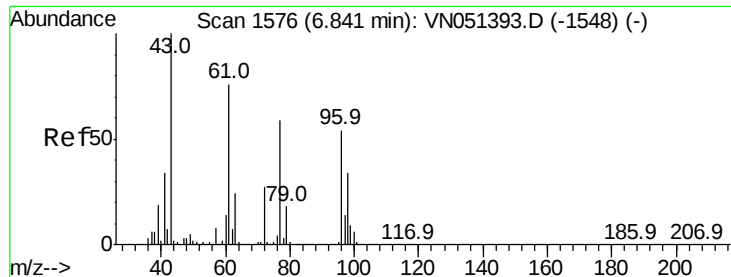
84 100

49 127.1 99.9 149.9

51 39.0 31.4 47.2

86 63.8 50.9 76.3

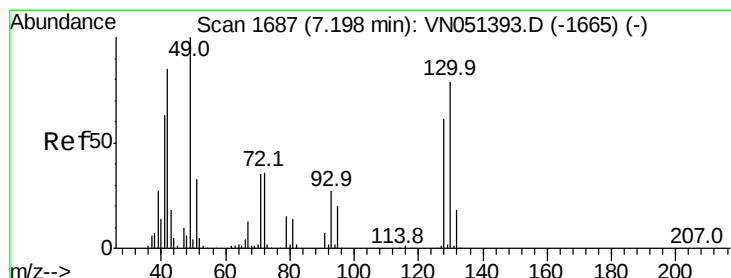
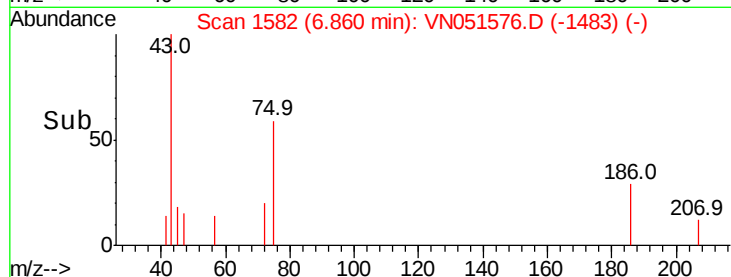
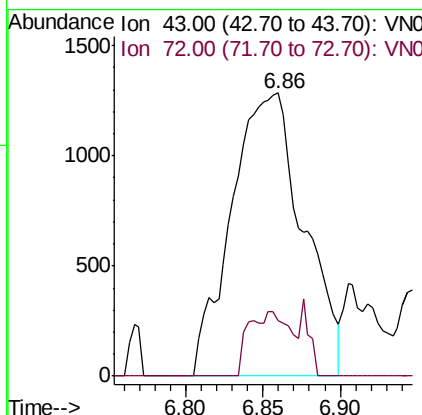
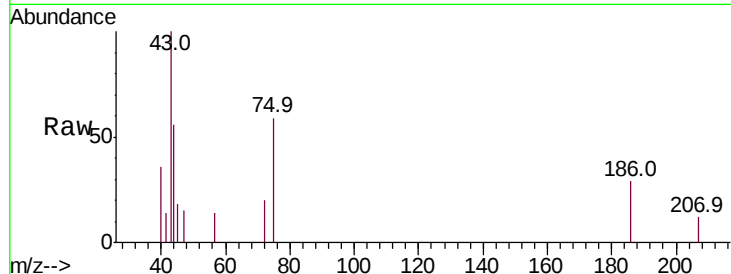




#25
2-Butanone
Concen: 1.521 ug/l
RT: 6.86 min Scan# 1582
Delta R.T. 0.02 min
Lab File: VN051576.D
Acq: 27 Sep 2018 11:49

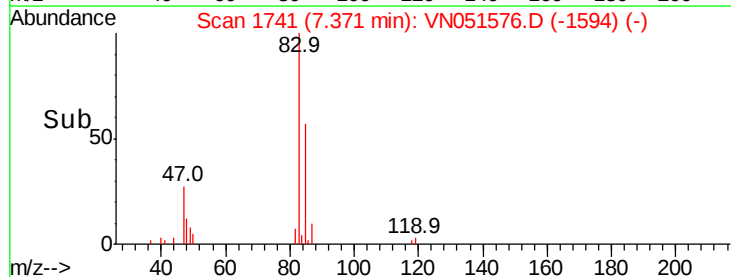
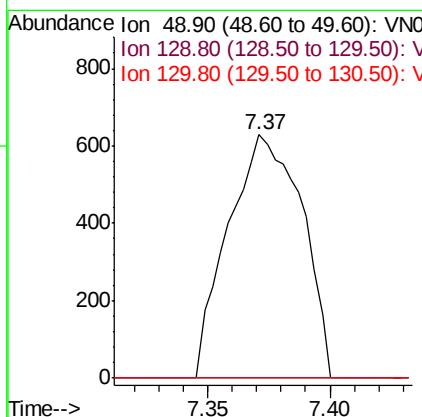
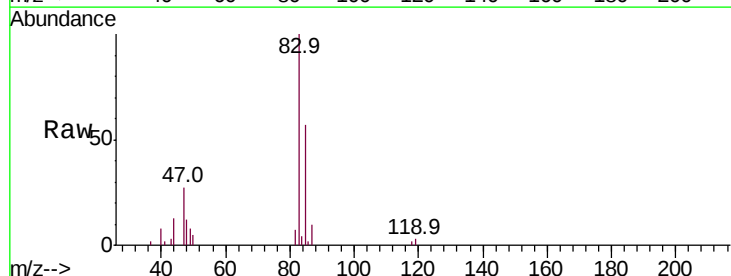
Instrument :
MSVOA_N
ClientSampleId :
CL-02-092518-C

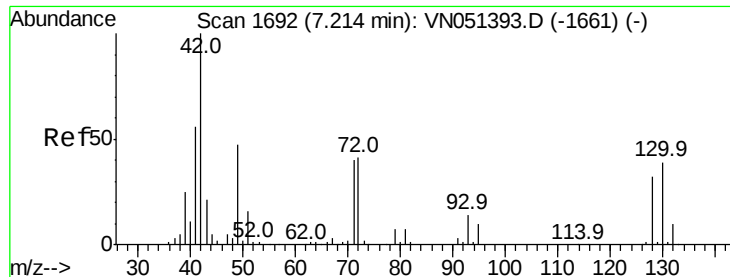
Tot Ion: 43 Resp: 4154
Ion Ratio Lower Upper
43 100
72 19.8 21.8 32.6#



#28
Bromochloromethane
Concen: 0.208 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.17 min
Lab File: VN051576.D
Acq: 27 Sep 2018 11:49

Tgt Ion: 49 Resp: 1319
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 63.0 94.4#





#29

Tetrahydrofuran

Concen: 0.349 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN051576.D

Acq: 27 Sep 2018 11:49

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-C

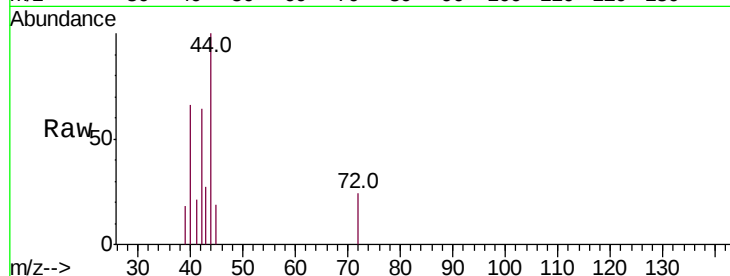
Tot Ion: 42 Resp: 604

Ion Ratio Lower Upper

42 100

72 25.0 34.3 51.5#

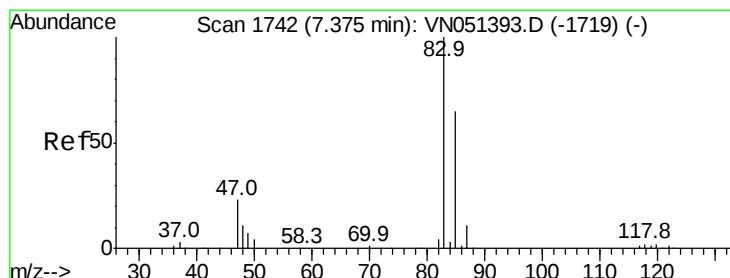
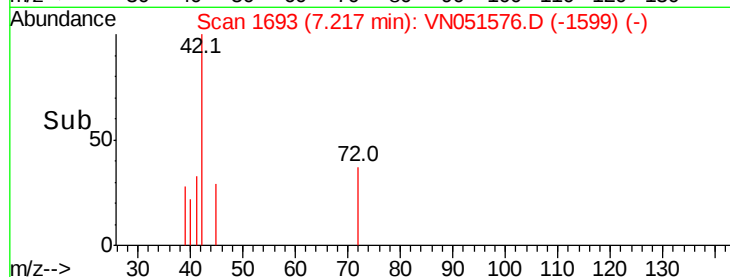
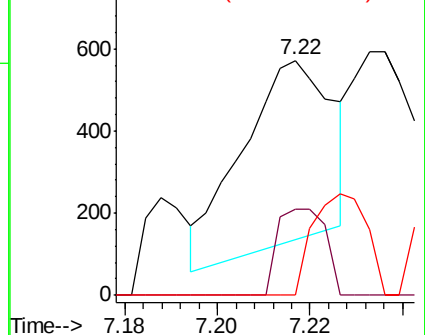
71 0.0 32.2 48.4#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#30

Chloroform

Concen: 1.325 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VN051576.D

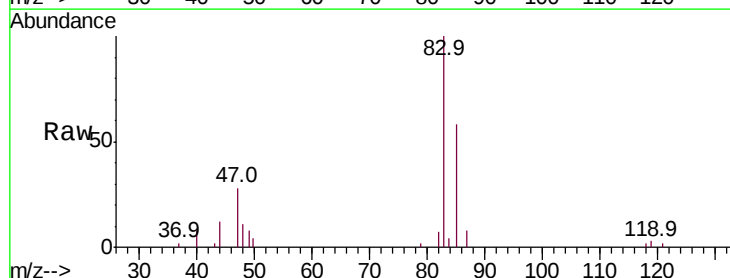
Acq: 27 Sep 2018 11:49

Tgt Ion: 83 Resp: 18009

Ion Ratio Lower Upper

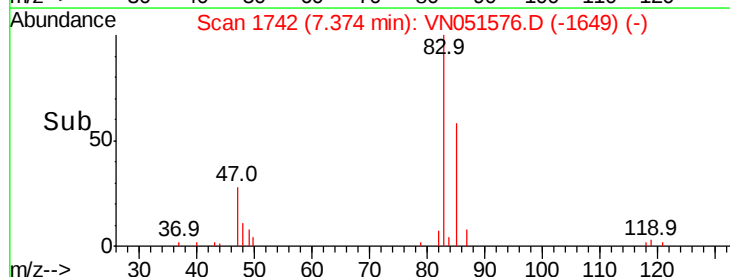
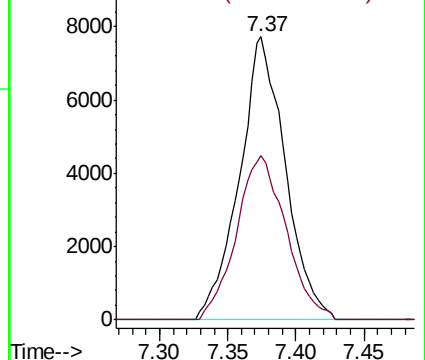
83 100

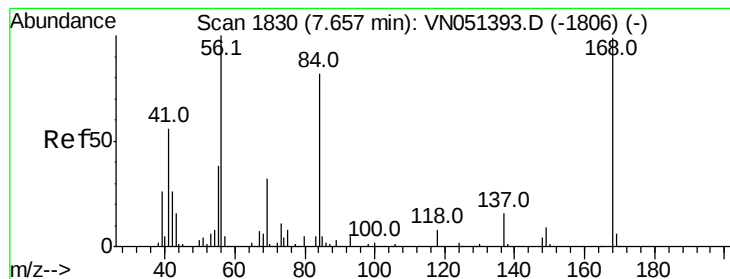
85 57.9 51.8 77.6



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 0.979 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN051576.D

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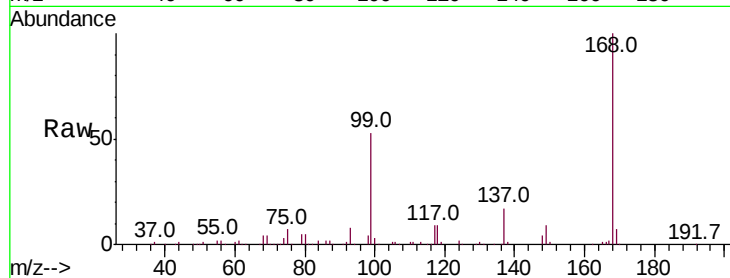
Tot Ion: 56 Resp: 12306

Ion Ratio Lower Upper

56 100

69 215.8 25.8 38.6#

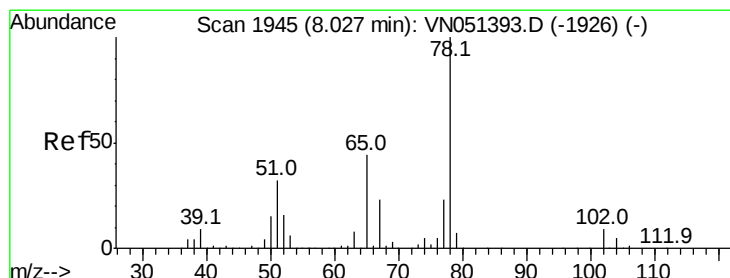
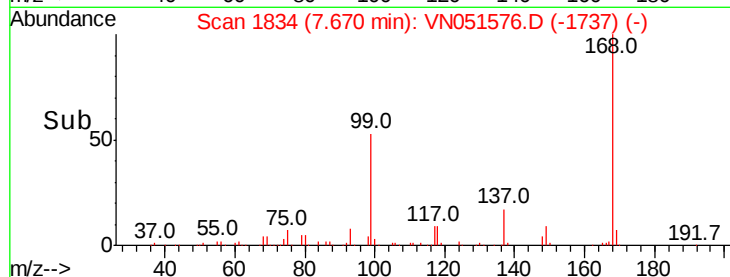
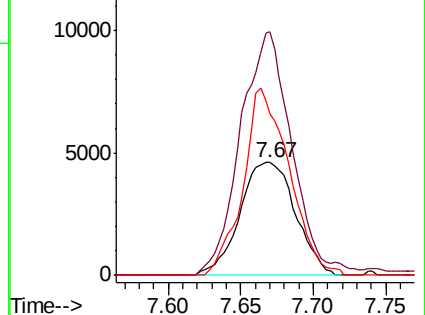
84 143.8 66.0 99.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 57.722 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051576.D

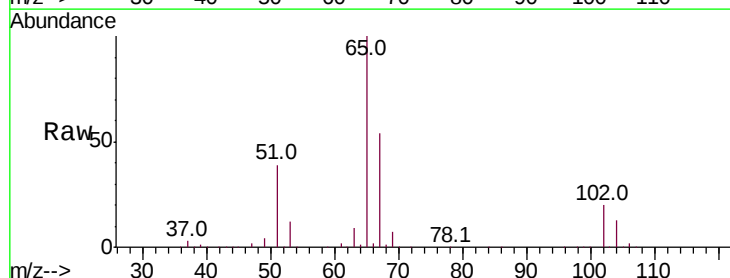
Acq: 27 Sep 2018 11:49

Tgt Ion: 65 Resp: 460653

Ion Ratio Lower Upper

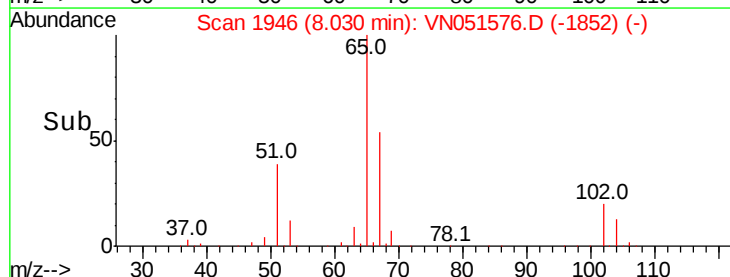
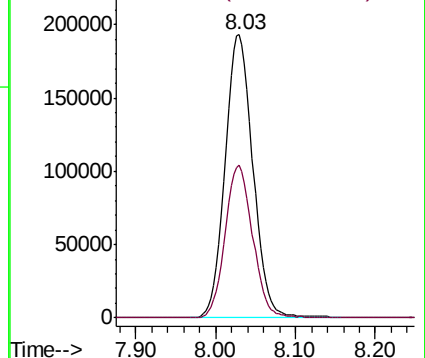
65 100

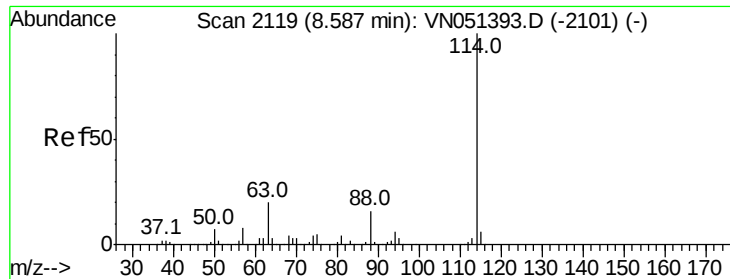
67 53.1 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



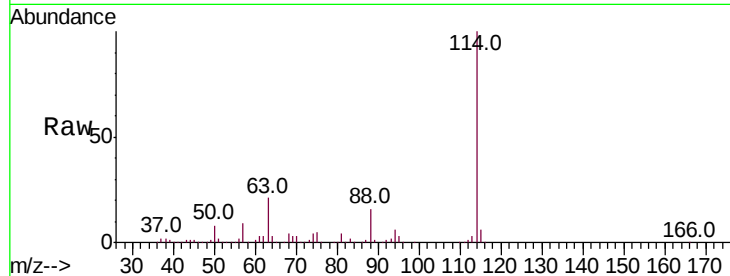


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051576.D
 Acq: 27 Sep 2018 11:49

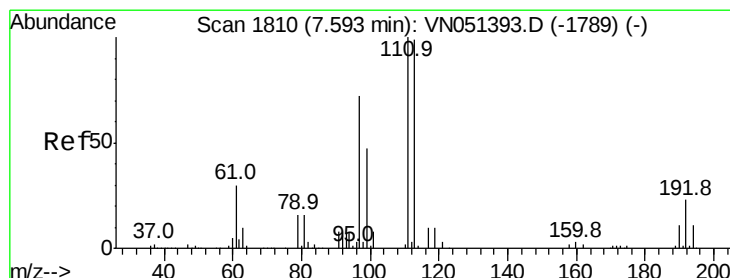
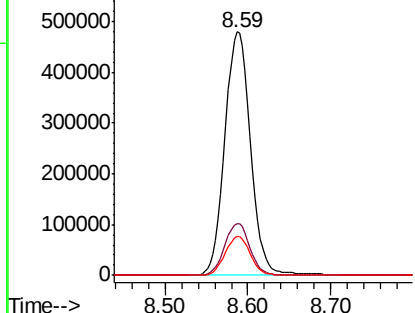
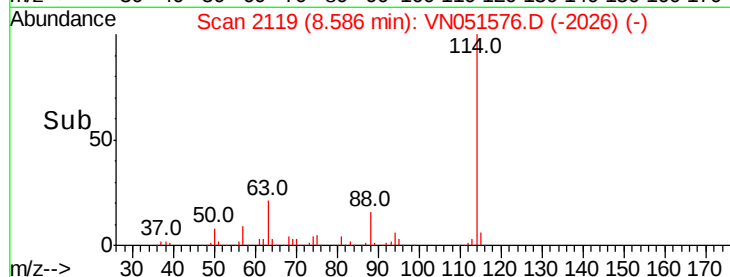
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-092518-C

Tot Ion:114 Resp: 1037922

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	40.2
88	16.1	0.0	31.4



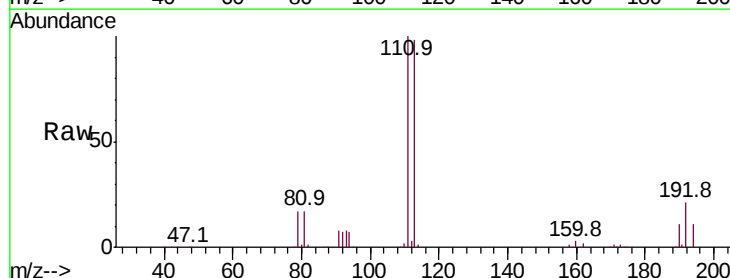
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



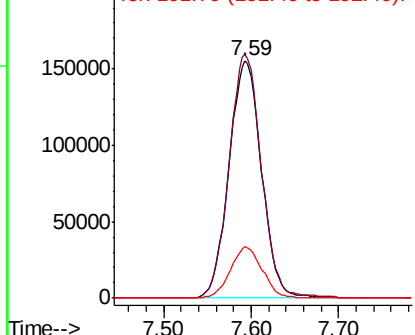
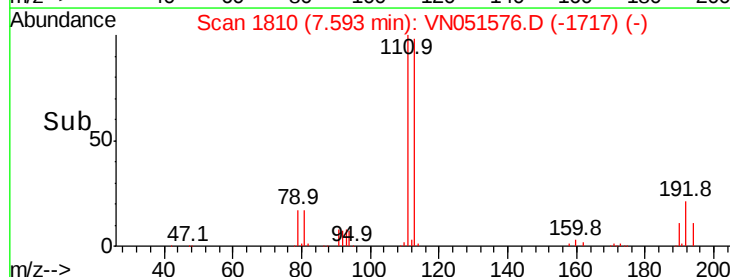
#35
 Dibromofluoromethane
 Concen: 48.279 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051576.D
 Acq: 27 Sep 2018 11:49

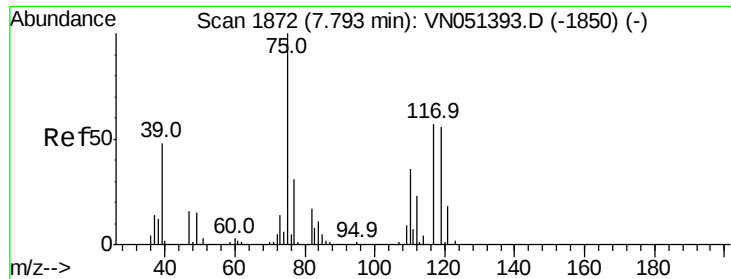
Tgt Ion:113 Resp: 400709

Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.6	123.8
192	21.1	18.0	27.0



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

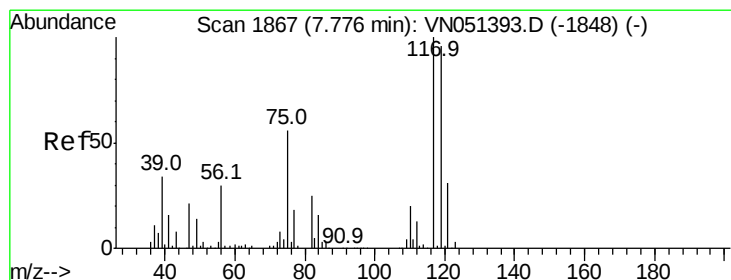
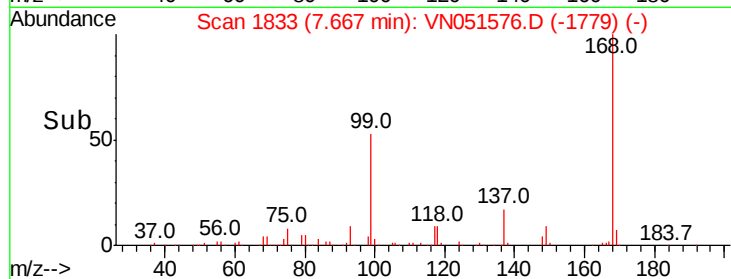
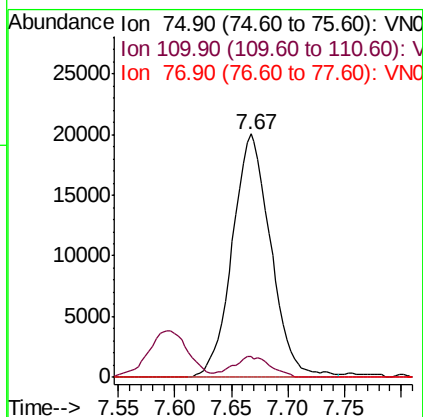
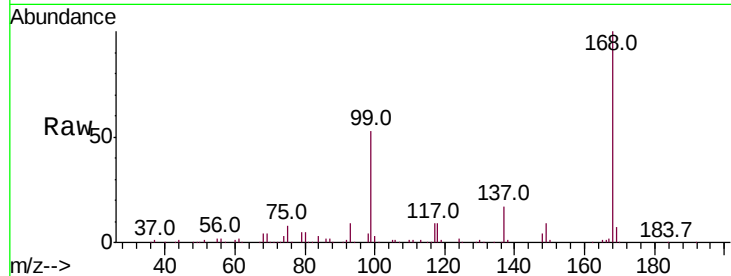




#36
 1,1-Dichloropropene
 Concen: 3.943 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051576.D
 Acq: 27 Sep 2018 11:49

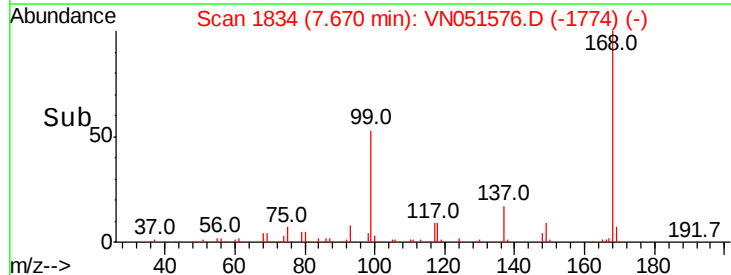
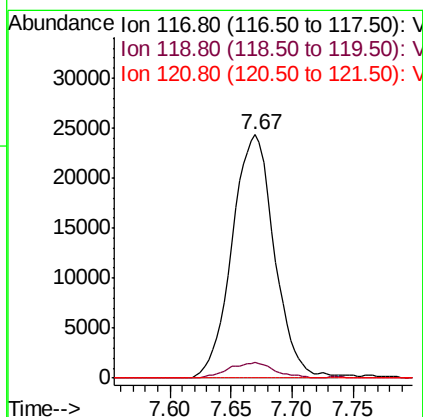
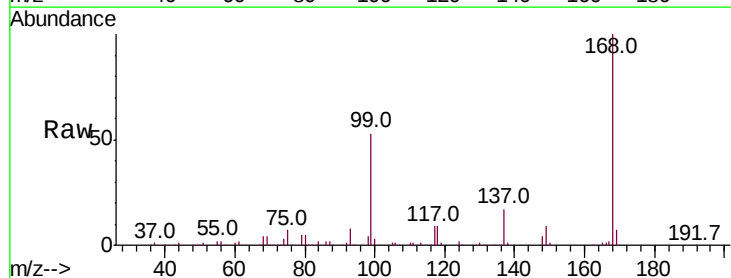
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-092518-C

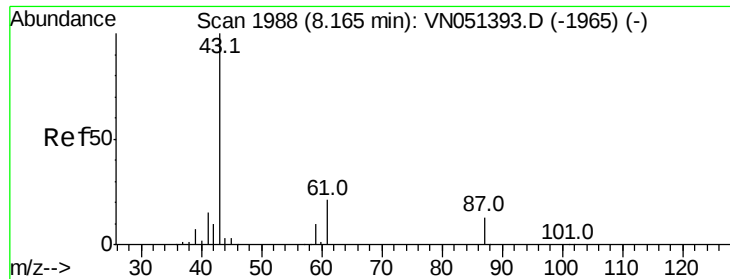
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.1	54.3#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 4.646 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.11 min
 Lab File: VN051576.D
 Acq: 27 Sep 2018 11:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.2	76.9	115.3#
121	0.0	24.6	37.0#





#43

Isopropyl Acetate

Concen: 29.012 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051576.D

Acq: 27 Sep 2018 11:49

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-C

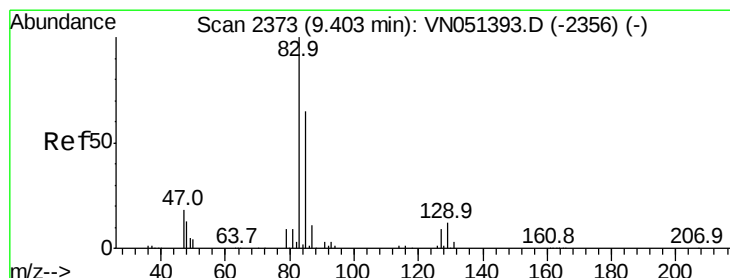
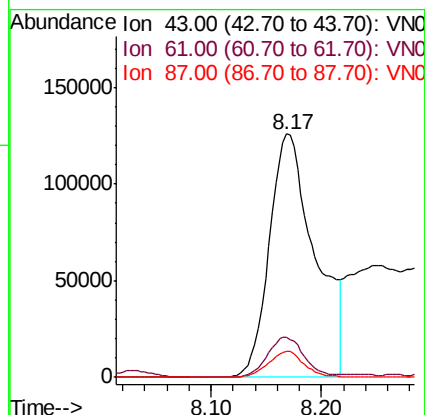
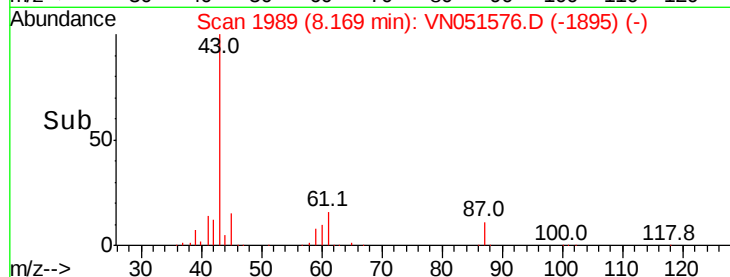
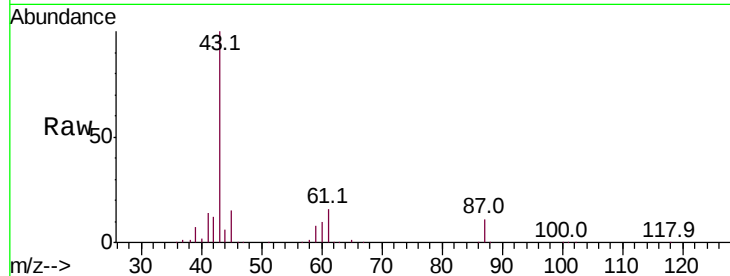
Tot Ion: 43 Resp: 362548

Ion Ratio Lower Upper

43 100

61 13.5 16.8 25.2#

87 8.3 10.7 16.1#



#47

Bromodichloromethane

Concen: 0.430 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN051576.D

Acq: 27 Sep 2018 11:49

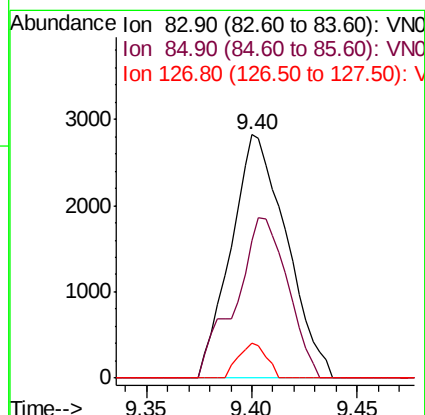
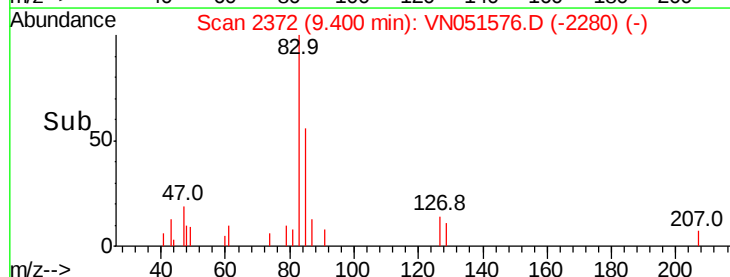
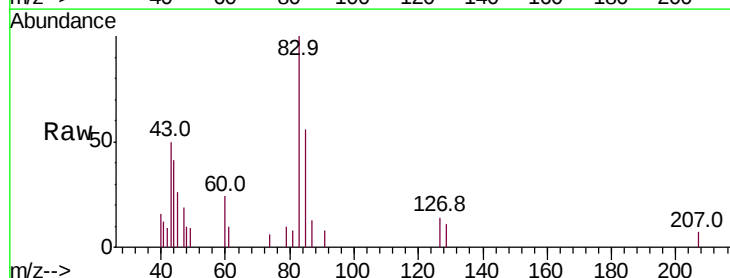
Tgt Ion: 83 Resp: 5153

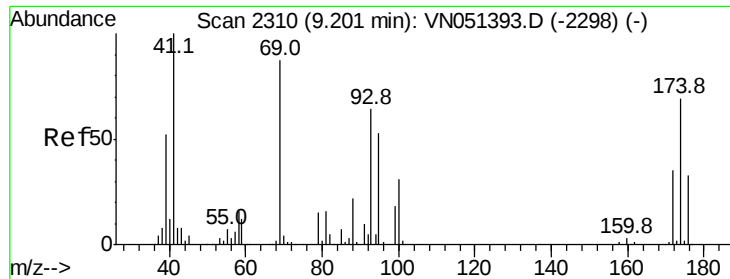
Ion Ratio Lower Upper

83 100

85 56.4 51.8 77.6

127 14.2 7.4 11.2#

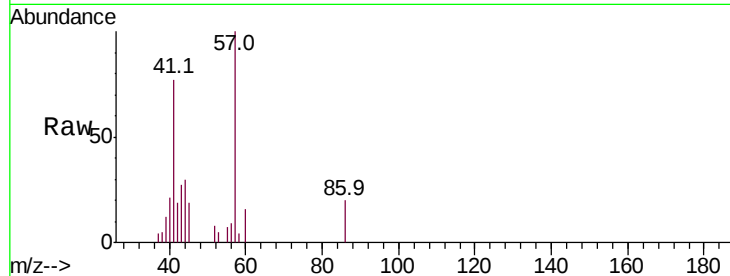




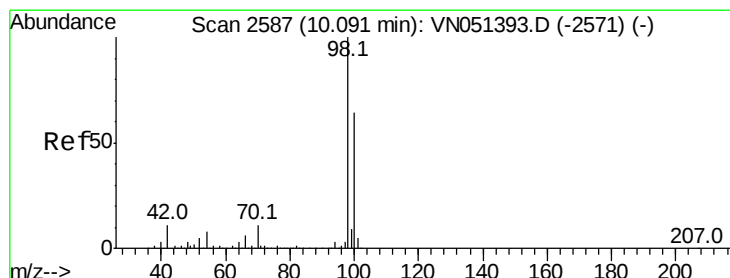
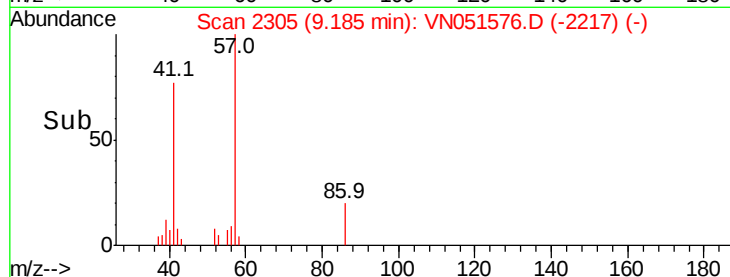
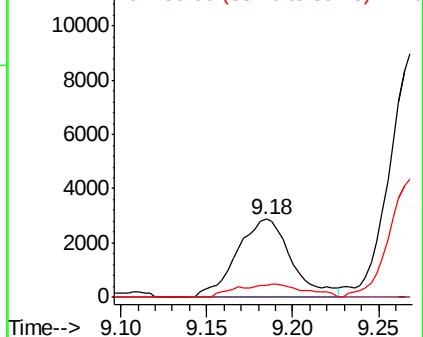
#48
Methvl methacrylate
Concen: 1.022 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN051576.D
Acq: 27 Sep 2018 11:49

Instrument :
MSVOA_N
ClientSampleId :
CL-02-092518-C

Tot Ion: 41 Resp: 6367
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 21.0 43.8 65.8#

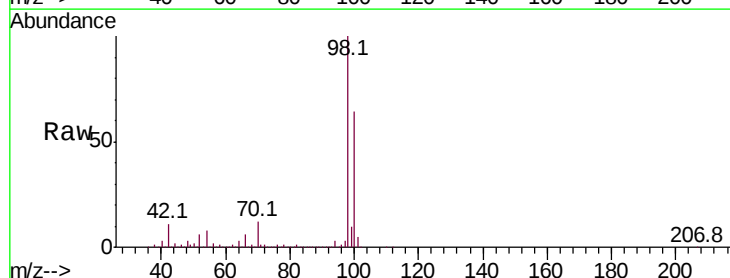


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

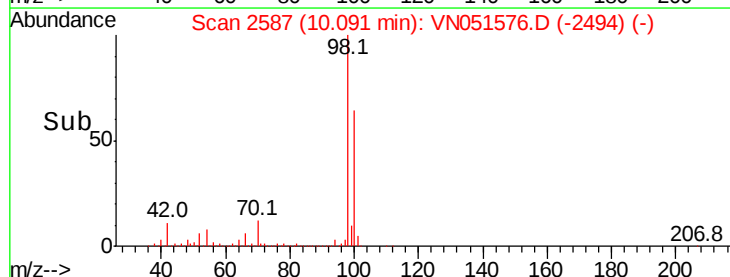
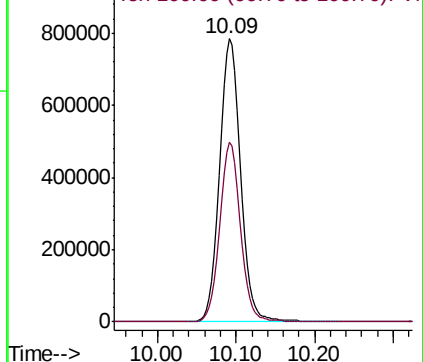


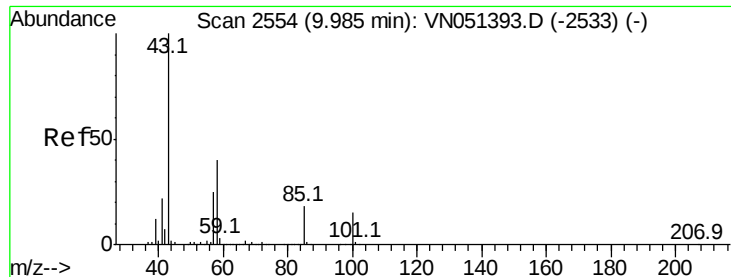
#50
Toluene-d8
Concen: 46.183 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051576.D
Acq: 27 Sep 2018 11:49

Tgt Ion: 98 Resp: 1443393
Ion Ratio Lower Upper
98 100
100 62.7 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.268 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051576.D

Acq: 27 Sep 2018 11:49

Instrument :

MSVOA_N

ClientSampleId :

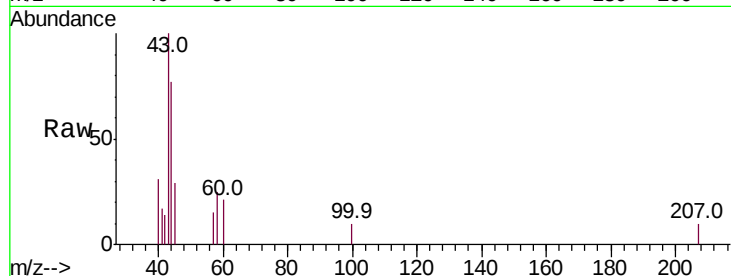
CL-02-092518-C

Tot Ion: 43 Resp: 1839

Ion Ratio Lower Upper

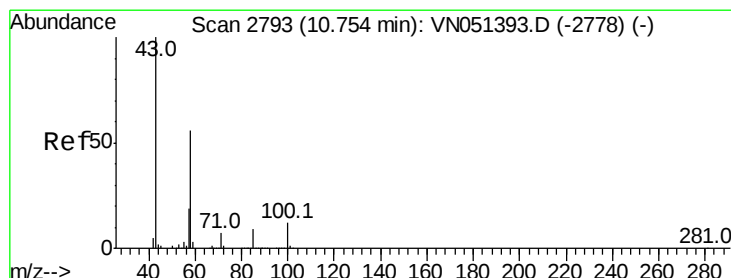
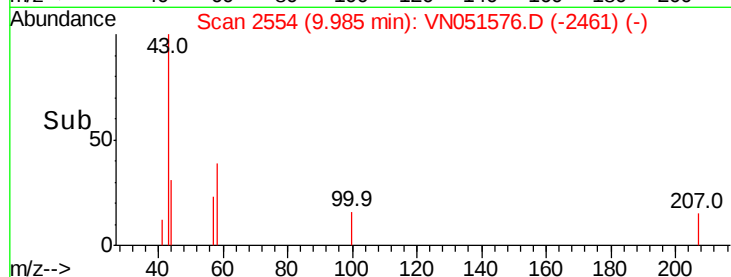
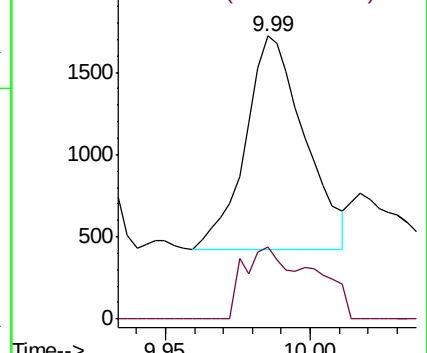
43 100

58 25.5 31.5 47.3#



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN051393.D (-2533) (-)



#59

2-Hexanone

Concen: 2.946 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051576.D

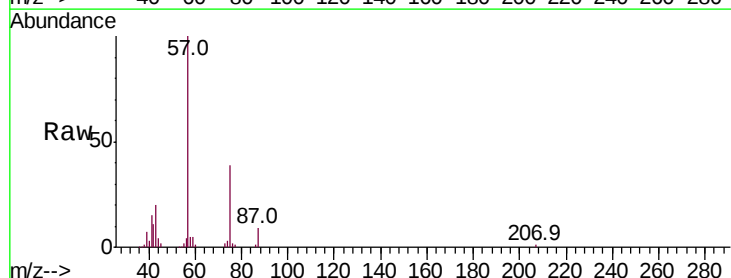
Acq: 27 Sep 2018 11:49

Tgt Ion: 43 Resp: 13124

Ion Ratio Lower Upper

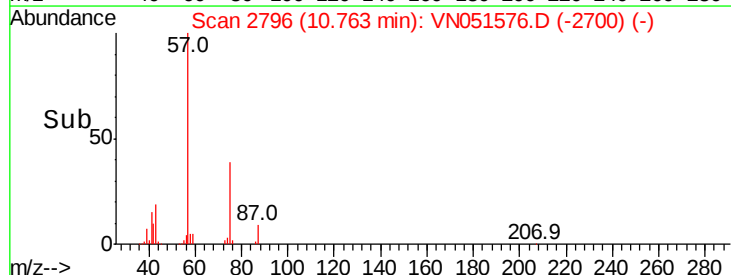
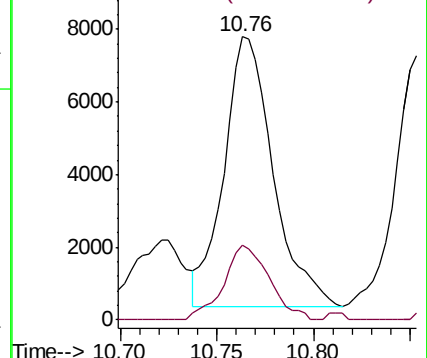
43 100

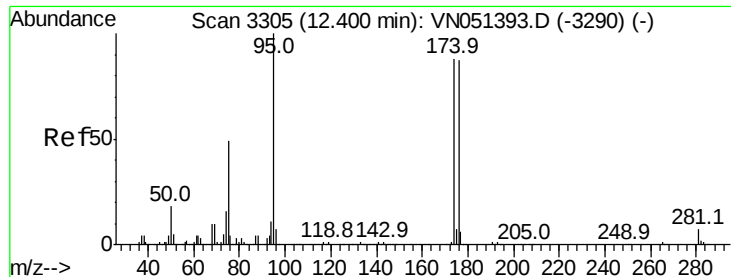
58 25.6 27.7 83.0#



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-2778) (-)

Ion 58.00 (57.70 to 58.70): VN051393.D (-2778) (-)





#62

4-Bromofluorobenzene

Concen: 37.311 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051576.D

Acq: 27 Sep 2018 11:49

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-C

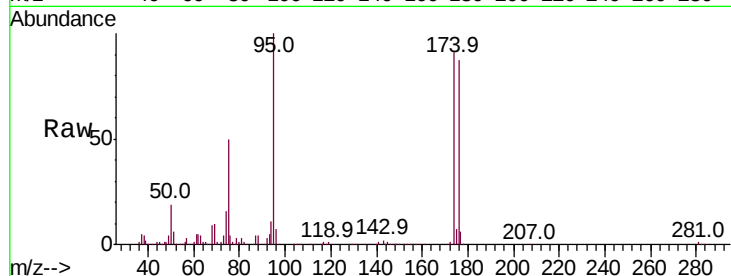
Tot Ion: 95 Resp: 377239

Ion Ratio Lower Upper

95 100

174 89.4 0.0 181.6

176 85.4 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)

12.40

200000

150000

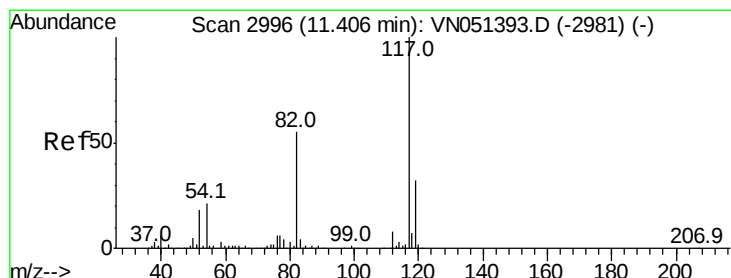
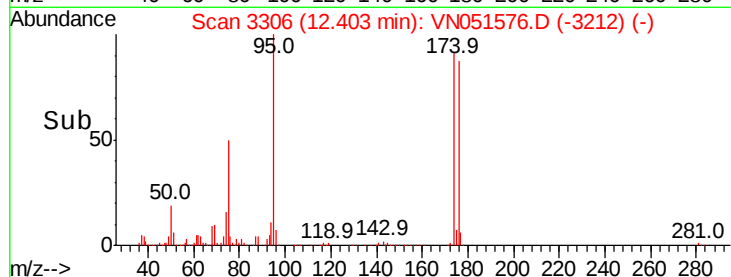
100000

50000

0

12.35 12.40 12.45 12.50

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051576.D

Acq: 27 Sep 2018 11:49

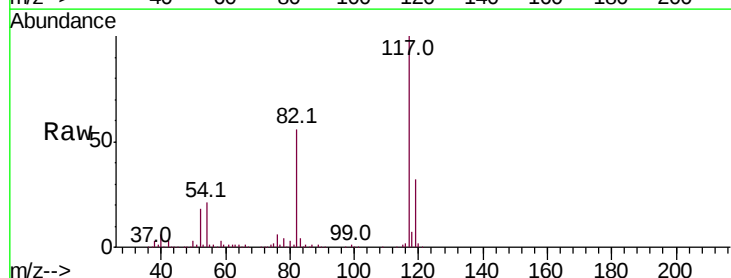
Tgt Ion: 117 Resp: 854222

Ion Ratio Lower Upper

117 100

82 55.7 44.2 66.2

119 31.6 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051393.D (-2981) (-)

600000

500000

400000

300000

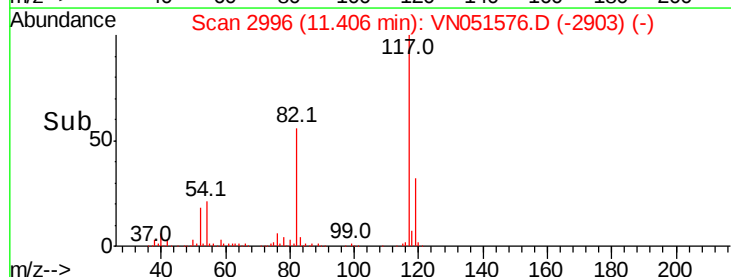
200000

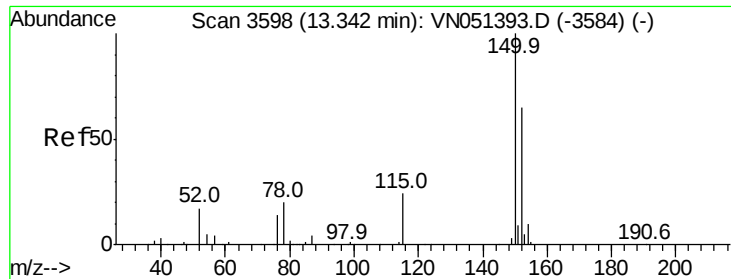
100000

0

11.30 11.40 11.50

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051576.D

Acq: 27 Sep 2018 11:49

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-C

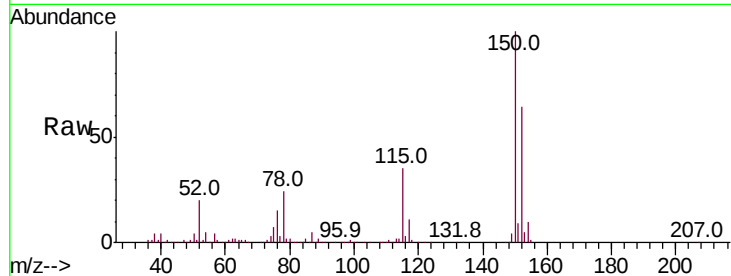
Tot Ion:152 Resp: 293376

Ion Ratio Lower Upper

152 100

115 55.9 28.3 84.9

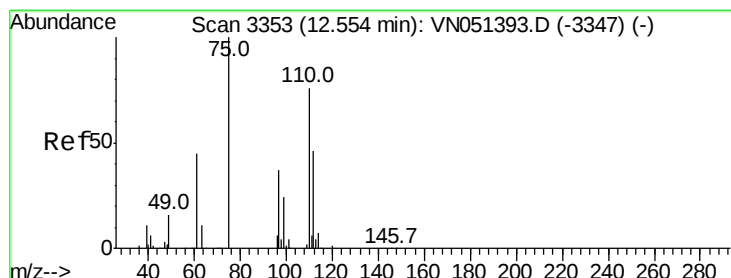
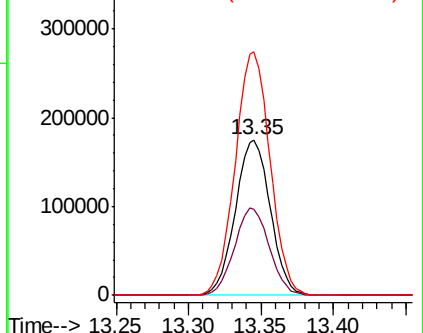
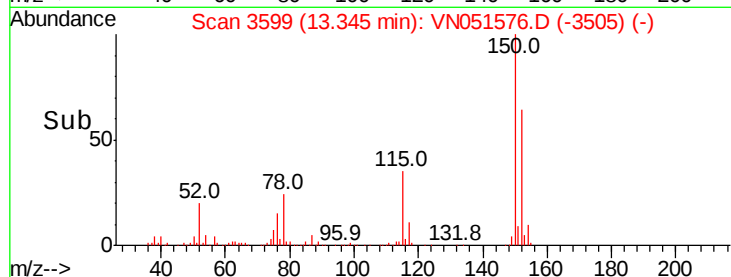
150 156.3 0.0 353.6



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: 38.157 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051576.D

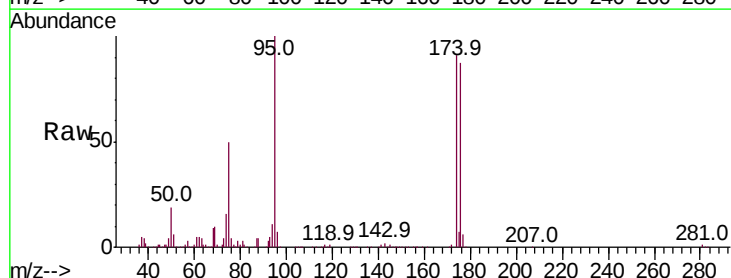
Acq: 27 Sep 2018 11:49

Tgt Ion: 75 Resp: 185833

Ion Ratio Lower Upper

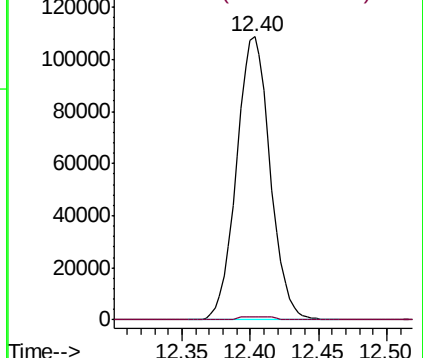
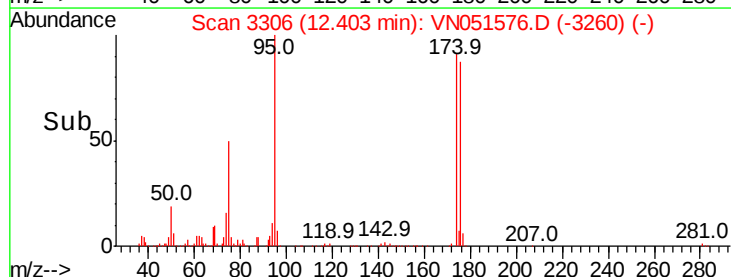
75 100

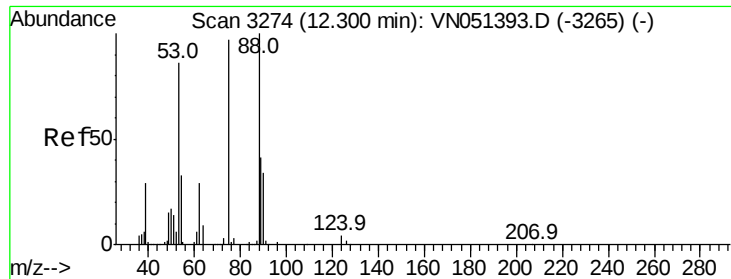
77 1.3 0.0 0.0#



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: 117.330 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051576.D

Acq: 27 Sep 2018 11:49

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-C

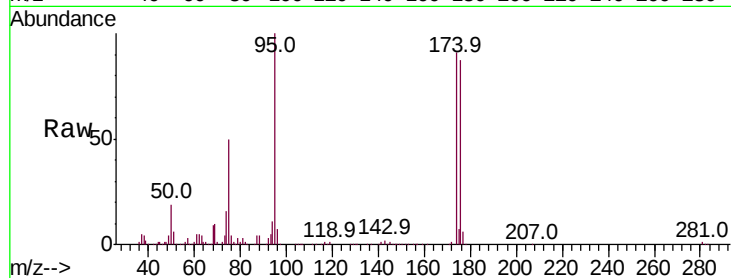
Tot Ion: 75 Resp: 185833

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

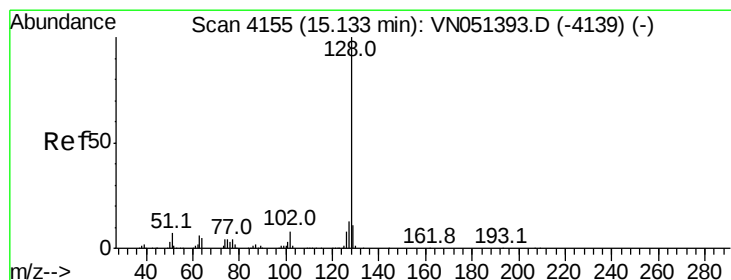
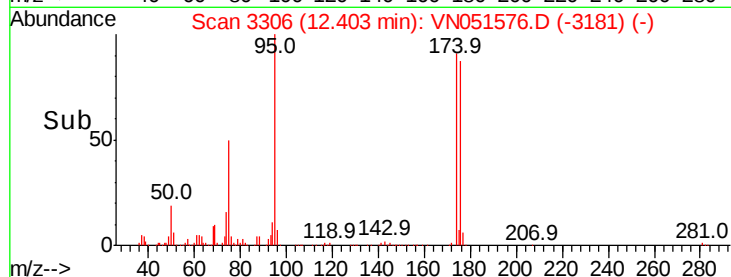
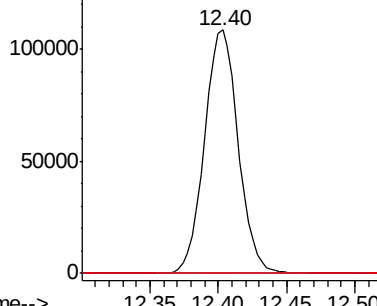
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN051393.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN051393.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN051393.D (-3265) (-)



#95

Naphthalene

Concen: 8.626 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN051576.D

Acq: 27 Sep 2018 11:49

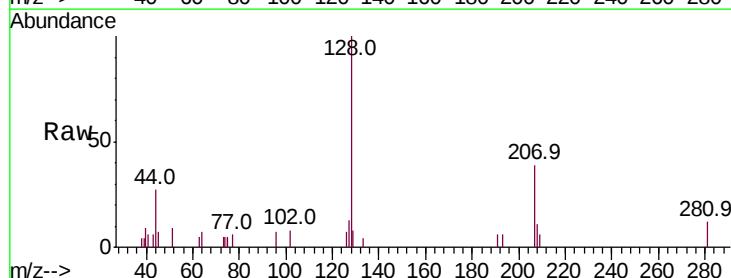
Tgt Ion: 128 Resp: 7563

Ion Ratio Lower Upper

128 100

127 13.8 10.5 15.7

129 8.2 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN051393.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN051393.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN051393.D (-4139) (-)

