

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070218\
 Data File : VN049672.D
 Acq On : 2 Jul 2018 16:27
 Operator : MD\SY
 Sample : J3798-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-13

Quant Time: Jul 03 03:47:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 30 00:55:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1678772	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2476475	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2172675	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	1135888	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	1006050	45.38	ug/l	0.00
Spiked Amount			Recovery	=	90.76%	
35) Dibromofluoromethane	7.59	113	838022	45.26	ug/l	0.00
Spiked Amount			Recovery	=	90.52%	
50) Toluene-d8	10.09	98	3480529	48.03	ug/l	0.00
Spiked Amount			Recovery	=	96.06%	
62) 4-Bromofluorobenzene	12.40	95	1167411	47.18	ug/l	0.00
Spiked Amount			Recovery	=	94.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.80	59	47228	37.12	ug/l #	72
13) Acrolein	3.55	56	188825	158.90	ug/l #	1
14) Allyl chloride	4.41	41	297305	10.98	ug/l #	48
15) Acrylonitrile	5.05	53	111553	16.98	ug/l #	40
16) Acetone	3.82	43	363207	76.02	ug/l	95
17) Carbon Disulfide	4.05	76	9409	Below	Cal #	91
18) Methyl Acetate	4.39	43	162753	3.19	ug/l #	50
19) Methyl tert-butyl Ether	5.05	73	521077	10.25	ug/l #	1
20) Methylene Chloride	4.41	84	71399	3.13	ug/l #	15
22) Diisopropyl ether	5.96	45	31477	0.51	ug/l #	86
23) Vinyl Acetate	5.86	43	59753	1.50	ug/l #	72
25) 2-Butanone	6.85	43	181629	24.68	ug/l	94
29) Tetrahydrofuran	7.20	42	2824	0.60	ug/l #	76
30) Chloroform	7.37	83	156505	3.98	ug/l	96
31) Cyclohexane	7.65	56	449590	13.04	ug/l	89
36) 1,1-Dichloropropene	7.67	75	114133	4.10	ug/l #	48
37) Ethyl Acetate	6.85	43	181629	11.18	ug/l #	68
38) Carbon Tetrachloride	7.67	117	146645	5.41	ug/l #	15
39) Methylcyclohexane	9.09	83	509019	16.66	ug/l	94
40) Benzene	8.04	78	8660740	101.80	ug/l	100
41) Methacrylonitrile	7.21	41	30147	3.29	ug/l #	44
42) 1,2-Dichloroethane	8.04	62	72019	2.65	ug/l	90
43) Isopropyl Acetate	8.15	43	86820	2.14	ug/l #	71
47) Bromodichloromethane	9.39	83	9307	0.33	ug/l #	26
48) Methyl methacrylate	9.22	41	76360	5.29	ug/l #	33
51) 4-Methyl-2-Pentanone	9.99	43	52993	3.33	ug/l	97
53) t-1,3-Dichloropropene	10.16	75	896418	33.07	ug/l #	1
55) 1,1,2-Trichloroethane	10.54	97	46405	2.42	ug/l #	22
58) 2-Chloroethyl Vinyl ether	9.66	63	5995	11.31	ug/l #	48
59) 2-Hexanone	10.72	43	32510	3.09	ug/l #	25
67) Ethyl Benzene	11.51	91	7300031	77.92	ug/l	100
68) m/p-Xylenes	11.51	106	2266128	63.11	ug/l #	23
69) o-Xylene	11.95	106	9294191	270.37	ug/l #	1
70) Styrene	11.95	104	477323	8.58	ug/l #	1

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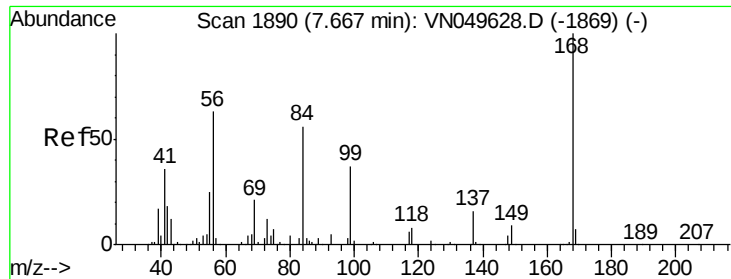
Instrument :
 MSVOA_N
 ClientSampleId :
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

71) Bromoform	12.40	173	6724	0.50	ug/l #	1
73) Isopropylbenzene	12.25	105	1125543	12.44	ug/l	100
74) N-amyl acetate	12.03	43	10449	0.42	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.51	83	400	Below	Cal #	1
76) 1,2,3-Trichloropropane	12.66	75	97692	5.36	ug/l #	100
78) n-propylbenzene	12.59	91	2240260	21.60	ug/l	100
79) 2-Chlorotoluene	12.69	91	618274	9.42	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.73	105	7118792	94.68	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	564485	105.24	ug/l #	12
82) 4-Chlorotoluene	12.73	91	716927	10.86	ug/l #	40
83) tert-Butylbenzene	13.04	119	2518581	38.99	ug/l #	70
84) 1,2,4-Trimethylbenzene	12.90	105	5920180	76.63	ug/l	77
85) sec-Butylbenzene	13.17	105	436869	5.11	ug/l #	63
86) p-Isopropyltoluene	13.24	119	374909	5.06	ug/l	97
87) 1,3-Dichlorobenzene	13.29	146	1545	Below	Cal #	1
88) 1,4-Dichlorobenzene	13.37	146	991	Below	Cal #	25
89) n-Butylbenzene	13.59	91	409471	6.45	ug/l #	1
90) Hexachloroethane	13.89	117	521651	67.00	ug/l #	4
91) 1,2-Dichlorobenzene	13.66	146	1101	Below	Cal #	72
92) 1,2-Dibromo-3-Chloropropan	14.25	75	6865	1.15	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	1498	2.47	ug/l #	1
94) Hexachlorobutadiene	15.11	225	30	Below	Cal #	19
95) Naphthalene	15.14	128	1075965	25.48	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	1377	1.71	ug/l #	47

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampled :

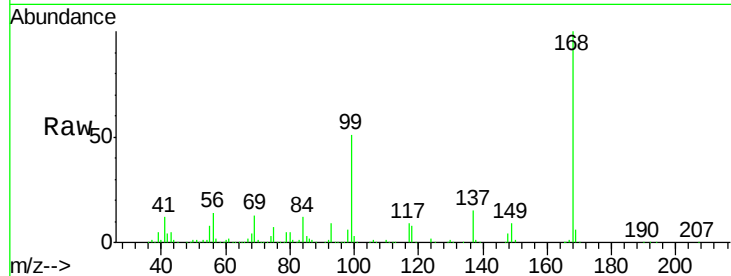
DRUM-13

Tot Ion:168 Resp: 1678772

Ion Ratio Lower Upper

168 100

99 50.6 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): VN049672.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN049672.D (-1797) (-)

7.67

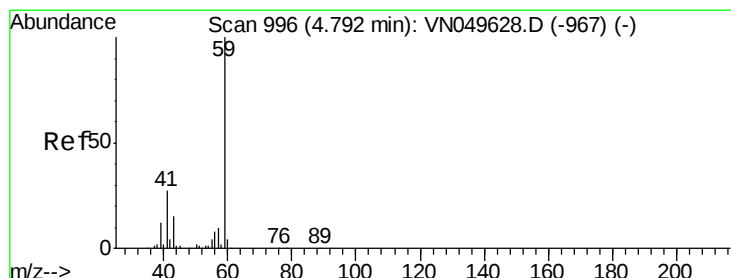
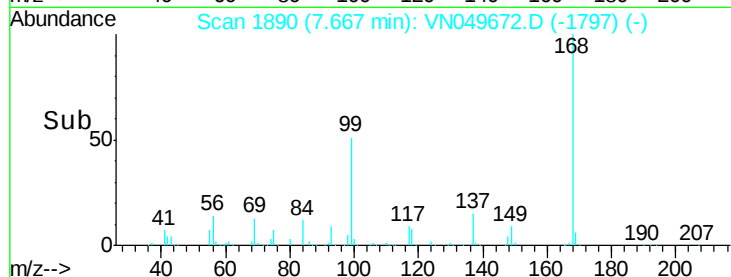
600000

400000

200000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 37.12 ug/l

RT: 4.80 min Scan# 999

Delta R.T. 0.01 min

Lab File: VN049672.D

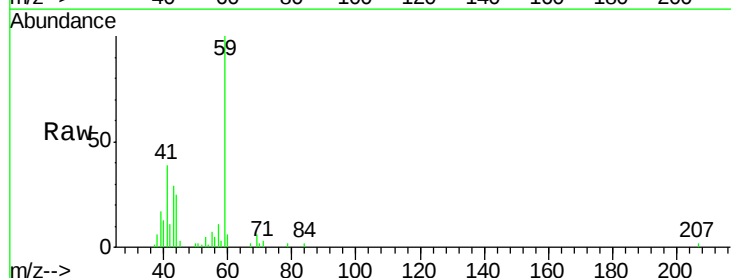
Acq: 2 Jul 2018 16:27

Tgt Ion: 59 Resp: 47228

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN049672.D (-903) (-)

Ion 57.00 (56.70 to 57.70): VN049672.D (-903) (-)

4.80

25000

20000

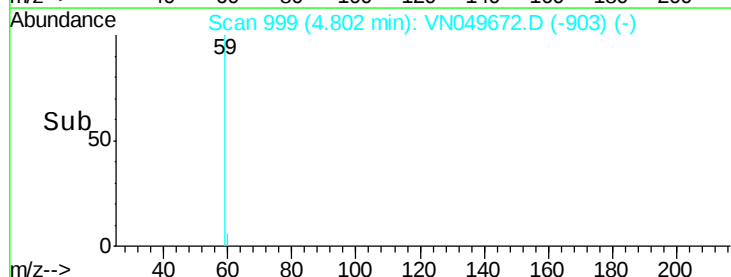
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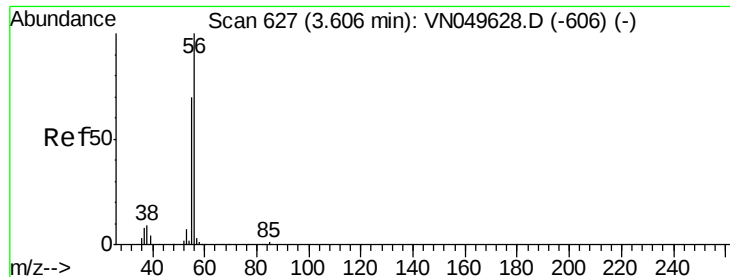
10000

5000

0

Time--> 4.70 4.80 4.90





#13

Acrolein

Concen: 158.90 ug/l

RT: 3.55 min Scan# 611

Delta R.T. -0.05 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

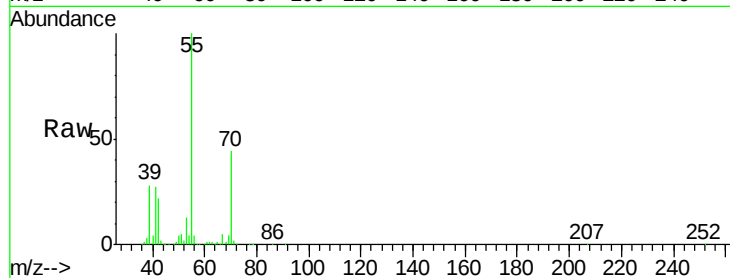
DRUM-13

Tot Ion: 56 Resp: 188825

Ion Ratio Lower Upper

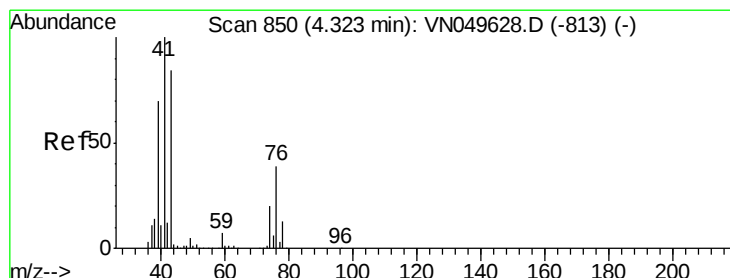
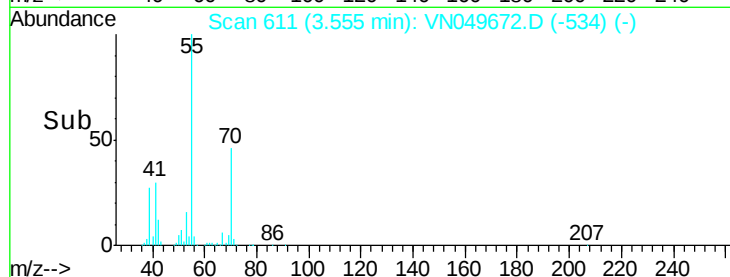
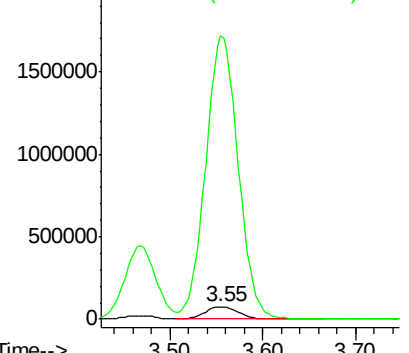
56 100

55 2210.9 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 10.98 ug/l

RT: 4.41 min Scan# 878

Delta R.T. 0.09 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

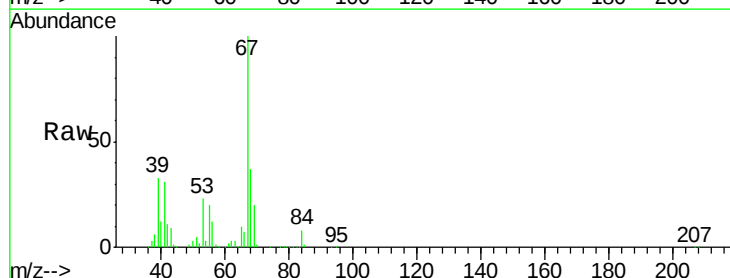
Tgt Ion: 41 Resp: 297305

Ion Ratio Lower Upper

41 100

39 103.3 53.2 79.8#

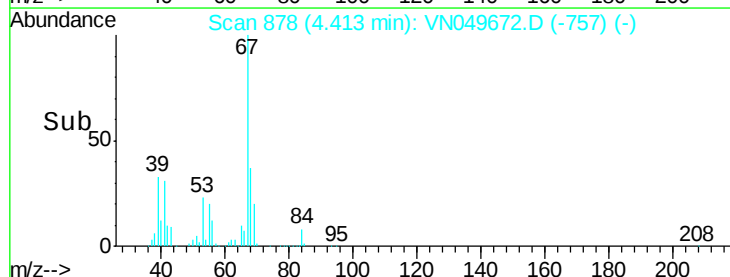
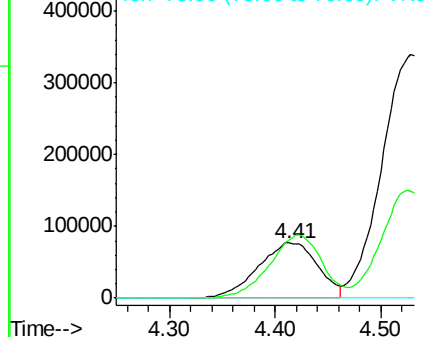
76 0.0 29.0 43.6#

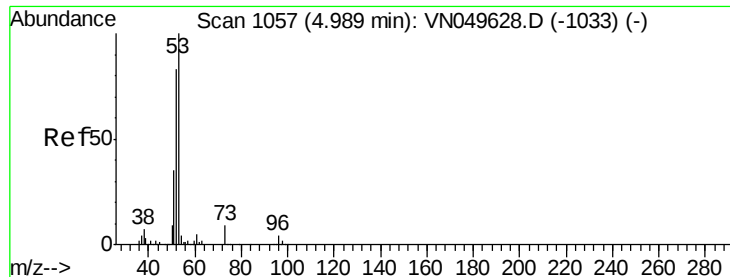


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 16.98 ug/l

RT: 5.05 min Scan# 1076

Delta R.T. 0.06 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

DRUM-13

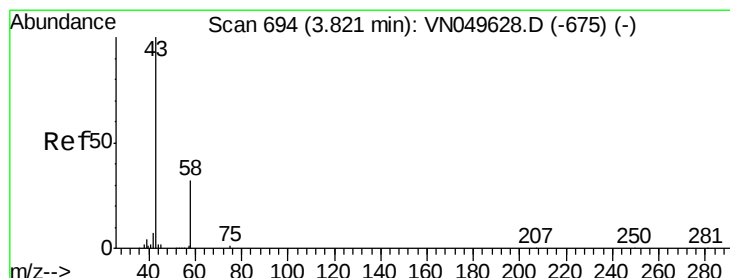
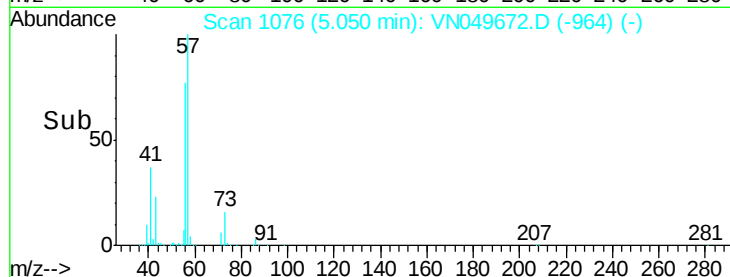
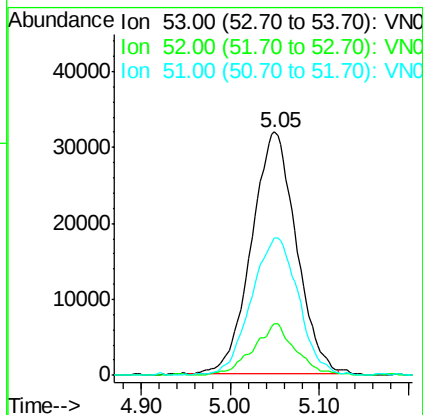
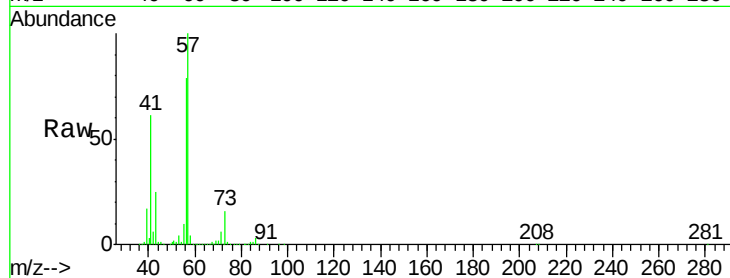
Tot Ion: 53 Resp: 111553

Ion Ratio Lower Upper

53 100

52 20.2 64.8 97.2#

51 59.7 28.9 43.3#



#16

Acetone

Concen: 76.02 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049672.D

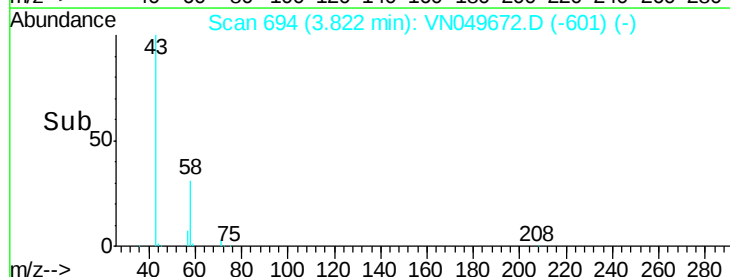
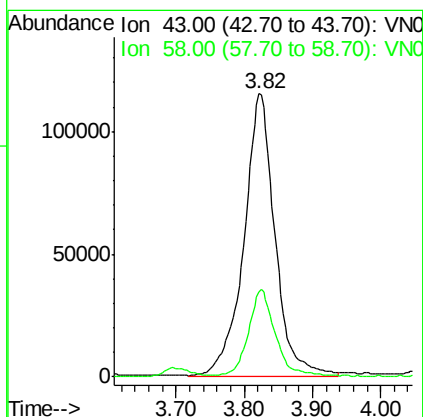
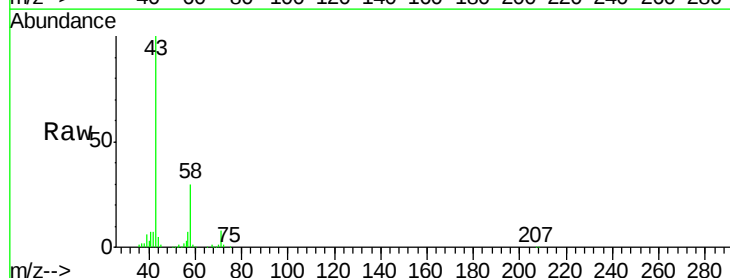
Acq: 2 Jul 2018 16:27

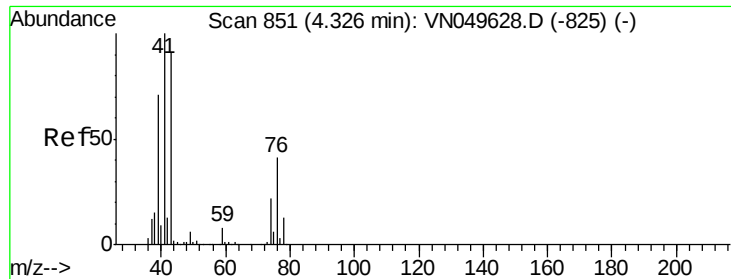
Tgt Ion: 43 Resp: 363207

Ion Ratio Lower Upper

43 100

58 29.7 25.9 38.9

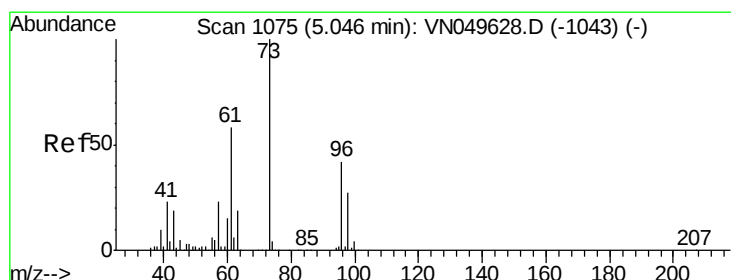
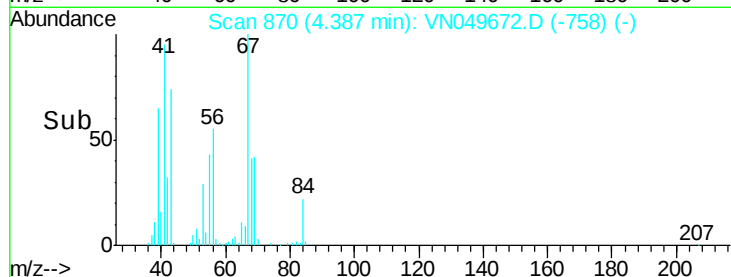
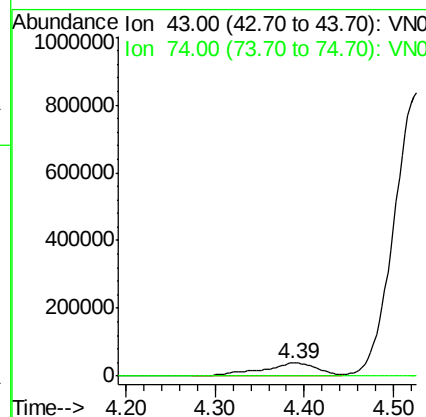
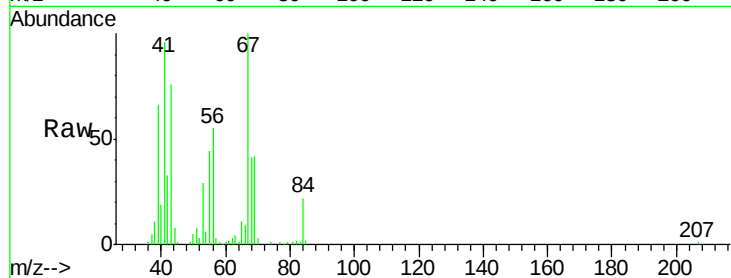




#18
Methyl Acetate
Concen: 3.19 ug/l
RT: 4.39 min Scan# 870
Delta R.T. 0.06 min
Lab File: VN049672.D
Acq: 2 Jul 2018 16:27

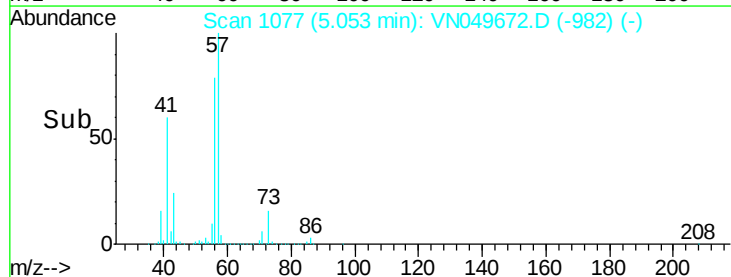
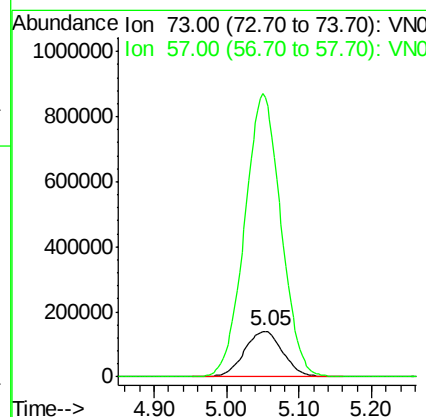
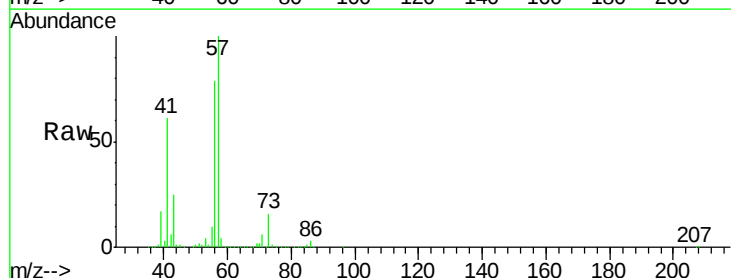
Instrument :
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DRUM-13

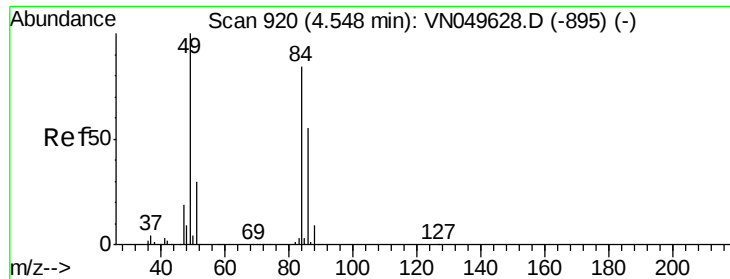
Tot Ion: 43 Resp: 162753
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.8#



#19
Methyl tert-butyl Ether
Concen: 10.25 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.01 min
Lab File: VN049672.D
Acq: 2 Jul 2018 16:27

Tgt Ion: 73 Resp: 521077
Ion Ratio Lower Upper
73 100
57 610.4 18.1 27.1#

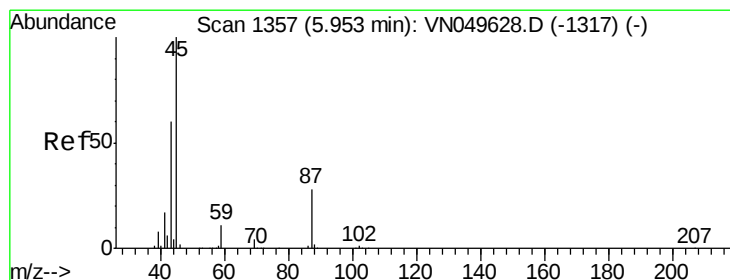
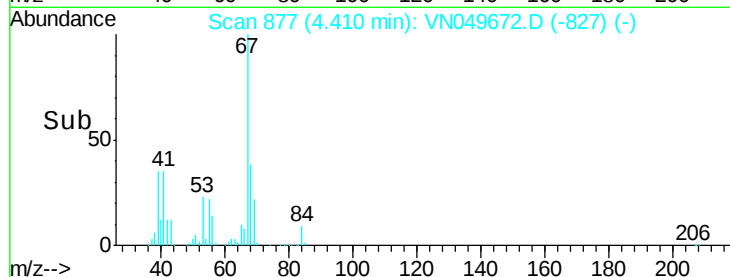
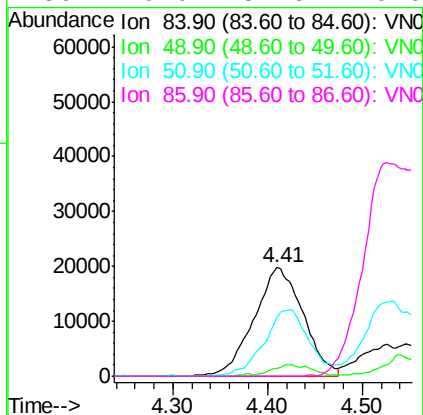
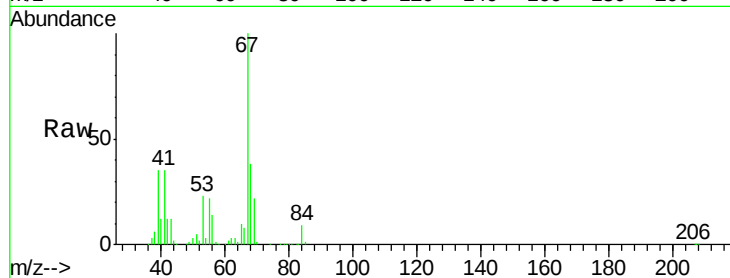




#20
Methylene Chloride
Concen: 3.13 ug/l
RT: 4.41 min Scan# 877
Delta R.T. -0.14 min
Lab File: VN049672.D
Acq: 2 Jul 2018 16:27

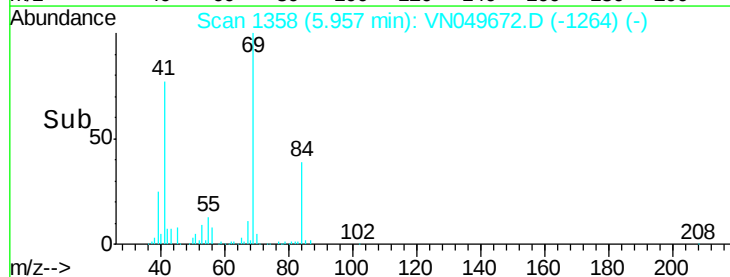
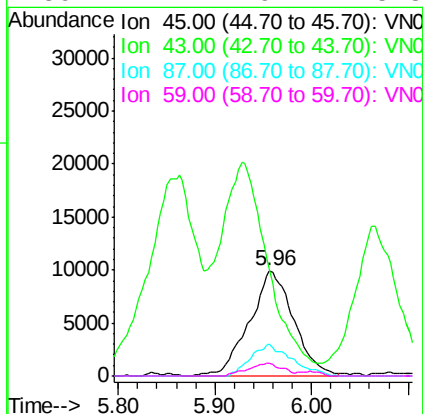
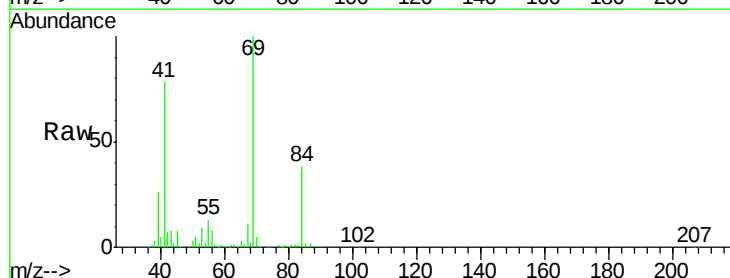
Instrument :
MSVOA_N
ClientSampled :
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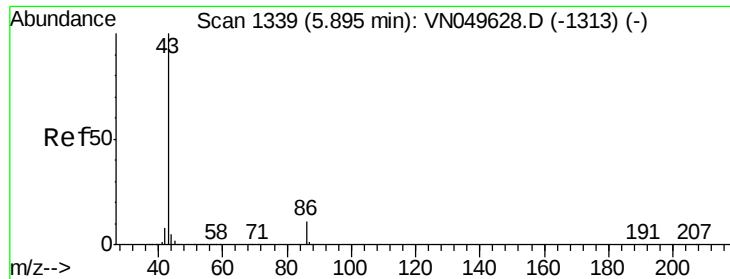
Tot Ion: 84 Resp: 71399
Ion Ratio Lower Upper
84 100
49 7.2 95.4 143.2#
51 53.9 28.4 42.6#
86 0.0 52.6 79.0#



#22
Diisopropyl ether
Concen: 0.51 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VN049672.D
Acq: 2 Jul 2018 16:27

Tgt Ion: 45 Resp: 31477
Ion Ratio Lower Upper
45 100
43 76.3 48.1 72.1#
87 30.2 22.6 34.0
59 12.4 9.2 13.8

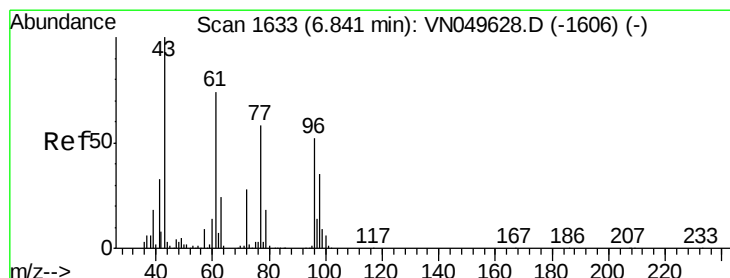
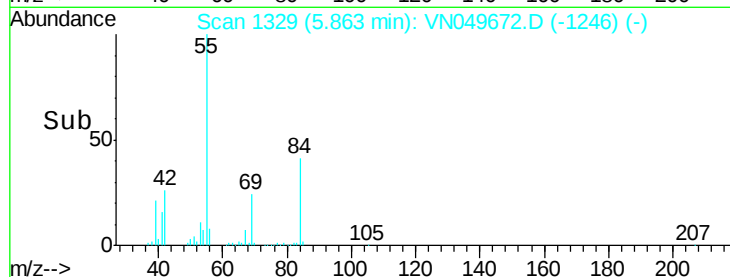
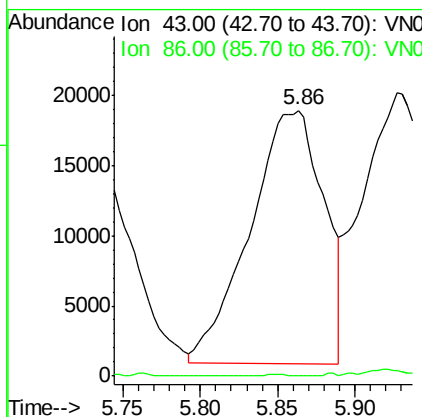
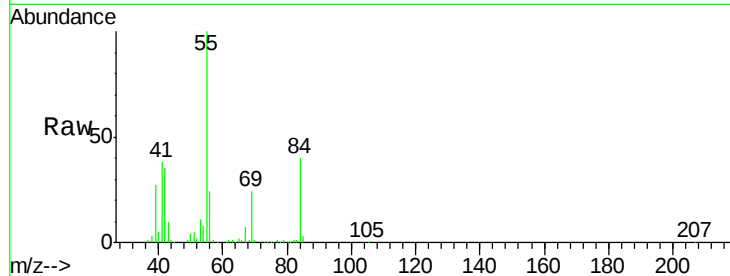




#23
 Vinyl Acetate
 Concen: 1.50 ug/l
 RT: 5.86 min Scan# 1329
 Delta R.T. -0.03 min
 Lab File: VN049672.D
 Acq: 2 Jul 2018 16:27

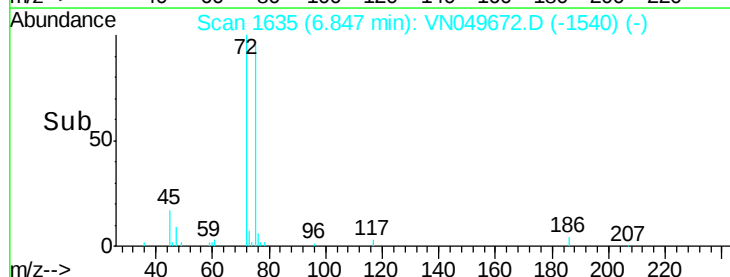
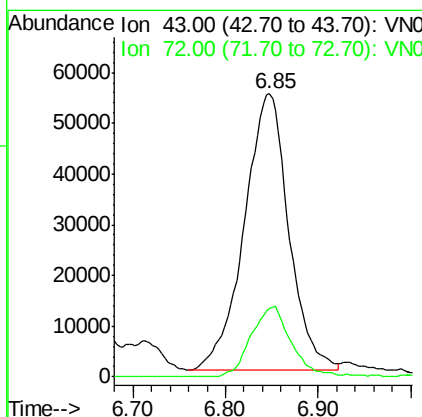
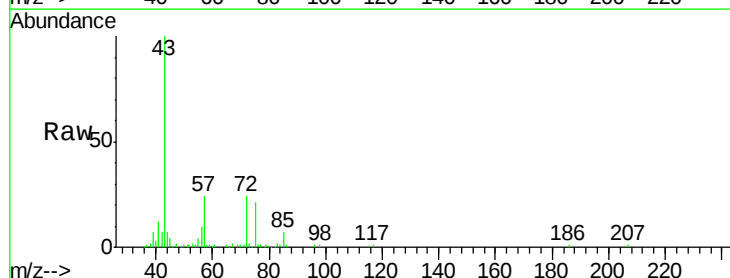
Instrument :
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 ClientSampleID :
 DRUM-13

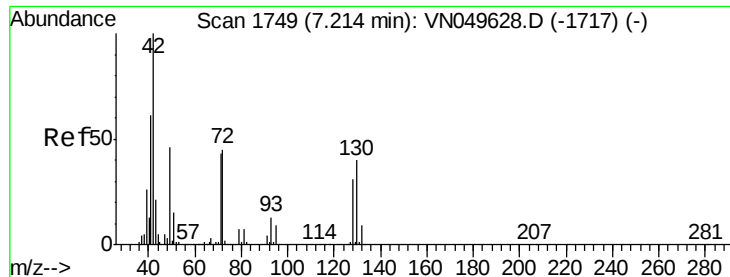
Tot Ion: 43 Resp: 59753
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.4 12.6#



#25
 2-Butanone
 Concen: 24.68 ug/l
 RT: 6.85 min Scan# 1635
 Delta R.T. 0.01 min
 Lab File: VN049672.D
 Acq: 2 Jul 2018 16:27

Tgt Ion: 43 Resp: 181629
 Ion Ratio Lower Upper
 43 100
 72 24.6 22.1 33.1





#29

Tetrahydrofuran

Concen: 0.60 ug/l

RT: 7.20 min Scan# 1746

Delta R.T. -0.01 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

DRUM-13

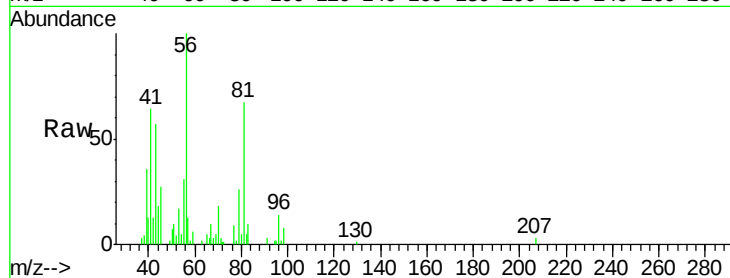
Tot Ion: 42 Resp: 2824

Ion Ratio Lower Upper

42 100

72 32.5 35.6 53.4#

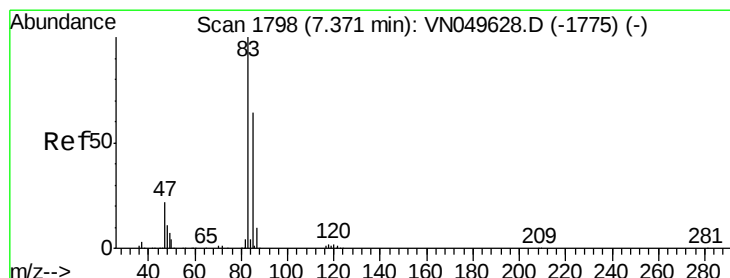
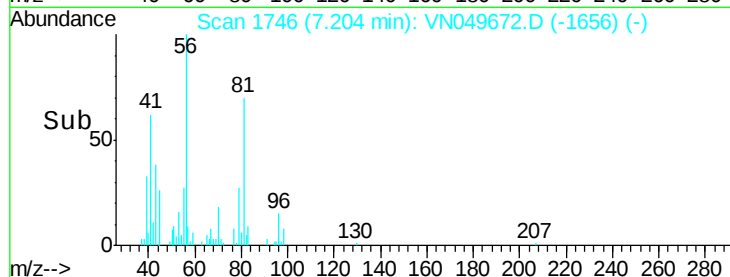
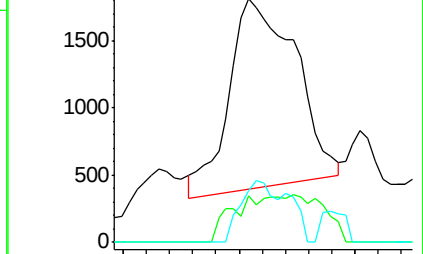
71 23.2 34.0 51.0#



Abundance Ion 42.00 (41.70 to 42.70): VN049672.D (-1656) (-)

Ion 72.00 (71.70 to 72.70): VN049672.D (-1656) (-)

Ion 71.00 (70.70 to 71.70): VN049672.D (-1656) (-)



#30

Chloroform

Concen: 3.98 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN049672.D

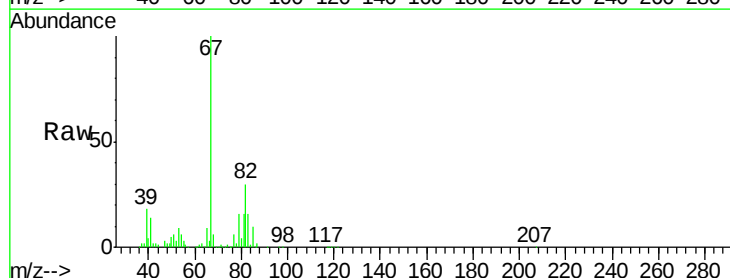
Acq: 2 Jul 2018 16:27

Tgt Ion: 83 Resp: 156505

Ion Ratio Lower Upper

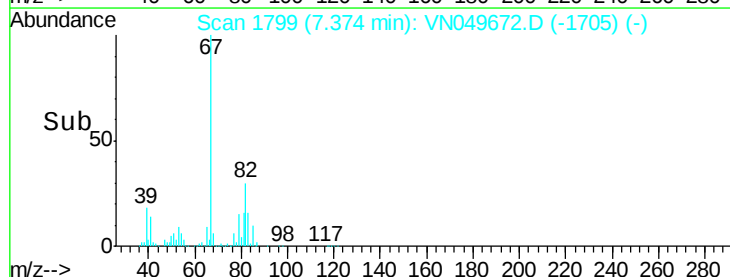
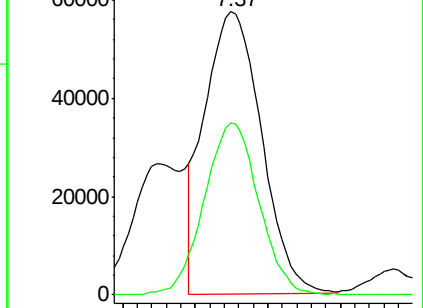
83 100

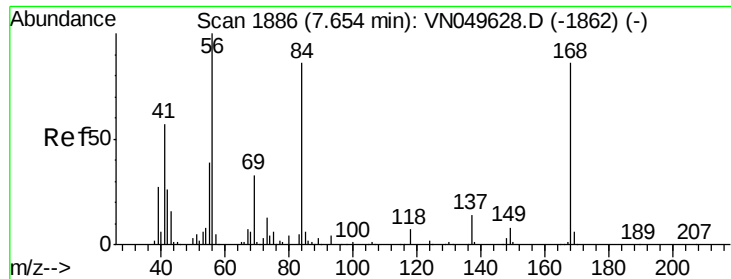
85 61.0 51.4 77.2



Abundance Ion 82.90 (82.60 to 83.60): VN049672.D (-1705) (-)

Ion 84.90 (84.60 to 85.60): VN049672.D (-1705) (-)





#31

Cyclohexane

Concen: 13.04 ug/l

RT: 7.65 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampled :

DRUM-13

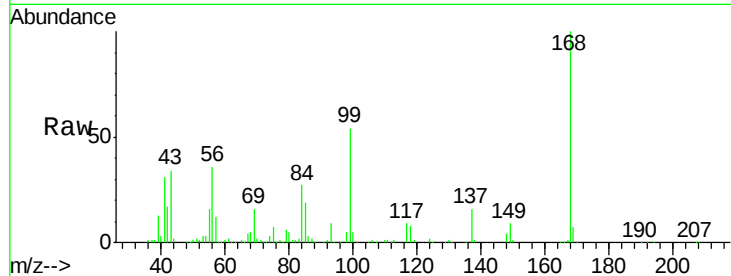
Tot Ion: 56 Resp: 449590

Ion Ratio Lower Upper

56 100

69 38.3 26.6 40.0

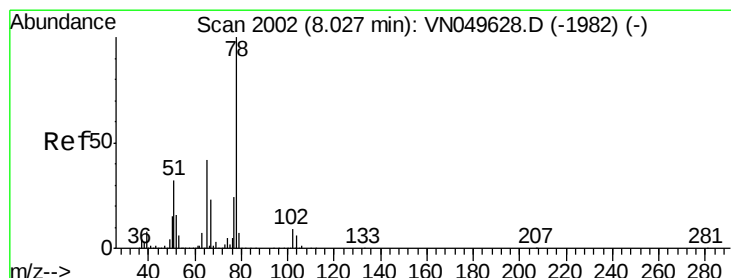
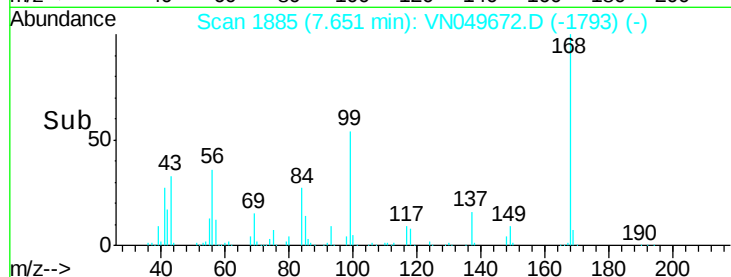
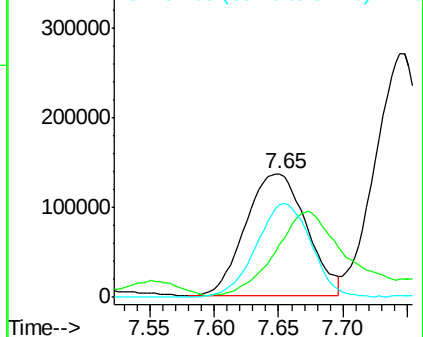
84 75.4 69.0 103.6



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: 45.38 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049672.D

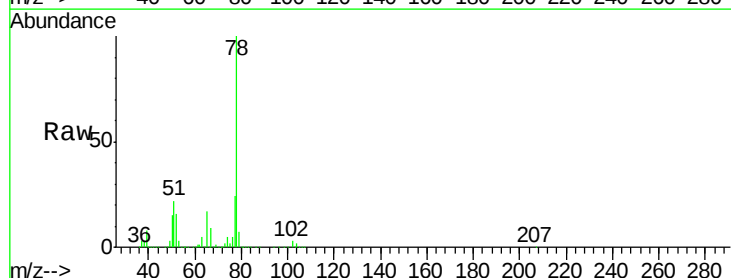
Acq: 2 Jul 2018 16:27

Tgt Ion: 65 Resp: 1006050

Ion Ratio Lower Upper

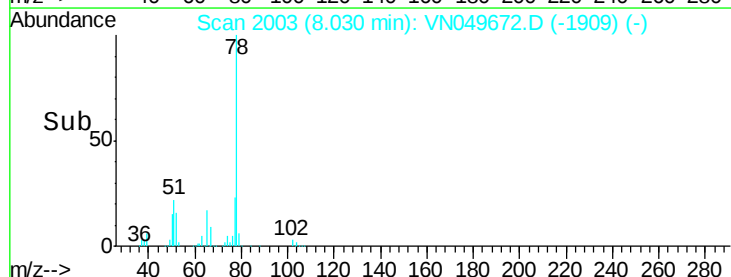
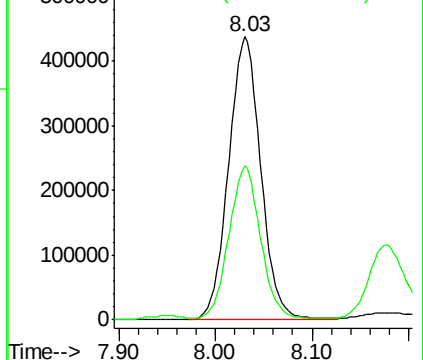
65 100

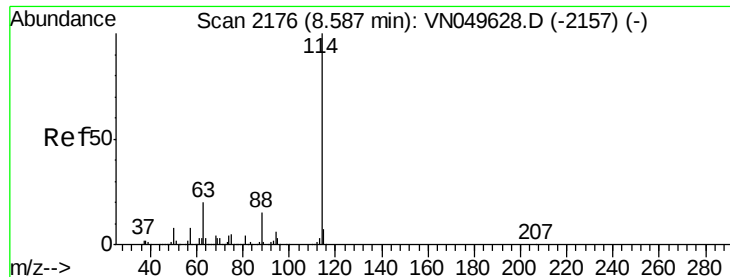
67 53.1 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

DRUM-13

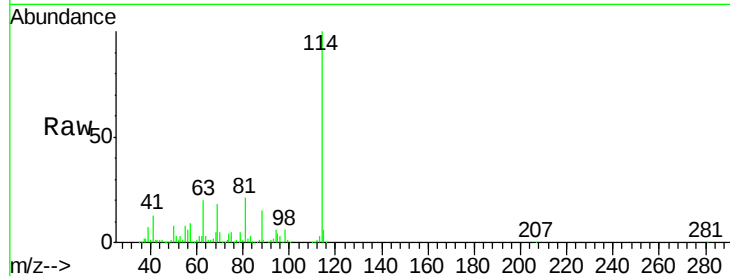
Tot Ion:114 Resp: 2476475

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.8

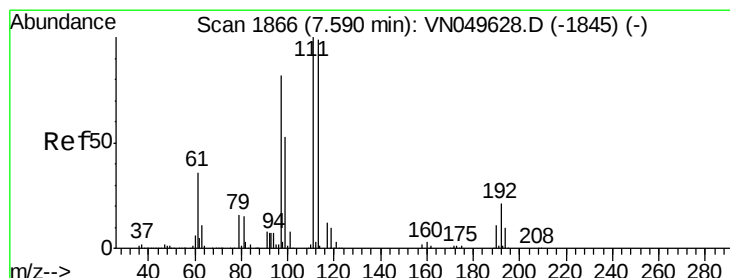
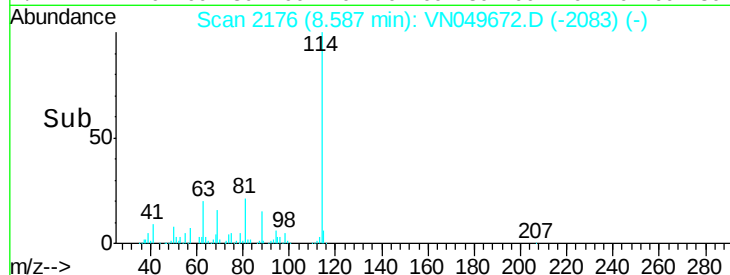
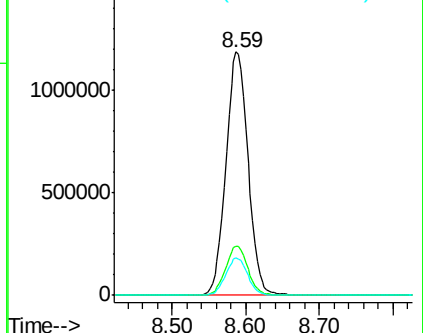
88 15.4 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 45.26 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

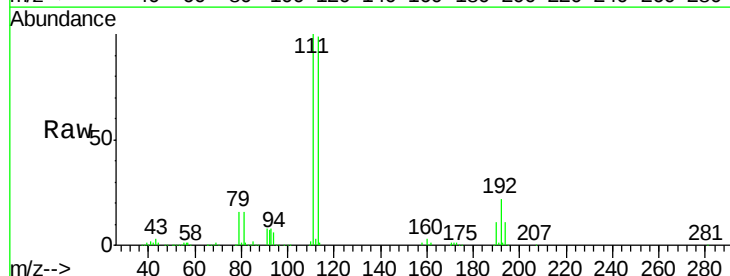
Tgt Ion:113 Resp: 838022

Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.8

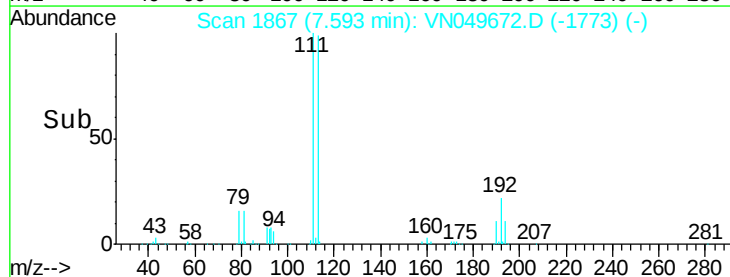
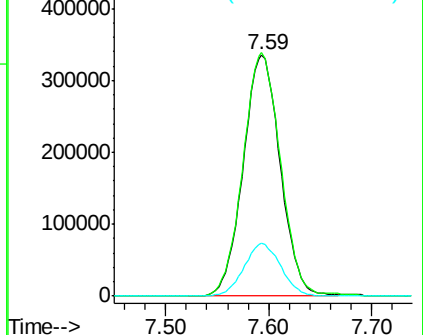
192 21.7 17.8 26.6

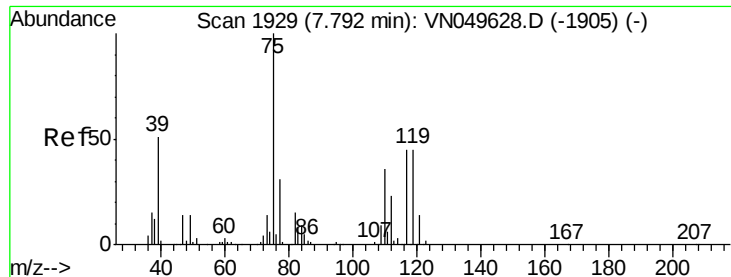


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.10 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

DRUM-13

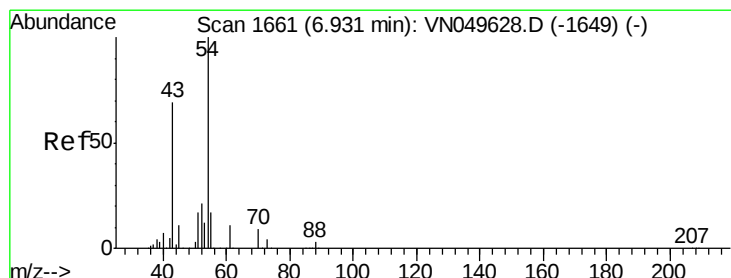
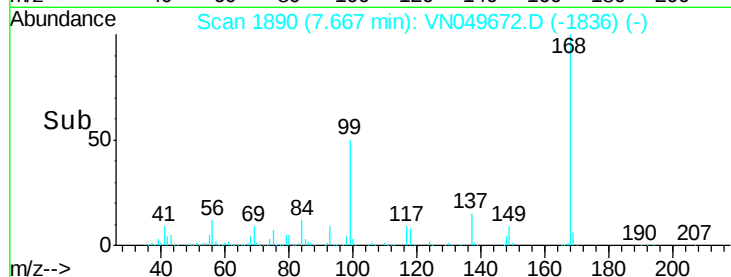
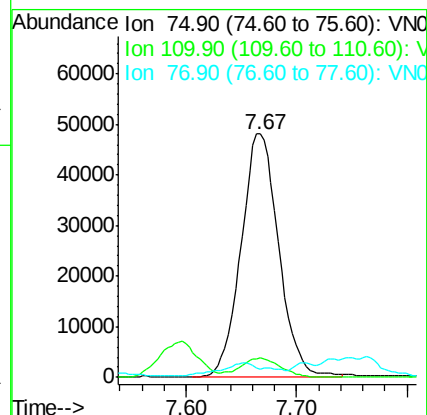
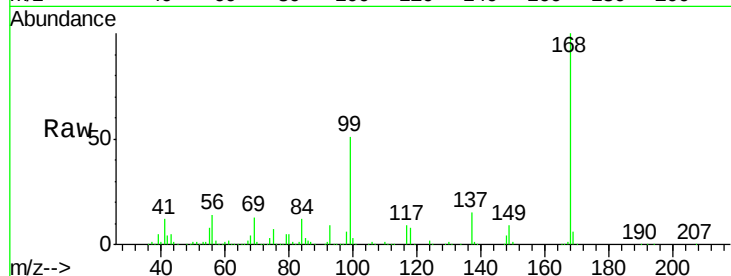
Tot Ion: 75 Resp: 114133

Ion Ratio Lower Upper

75 100

110 8.1 18.1 54.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 11.18 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. -0.08 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

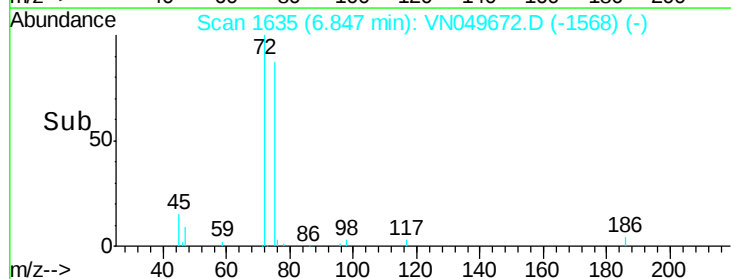
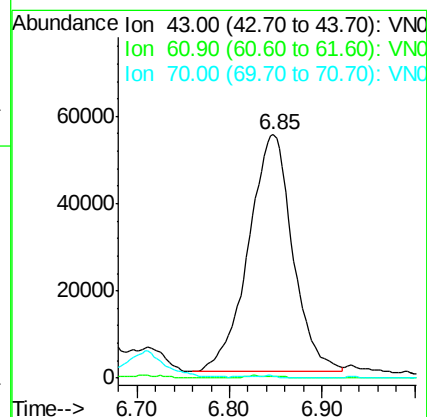
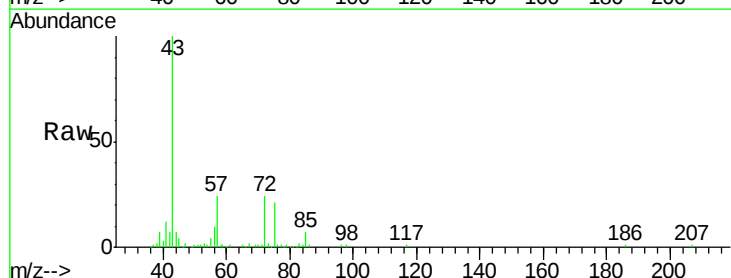
Tgt Ion: 43 Resp: 181629

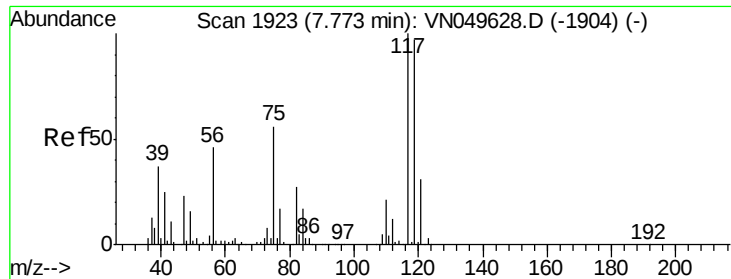
Ion Ratio Lower Upper

43 100

61 0.0 11.7 17.5#

70 0.0 8.4 12.6#

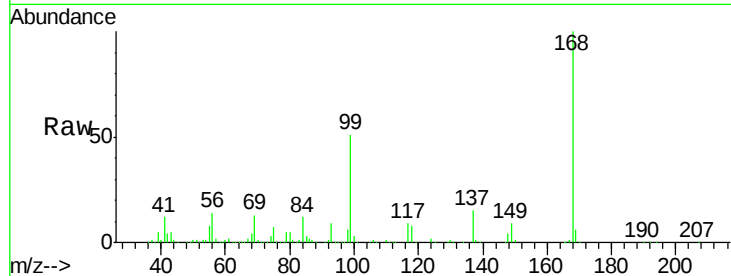




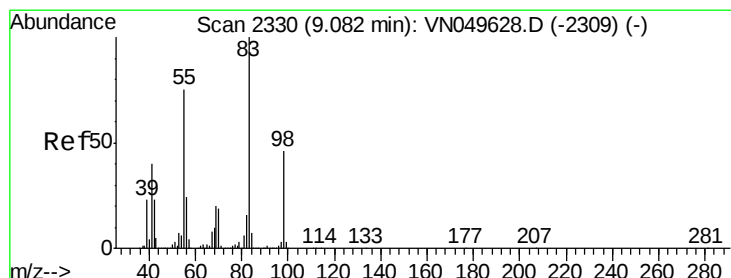
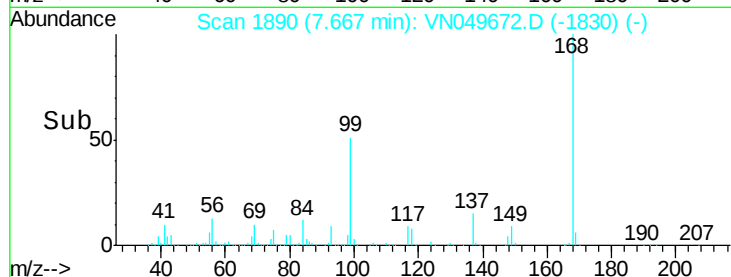
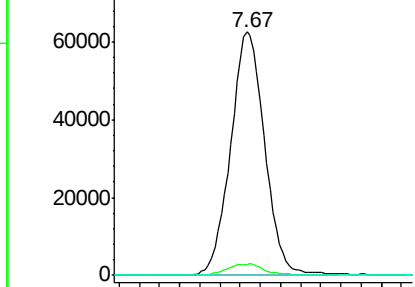
#38
Carbon Tetrachloride
Concen: 5.41 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049672.D
Acq: 2 Jul 2018 16:27

Instrument :
MSVOA_N
ClientSampleId :
DRUM-13

Tot Ion:117 Resp: 146645
Ion Ratio Lower Upper
117 100
119 4.6 77.2 115.8#
121 0.0 25.0 37.6#

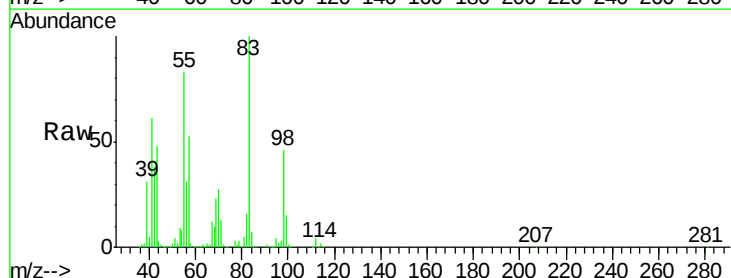


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

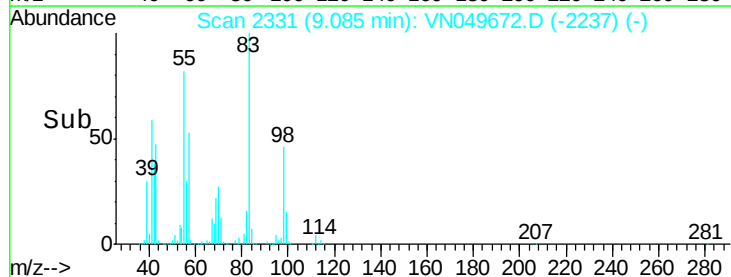
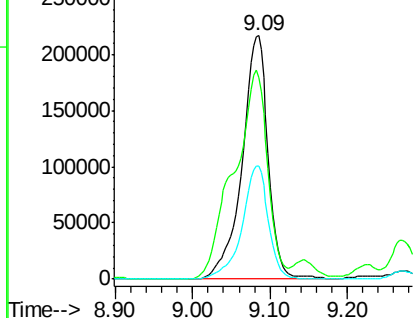


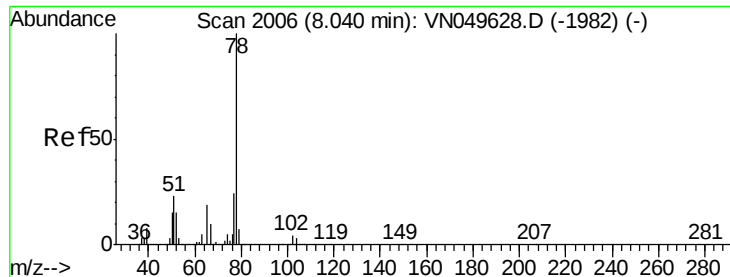
#39
Methylcyclohexane
Concen: 16.66 ug/l
RT: 9.09 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VN049672.D
Acq: 2 Jul 2018 16:27

Tgt Ion: 83 Resp: 509019
Ion Ratio Lower Upper
83 100
55 82.6 59.7 89.5
98 46.2 36.5 54.7



Abundance Ion 83.00 (82.70 to 83.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 98.00 (97.70 to 98.70): V





#40

Benzene

Concen: 101.80 ug/l

RT: 8.04 min Scan# 2007

Delta R.T. 0.00 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

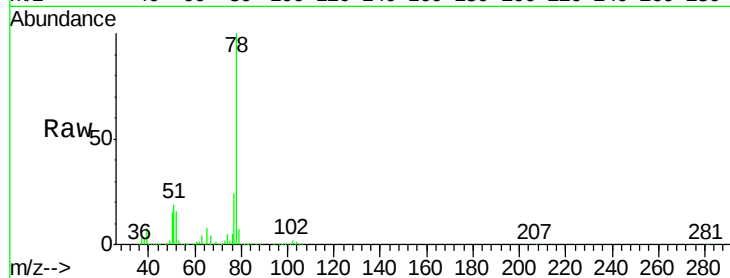
DRUM-13

Tot Ion: 78 Resp: 8660740

Ion Ratio Lower Upper

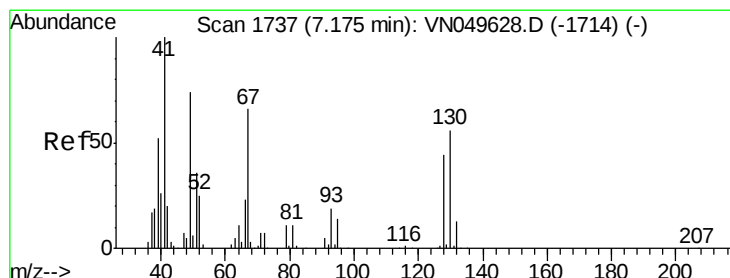
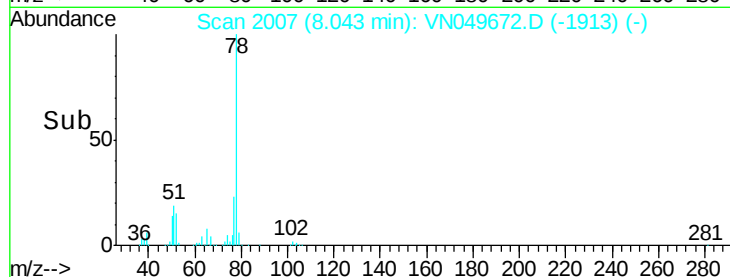
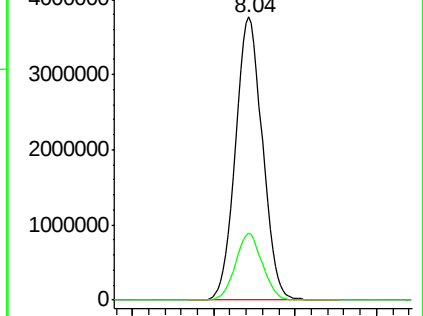
78 100

77 23.5 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#41

Methacrylonitrile

Concen: 3.29 ug/l

RT: 7.21 min Scan# 1749

Delta R.T. 0.04 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Tgt Ion: 41 Resp: 30147

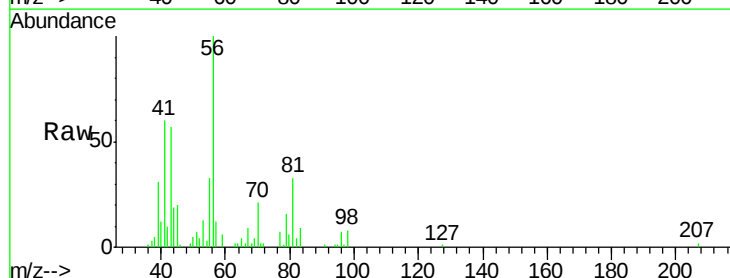
Ion Ratio Lower Upper

41 100

39 59.5 45.4 68.2

67 0.0 65.4 98.0#

52 0.0 24.7 37.1#

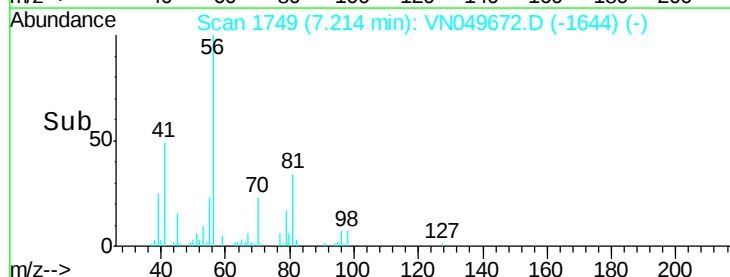
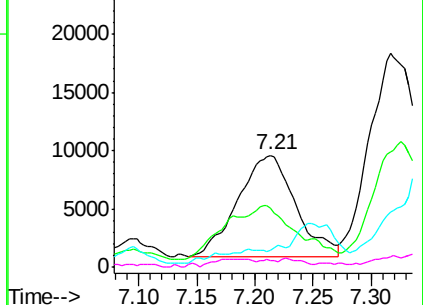


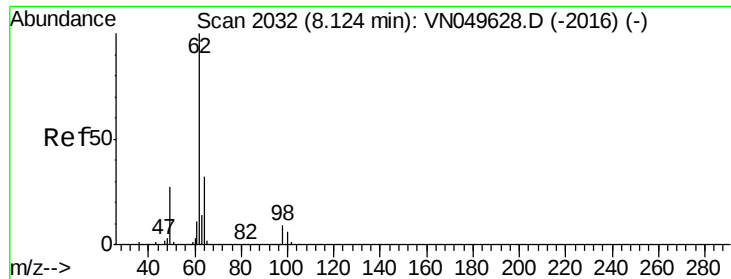
Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#42

1,2-Dichloroethane

Concen: 2.65 ug/l

RT: 8.04 min Scan# 2007

Delta R.T. -0.08 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

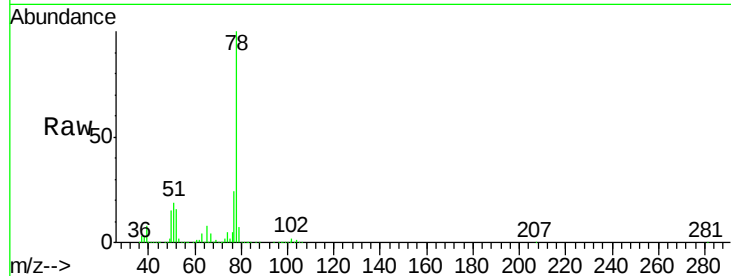
DRUM-13

Tot Ion: 62 Resp: 72019

Ion Ratio Lower Upper

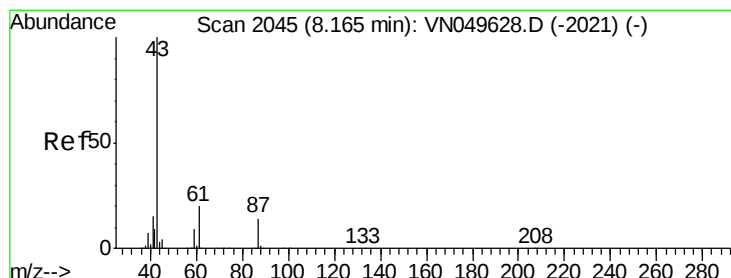
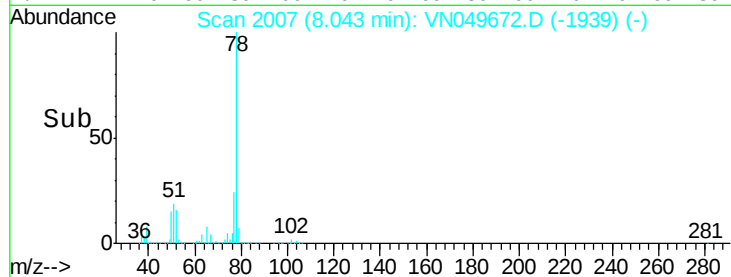
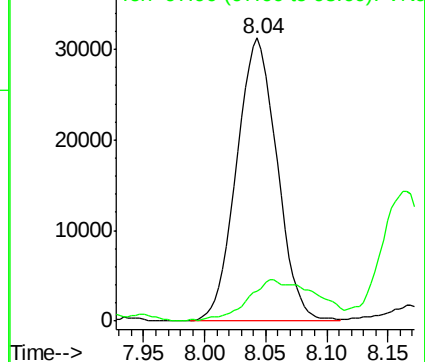
62 100

98 13.3 0.0 19.0



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#43

Isopropyl Acetate

Concen: 2.14 ug/l

RT: 8.15 min Scan# 2040

Delta R.T. -0.02 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

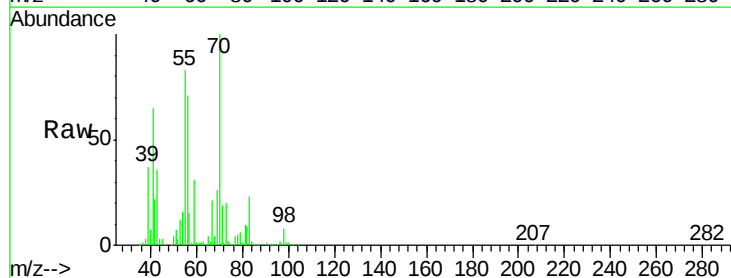
Tgt Ion: 43 Resp: 86820

Ion Ratio Lower Upper

43 100

61 4.3 14.9 22.3#

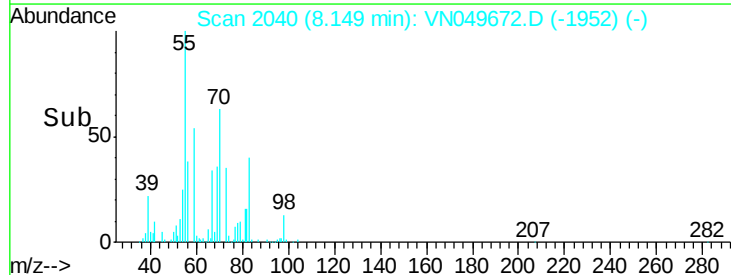
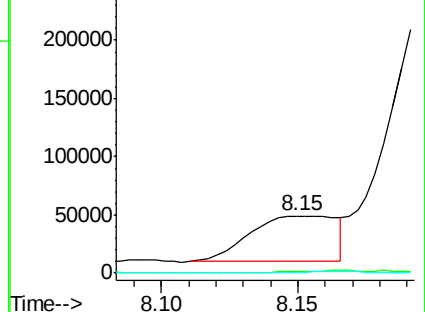
87 3.0 10.0 15.0#

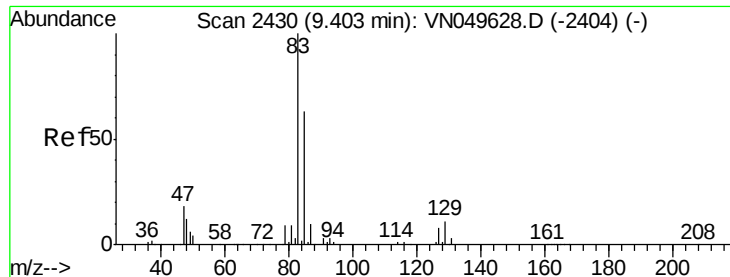


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#47

Bromodichloromethane

Concen: 0.33 ug/l

RT: 9.39 min Scan# 2425

Delta R.T. -0.02 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampled :

DRUM-13

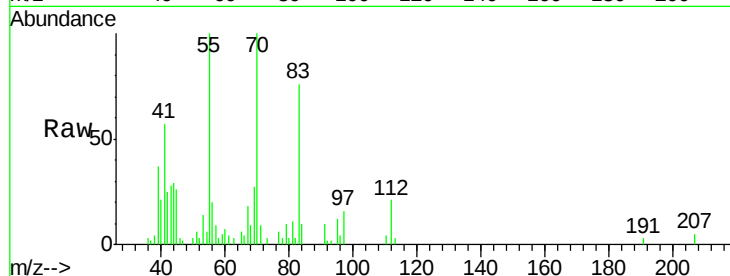
Tot Ion: 83 Resp: 9307

Ion Ratio Lower Upper

83 100

85 0.0 50.5 75.7#

127 0.0 6.8 10.2#

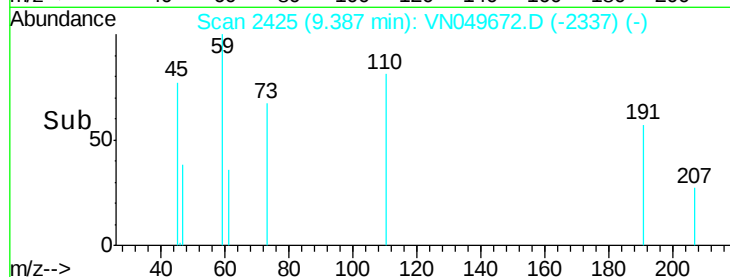


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

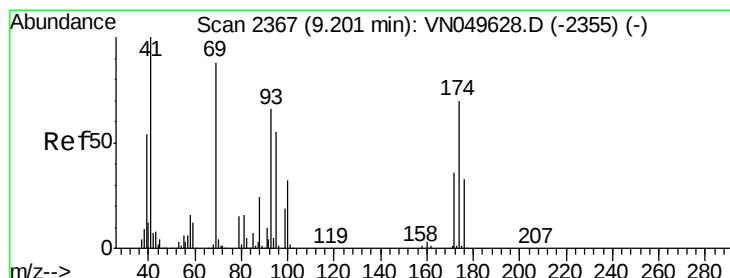
Ion 126.80 (126.50 to 127.50): VN0

Time-->



9.39

Time-->



#48

Methyl methacrylate

Concen: 5.29 ug/l

RT: 9.22 min Scan# 2373

Delta R.T. 0.02 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

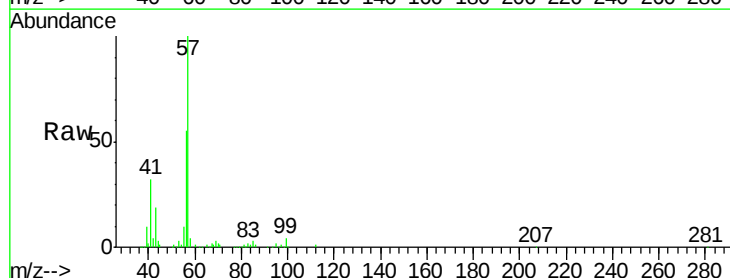
Tgt Ion: 41 Resp: 76360

Ion Ratio Lower Upper

41 100

69 6.0 71.5 107.3#

39 32.0 44.7 67.1#

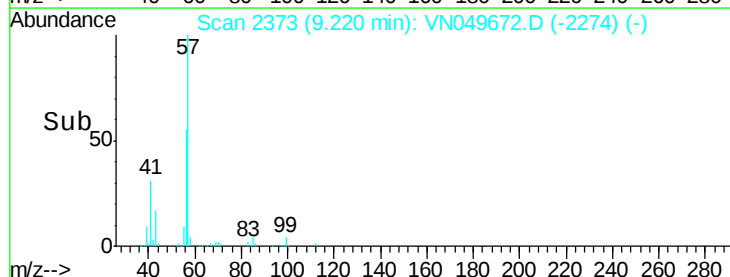


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

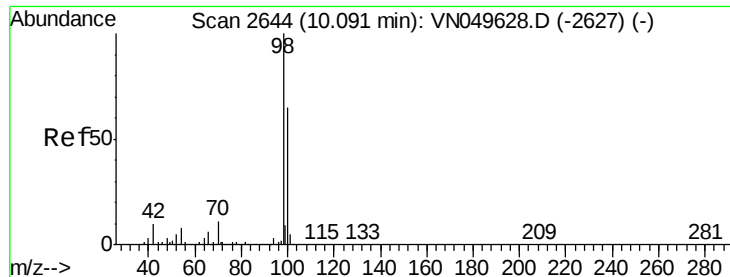
Ion 39.00 (38.70 to 39.70): VN0

Time-->



9.22

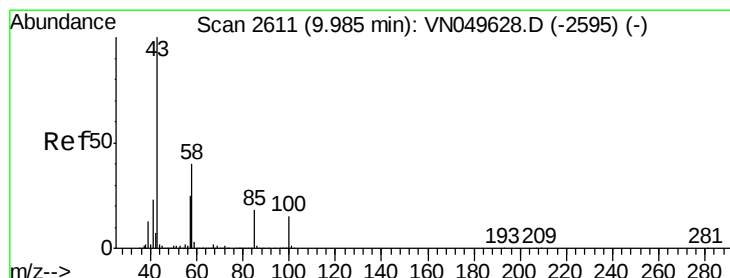
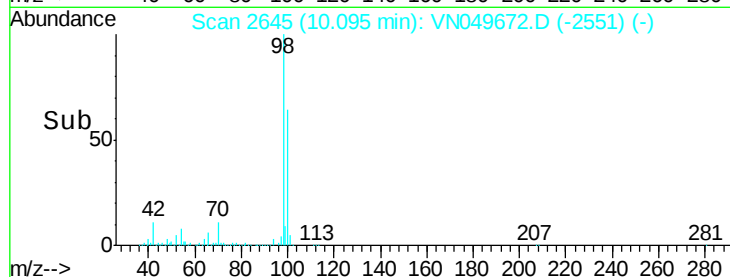
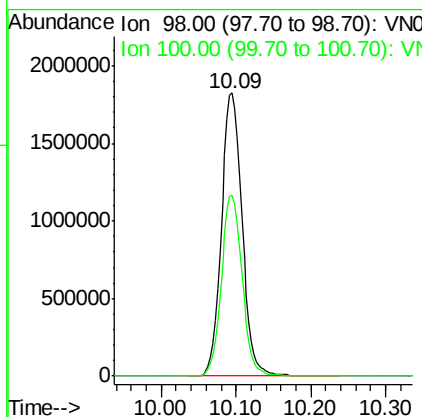
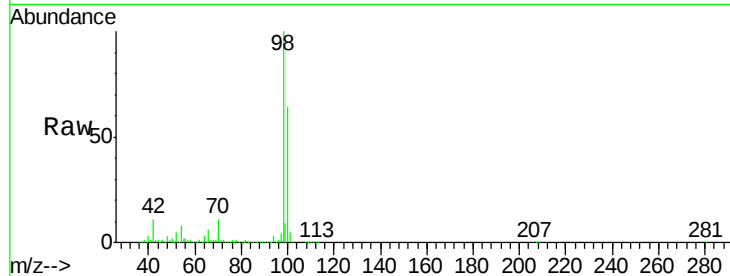
Time-->



#50
Toluene-d8
Concen: 48.03 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049672.D
Acq: 2 Jul 2018 16:27

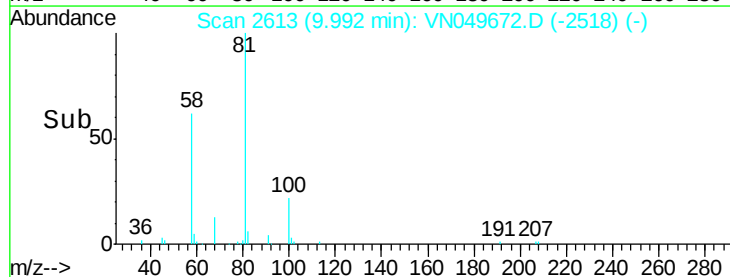
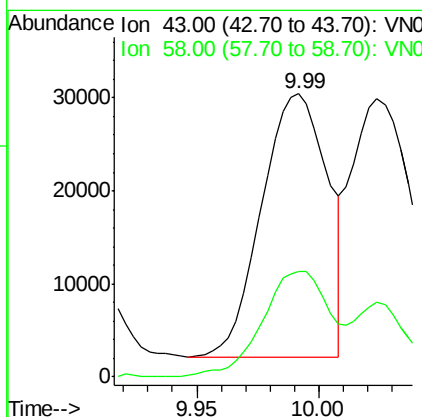
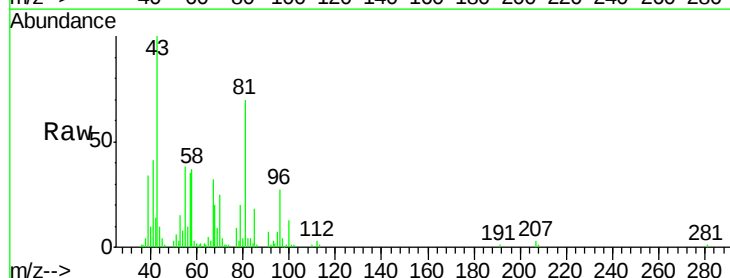
Instrument :
MSVOA_N
ClientSampleId :
DRUM-13

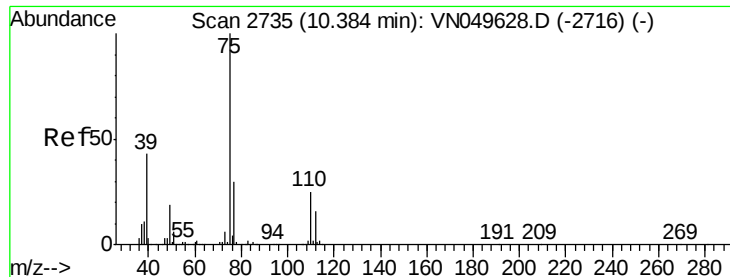
Tot Ion: 98 Resp: 3480529
Ion Ratio Lower Upper
98 100
100 64.0 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 3.33 ug/l
RT: 9.99 min Scan# 2613
Delta R.T. 0.01 min
Lab File: VN049672.D
Acq: 2 Jul 2018 16:27

Tgt Ion: 43 Resp: 52993
Ion Ratio Lower Upper
43 100
58 41.7 31.8 47.8





#53

t-1,3-Dichloropropene

Concen: 33.07 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. -0.22 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

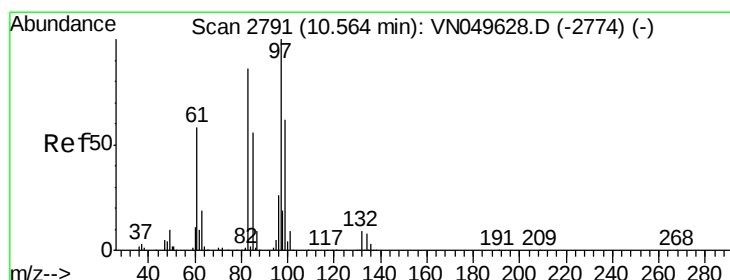
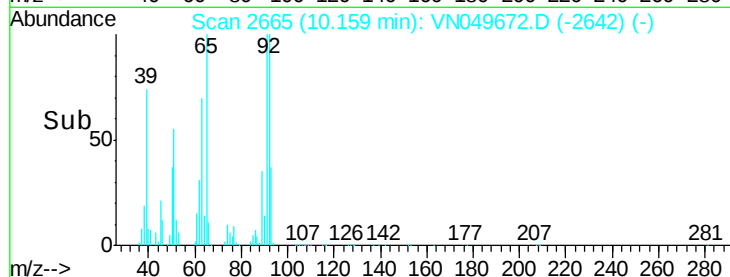
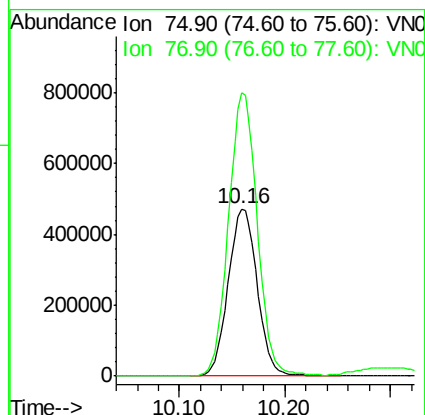
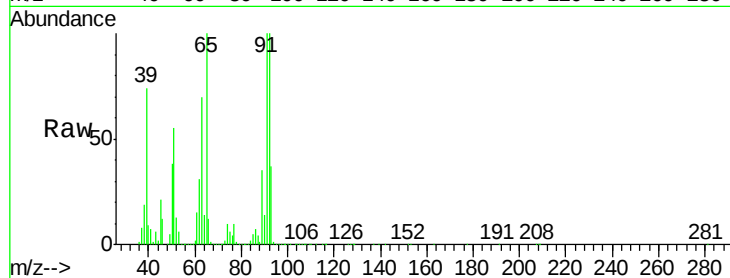
DRUM-13

Tot Ion: 75 Resp: 896418

Ion Ratio Lower Upper

75 100

77 169.1 25.2 37.8#



#55

1,1,2-Trichloroethane

Concen: 2.42 ug/l

RT: 10.54 min Scan# 2782

Delta R.T. -0.03 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Tgt Ion: 97 Resp: 46405

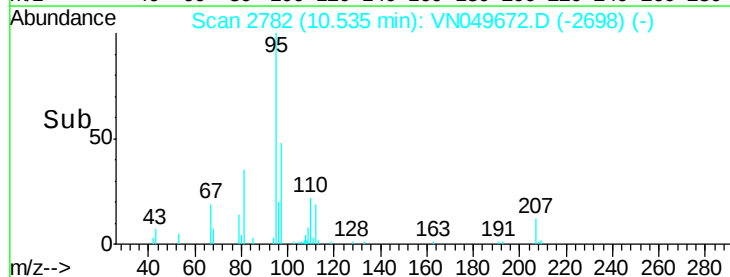
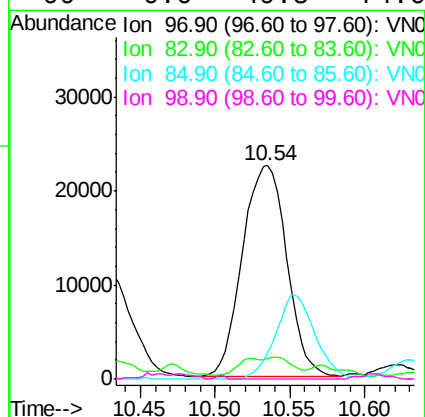
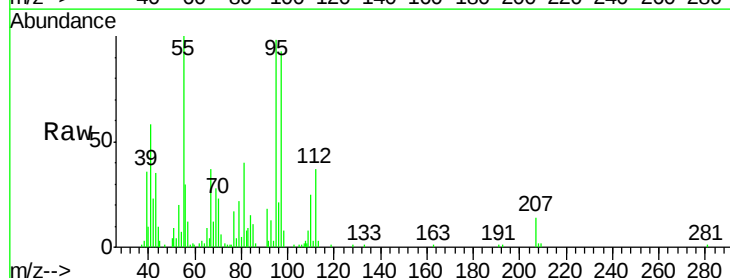
Ion Ratio Lower Upper

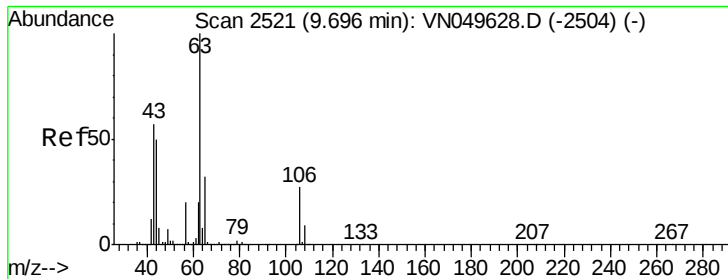
97 100

83 6.6 69.0 103.6#

85 12.1 44.9 67.3#

99 0.0 49.8 74.6#

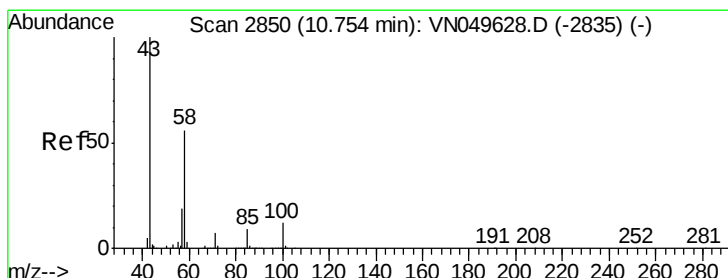
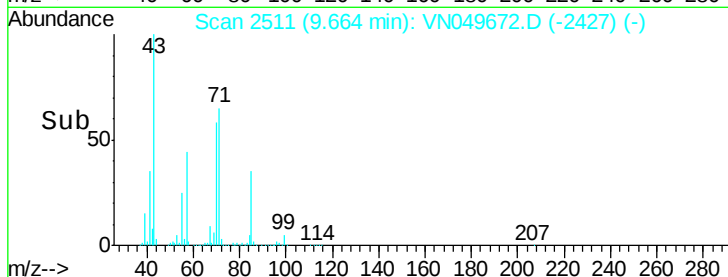
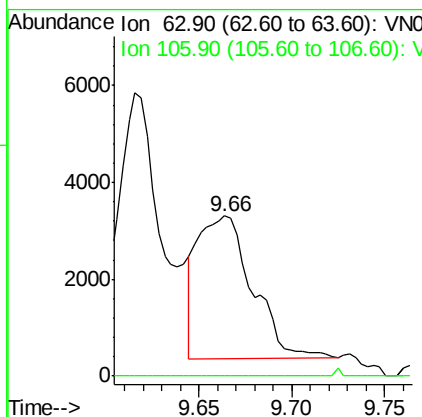
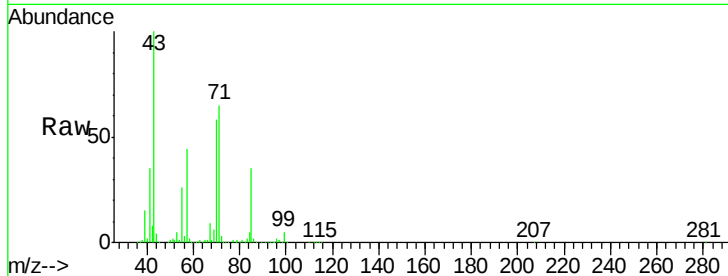




#58
2-Chloroethyl Vinyl ether
Concen: 11.31 ug/l
RT: 9.66 min Scan# 2511
Delta R.T. -0.03 min
Lab File: VN049672.D
Acq: 2 Jul 2018 16:27

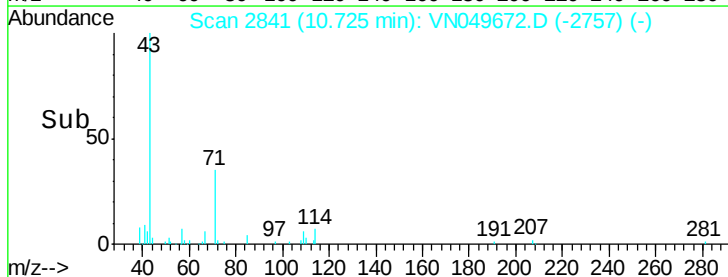
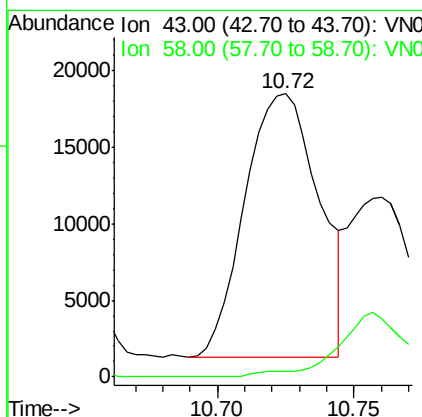
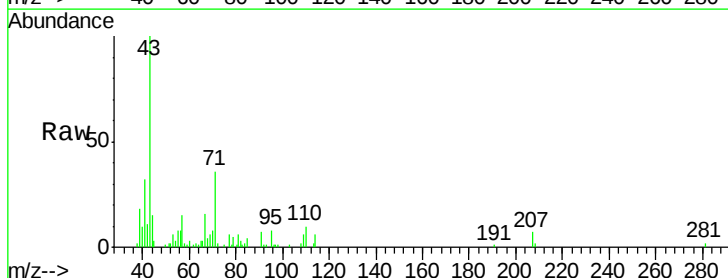
Instrument :
MSVOA_N
ClientSampleId :
DRUM-13

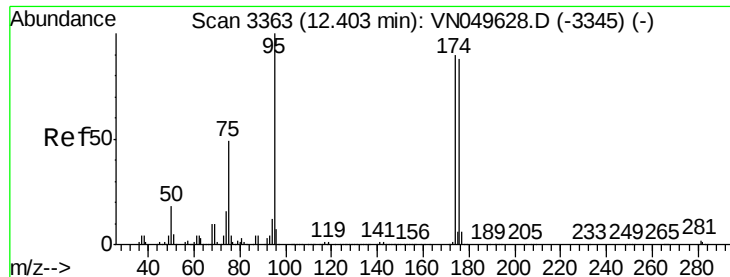
Tot Ion: 63 Resp: 5995
Ion Ratio Lower Upper
63 100
106 0.0 21.8 32.8#



#59
2-Hexanone
Concen: 3.09 ug/l
RT: 10.72 min Scan# 2841
Delta R.T. -0.03 min
Lab File: VN049672.D
Acq: 2 Jul 2018 16:27

Tgt Ion: 43 Resp: 32510
Ion Ratio Lower Upper
43 100
58 1.1 27.8 83.4#

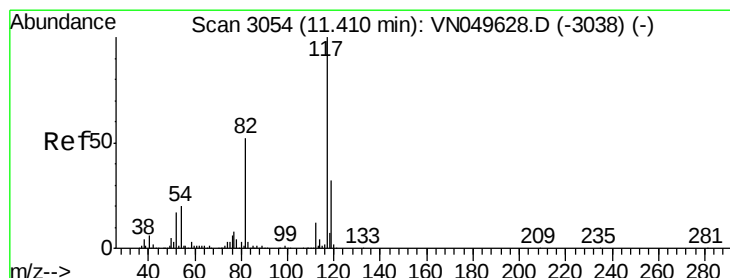
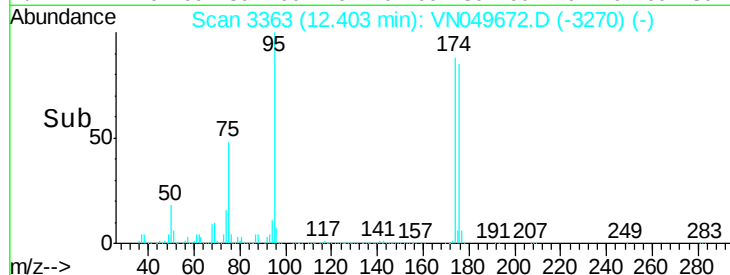
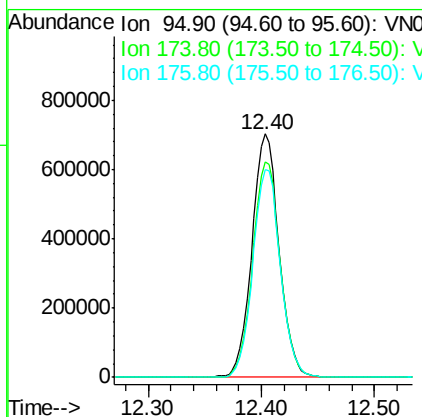
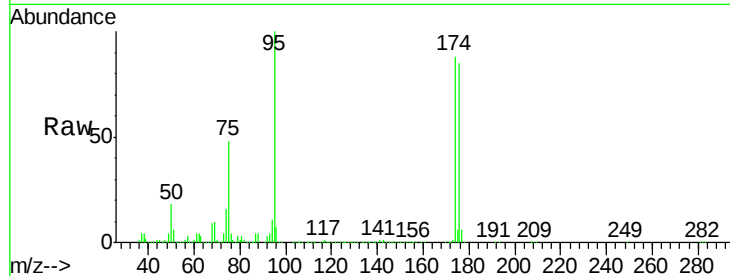




#62
4-Bromofluorobenzene
Concen: 47.18 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049672.D
Acq: 2 Jul 2018 16:27

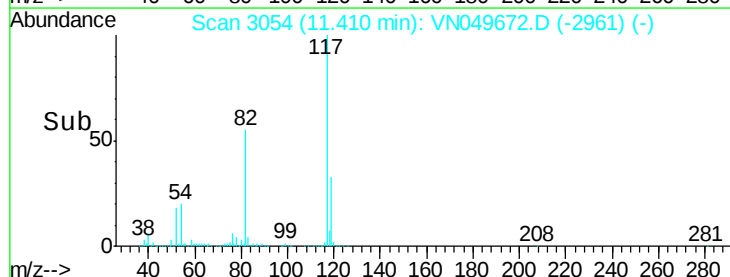
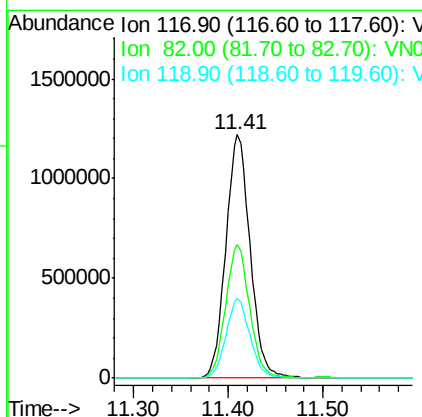
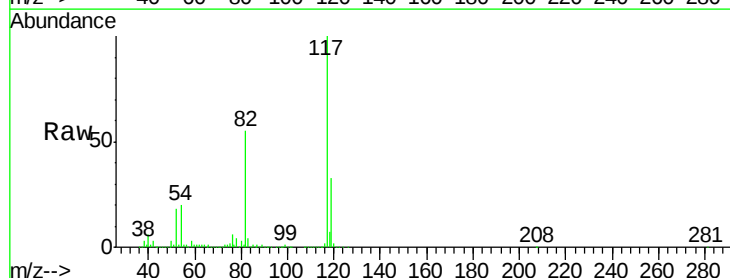
Instrument :
MSVOA_N
ClientSampled :
DRUM-13

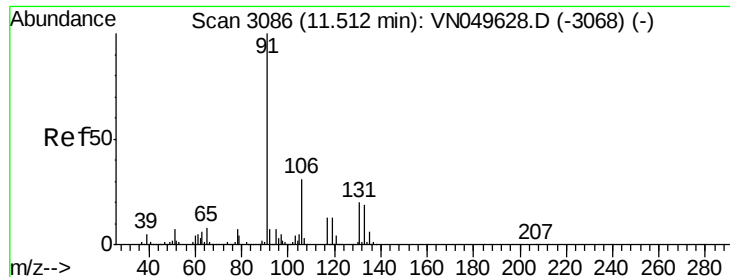
Tot Ion: 95 Resp: 1167411
Ion Ratio Lower Upper
95 100
174 89.8 0.0 179.6
176 86.7 0.0 174.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049672.D
Acq: 2 Jul 2018 16:27

Tgt Ion: 117 Resp: 2172675
Ion Ratio Lower Upper
117 100
82 55.0 41.9 62.9
119 32.6 25.4 38.2





#67

Ethyl Benzene

Concen: 77.92 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampled :

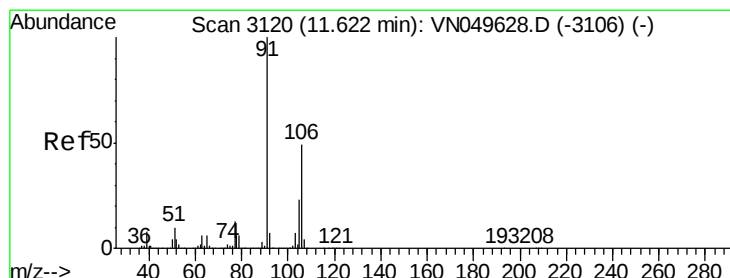
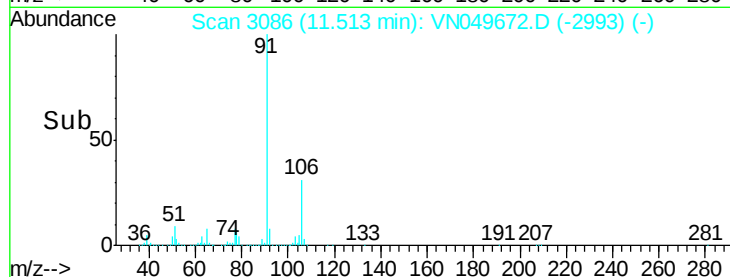
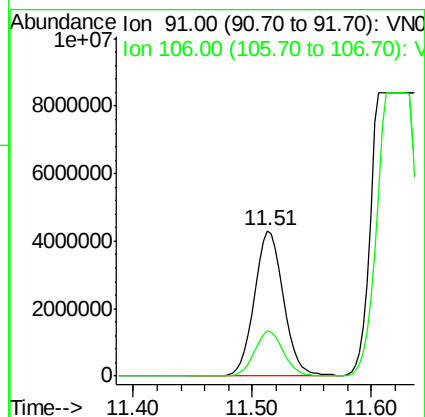
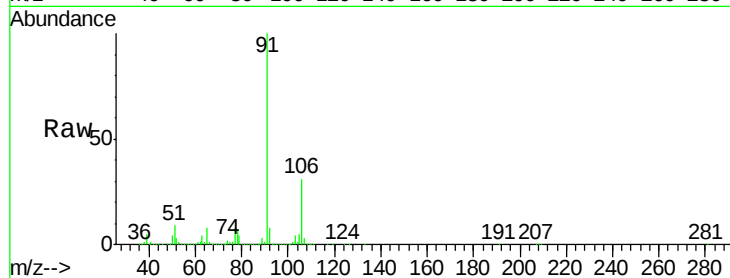
DRUM-13

Tot Ion: 91 Resp: 7300031

Ion Ratio Lower Upper

91 100

106 31.0 24.8 37.2



#68

m/p-Xylenes

Concen: 63.11 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. -0.11 min

Lab File: VN049672.D

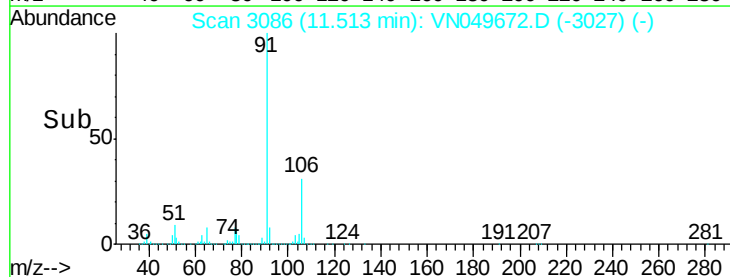
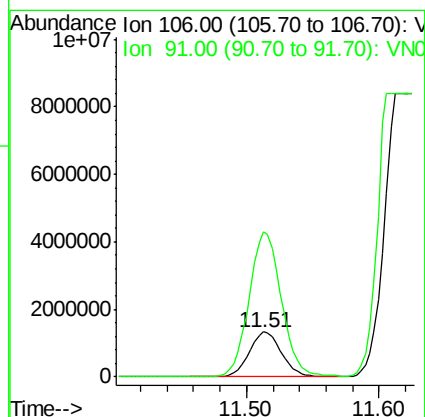
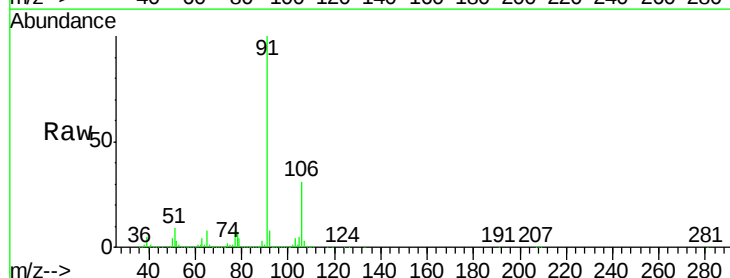
Acq: 2 Jul 2018 16:27

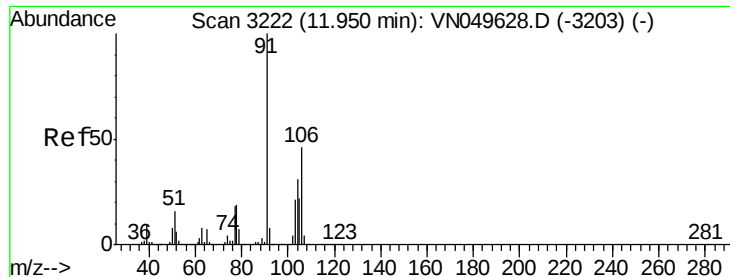
Tgt Ion:106 Resp: 2266128

Ion Ratio Lower Upper

106 100

91 322.1 163.4 245.2#





#69

o-Xylene

Concen: 270.37 ug/l

RT: 11.95 min Scan# 3222

Delta R.T. 0.00 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

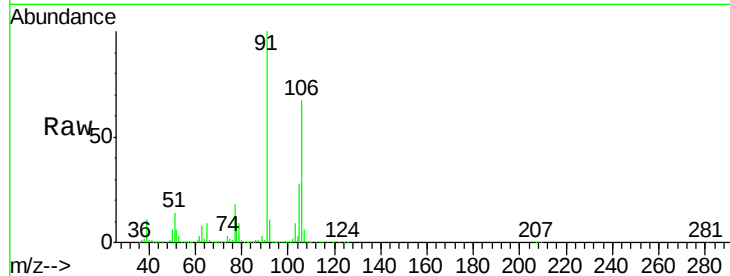
DRUM-13

Tot Ion:106 Resp: 9294191

Ion Ratio Lower Upper

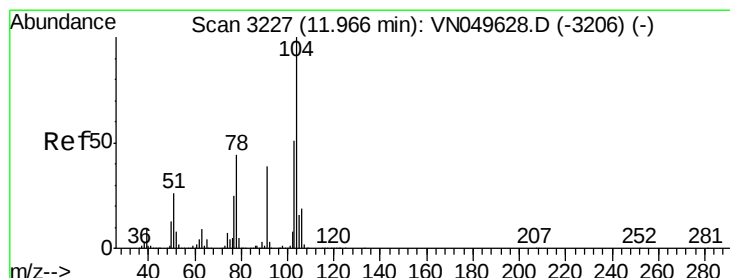
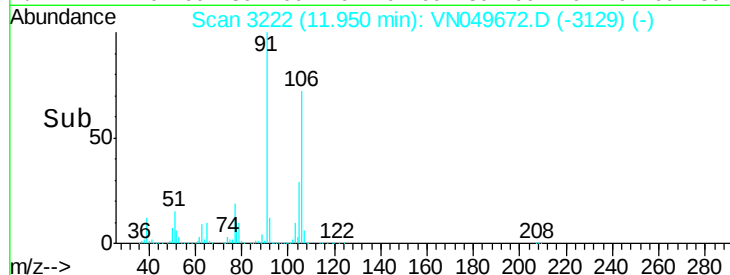
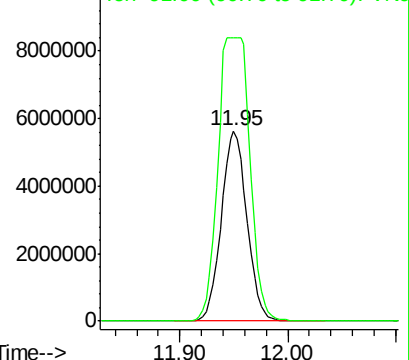
106 100

91 0.0 108.7 326.1#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#70

Styrene

Concen: 8.58 ug/l

RT: 11.95 min Scan# 3222

Delta R.T. -0.02 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

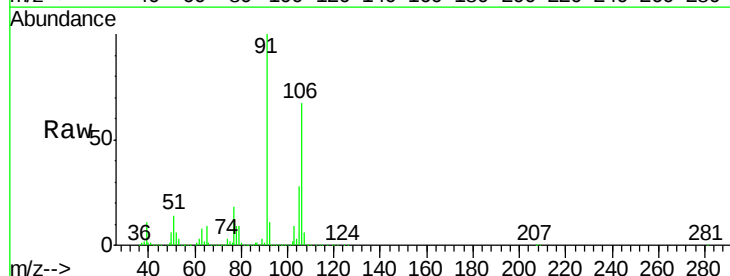
Tgt Ion:104 Resp: 477323

Ion Ratio Lower Upper

104 100

78 274.9 39.2 58.8#

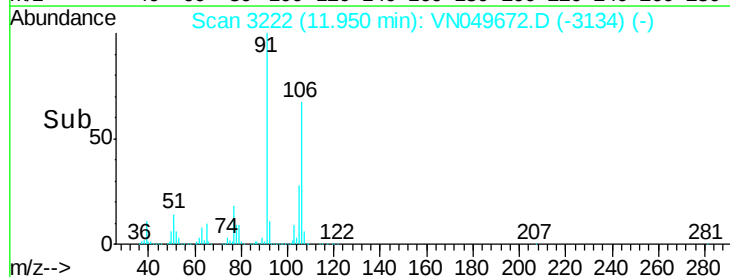
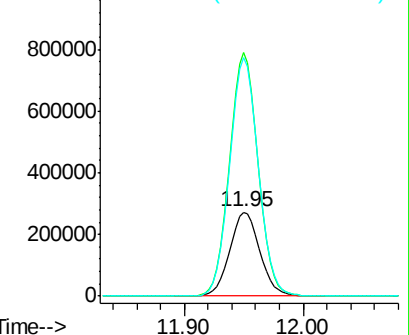
103 270.1 44.6 67.0#

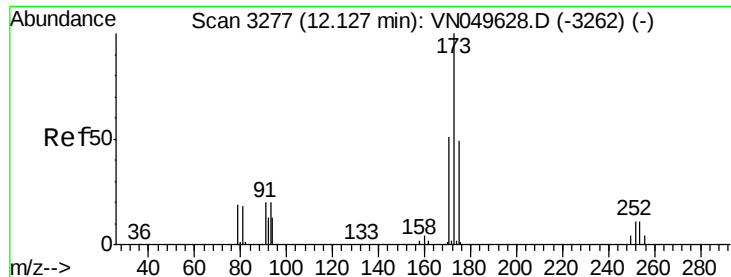


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V

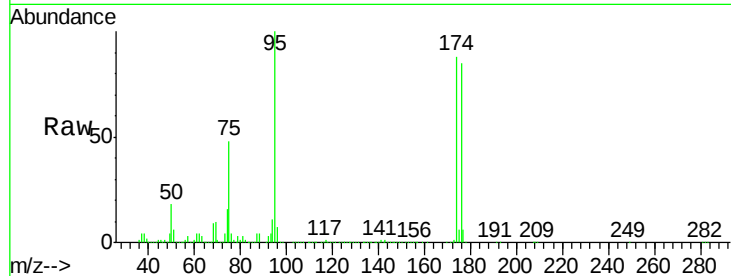




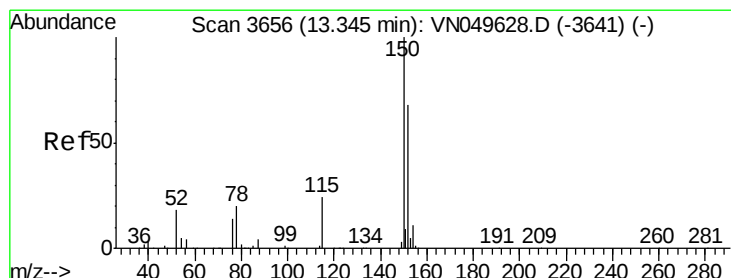
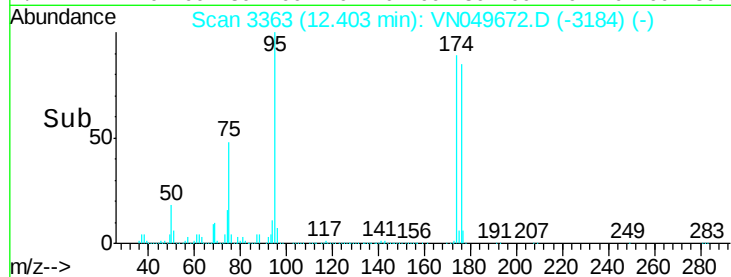
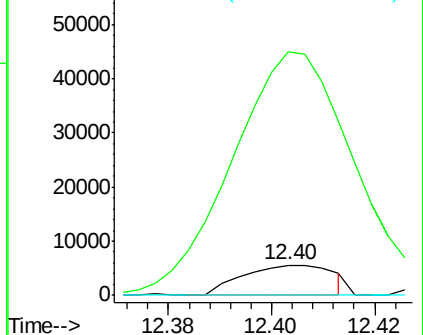
#71
Bromoform
Concen: 0.50 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049672.D
Acq: 2 Jul 2018 16:27

Instrument :
MSVOA_N
ClientSampleId :
DRUM-13

Tot Ion:173 Resp: 6724
Ion Ratio Lower Upper
173 100
175 907.8 24.6 73.8#
254 0.0 0.2 0.2#

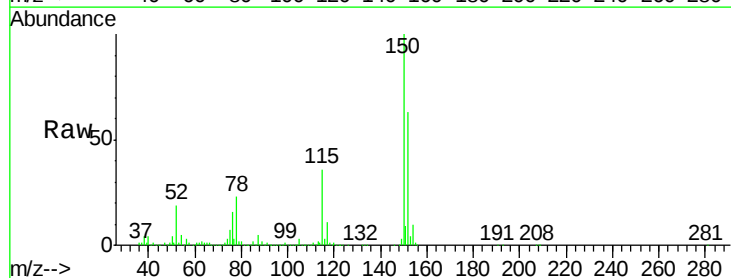


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

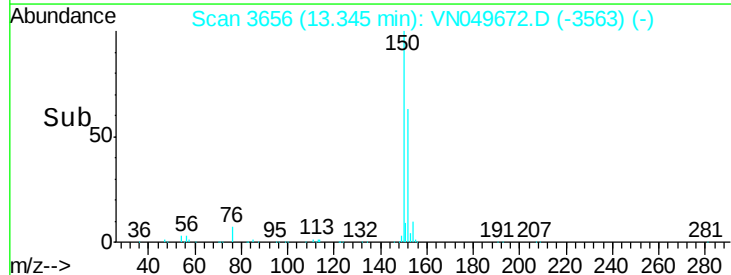
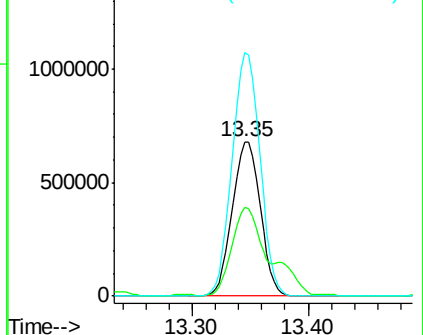


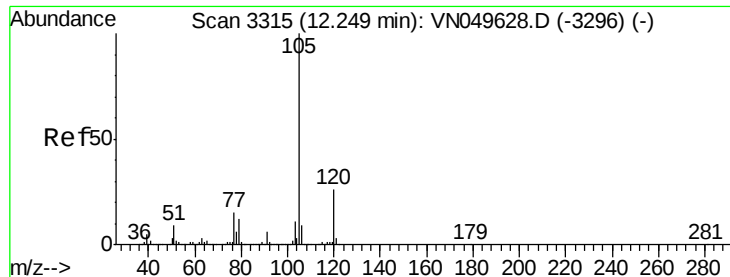
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN049672.D
Acq: 2 Jul 2018 16:27

Tgt Ion:152 Resp: 1135888
Ion Ratio Lower Upper
152 100
115 61.3 28.1 84.2
150 156.8 0.0 347.6



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





#73

Isopropylbenzene

Concen: 12.44 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

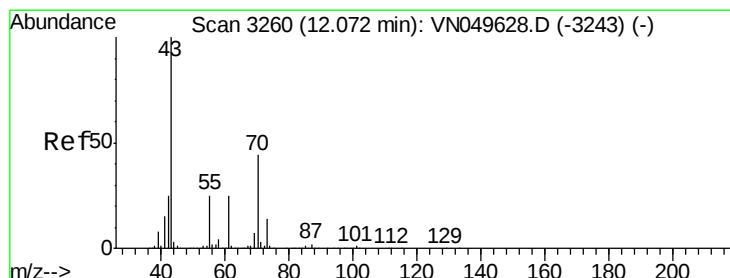
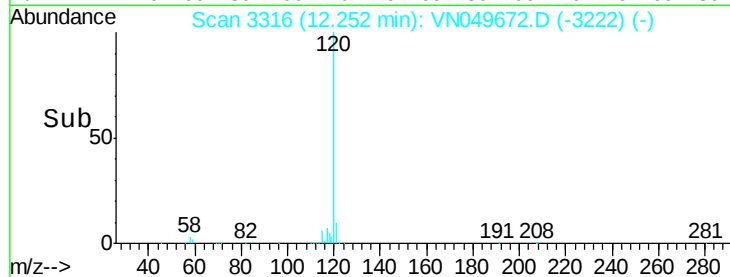
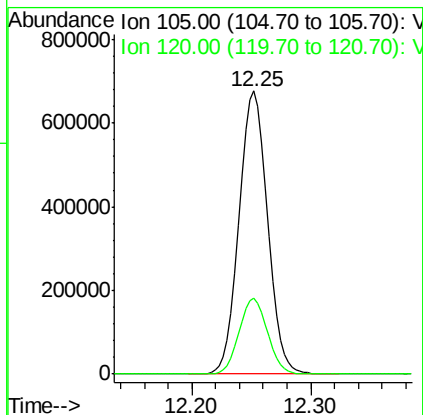
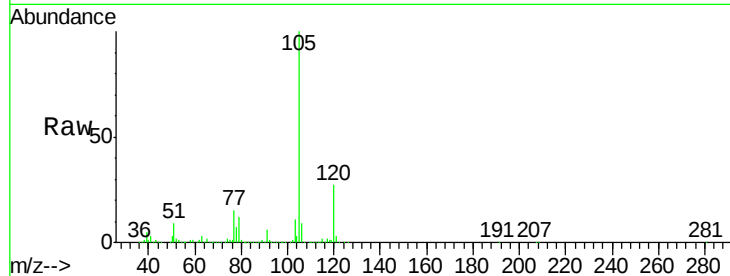
DRUM-13

Tot Ion:105 Resp: 1125543

Ion Ratio Lower Upper

105 100

120 26.7 13.3 39.8



#74

N-ethyl acetate

Concen: 0.42 ug/l

RT: 12.03 min Scan# 3247

Delta R.T. -0.04 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Tgt Ion: 43 Resp: 10449

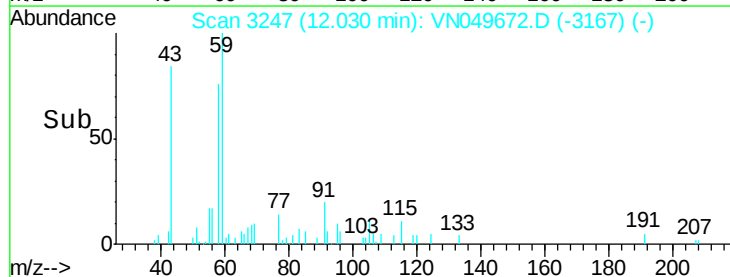
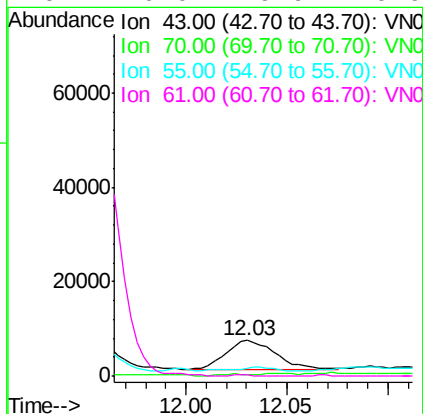
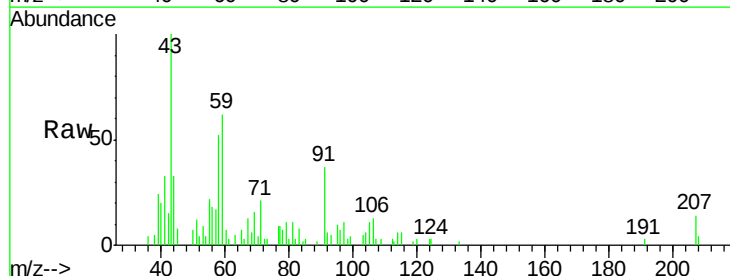
Ion Ratio Lower Upper

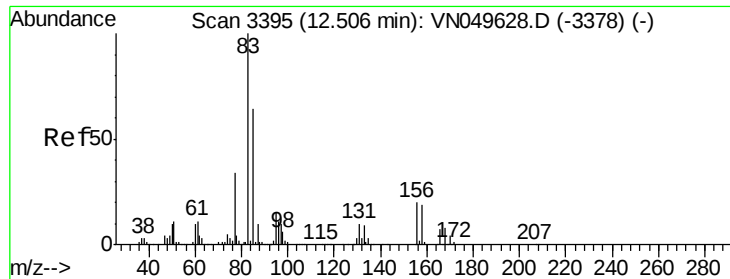
43 100

70 4.0 34.8 52.2#

55 8.7 20.9 31.3#

61 0.0 19.9 29.9#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

DRUM-13

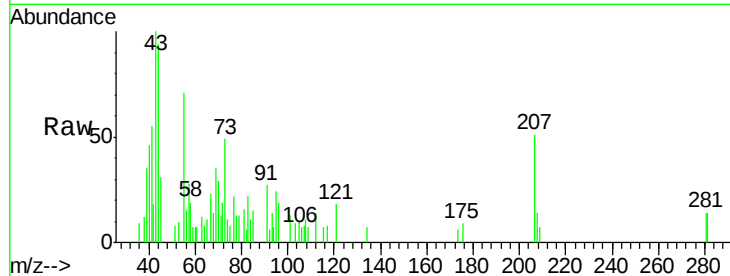
Tot Ion: 83 Resp: 400

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

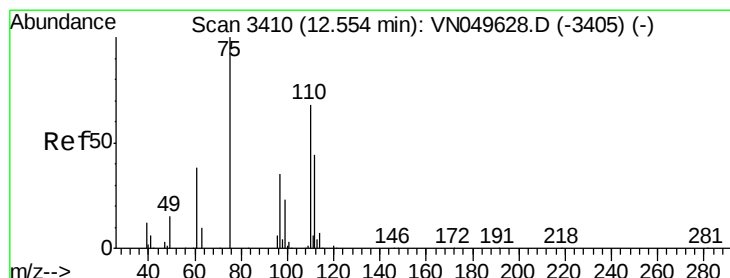
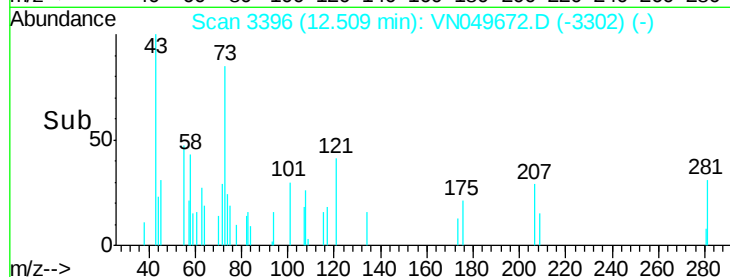
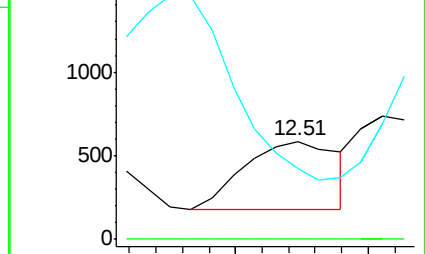
85 601.8 32.5 97.4#



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 5.36 ug/l

RT: 12.66 min Scan# 3442

Delta R.T. 0.10 min

Lab File: VN049672.D

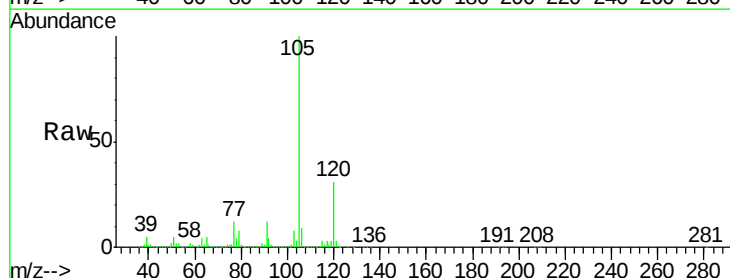
Acq: 2 Jul 2018 16:27

Tgt Ion: 75 Resp: 97692

Ion Ratio Lower Upper

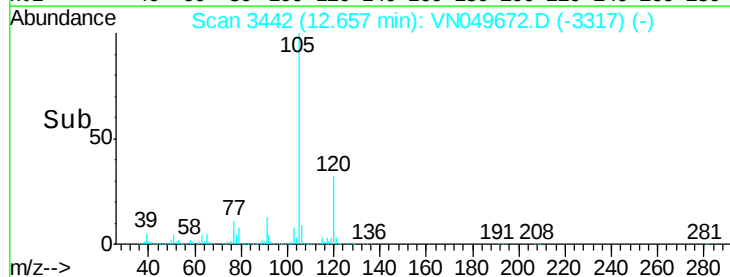
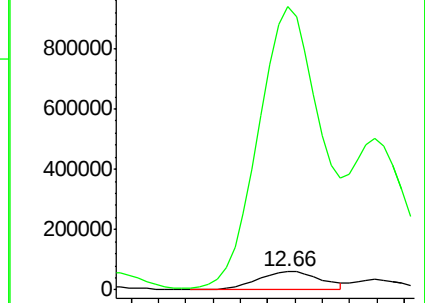
75 100

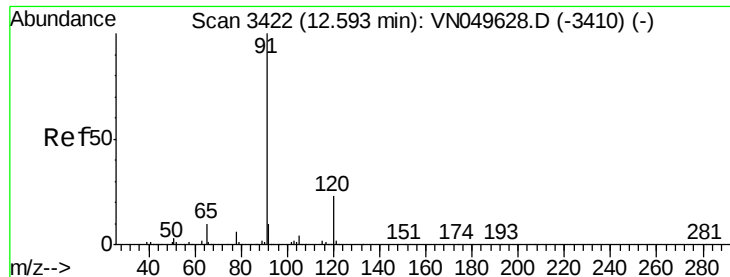
77 1522.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#78

n-propylbenzene

Concen: 21.60 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampled :

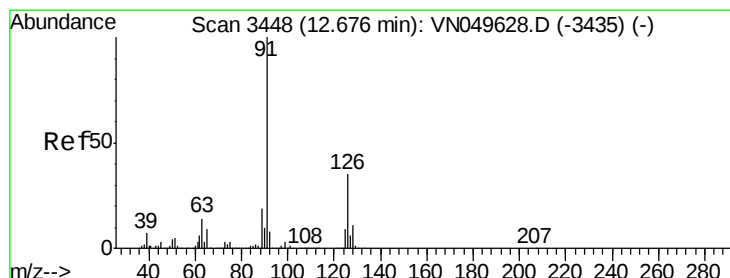
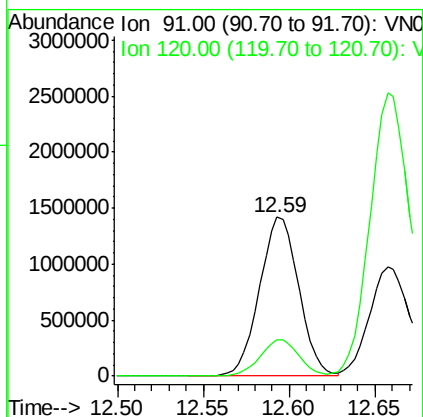
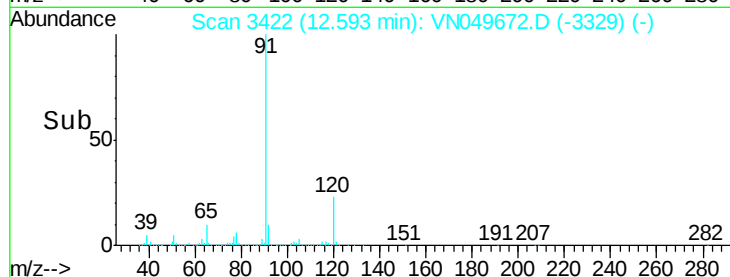
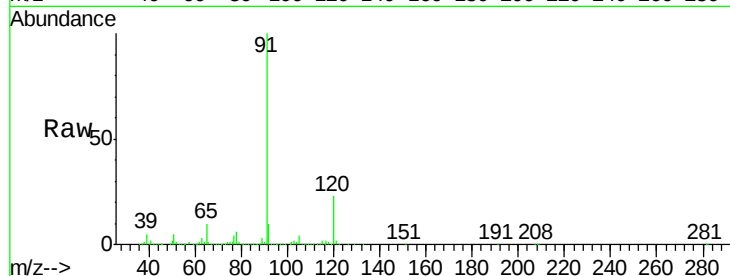
DRUM-13

Tot Ion: 91 Resp: 2240260

Ion Ratio Lower Upper

91 100

120 22.8 11.5 34.4



#79

2-Chlorotoluene

Concen: 9.42 ug/l

RT: 12.69 min Scan# 3452

Delta R.T. 0.01 min

Lab File: VN049672.D

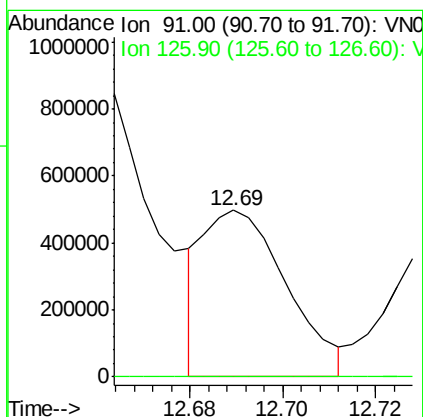
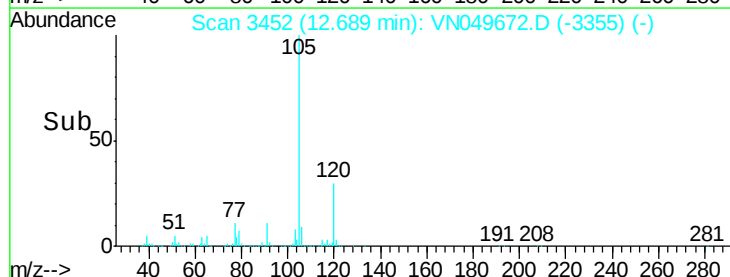
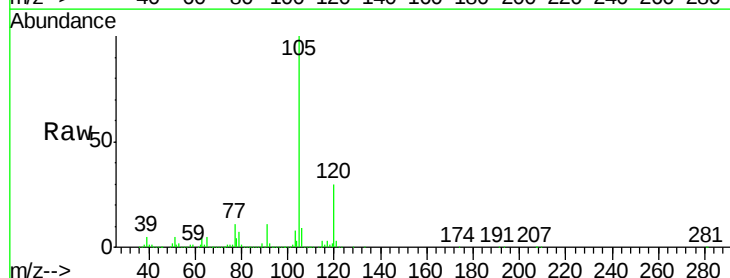
Acq: 2 Jul 2018 16:27

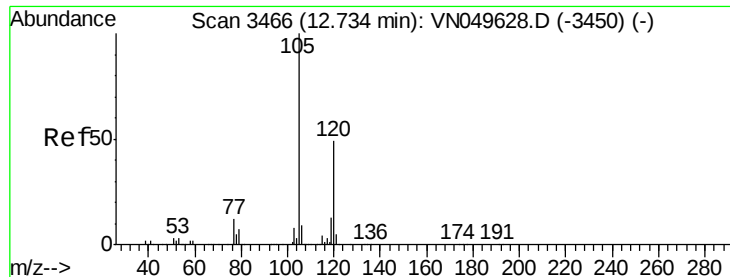
Tgt Ion: 91 Resp: 618274

Ion Ratio Lower Upper

91 100

126 0.1 17.5 52.5#





#80

1,3,5-Trimethylbenzene

Concen: 94.68 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampled :

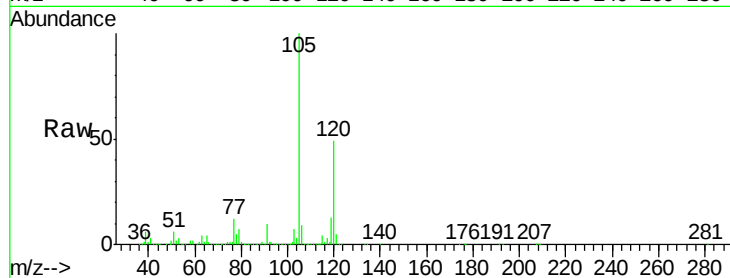
DRUM-13

Tot Ion:105 Resp: 7118792

Ion Ratio Lower Upper

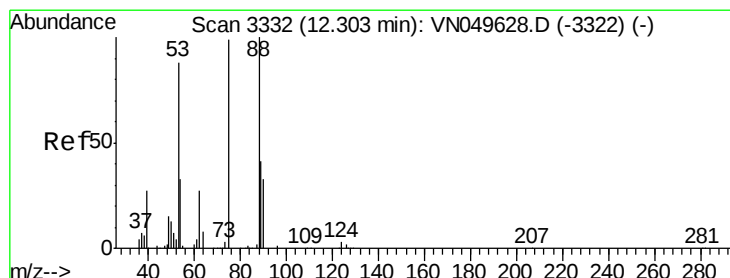
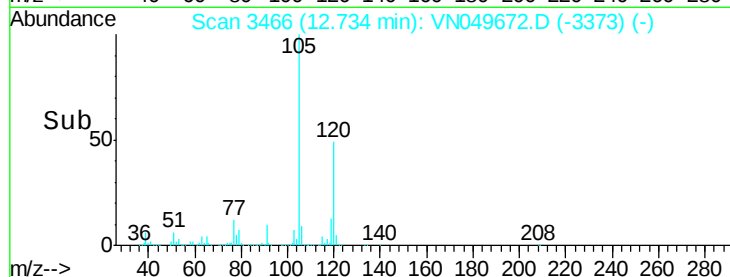
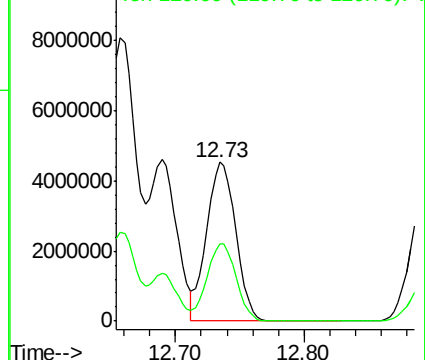
105 100

120 48.6 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 105.24 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

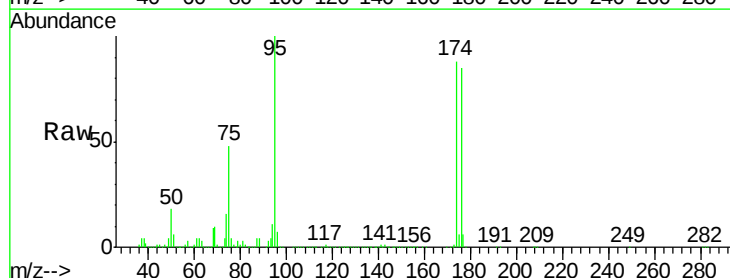
Tgt Ion: 75 Resp: 564485

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

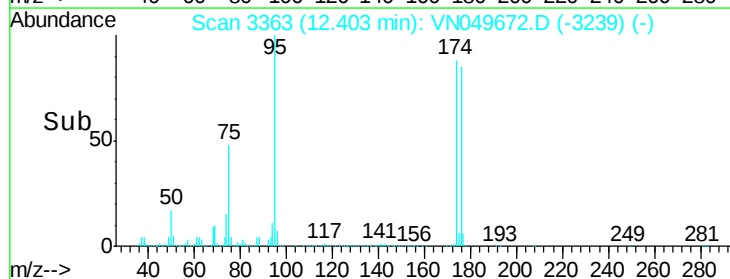
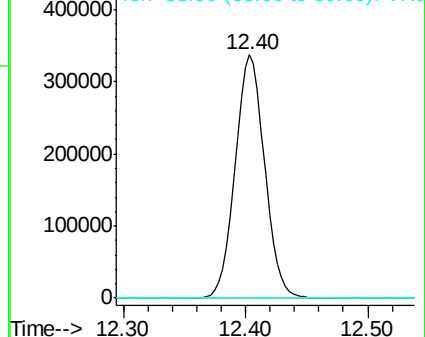
89 0.0 35.9 53.9#

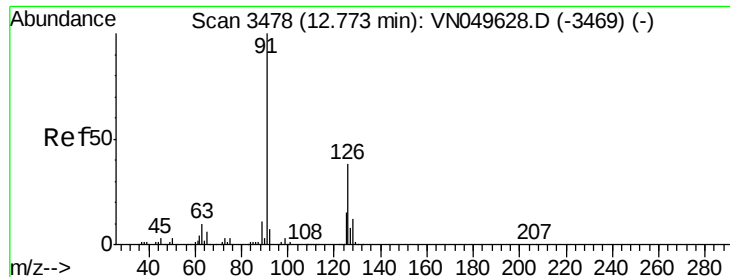


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#82

4-Chlorotoluene

Concen: 10.86 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.04 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

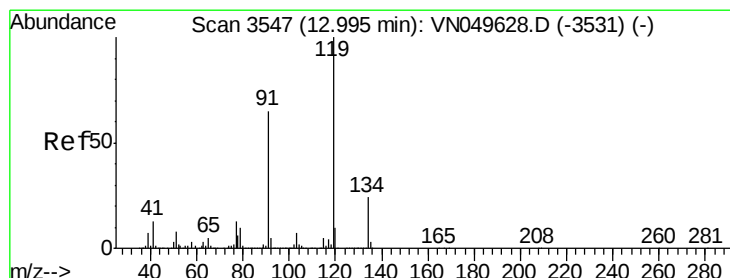
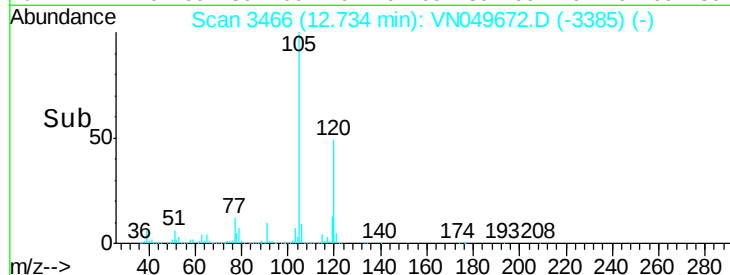
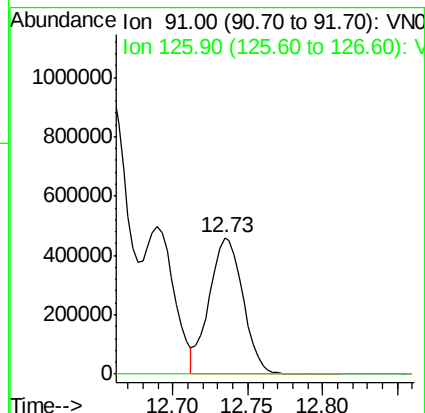
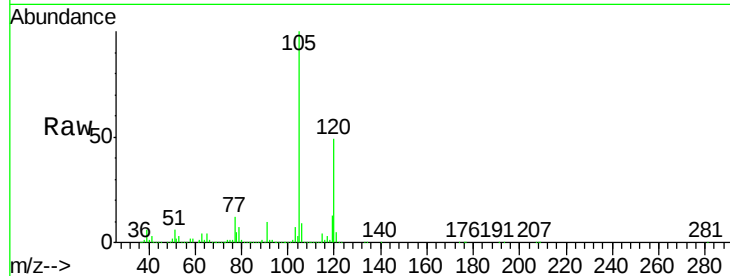
DRUM-13

Tot Ion: 91 Resp: 716927

Ion Ratio Lower Upper

91 100

126 0.0 17.2 51.6#



#83

tert-Butylbenzene

Concen: 38.99 ug/l

RT: 13.04 min Scan# 3562

Delta R.T. 0.05 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

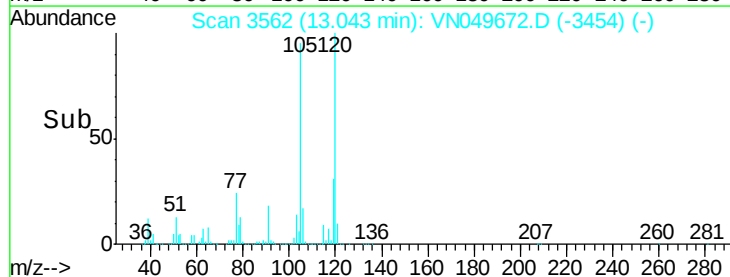
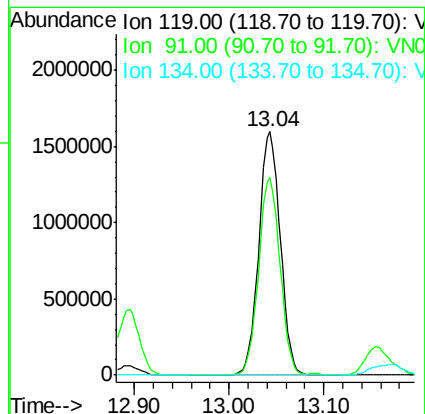
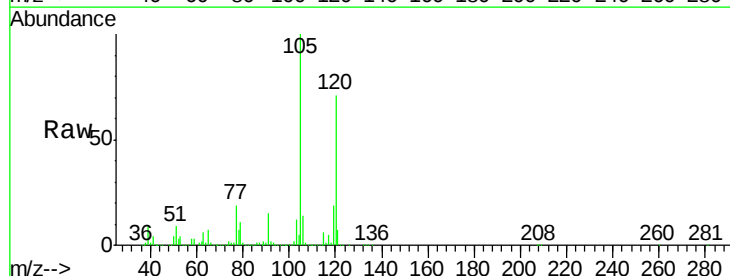
Tgt Ion: 119 Resp: 2518581

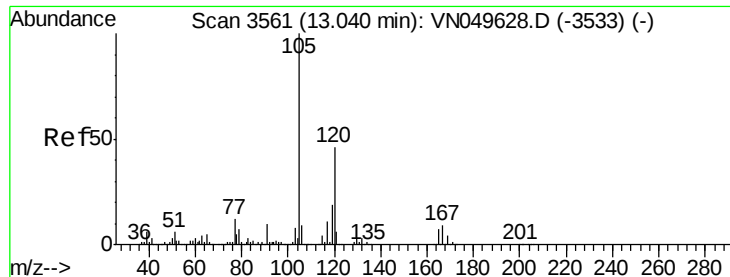
Ion Ratio Lower Upper

119 100

91 81.0 32.0 96.2

134 0.0 12.8 38.4#





#84

1,2,4-Trimethylbenzene

Concen: 76.63 ug/l

RT: 12.90 min Scan# 3516

Delta R.T. -0.14 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

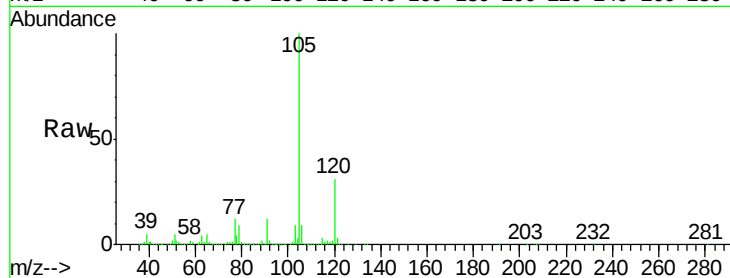
DRUM-13

Tot Ion:105 Resp: 5920180

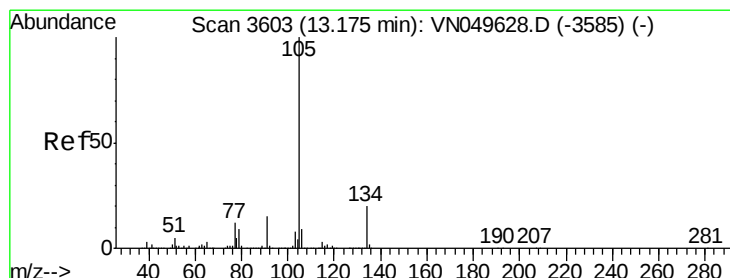
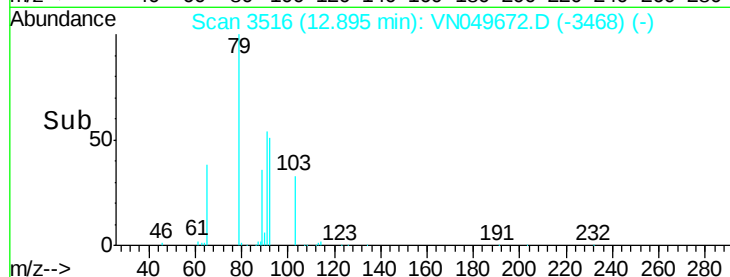
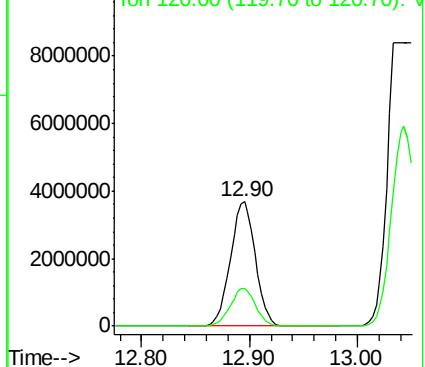
Ion Ratio Lower Upper

105 100

120 30.6 22.7 68.1



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 5.11 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN049672.D

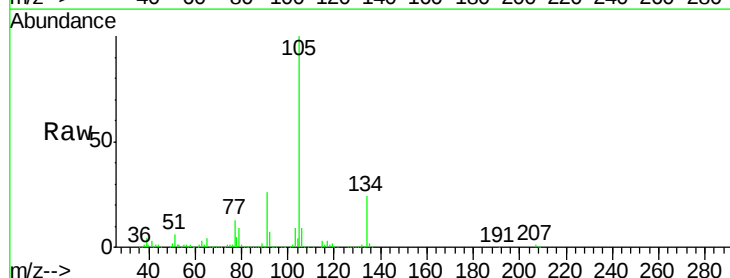
Acq: 2 Jul 2018 16:27

Tgt Ion:105 Resp: 436869

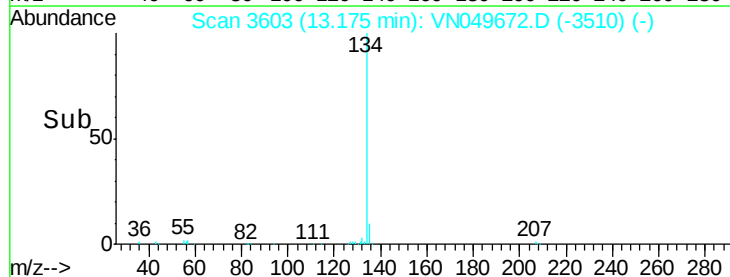
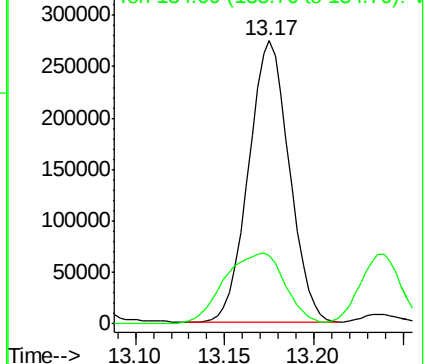
Ion Ratio Lower Upper

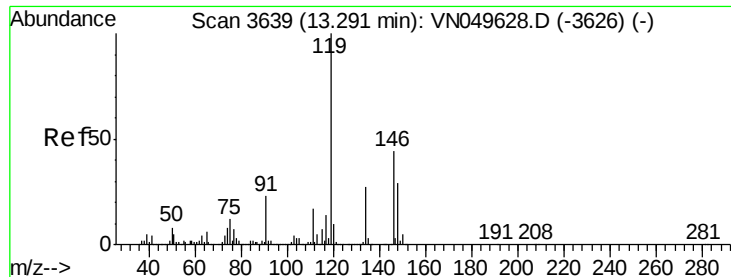
105 100

134 37.3 10.1 30.1#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V





#86

p-Isopropyltoluene

Concen: 5.06 ug/l

RT: 13.24 min Scan# 3622

Delta R.T. -0.05 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampled :

DRUM-13

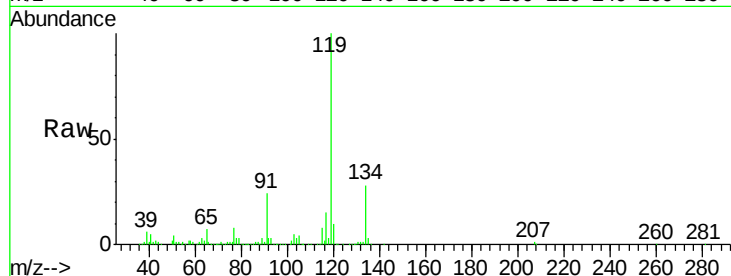
Tot Ion:119 Resp: 374909

Ion Ratio Lower Upper

119 100

134 28.6 13.3 39.9

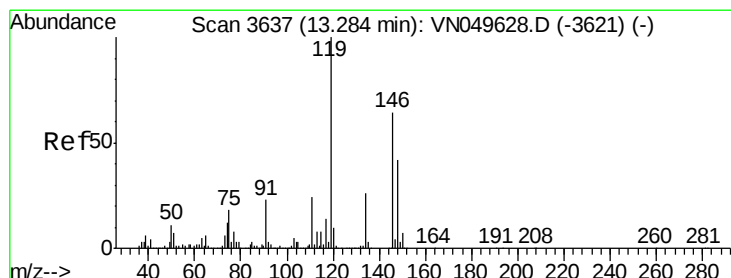
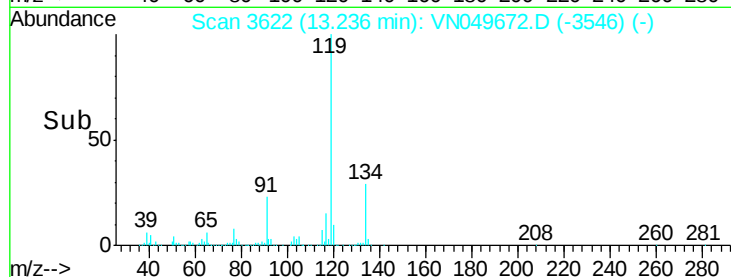
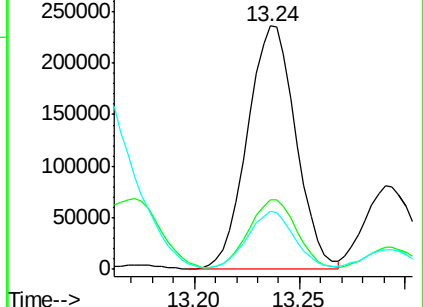
91 21.4 11.4 34.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 13.29 min Scan# 3639

Delta R.T. 0.01 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

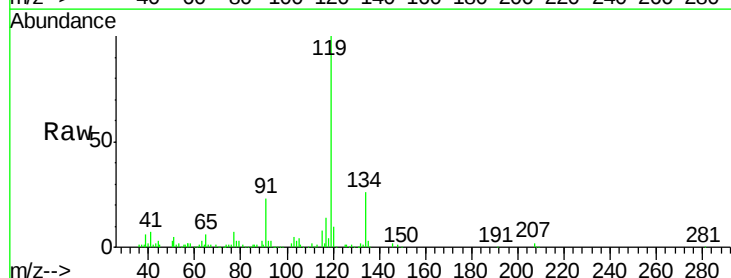
Tgt Ion:146 Resp: 1545

Ion Ratio Lower Upper

146 100

111 202.6 19.0 57.0#

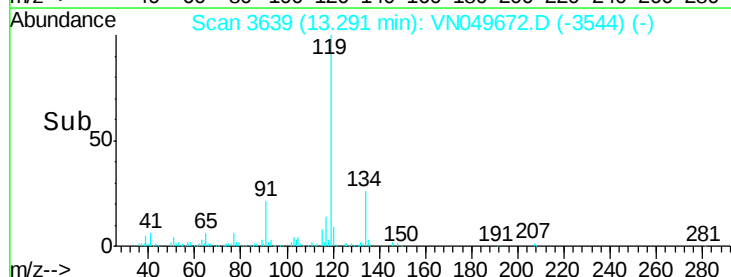
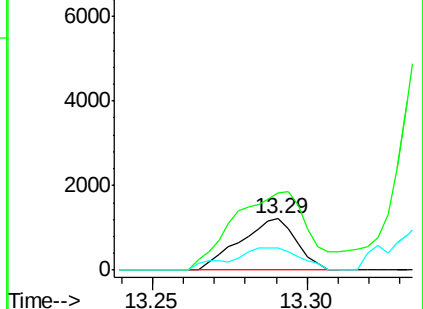
148 53.0 32.5 97.5

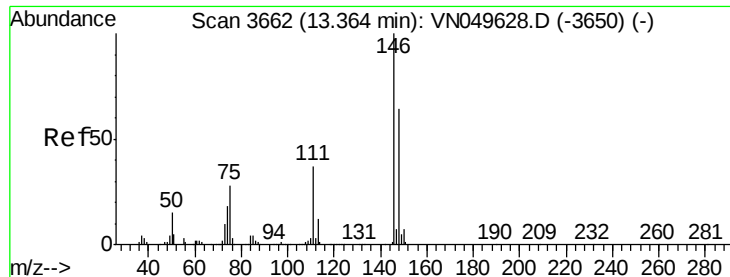


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

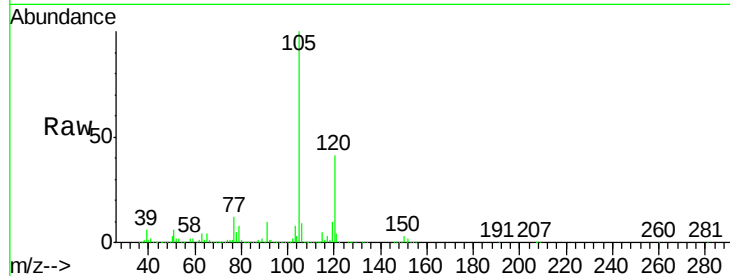




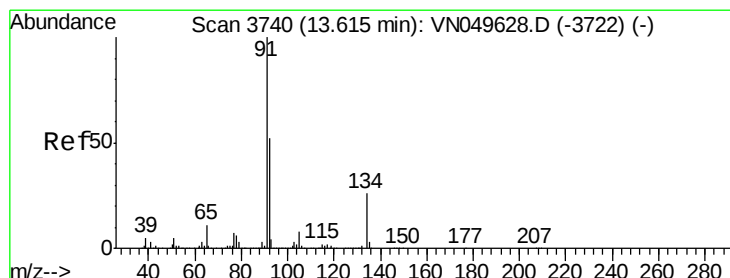
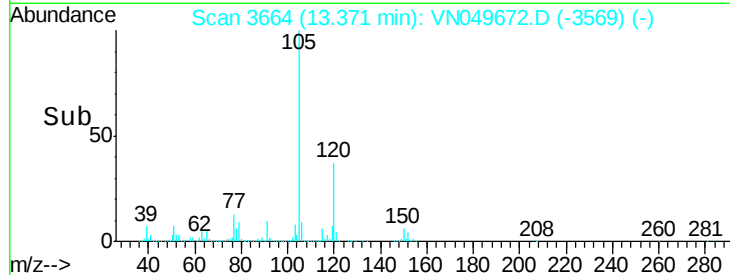
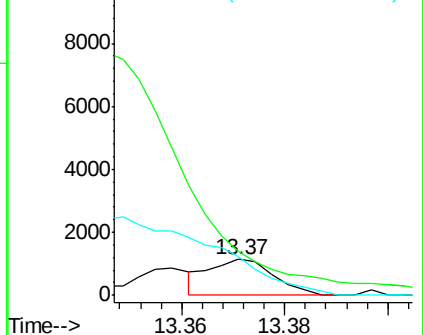
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.37 min Scan# 3664
 Delta R.T. 0.01 min
 Lab File: VN049672.D
 Acq: 2 Jul 2018 16:27

Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-13

Tot Ion:146 Resp: 991
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.9 56.5#
 148 0.0 32.1 96.3#

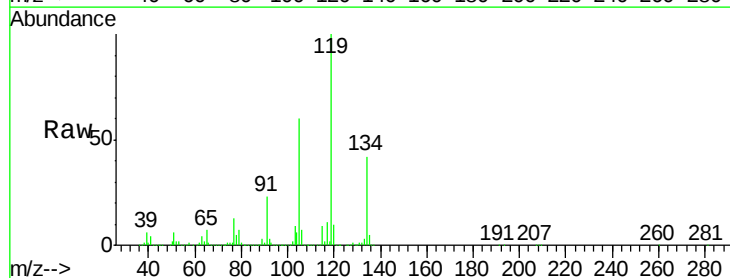


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

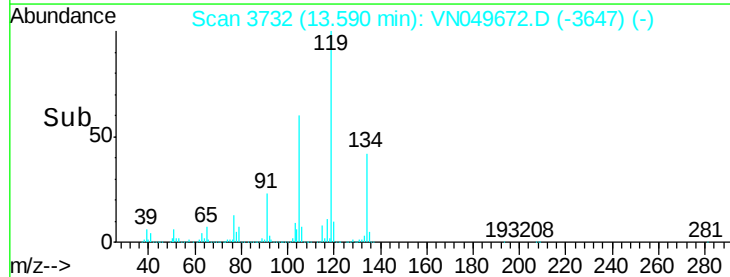
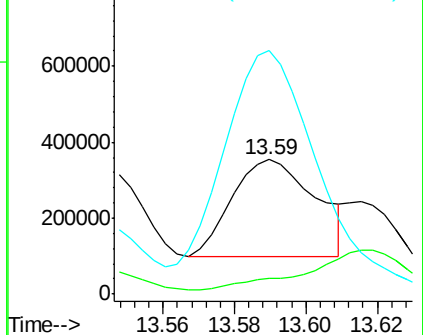


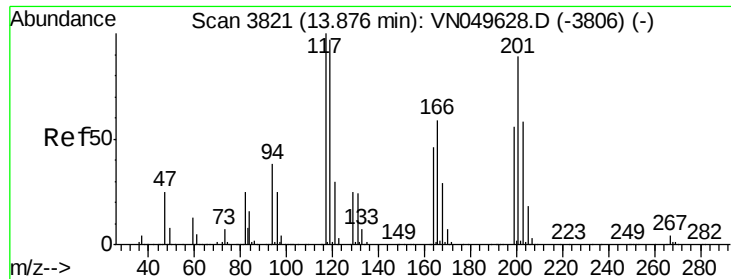
#89
 n-Butylbenzene
 Concen: 6.45 ug/l
 RT: 13.59 min Scan# 3732
 Delta R.T. -0.03 min
 Lab File: VN049672.D
 Acq: 2 Jul 2018 16:27

Tgt Ion: 91 Resp: 409471
 Ion Ratio Lower Upper
 91 100
 92 0.0 25.8 77.3#
 134 293.9 13.0 38.9#



Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 92.00 (91.70 to 92.70): V
 Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 67.00 ug/l

RT: 13.89 min Scan# 3826

Delta R.T. 0.02 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

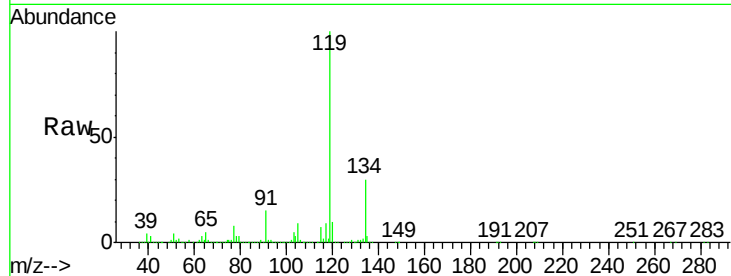
DRUM-13

Tot Ion:117 Resp: 521651

Ion Ratio Lower Upper

117 100

201 0.0 45.3 135.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.89

400000

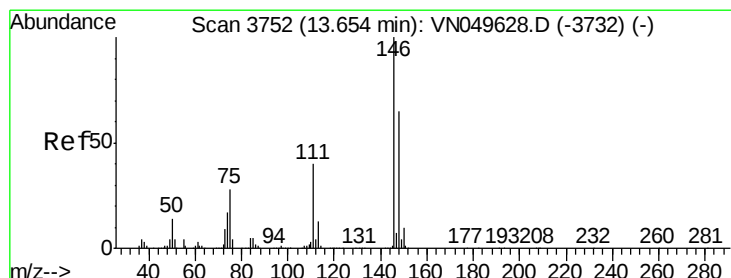
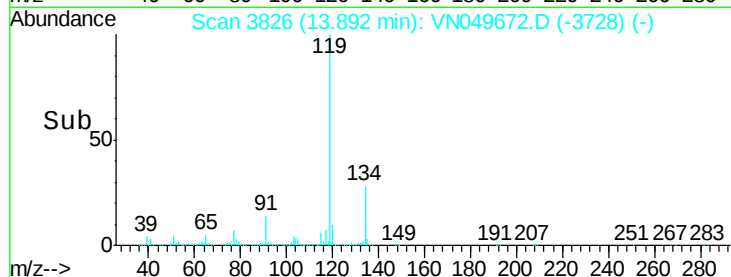
300000

200000

100000

0

Time-->



#91

1,2-Dichlorobenzene

Concen: Below Cal

RT: 13.66 min Scan# 3754

Delta R.T. 0.01 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

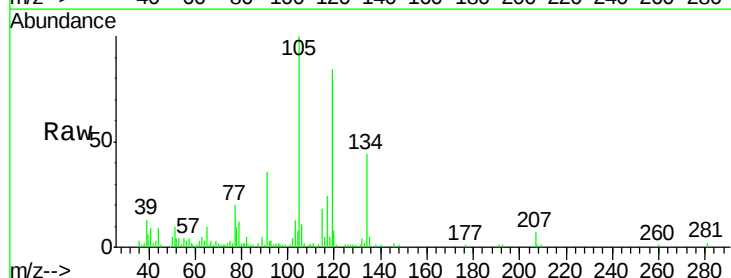
Tgt Ion:146 Resp: 1101

Ion Ratio Lower Upper

146 100

111 68.9 19.7 59.1#

148 51.5 32.0 96.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

13.66

1000

800

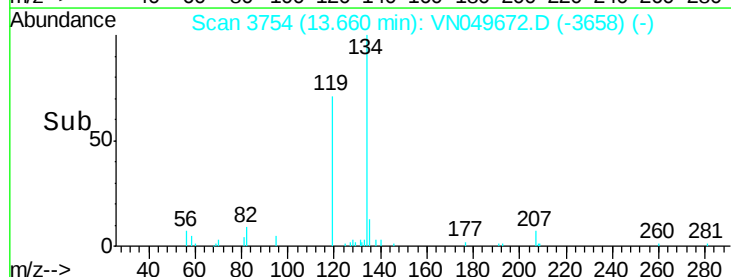
600

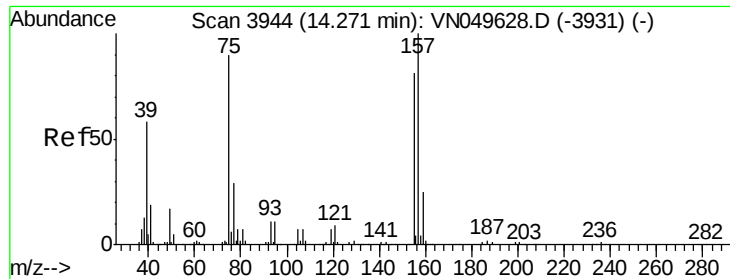
400

200

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.15 ug/l

RT: 14.25 min Scan# 3938

Delta R.T. -0.02 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

DRUM-13

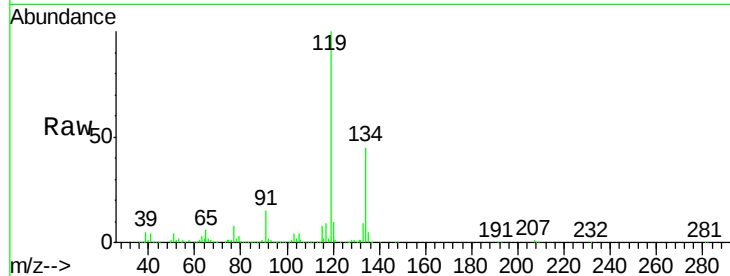
Tot Ion: 75 Resp: 6865

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

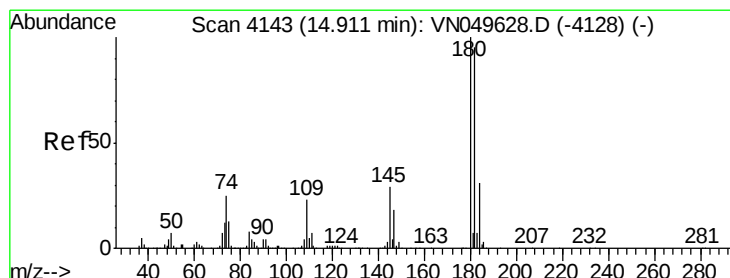
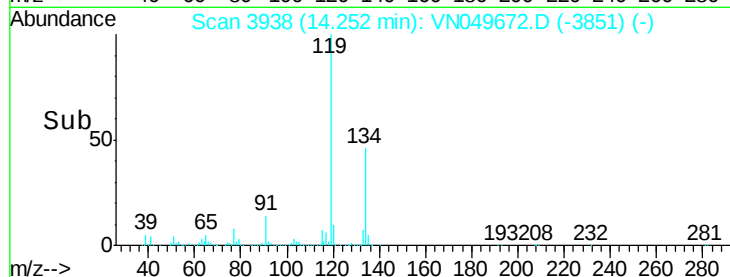
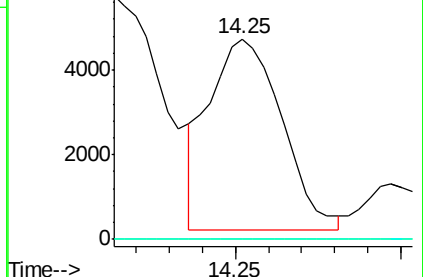
157 0.0 56.9 170.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049672.D (-3931) (-)

Ion 154.80 (154.50 to 155.50): VN049672.D (-3931) (-)

Ion 156.80 (156.50 to 157.50): VN049672.D (-3931) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.47 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

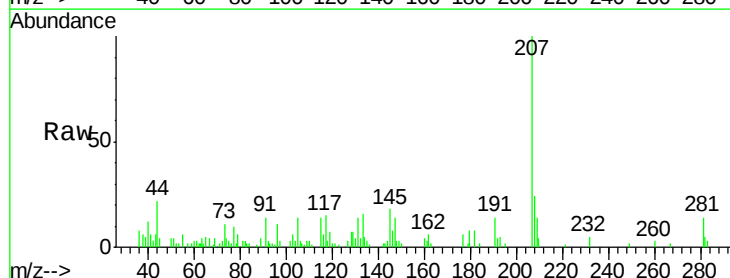
Tgt Ion: 180 Resp: 1498

Ion Ratio Lower Upper

180 100

182 88.2 47.3 141.9

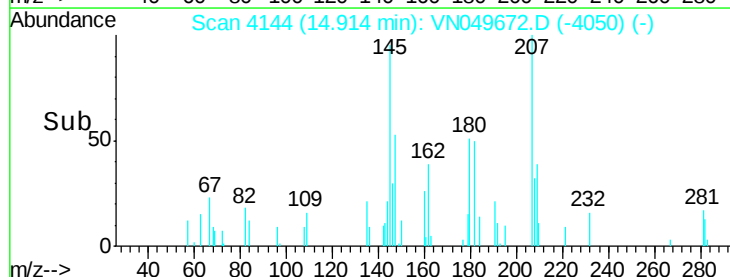
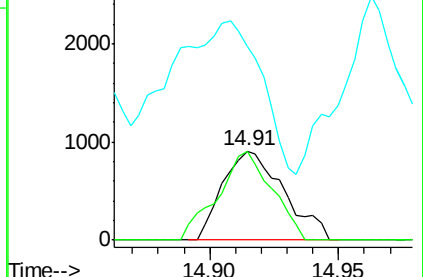
145 413.9 14.4 43.0#

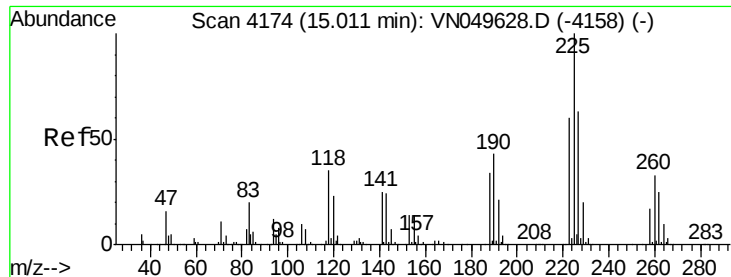


Abundance Ion 179.80 (179.50 to 180.50): VN049672.D (-4128) (-)

Ion 181.80 (181.50 to 182.50): VN049672.D (-4128) (-)

Ion 144.80 (144.50 to 145.50): VN049672.D (-4128) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.11 min Scan# 4205

Delta R.T. 0.10 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

DRUM-13

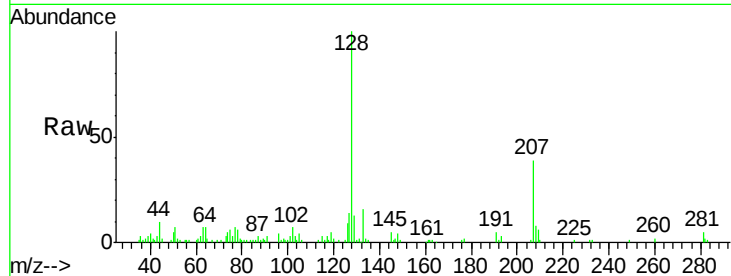
Tot Ion:225 Resp: 30

Ion Ratio Lower Upper

225 100

223 0.0 30.9 92.7#

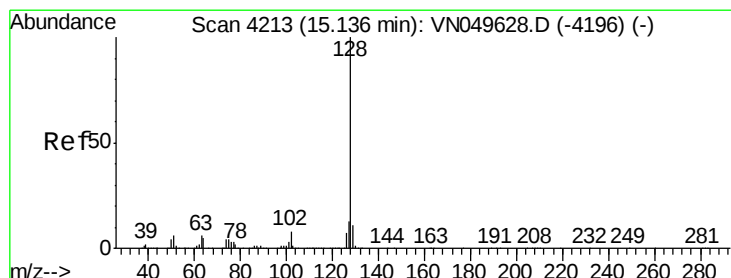
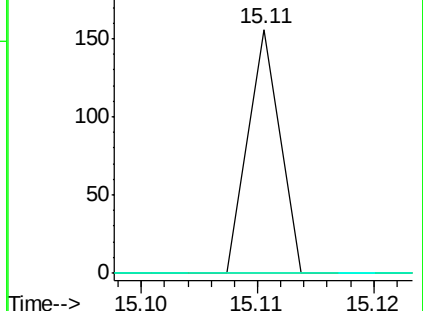
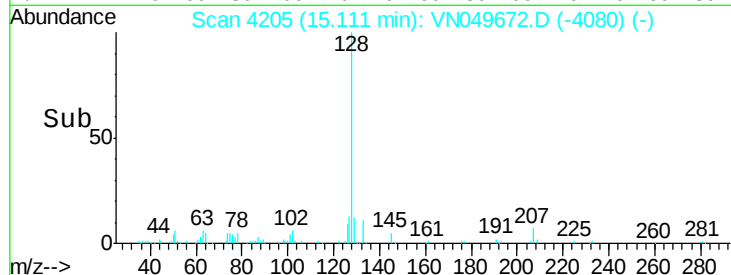
227 0.0 31.8 95.4#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 25.48 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049672.D

Acq: 2 Jul 2018 16:27

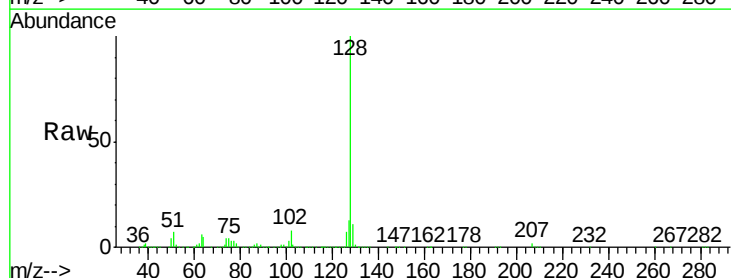
Tgt Ion:128 Resp: 1075965

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

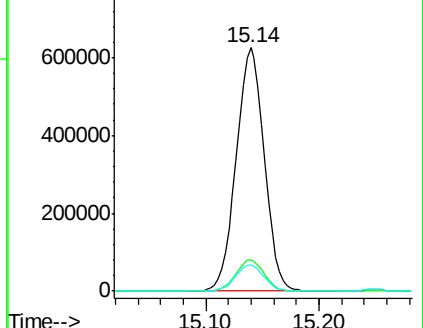
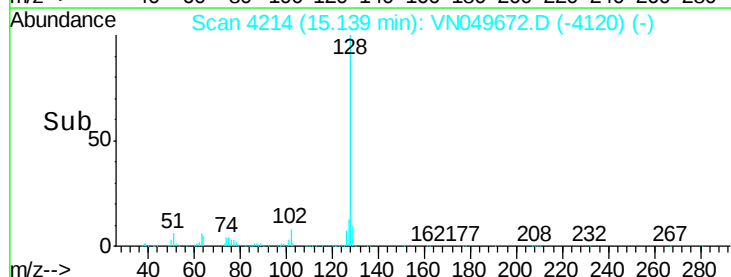
129 10.8 8.6 13.0

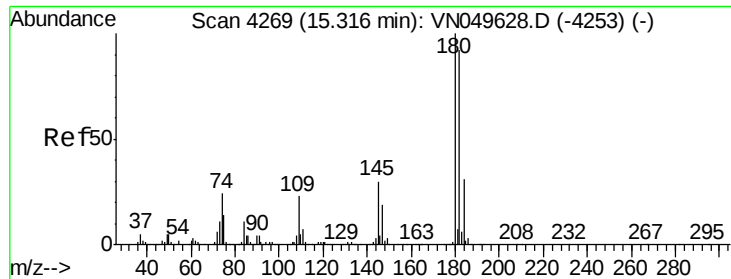


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.71 ug/l
 RT: 15.32 min Scan# 4270
 Delta R.T. 0.00 min
 Lab File: VN049672.D
 Acq: 2 Jul 2018 16:27

Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-13

Tot Ion:180 Resp: 1377
 Ion Ratio Lower Upper
 180 100
 182 71.0 47.4 142.2
 145 107.8 15.2 45.6#

