

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101520\
 Data File : VN064143.D
 Acq On : 15 Oct 2020 15:07
 Operator : JC/MD
 Sample : L4381-13 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-COMP

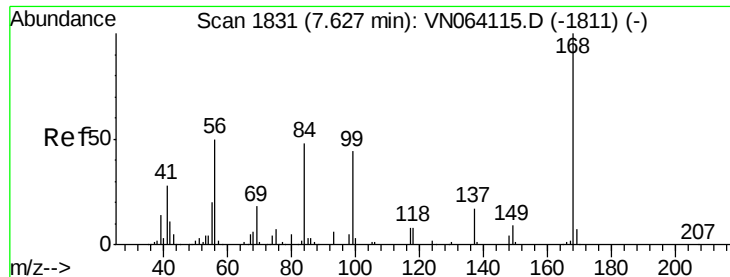
Quant Time: Oct 16 02:24:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101420W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 15 01:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	294357	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	553594	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	590877	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	217966	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	230835	55.06	ug/l	0.00
Spiked Amount			Recovery	=	110.12%	
35) Dibromofluoromethane	7.55	113	193970	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	
50) Toluene-d8	10.06	98	720529	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
62) 4-Bromofluorobenzene	12.38	95	250892	50.49	ug/l	0.00
Spiked Amount			Recovery	=	100.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	282	0.608	ug/l	98
16) Acetone	3.78	43	6780	5.452	ug/l #	74
18) Methyl Acetate	4.29	43	916	0.294	ug/l #	51
20) Methylene Chloride	4.51	84	1214	0.316	ug/l #	63
31) Cyclohexane	7.63	56	6913	1.492	ug/l #	21
36) 1,1-Dichloropropene	7.62	75	25246	4.731	ug/l #	50
38) Carbon Tetrachloride	7.63	117	30273	5.276	ug/l #	16
49) 1,4-Dioxane	9.16	88	70	1.270	ug/l #	1
52) Toluene	10.13	92	12658	1.275	ug/l	96
56) Ethyl methacrylate	10.46	69	72	2.310	ug/l #	1
59) 2-Hexanone	10.45	43	290	6.916	ug/l	97
67) Ethyl Benzene	11.49	91	6042	0.290	ug/l	99
68) m/p-Xylenes	11.59	106	7731	3.072	ug/l	92
69) o-Xylene	11.92	106	4089	2.064	ug/l	94
70) Styrene	11.92	104	599	2.077	ug/l #	1
71) Bromoform	12.38	173	2480	2.836	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	130139	25.450	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3506	0.277	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.38	75	130139	77.753	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.02	105	11653	1.063	ug/l	96
86) p-Isopropyltoluene	13.21	119	1197	0.755	ug/l	90
95) Naphthalene	15.11	128	3523	4.102	ug/l #	91

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

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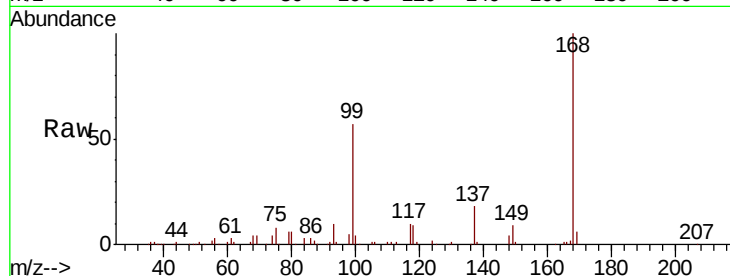
DRUM-COMP

Tot Ion:168 Resp: 294357

Ion Ratio Lower Upper

168 100

99 56.8 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

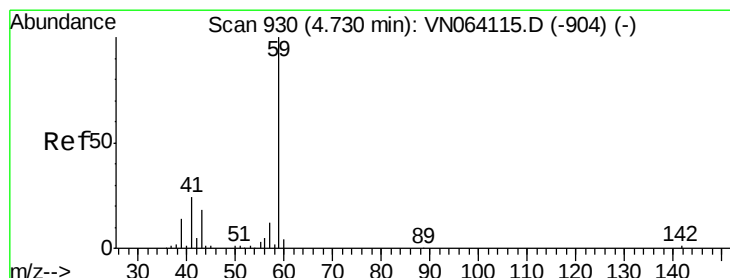
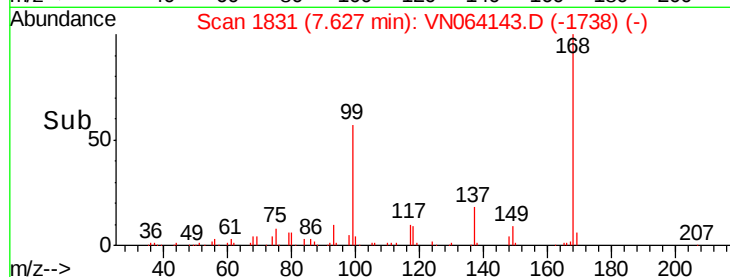
100000

50000

0

Time-->

7.55 7.60 7.65 7.70



#11

Tert butyl alcohol

Concen: 0.608 ug/l

RT: 4.72 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN064143.D

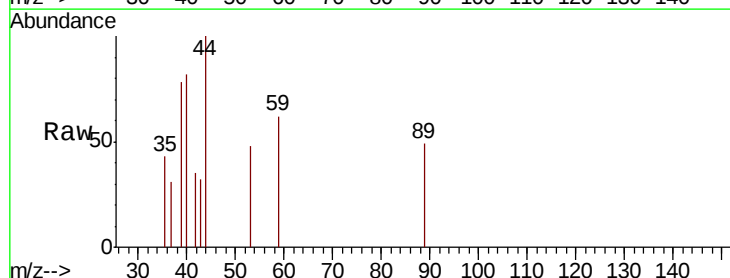
Acq: 15 Oct 2020 15:07

Tgt Ion: 59 Resp: 282

Ion Ratio Lower Upper

59 100

57 10.3 8.9 13.3



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.72

300

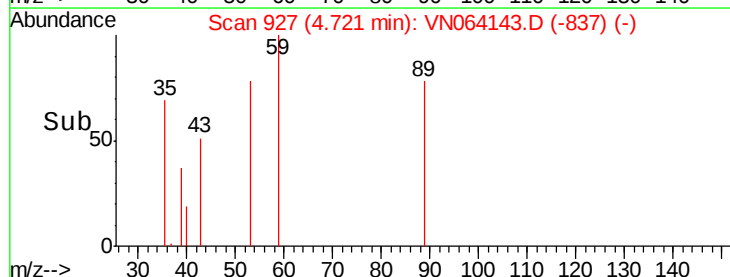
200

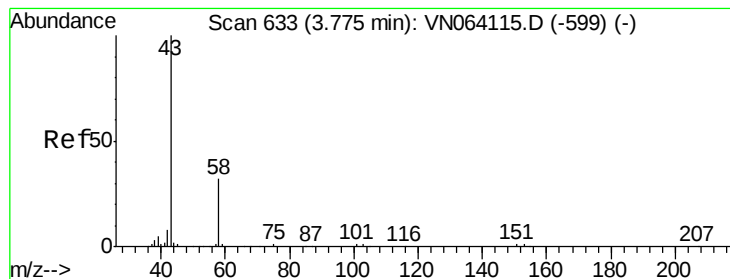
100

0

Time-->

4.70 4.72 4.74





#16

Acetone

Concen: 5.452 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064143.D

Acq: 15 Oct 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

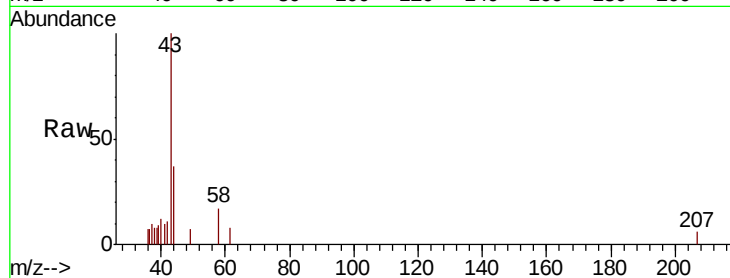
DRUM-COMP

Tot Ion: 43 Resp: 6780

Ion Ratio Lower Upper

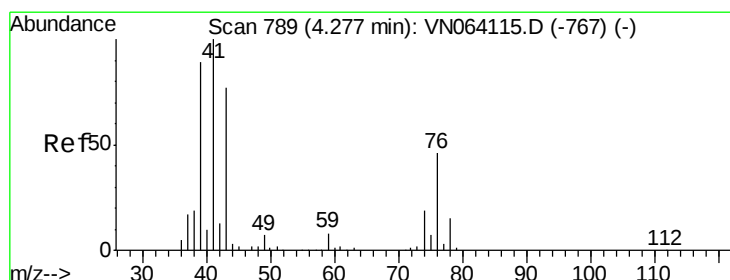
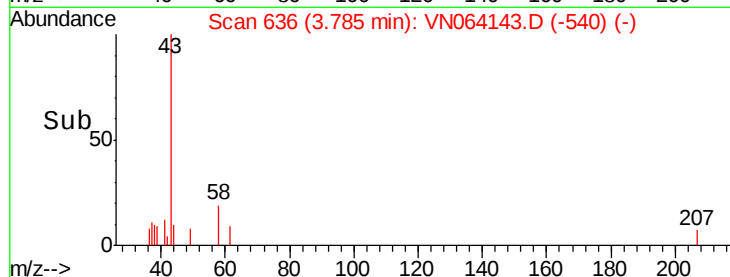
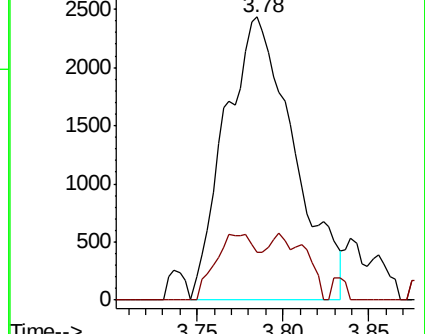
43 100

58 16.9 25.2 37.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.294 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.02 min

Lab File: VN064143.D

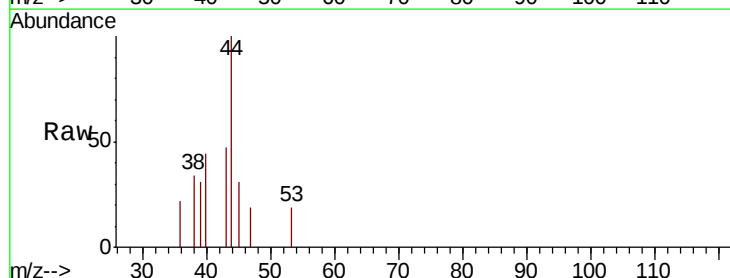
Acq: 15 Oct 2020 15:07

Tgt Ion: 43 Resp: 916

Ion Ratio Lower Upper

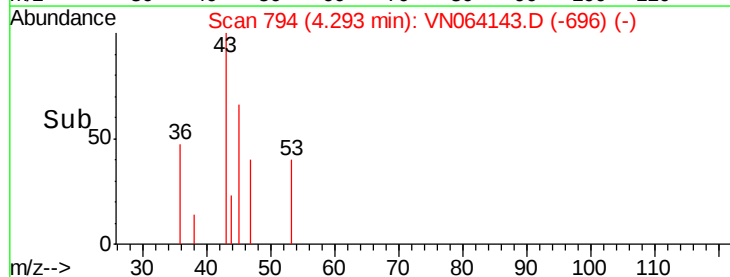
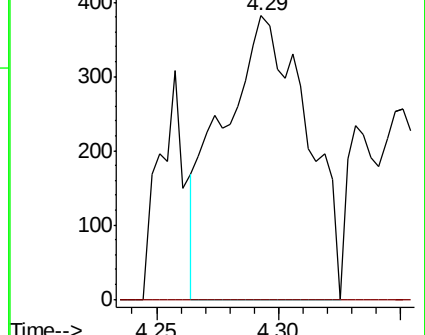
43 100

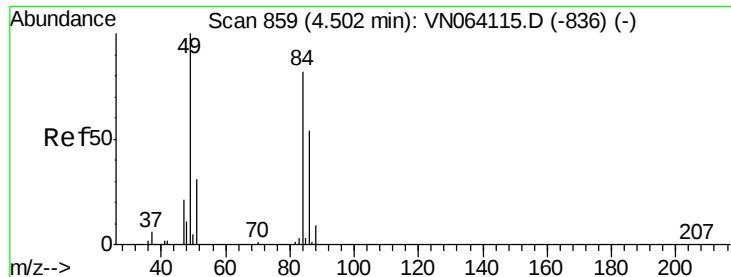
74 0.0 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: 0.316 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.00 min

Lab File: VN064143.D

Acq: 15 Oct 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP

Tot Ion: 84 Resp: 1214

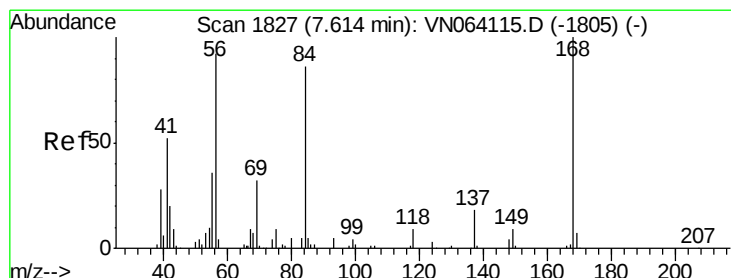
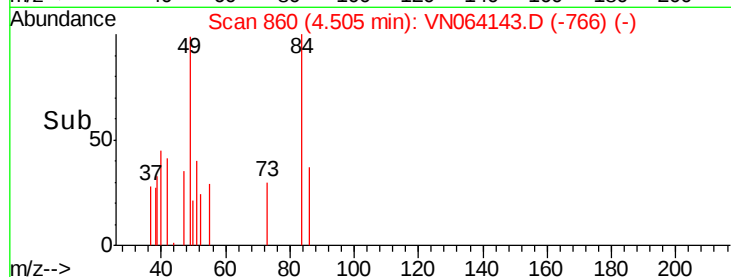
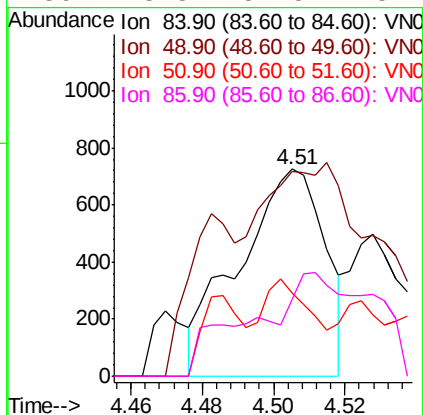
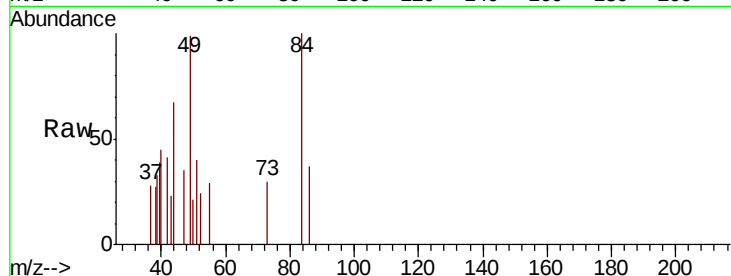
Ion Ratio Lower Upper

84 100

49 66.5 97.4 146.0#

51 53.0 29.7 44.5#

86 48.8 52.5 78.7#



#31

Cyclohexane

Concen: 1.492 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN064143.D

Acq: 15 Oct 2020 15:07

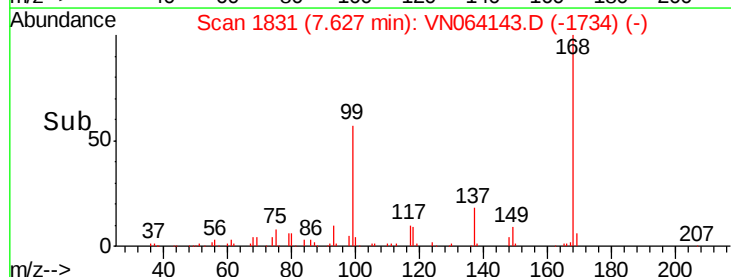
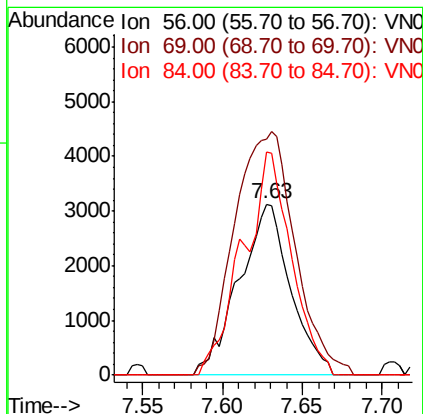
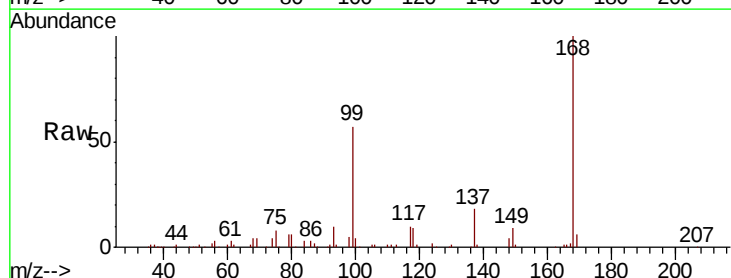
Tgt Ion: 56 Resp: 6913

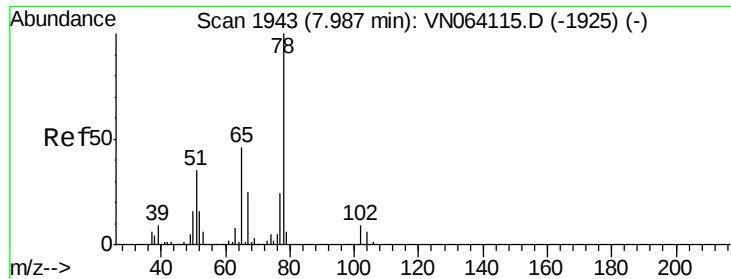
Ion Ratio Lower Upper

56 100

69 138.3 27.8 41.6#

84 131.0 73.2 109.8#





#33

1,2-Dichloroethane-d4

Concen: 55.062 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064143.D

Acq: 15 Oct 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

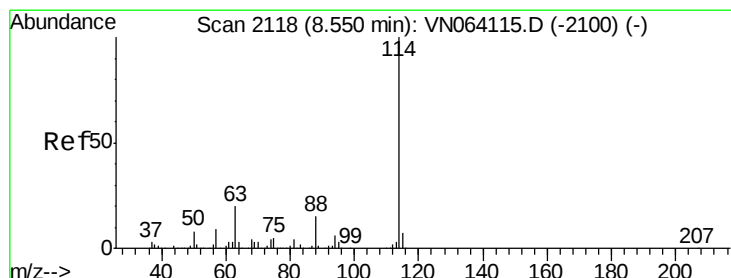
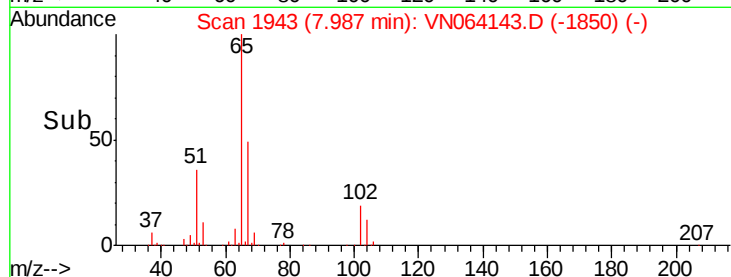
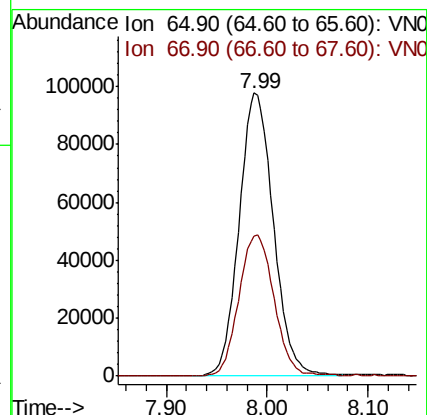
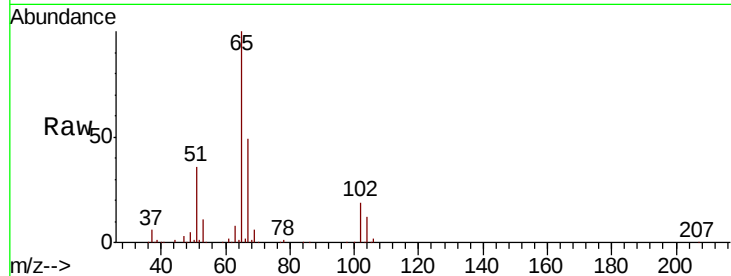
DRUM-COMP

Tot Ion: 65 Resp: 230835

Ion Ratio Lower Upper

65 100

67 51.0 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN064143.D

Acq: 15 Oct 2020 15:07

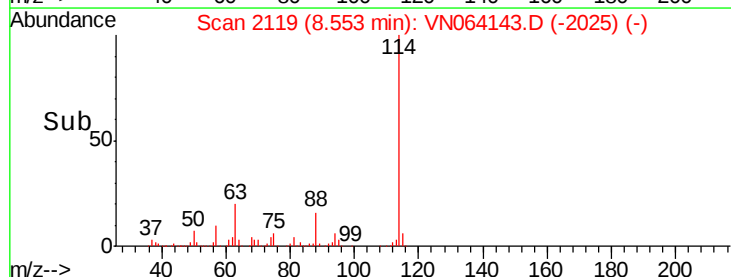
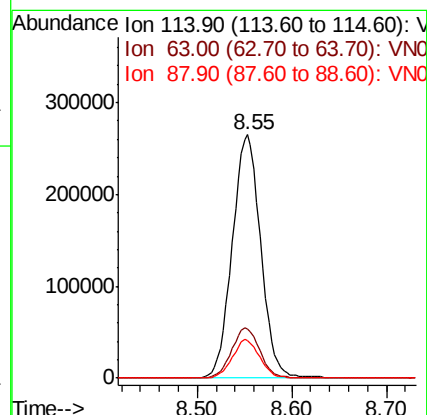
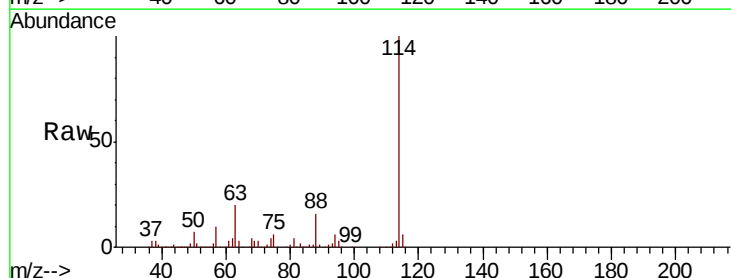
Tgt Ion: 114 Resp: 553594

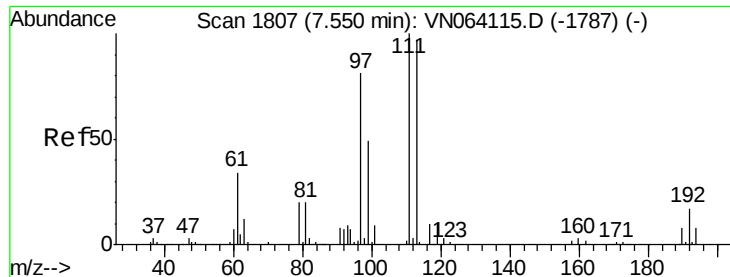
Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.0

88 15.5 0.0 29.2

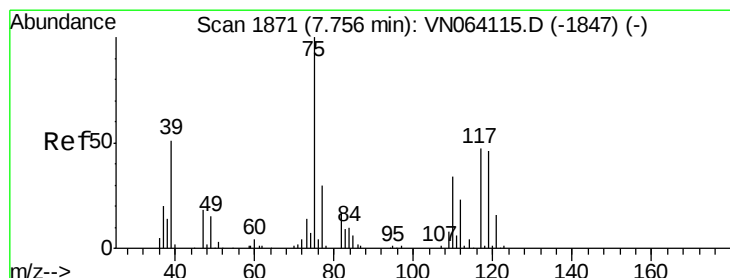
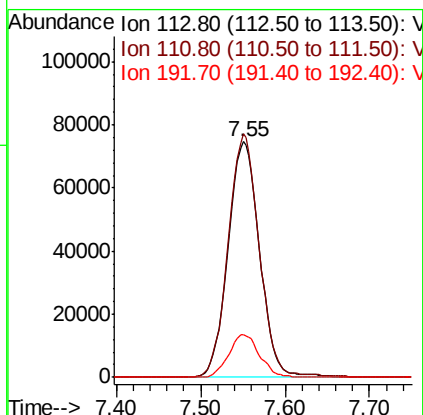
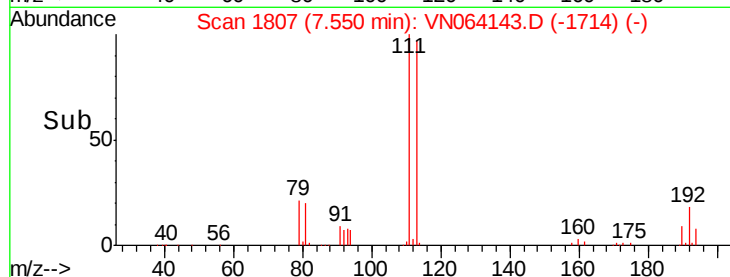
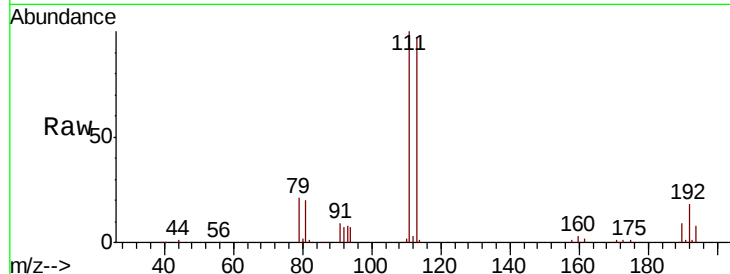




#35
 Dibromofluoromethane
 Concen: 50.622 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064143.D
 Acq: 15 Oct 2020 15:07

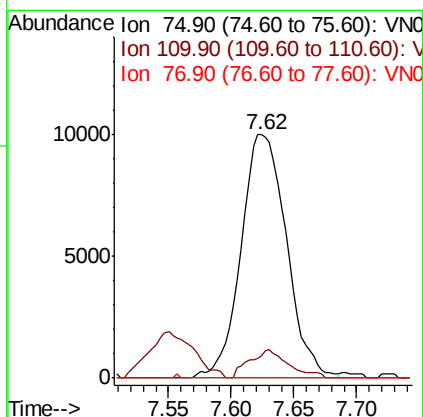
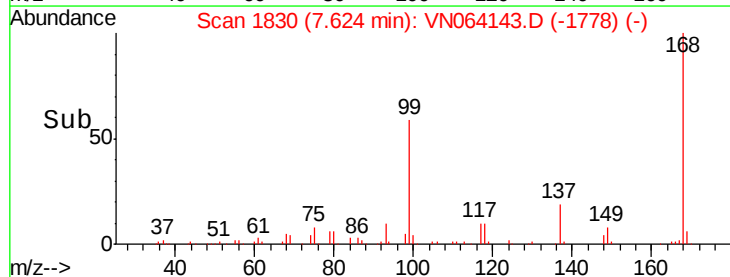
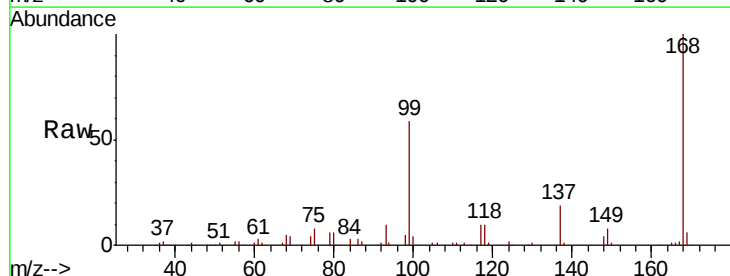
Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-COMP

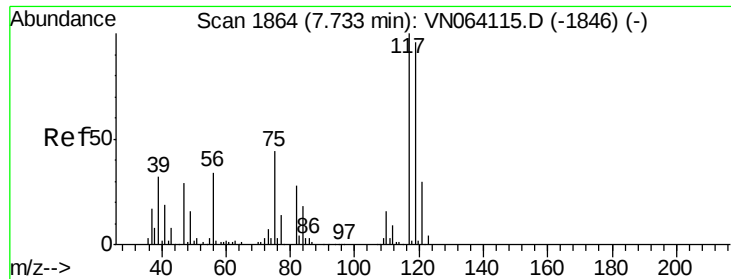
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.0	81.9	122.9
192	17.8	14.3	21.5



#36
 1,1-Dichloropropene
 Concen: 4.731 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064143.D
 Acq: 15 Oct 2020 15:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.0	17.8	53.3#
77	0.0	24.9	37.3#

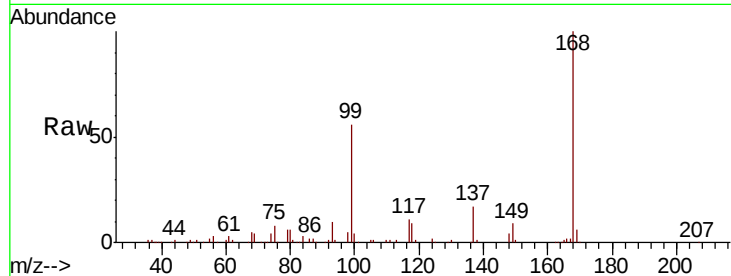




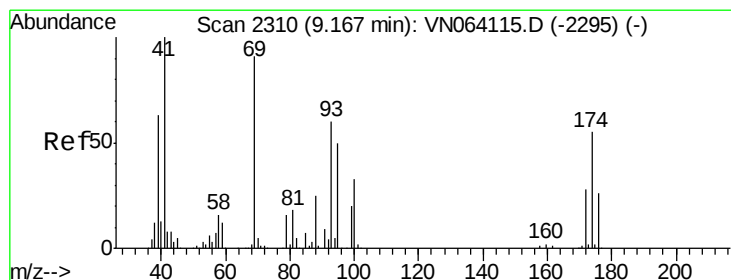
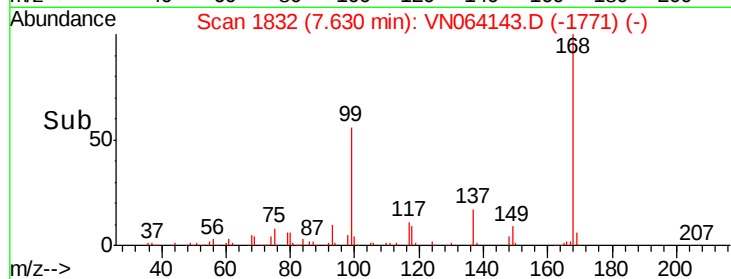
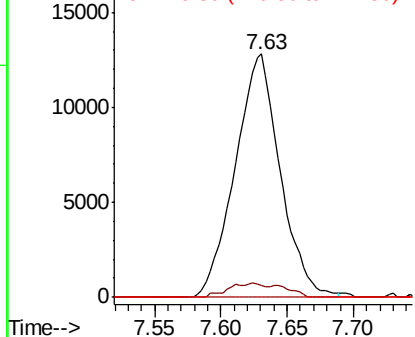
#38
Carbon Tetrachloride
Concen: 5.276 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. -0.10 min
Lab File: VN064143.D
Acq: 15 Oct 2020 15:07

Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP

Tot Ion:117 Resp: 30273
Ion Ratio Lower Upper
117 100
119 4.8 77.0 115.4#
121 0.0 24.2 36.4#

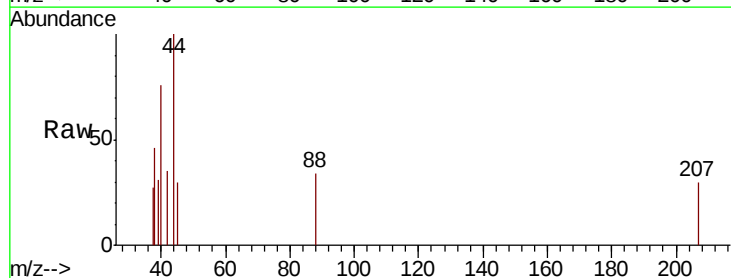


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

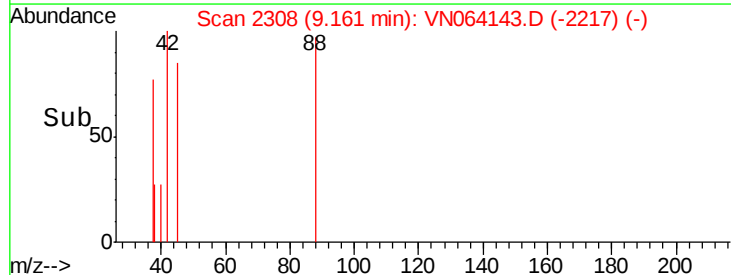
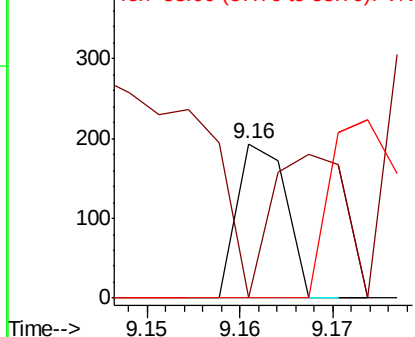


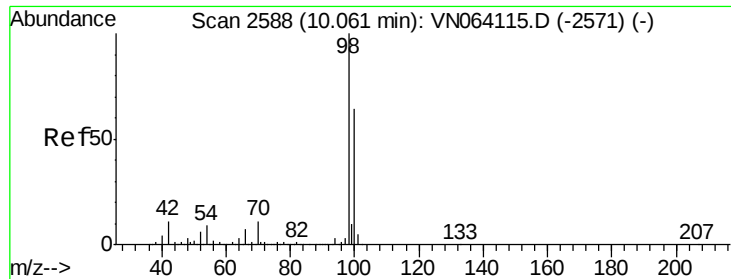
#49
1,4-Dioxane
Concen: 1.270 ug/l
RT: 9.16 min Scan# 2308
Delta R.T. -0.01 min
Lab File: VN064143.D
Acq: 15 Oct 2020 15:07

Tgt Ion: 88 Resp: 70
Ion Ratio Lower Upper
88 100
43 138.6 27.2 40.8#
58 0.0 52.6 78.8#



Abundance Ion 88.00 (87.70 to 88.70): V
Ion 43.00 (42.70 to 43.70): V
Ion 58.00 (57.70 to 58.70): V

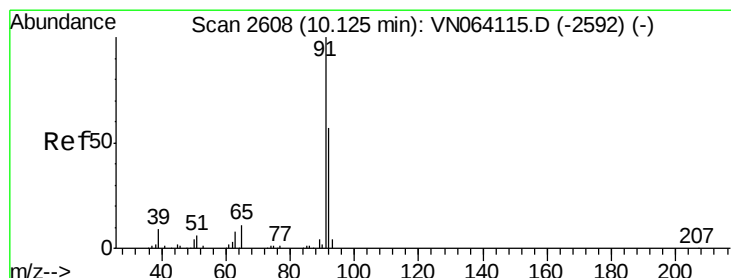
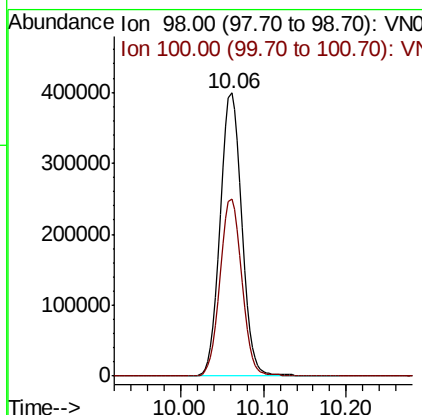
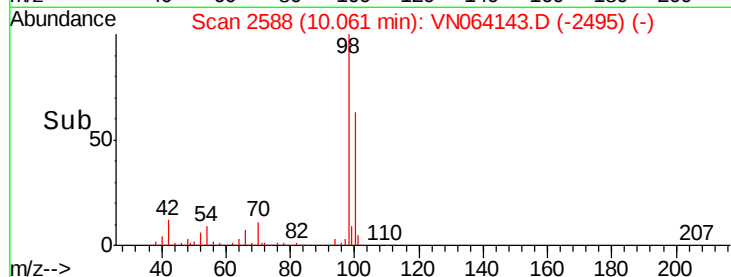
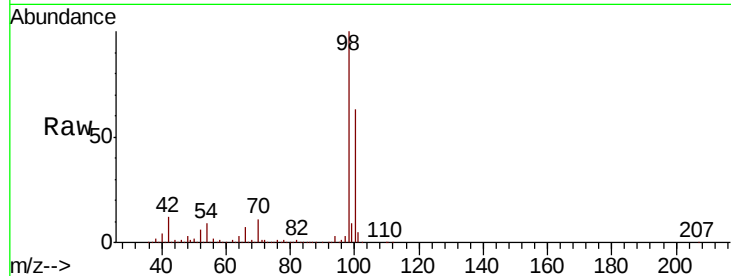




#50
Toluene-d8
Concen: 49.837 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064143.D
Acq: 15 Oct 2020 15:07

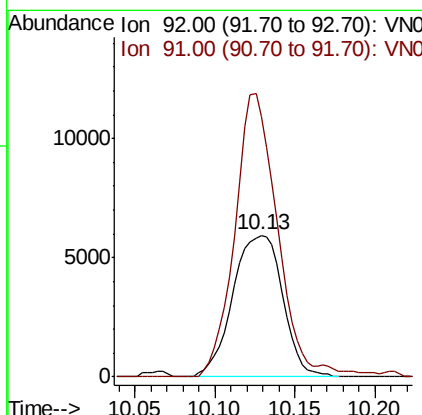
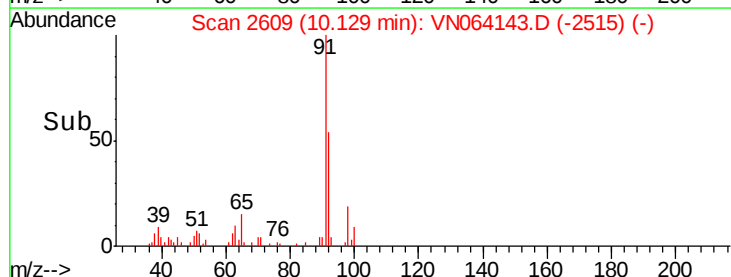
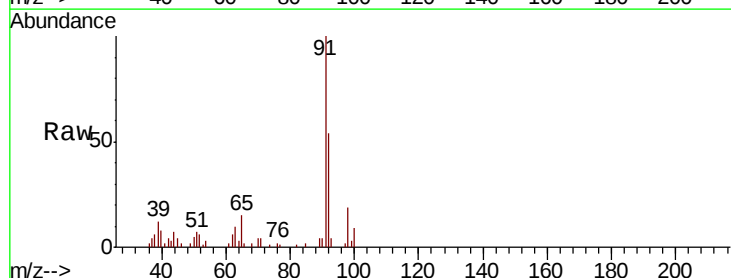
Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP

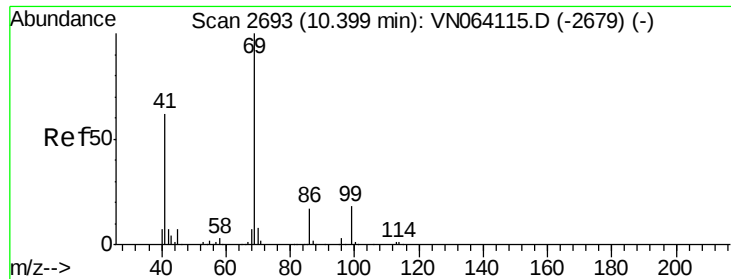
Tot Ion: 98 Resp: 720529
Ion Ratio Lower Upper
98 100
100 63.1 50.8 76.2



#52
Toluene
Concen: 1.275 ug/l
RT: 10.13 min Scan# 2609
Delta R.T. 0.00 min
Lab File: VN064143.D
Acq: 15 Oct 2020 15:07

Tgt Ion: 92 Resp: 12658
Ion Ratio Lower Upper
92 100
91 171.6 141.2 211.8





#56

Ethyl methacrylate

Concen: 2.310 ug/l

RT: 10.46 min Scan# 2711

Delta R.T. 0.06 min

Lab File: VN064143.D

Acq: 15 Oct 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP

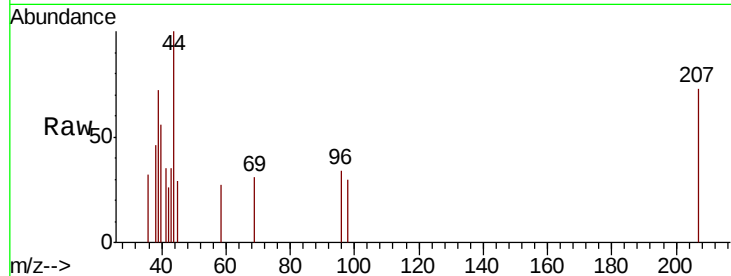
Tot Ion: 69 Resp: 72

Ion Ratio Lower Upper

69 100

41 677.8 49.3 73.9#

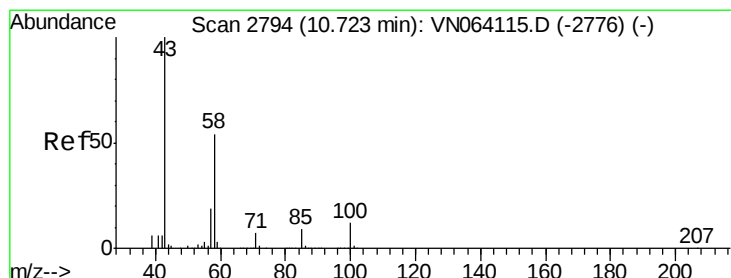
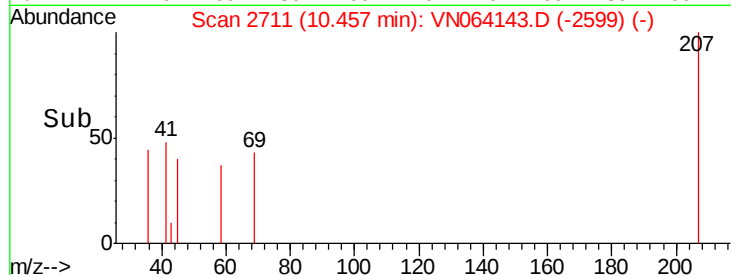
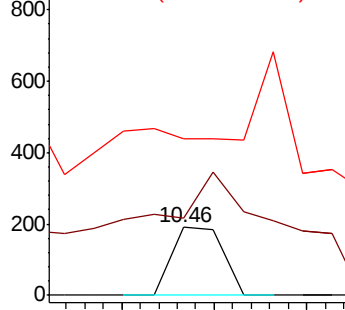
39 193.1 32.7 49.1#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 6.916 ug/l

RT: 10.45 min Scan# 2708

Delta R.T. -0.28 min

Lab File: VN064143.D

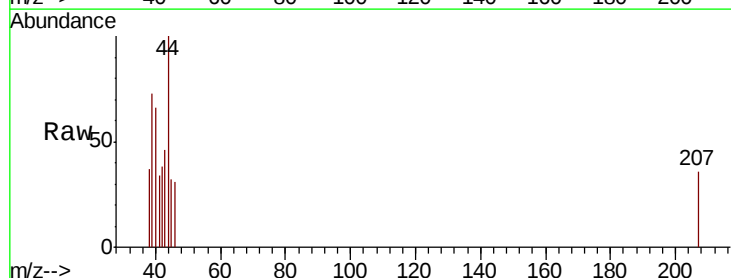
Acq: 15 Oct 2020 15:07

Tgt Ion: 43 Resp: 290

Ion Ratio Lower Upper

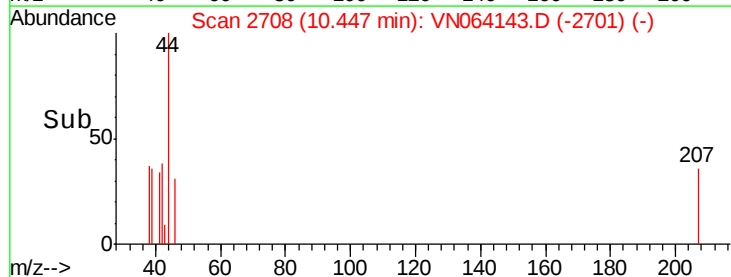
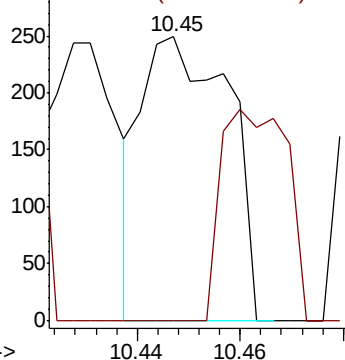
43 100

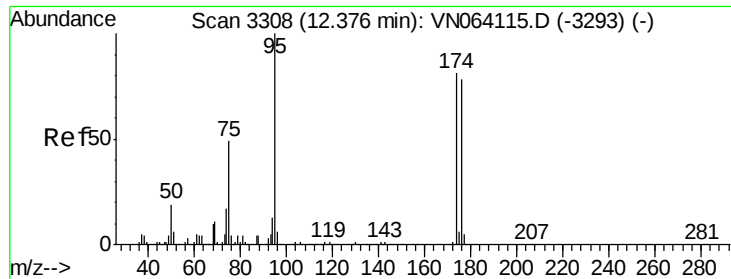
58 56.9 27.2 81.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

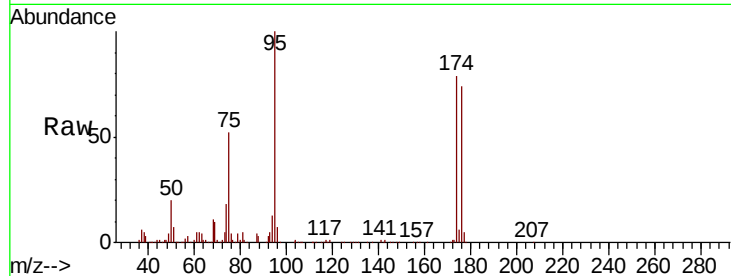




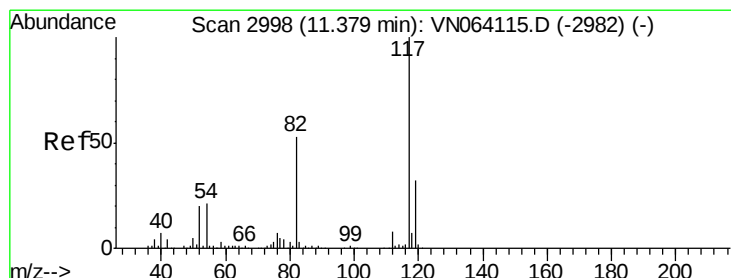
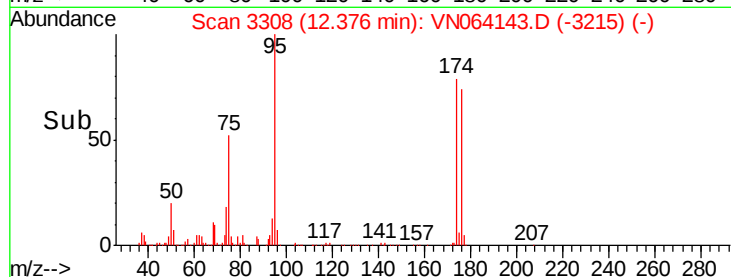
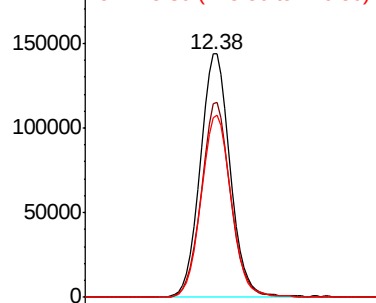
#62
4-Bromofluorobenzene
Concen: 50.487 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064143.D
Acq: 15 Oct 2020 15:07

Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP

Tot Ion	95	Resp	250892
Ion Ratio	100		
174	78.2	0.0	164.8
176	75.0	0.0	157.8

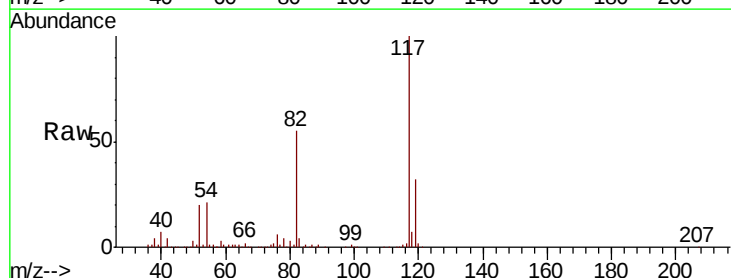


Abundance Ion 94.90 (94.60 to 95.60): VN064115.D (-3293) (-)

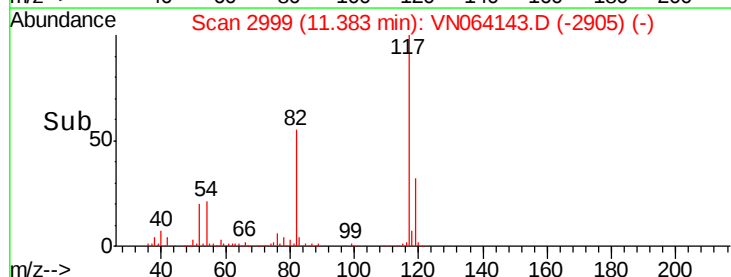
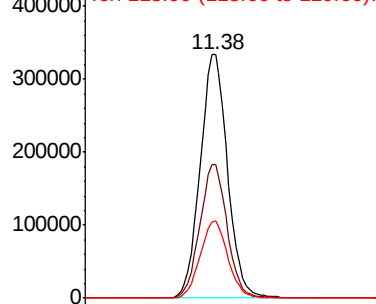


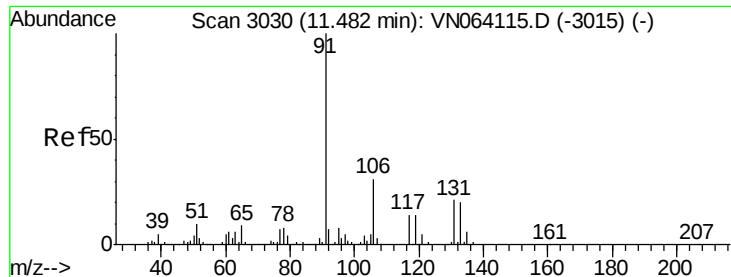
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2999
Delta R.T. 0.00 min
Lab File: VN064143.D
Acq: 15 Oct 2020 15:07

Tgt Ion	117	Resp	590877
Ion Ratio	100		
82	54.7	42.6	63.8
119	31.6	25.5	38.3



Abundance Ion 116.90 (116.60 to 117.60): VN064115.D (-2982) (-)

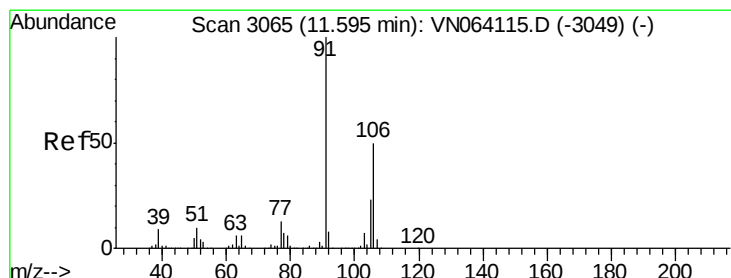
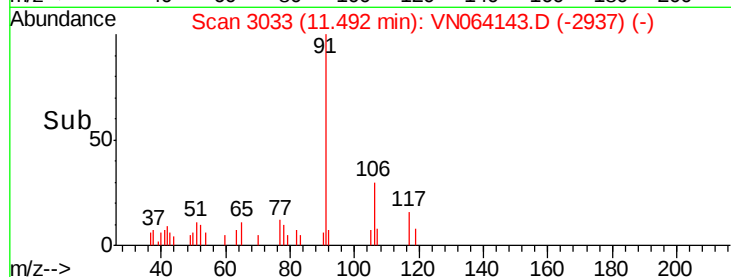
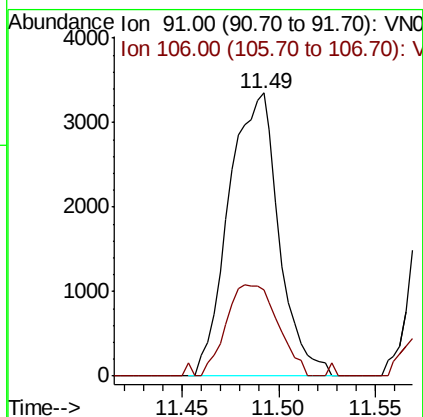
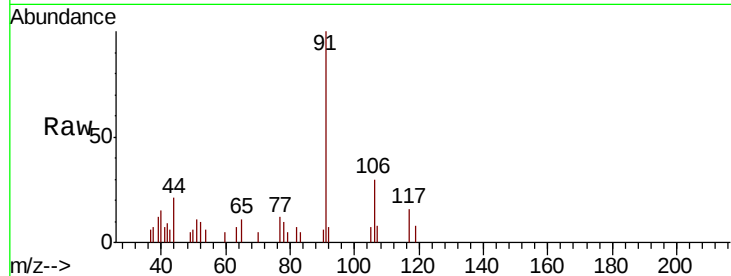




#67
Ethyl Benzene
Concen: 0.290 ug/l
RT: 11.49 min Scan# 3033
Delta R.T. 0.01 min
Lab File: VN064143.D
Acq: 15 Oct 2020 15:07

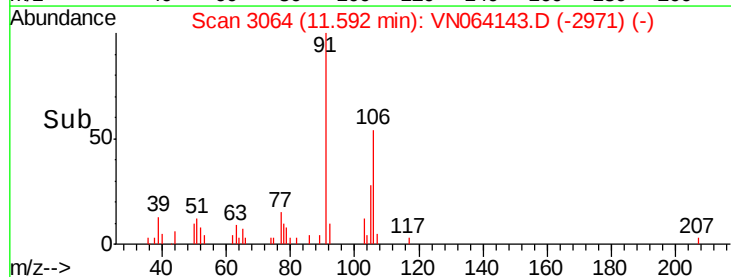
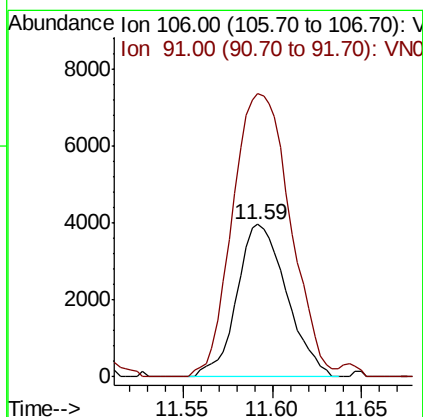
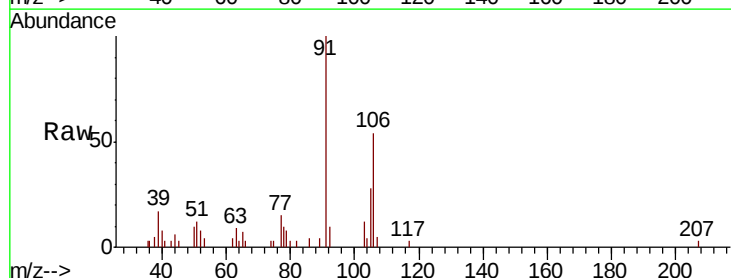
Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP

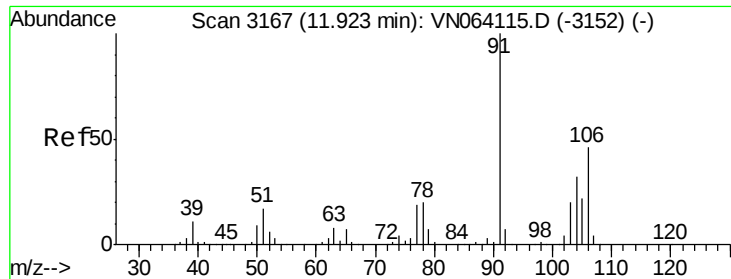
Tot Ion: 91 Resp: 6042
Ion Ratio Lower Upper
91 100
106 30.4 24.7 37.1



#68
m/p-Xylenes
Concen: 3.072 ug/l
RT: 11.59 min Scan# 3064
Delta R.T. -0.00 min
Lab File: VN064143.D
Acq: 15 Oct 2020 15:07

Tgt Ion: 106 Resp: 7731
Ion Ratio Lower Upper
106 100
91 215.2 162.1 243.1

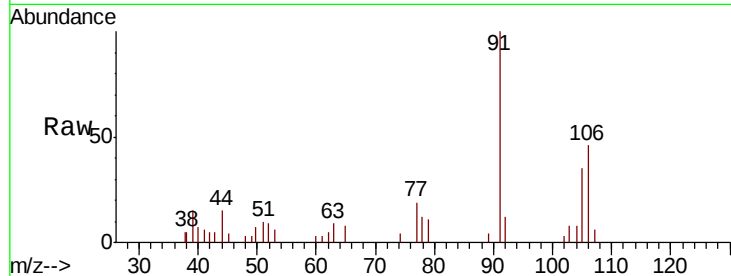




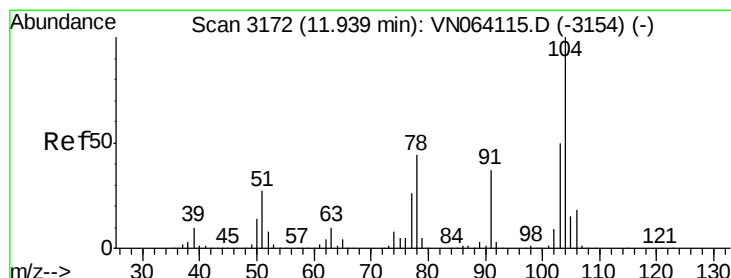
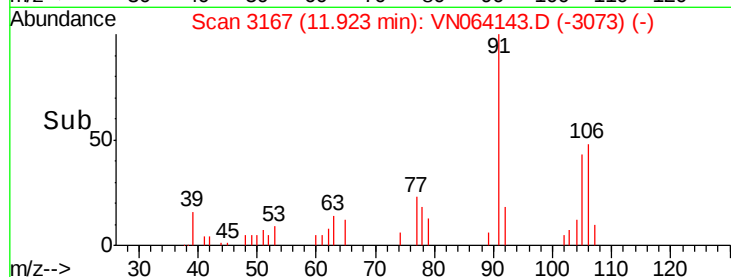
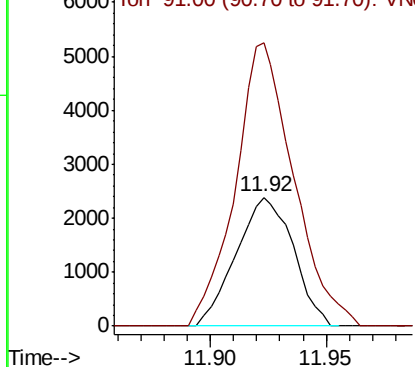
#69
o-Xylene
Concen: 2.064 ug/l
RT: 11.92 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN064143.D
Acq: 15 Oct 2020 15:07

Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP

Tot Ion:106 Resp: 4089
Ion Ratio Lower Upper
106 100
91 224.5 107.6 322.8

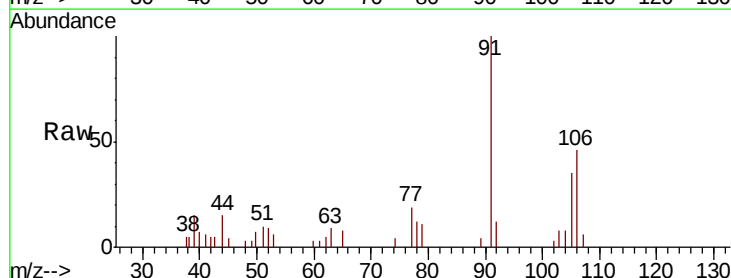


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

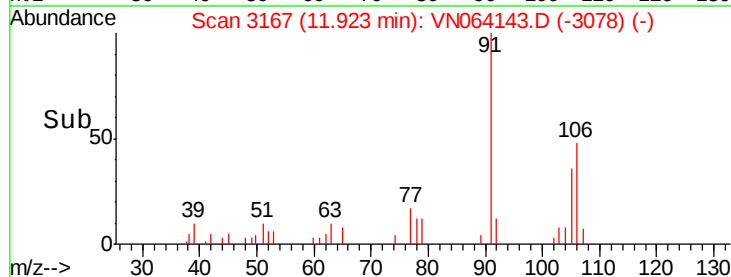
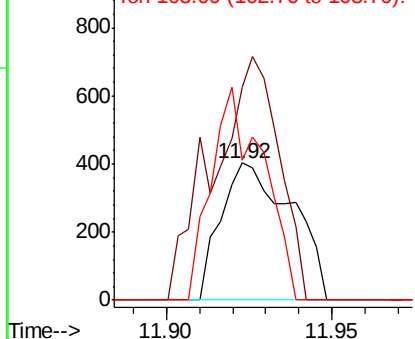


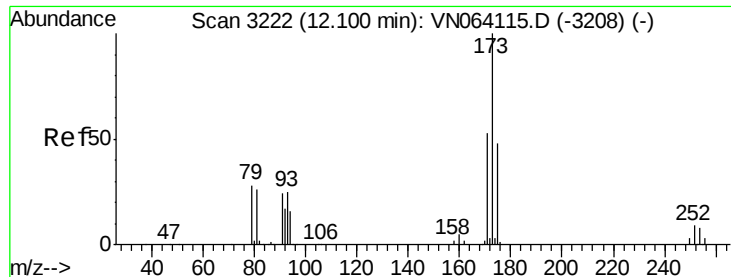
#70
Styrene
Concen: 2.077 ug/l
RT: 11.92 min Scan# 3167
Delta R.T. -0.02 min
Lab File: VN064143.D
Acq: 15 Oct 2020 15:07

Tgt Ion:104 Resp: 599
Ion Ratio Lower Upper
104 100
78 165.1 39.7 59.5#
103 113.0 44.2 66.2#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 2.836 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN064143.D

Acq: 15 Oct 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP

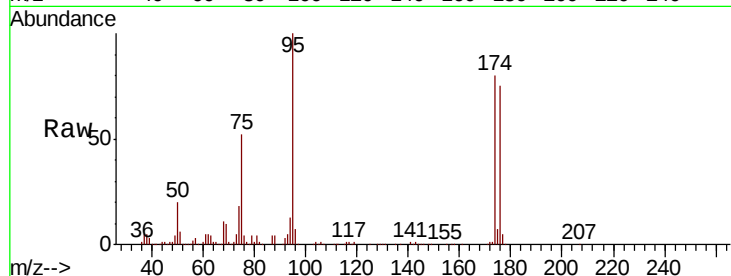
Tot Ion:173 Resp: 2480

Ion Ratio Lower Upper

173 100

175 501.9 23.4 70.2#

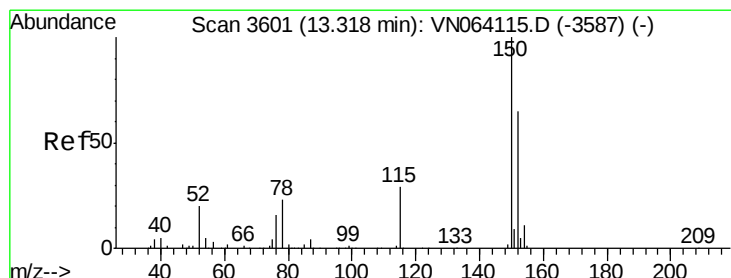
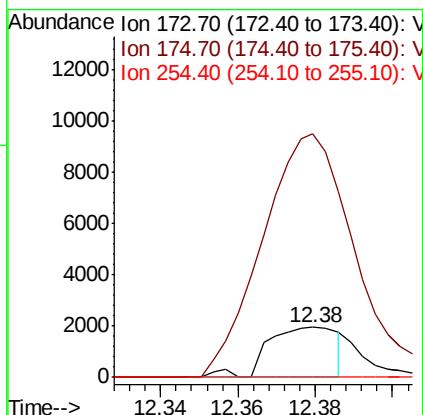
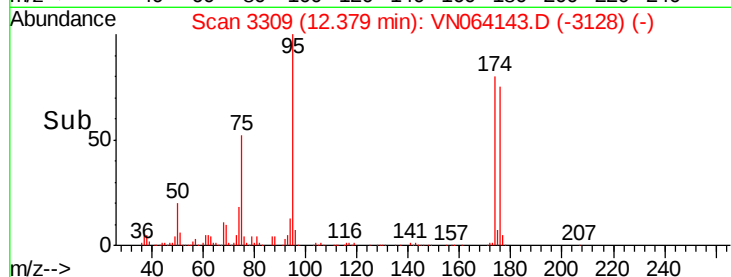
254 0.0 0.1 0.1#



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: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064143.D

Acq: 15 Oct 2020 15:07

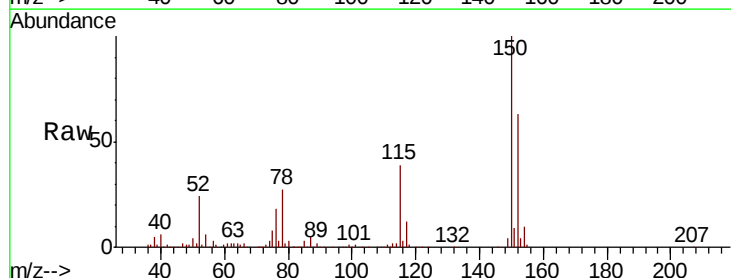
Tgt Ion:152 Resp: 217966

Ion Ratio Lower Upper

152 100

115 60.6 29.3 87.8

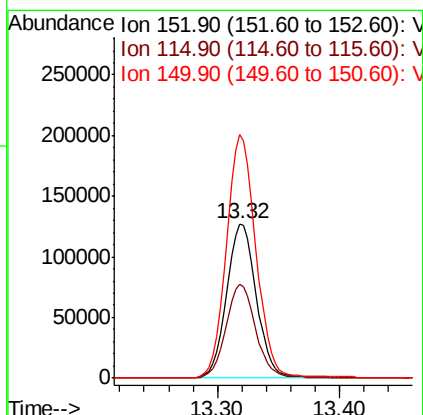
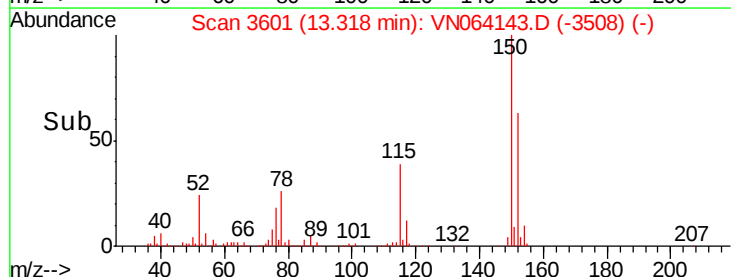
150 156.2 0.0 346.0

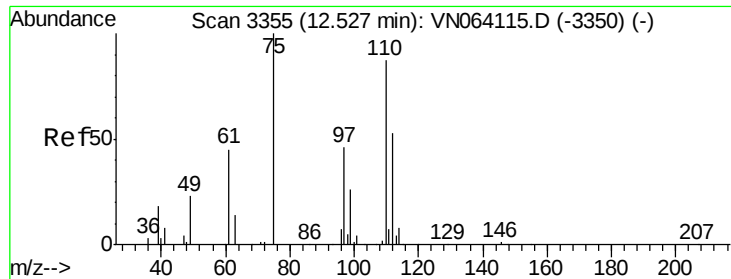


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

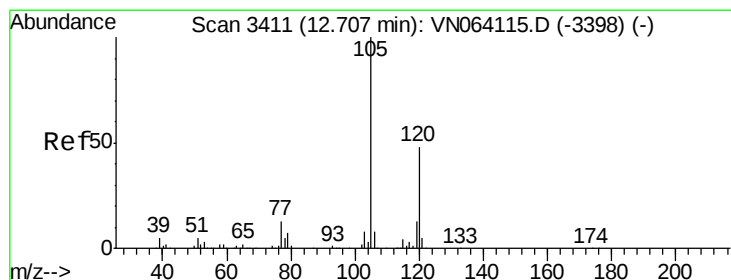
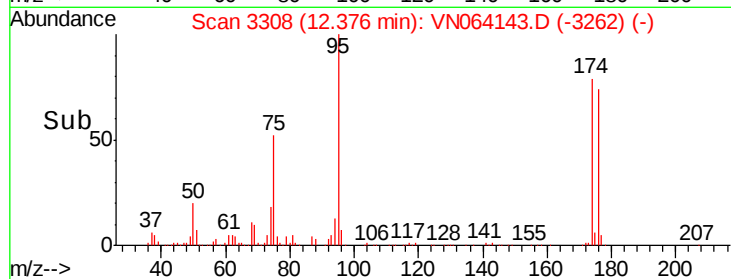
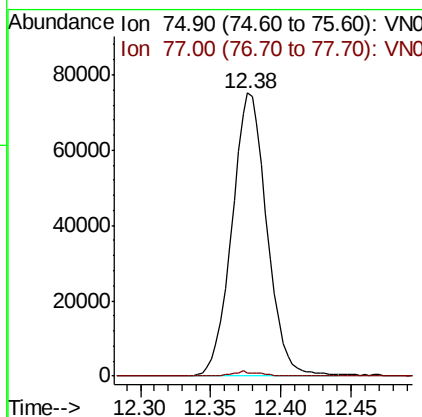
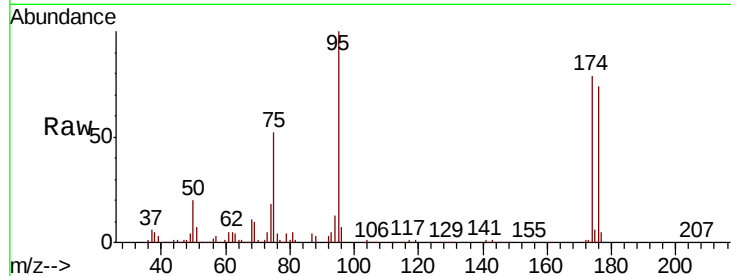




#76
 1,2,3-Trichloropropane
 Concen: 25.450 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN064143.D
 Acq: 15 Oct 2020 15:07

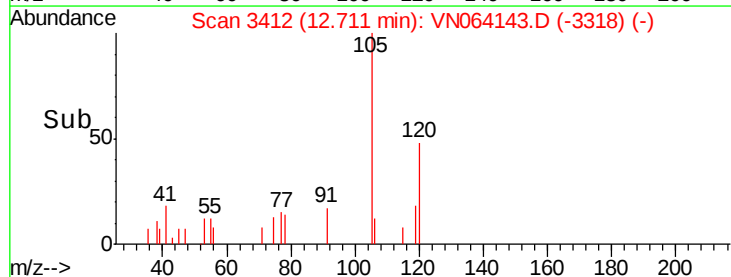
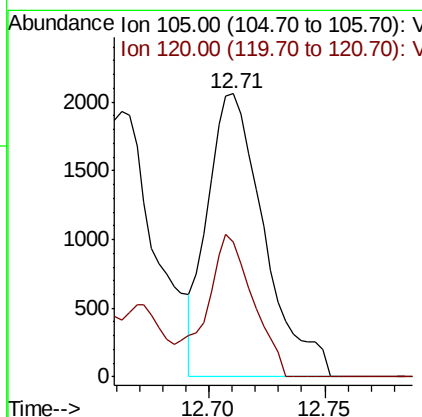
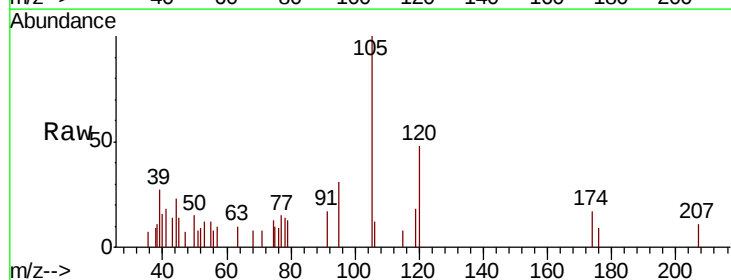
Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-COMP

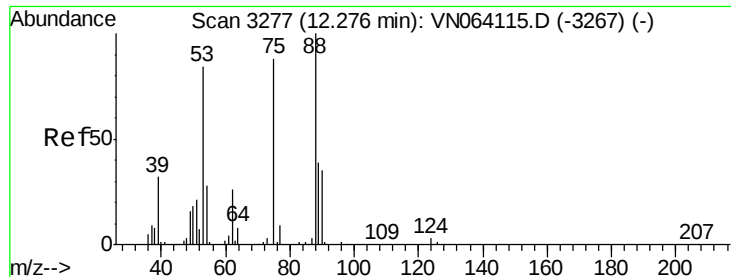
Tot Ion: 75 Resp: 130139
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.277 ug/l
 RT: 12.71 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: VN064143.D
 Acq: 15 Oct 2020 15:07

Tgt Ion: 105 Resp: 3506
 Ion Ratio Lower Upper
 105 100
 120 40.3 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 77.753 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064143.D

Acq: 15 Oct 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP

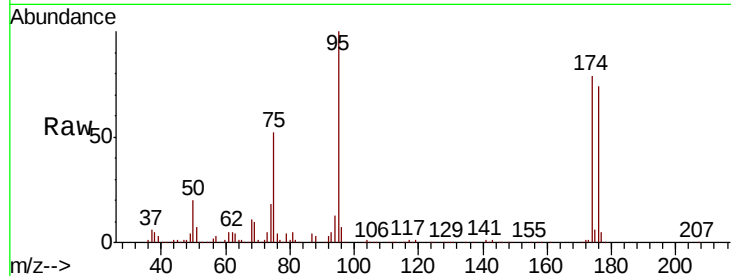
Tot Ion: 75 Resp: 130139

Ion Ratio Lower Upper

75 100

53 0.2 75.7 113.5#

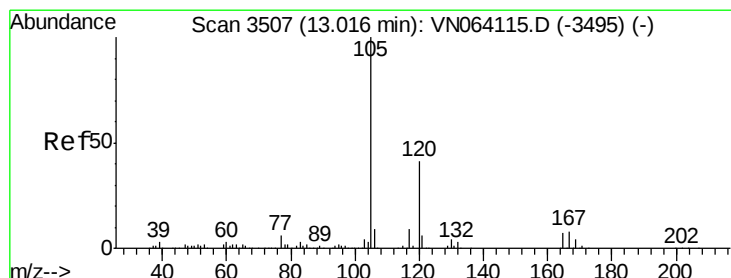
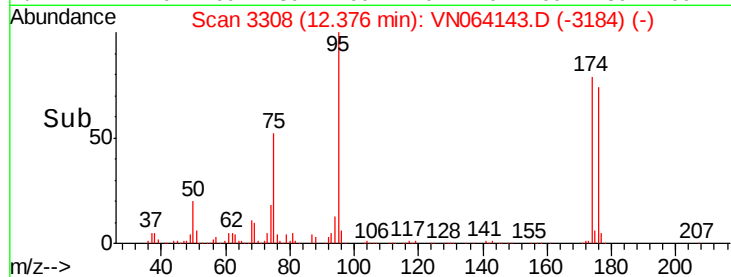
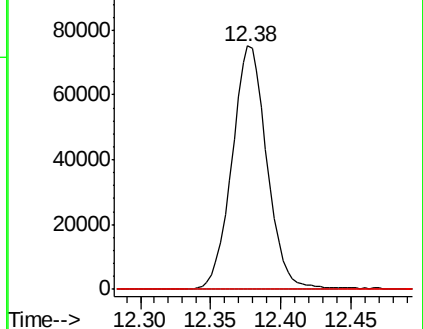
89 0.0 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#84

1,2,4-Trimethylbenzene

Concen: 1.063 ug/l

RT: 13.02 min Scan# 3507

Delta R.T. 0.00 min

Lab File: VN064143.D

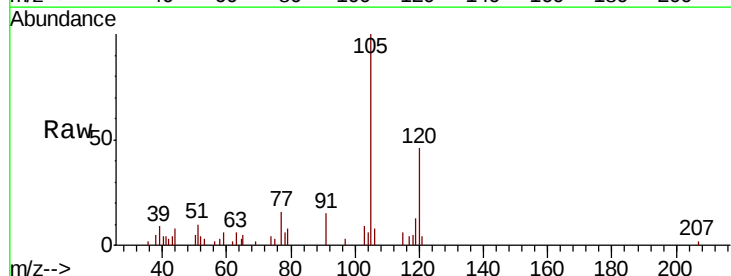
Acq: 15 Oct 2020 15:07

Tgt Ion: 105 Resp: 11653

Ion Ratio Lower Upper

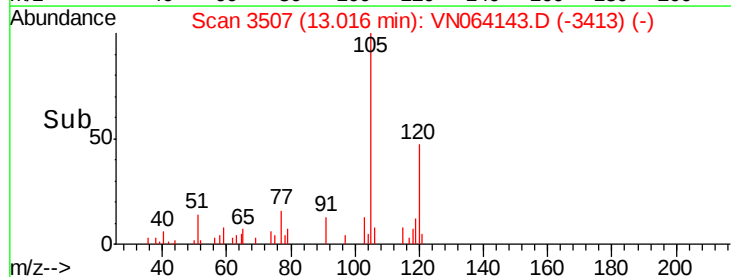
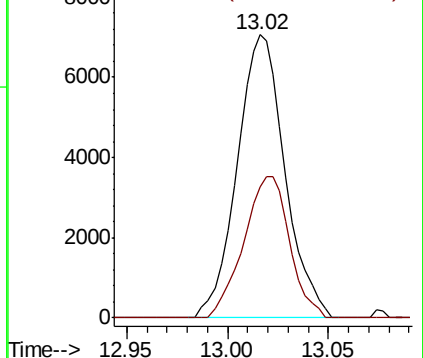
105 100

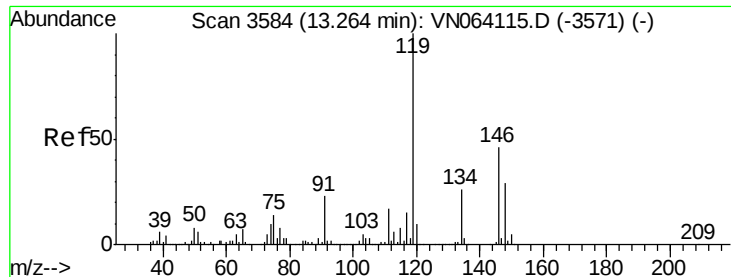
120 48.2 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

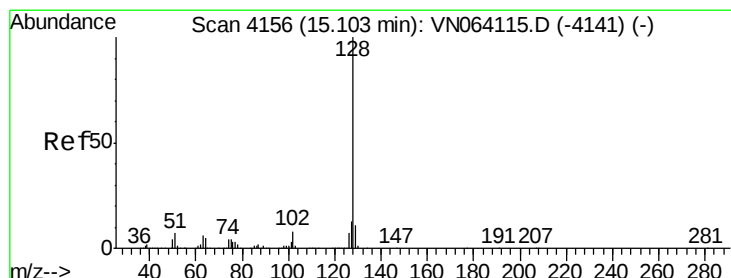
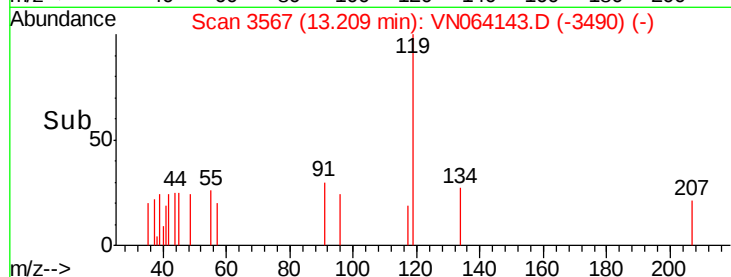
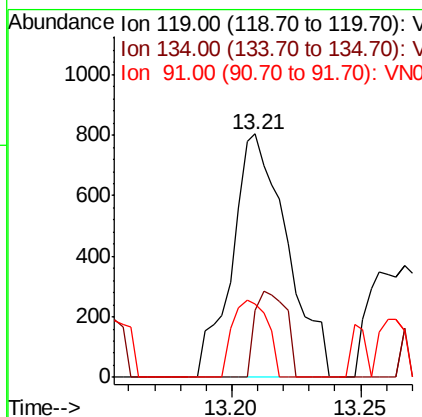
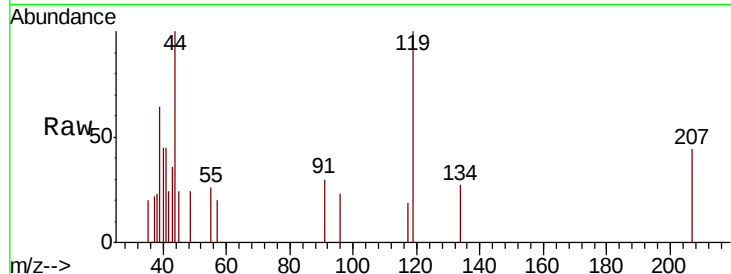




#86
 p-Isopropyltoluene
 Concen: 0.755 ug/l
 RT: 13.21 min Scan# 3567
 Delta R.T. -0.05 min
 Lab File: VN064143.D
 Acq: 15 Oct 2020 15:07

Instrument :
 MSVOA_N
 ClientSampled :
 DRUM-COMP

Tot Ion:119 Resp: 1197
 Ion Ratio Lower Upper
 119 100
 134 20.1 13.2 39.5
 91 20.4 12.0 36.1



#95
 Naphthalene
 Concen: 4.102 ug/l
 RT: 15.11 min Scan# 4157
 Delta R.T. 0.00 min
 Lab File: VN064143.D
 Acq: 15 Oct 2020 15:07

Tgt Ion:128 Resp: 3523
 Ion Ratio Lower Upper
 128 100
 127 14.7 10.2 15.4
 129 5.1 8.5 12.7#

