

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071218\
 Data File : VN049768.D
 Acq On : 12 Jul 2018 10:14
 Operator : MD\SY
 Sample : VSTDIC001
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 1:35:07 PM

Quant Time: Jul 12 15:45:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:09:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1044695	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1598191	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1385335	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	541460	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.00	65	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	0.00	95	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.86	85	13172	1.12	ug/l	95
3) Chloromethane	2.06	50	18462	1.26	ug/l	93
4) Vinyl Chloride	2.18	62	19145	1.21	ug/l	99
5) Bromomethane	2.57	94	17120	2.06	ug/l	86
6) Chloroethane	2.71	64	10942	1.09	ug/l	94
7) Trichlorofluoromethane	3.02	101	23056	1.28	ug/l	84
8) Diethyl Ether	3.42	74	8056	1.10	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	3.76	101	16247	1.25	ug/l	97
12) 1,1-Dichloroethene	3.73	96	13623	1.11	ug/l	86
14) Allyl chloride	4.33	41	21949	1.30	ug/l #	86
15) Acrylonitrile	5.00	53	21374	5.23	ug/l #	83
16) Acetone	3.83	43	21964	6.43	ug/l	93
17) Carbon Disulfide	4.05	76	46376	1.25	ug/l	99
18) Methyl Acetate	4.33	43	20852	1.00	ug/l	98
19) Methyl tert-butyl Ether	5.06	73	33544	1.06	ug/l	96
20) Methylene Chloride	4.56	84	20081	1.41	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	15380m	1.22	ug/l	
22) Diisopropyl ether	5.96	45	37476	0.98	ug/l #	94
23) Vinyl Acetate	5.90	43	125128	5.06	ug/l	99
24) 1,1-Dichloroethane	5.85	63	28279	1.18	ug/l	97
25) 2-Butanone	6.84	43	25403	5.55	ug/l	94
26) 2,2-Dichloropropane	6.82	77	22962	1.15	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	16570	1.17	ug/l	99
28) Bromochloromethane	7.20	49	12346	1.21	ug/l	97
29) Tetrahydrofuran	7.22	42	15381	5.27	ug/l	94
30) Chloroform	7.37	83	29861	1.22	ug/l	95
31) Cyclohexane	7.66	56	38659	1.63	ug/l #	41
32) 1,1,1-Trichloroethane	7.58	97	24879	1.20	ug/l	97
36) 1,1-Dichloropropene	7.79	75	20256	1.13	ug/l	96
37) Ethyl Acetate	6.94	43	11251	1.07	ug/l	96
38) Carbon Tetrachloride	7.77	117	22477	1.29	ug/l	97
39) Methylcyclohexane	9.08	83	20149	1.02	ug/l	94
40) Benzene	8.04	78	59633	1.09	ug/l	99
41) Methacrylonitrile	7.18	41	7154	1.21	ug/l #	68

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,2-Dichloroethane	8.13	62	20520	1.17	ug/l	100
43) Isopropyl Acetate	8.17	43	19595	0.79	ug/l	99
44) Trichloroethene	8.83	130	17318	1.05	ug/l	91
45) 1,2-Dichloropropane	9.12	63	16265	1.15	ug/l	97
46) Dibromomethane	9.21	93	9681	1.13	ug/l	97
47) Bromodichloromethane	9.40	83	21589	1.18	ug/l	97
48) Methyl methacrylate	9.20	41	10378	1.11	ug/l #	78
49) 1,4-Dioxane	9.21	88	2527	20.17	ug/l #	83
51) 4-Methyl-2-Pentanone	9.99	43	47990	4.67	ug/l	96
52) Toluene	10.16	92	31088	0.94	ug/l	96
53) t-1,3-Dichloropropene	10.38	75	17272	0.99	ug/l	92
54) cis-1,3-Dichloropropene	9.84	75	19033	0.93	ug/l #	89
55) 1,1,2-Trichloroethane	10.56	97	17628	1.43	ug/l	88
56) Ethyl methacrylate	10.43	69	12034	0.83	ug/l	95
57) 1,3-Dichloropropane	10.71	76	22653	1.13	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	29374	4.36	ug/l	98
59) 2-Hexanone	10.75	43	30835	4.54	ug/l	88
60) Dibromochloromethane	10.90	129	14611	1.09	ug/l	99
61) 1,2-Dibromoethane	11.01	107	12120	1.02	ug/l	99
64) Tetrachloroethene	10.63	164	14922	0.80	ug/l	97
65) Chlorobenzene	11.43	112	40797	1.13	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.51	131	15003	1.16	ug/l #	61
67) Ethyl Benzene	11.51	91	57713	0.97	ug/l	98
68) m/p-Xylenes	11.62	106	39374	1.72	ug/l	97
69) o-Xylene	11.95	106	19520	0.89	ug/l	92
70) Styrene	11.97	104	26475	0.75	ug/l	98
71) Bromoform	12.13	173	8735	1.01	ug/l #	89
73) Isopropylbenzene	12.25	105	48013	1.11	ug/l	98
74) N-amyl acetate	12.07	43	11078	0.94	ug/l	92
75) 1,1,2,2-Tetrachloroethane	12.51	83	15569	1.53	ug/l	96
76) 1,2,3-Trichloropropane	12.56	75	12202m	1.41	ug/l	
77) Bromobenzene	12.53	156	14548	1.24	ug/l	96
78) n-propylbenzene	12.59	91	52680	1.07	ug/l	96
79) 2-Chlorotoluene	12.68	91	34223	1.09	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	35512	0.99	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	2777	1.09	ug/l #	80
82) 4-Chlorotoluene	12.78	91	31067	0.99	ug/l	100
83) tert-Butylbenzene	12.99	119	33711	1.09	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	32548	0.88	ug/l	98
85) sec-Butylbenzene	13.17	105	39253	0.96	ug/l	95
86) p-Isopropyltoluene	13.29	119	30944	0.88	ug/l	97
87) 1,3-Dichlorobenzene	13.29	146	22681	1.05	ug/l	96
88) 1,4-Dichlorobenzene	13.37	146	22239m	1.03	ug/l	
89) n-Butylbenzene	13.62	91	24420	0.81	ug/l	96
90) Hexachloroethane	13.88	117	9763	2.63	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	23369	1.11	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	2525	1.42	ug/l	74
93) 1,2,4-Trichlorobenzene	14.91	180	8248	0.85	ug/l	98
94) Hexachlorobutadiene	15.01	225	8774	1.31	ug/l	98
95) Naphthalene	15.14	128	16107	0.77	ug/l	98

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ClientSampleId :
VSTDICC001

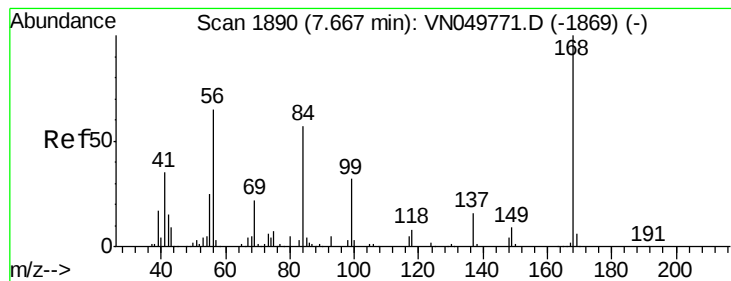
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2,3-Trichlorobenzene	15.32	180	9393	0.94	ug/l	94

(#) = 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: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:168 Resp: 1044695

Ion Ratio Lower Upper

168 100

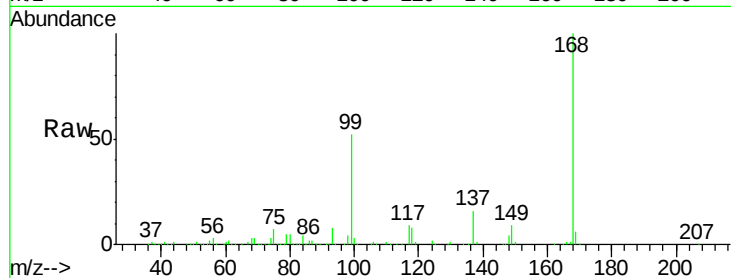
99 51.8 40.6 61.0

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

300000

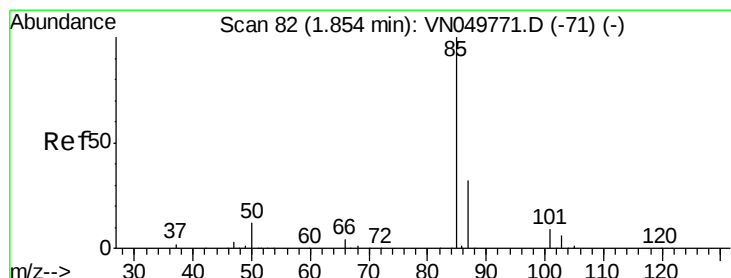
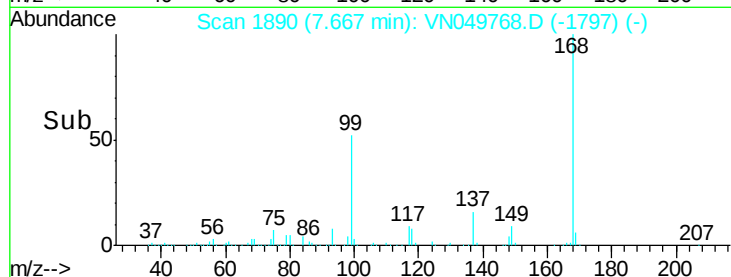
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 1.12 ug/l

RT: 1.86 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN049768.D

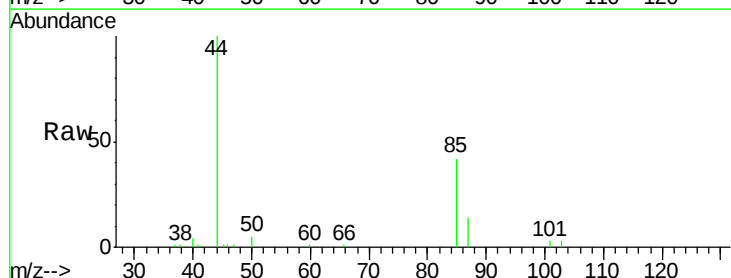
Acq: 12 Jul 2018 10:14

Tgt Ion: 85 Resp: 13172

Ion Ratio Lower Upper

85 100

87 33.5 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.86

12000

10000

8000

6000

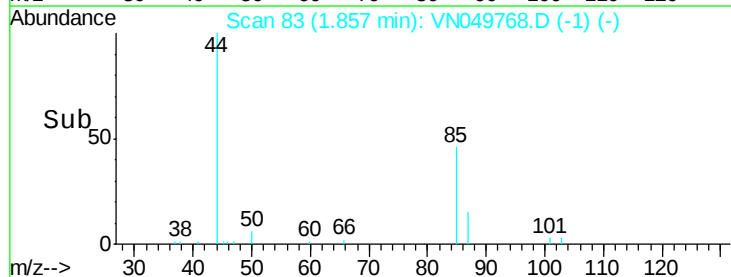
4000

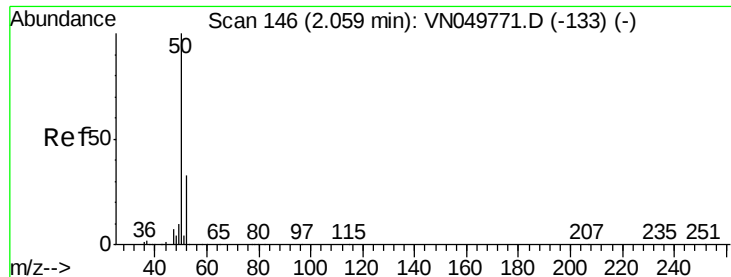
2000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 1.26 ug/l

RT: 2.06 min Scan# 146

Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 50 Resp: 18462

Ion Ratio Lower Upper

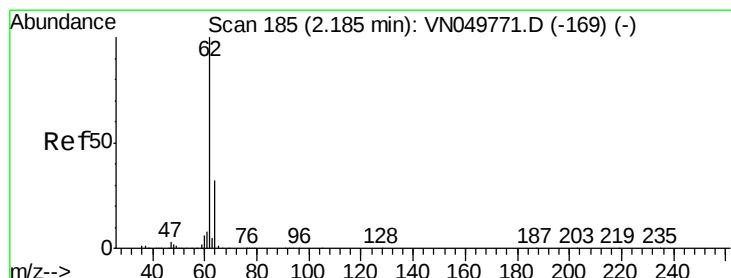
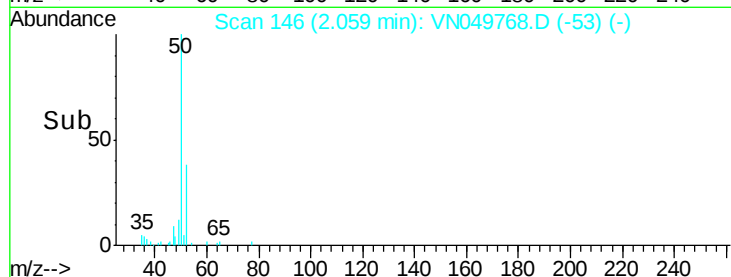
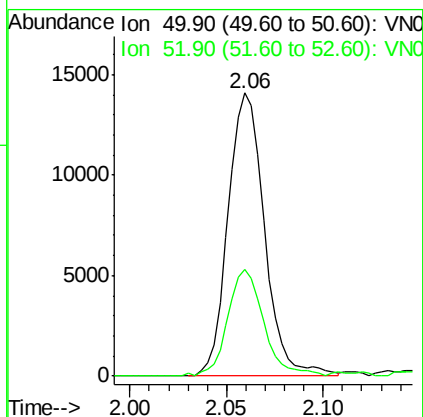
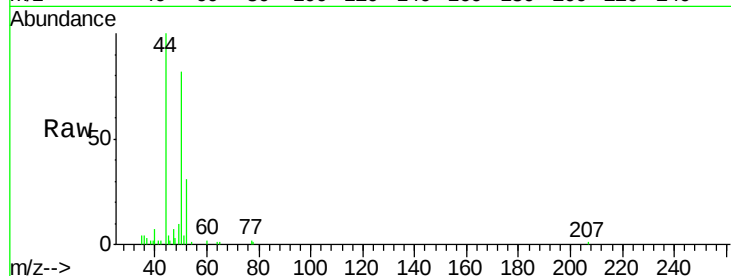
50 100

52 36.7 26.1 39.1

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#4

Vinyl Chloride

Concen: 1.21 ug/l

RT: 2.18 min Scan# 185

Delta R.T. -0.00 min

Lab File: VN049768.D

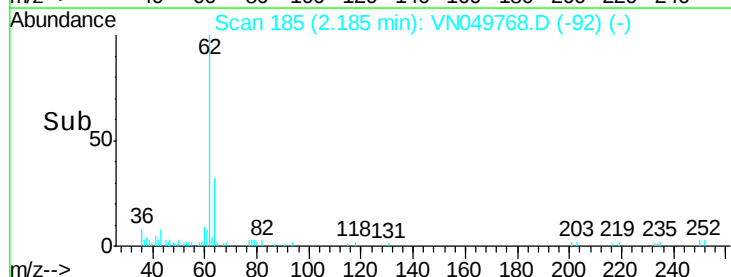
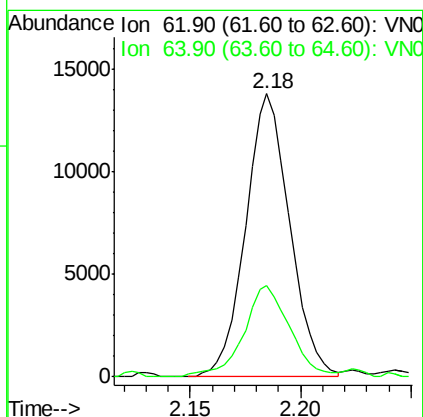
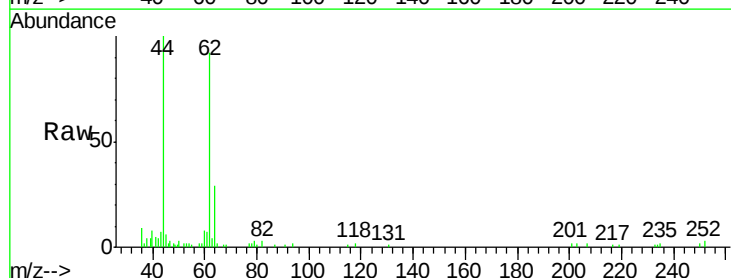
Acq: 12 Jul 2018 10:14

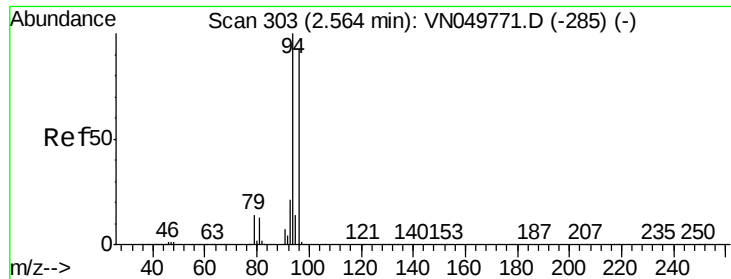
Tgt Ion: 62 Resp: 19145

Ion Ratio Lower Upper

62 100

64 31.1 25.4 38.0





#5

Bromomethane

Concen: 2.06 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

Tot Ion: 94 Resp: 17120

Ion Ratio Lower Upper

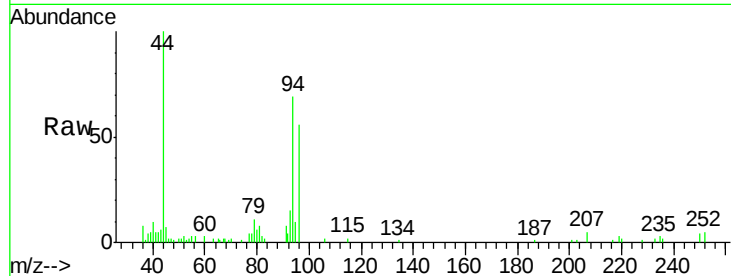
94 100

96 81.4 75.7 113.5

Manual Integrations
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7/13/2018 1:35:07 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

10000

8000

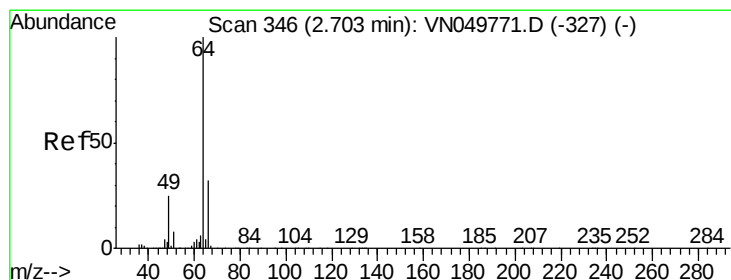
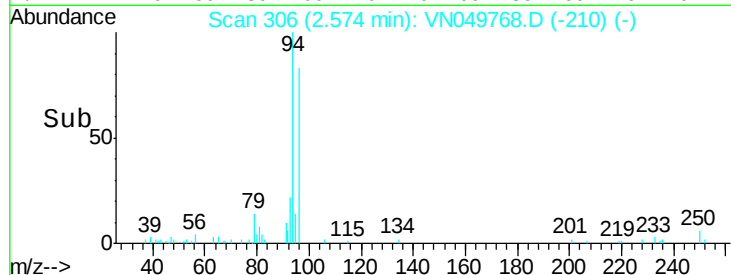
6000

4000

2000

0

Time-->



#6

Chloroethane

Concen: 1.09 ug/l

RT: 2.71 min Scan# 347

Delta R.T. 0.00 min

Lab File: VN049768.D

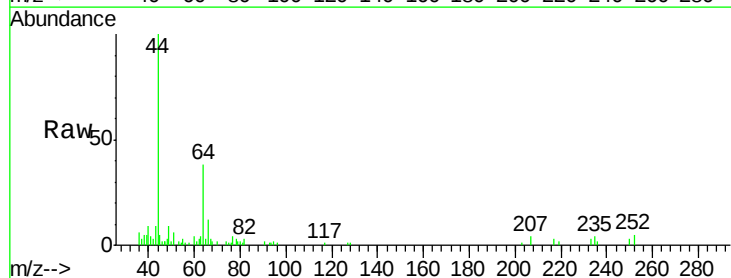
Acq: 12 Jul 2018 10:14

Tgt Ion: 64 Resp: 10942

Ion Ratio Lower Upper

64 100

66 28.8 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.71

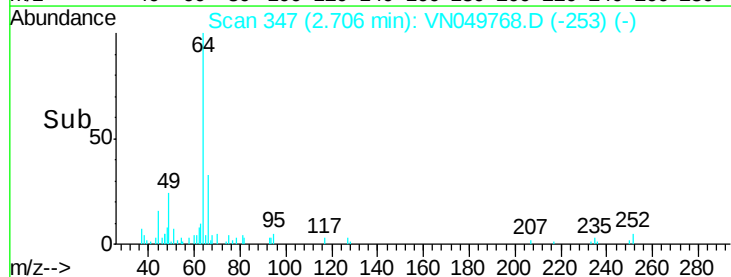
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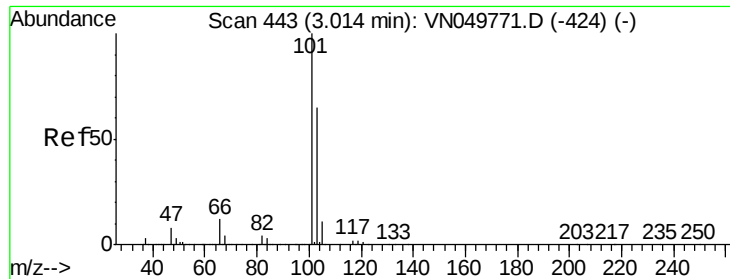
4000

2000

0

Time-->





#7

Trichlorofluoromethane

Concen: 1.28 ug/l

RT: 3.02 min Scan# 444

Delta R.T. 0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:101 Resp: 23056

Ion Ratio Lower Upper

101 100

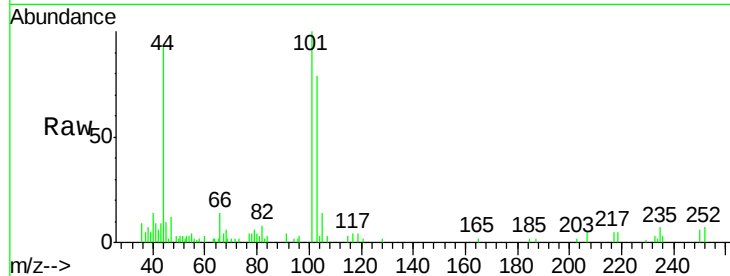
103 79.0 52.8 79.2

Manual Integrations

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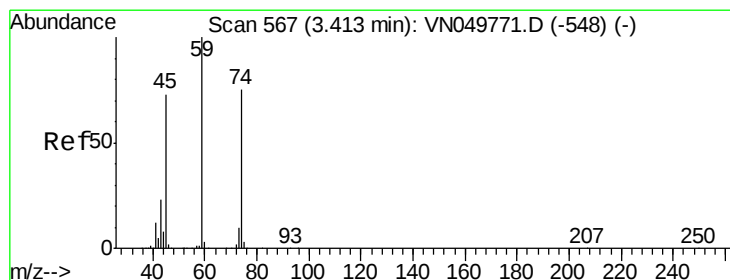
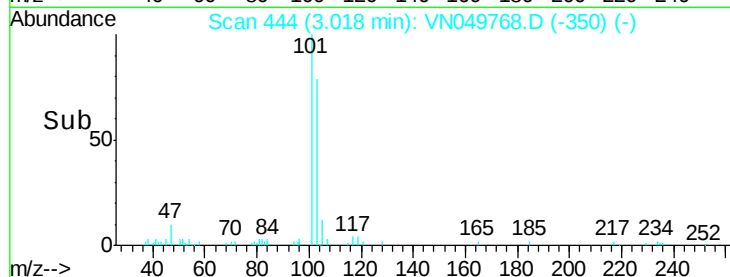
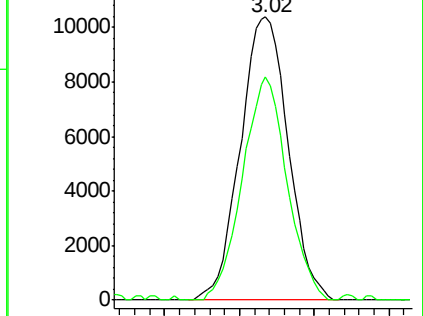
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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 1.10 ug/l

RT: 3.42 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN049768.D

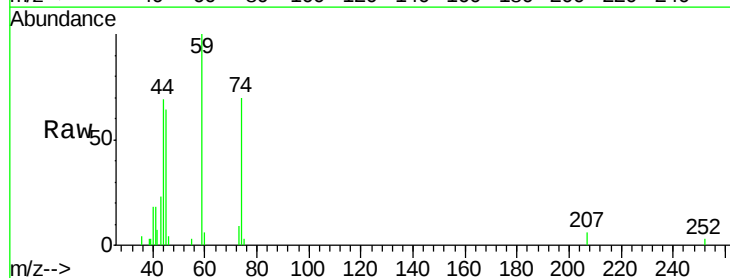
Acq: 12 Jul 2018 10:14

Tgt Ion: 74 Resp: 8056

Ion Ratio Lower Upper

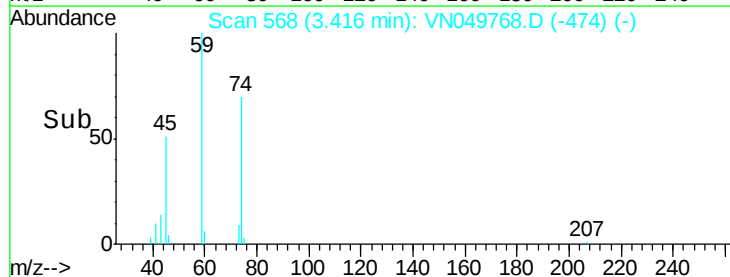
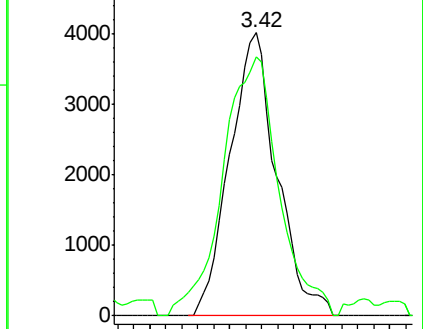
74 100

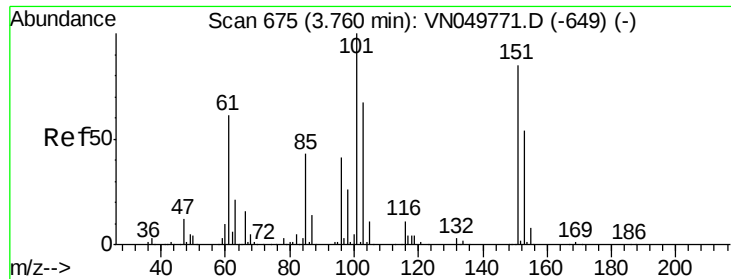
45 109.3 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





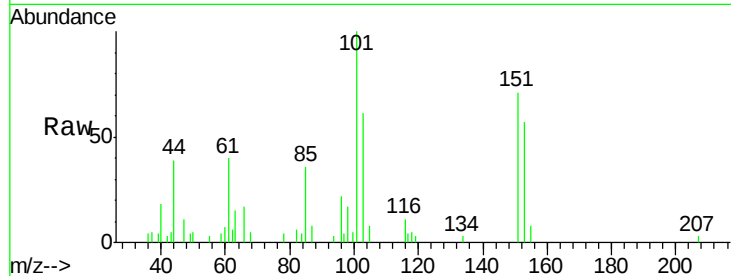
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.25 ug/l
 RT: 3.76 min Scan# 676
 Delta R.T. 0.00 min
 Lab File: VN049768.D
 Acq: 12 Jul 2018 10:14

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC001

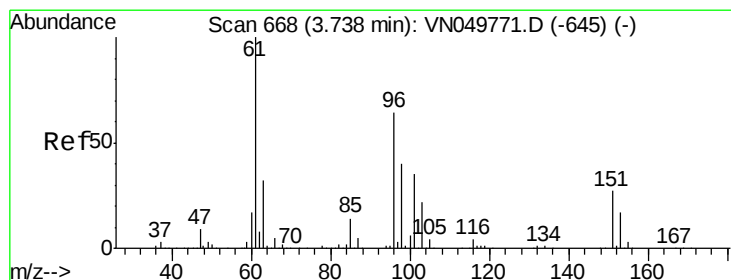
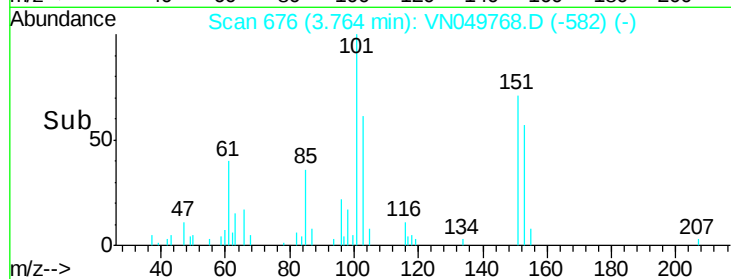
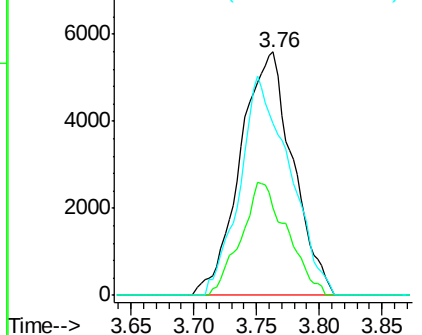
Tot Ion	Ratio	Lower	Upper
101	100		
85	40.9	34.4	51.6
151	85.4	66.2	99.4

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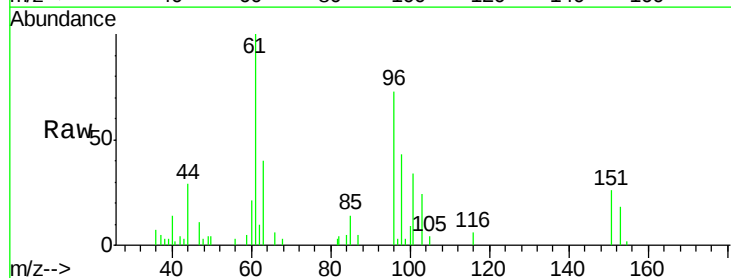


Abundance Ion 100.90 (100.60 to 101.60): V
 Ion 84.90 (84.60 to 85.60): VNO
 Ion 150.80 (150.50 to 151.50): V

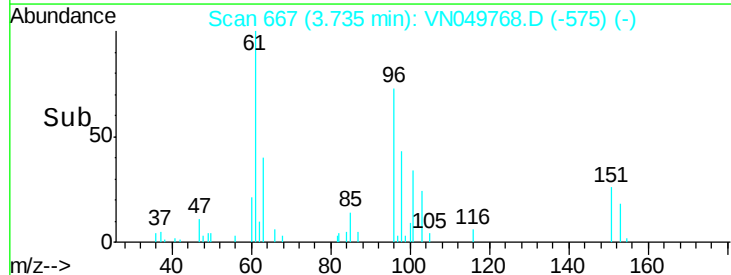
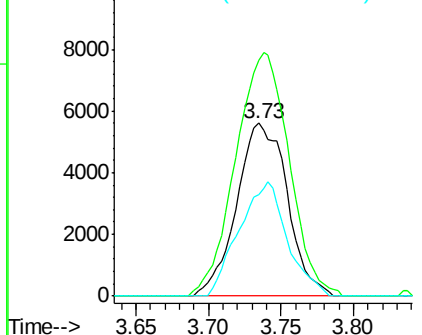


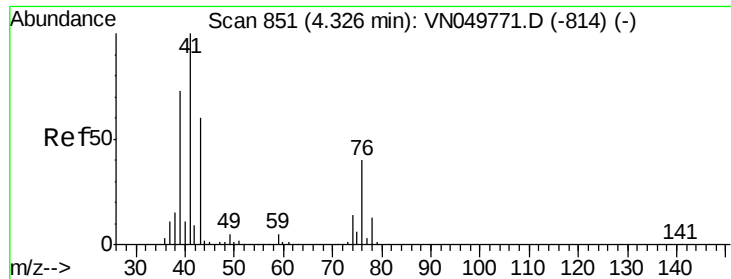
#12
 1,1-Dichloroethene
 Concen: 1.11 ug/l
 RT: 3.73 min Scan# 667
 Delta R.T. -0.00 min
 Lab File: VN049768.D
 Acq: 12 Jul 2018 10:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	136.3	126.5	189.7
98	58.4	51.0	76.6



Abundance Ion 95.90 (95.60 to 96.60): VNO
 Ion 60.90 (60.60 to 61.60): VNO
 Ion 97.90 (97.60 to 98.60): VNO





#14

Allvl chloride

Concen: 1.30 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

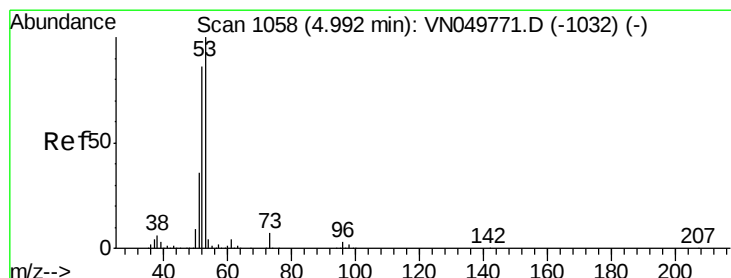
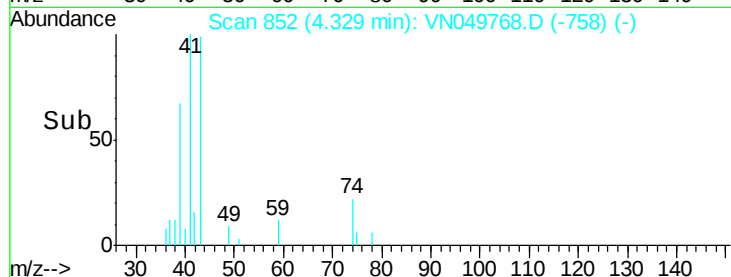
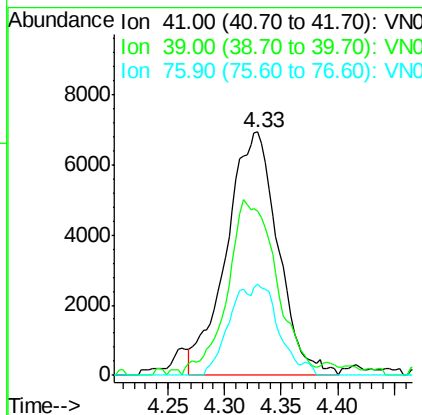
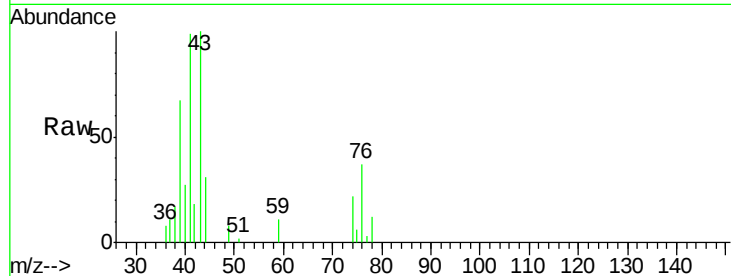
ClientSampled :

VSTDIC001

Tot Ion:	41	Resp:	21949
Ion	Ratio	Lower	Upper
41	100		
39	68.7	53.2	79.8
76	16.4	29.0	43.6#

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#15

Acrylonitrile

Concen: 5.23 ug/l

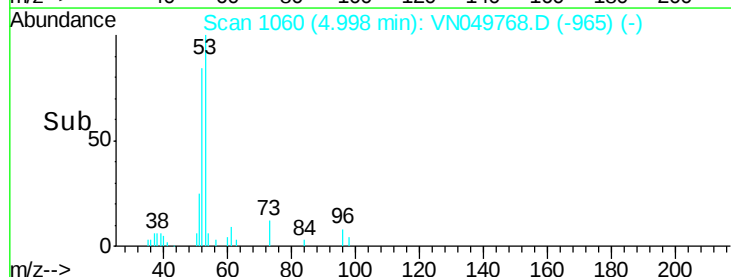
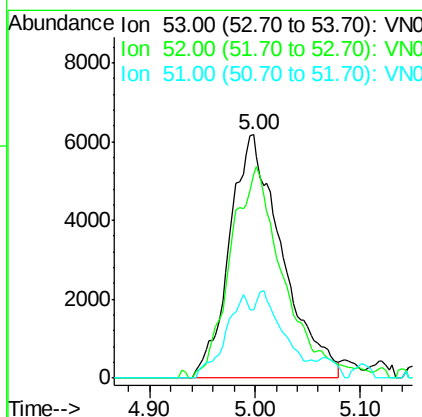
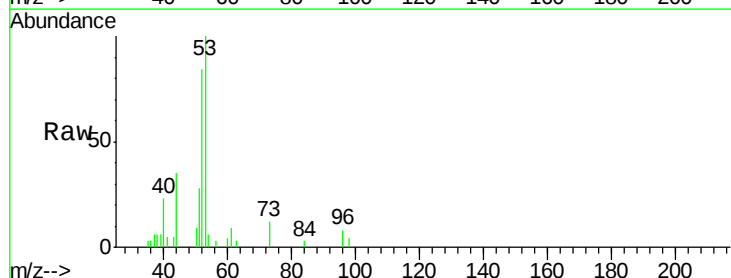
RT: 5.00 min Scan# 1060

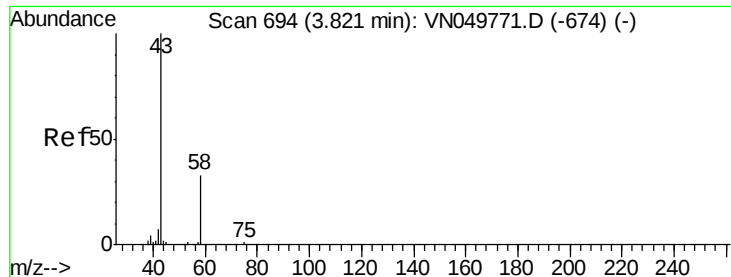
Delta R.T. 0.01 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Tgt Ion:	53	Resp:	21374
Ion	Ratio	Lower	Upper
53	100		
52	87.8	64.8	97.2
51	13.6	28.9	43.3#





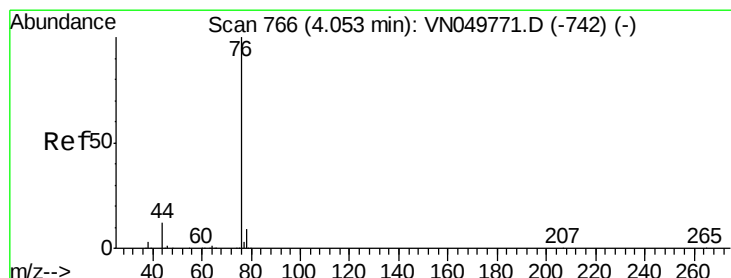
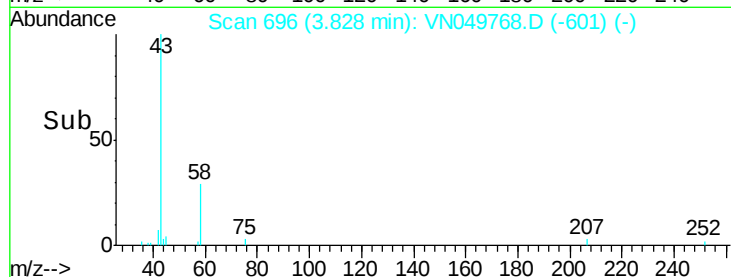
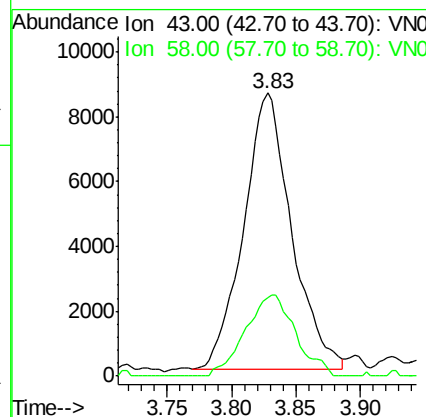
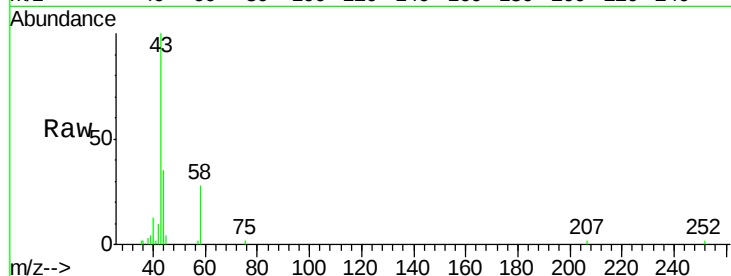
#16
Acetone
Concen: 6.43 ug/l
RT: 3.83 min Scan# 696
Delta R.T. 0.01 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion: 43 Resp: 21964
Ion Ratio Lower Upper
43 100
58 28.4 25.9 38.9

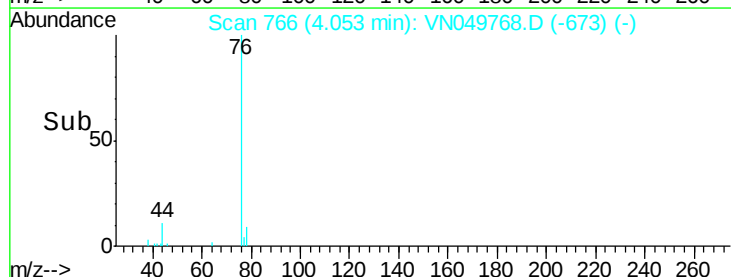
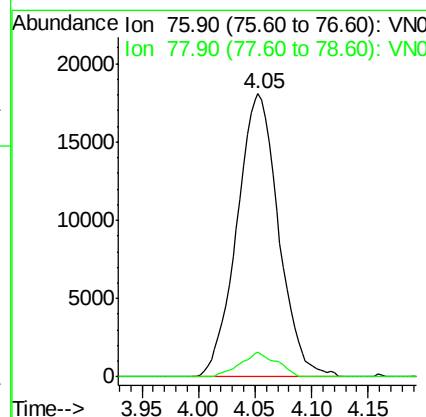
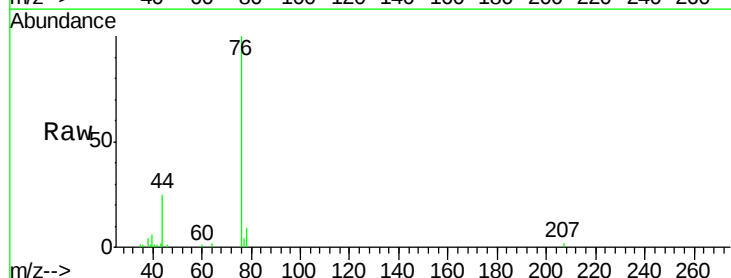
Manual Integrations
APPROVED

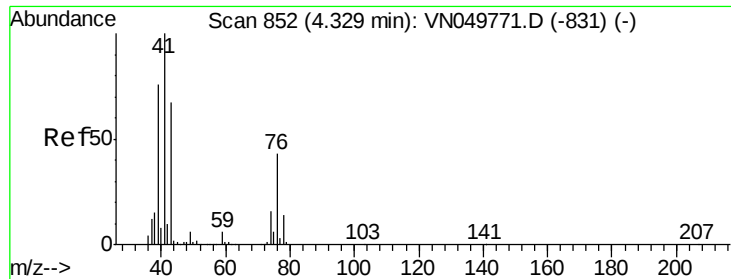
MMDadoda
7/13/2018 1:35:07 PM



#17
Carbon Disulfide
Concen: 1.25 ug/l
RT: 4.05 min Scan# 766
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Tgt Ion: 76 Resp: 46376
Ion Ratio Lower Upper
76 100
78 8.7 7.1 10.7





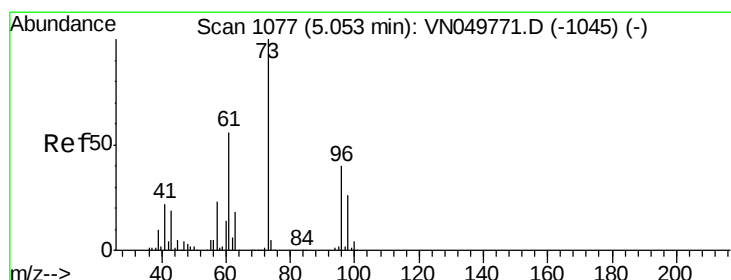
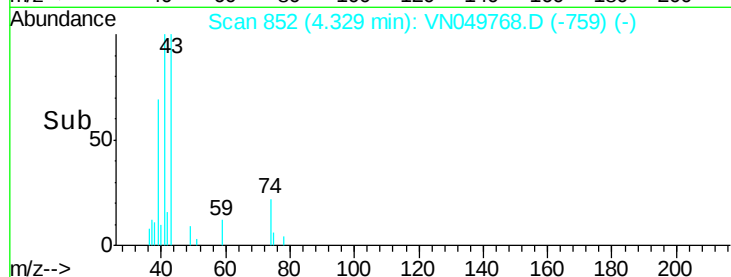
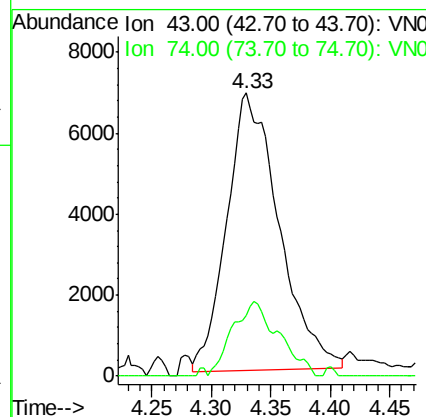
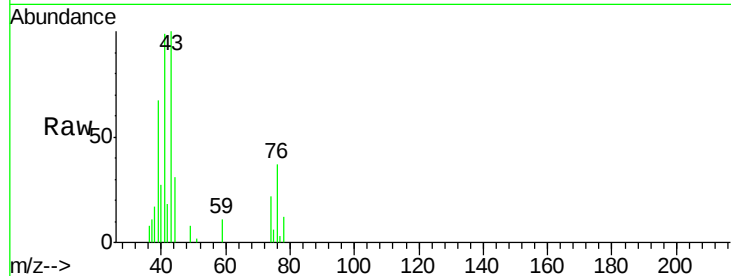
#18
Methvl Acetate
Concen: 1.00 ug/l
RT: 4.33 min Scan# 852
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	43	Resp	20852
Ion Ratio	Lower	Upper	
43	100		
74	23.8	19.8	29.8

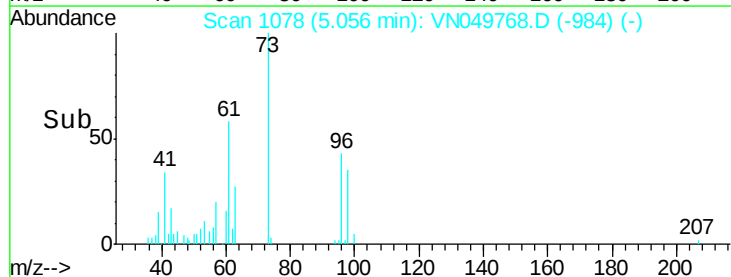
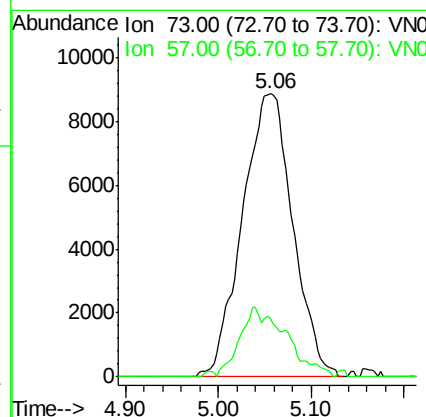
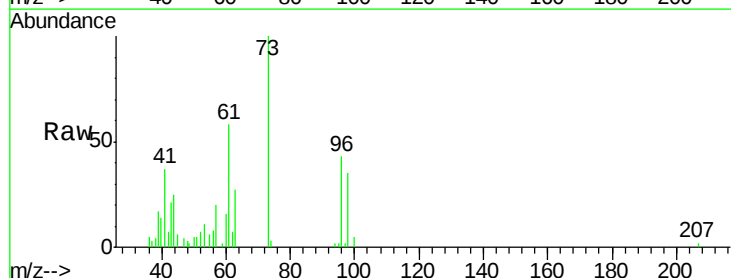
Manual Integrations
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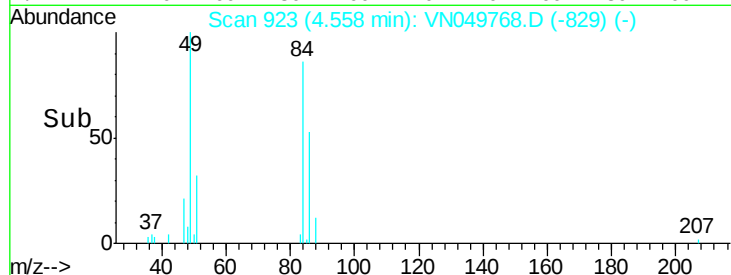
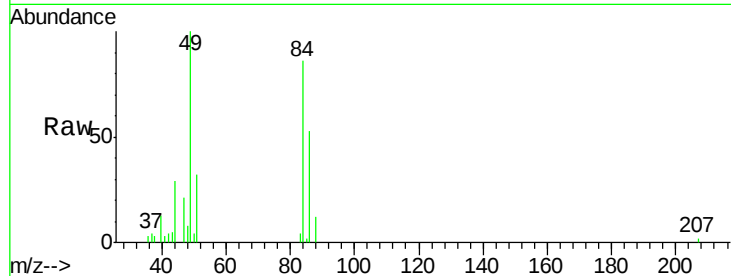
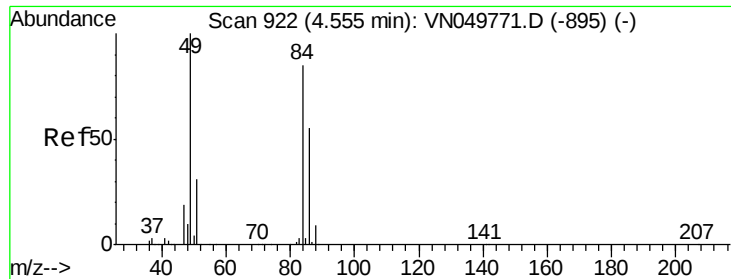
MMDadoda
7/13/2018 1:35:07 PM



#19
Methyl tert-butyl Ether
Concen: 1.06 ug/l
RT: 5.06 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

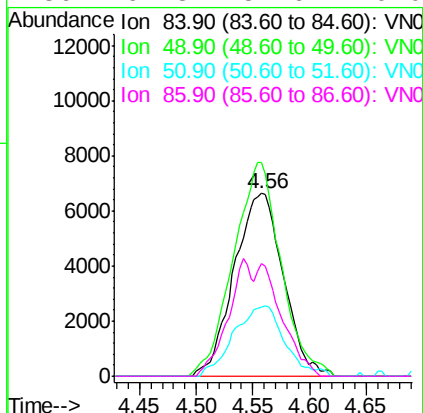
Tgt Ion	73	Resp	33544
Ion Ratio	Lower	Upper	
73	100		
57	20.4	18.1	27.1





#20
Methvlene Chloride
Concen: 1.41 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

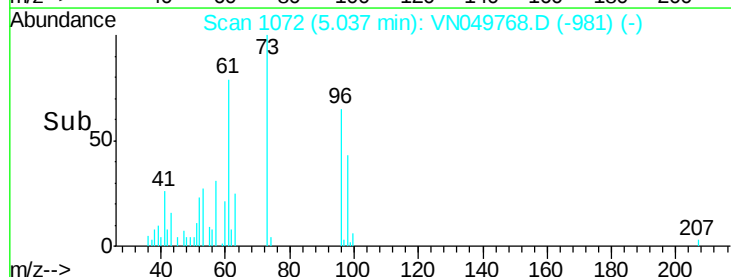
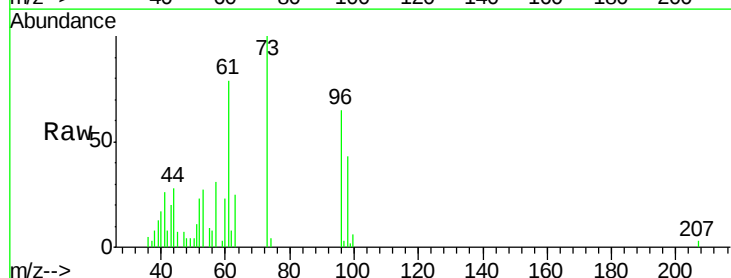
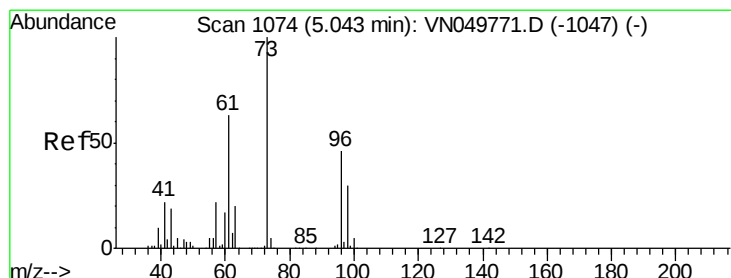
Tot Ion	84	Resp	20081
Ion	Ratio	Lower	Upper
84	100		
49	116.8	95.4	143.2
51	37.6	28.4	42.6
86	61.8	52.6	79.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

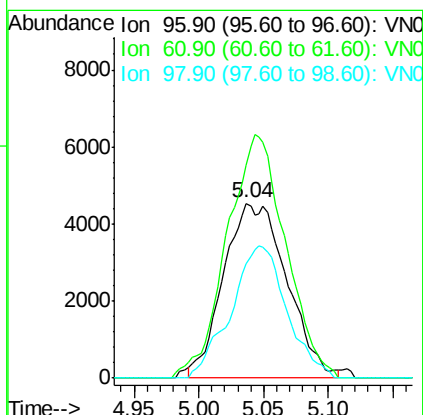
Manual Integrations
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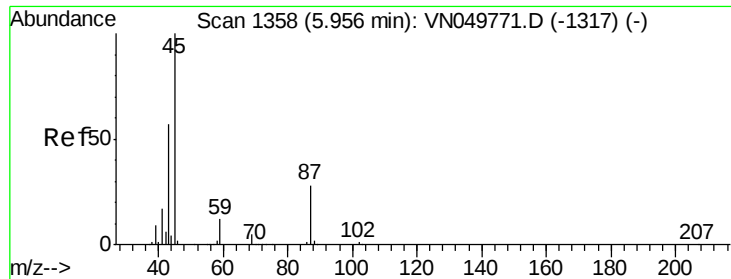
MMDadoda
7/13/2018 1:35:07 PM



#21
trans-1,2-Dichloroethene
Concen: 1.22 ug/l m
RT: 5.04 min Scan# 1072
Delta R.T. -0.01 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Tgt Ion	96	Resp	15380
Ion	Ratio	Lower	Upper
96	100		
61	121.9	109.0	163.6
98	65.7	51.1	76.7





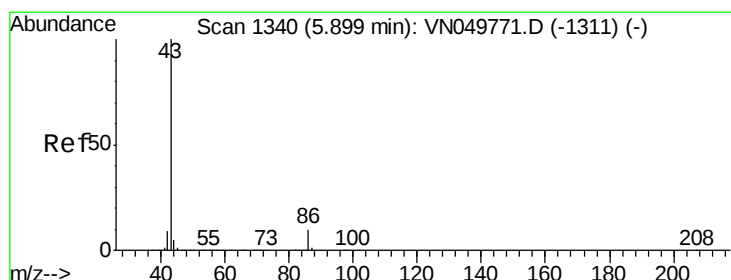
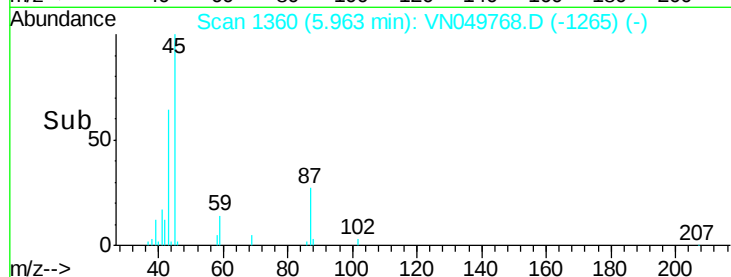
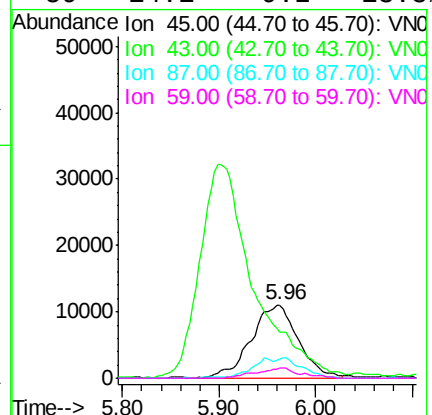
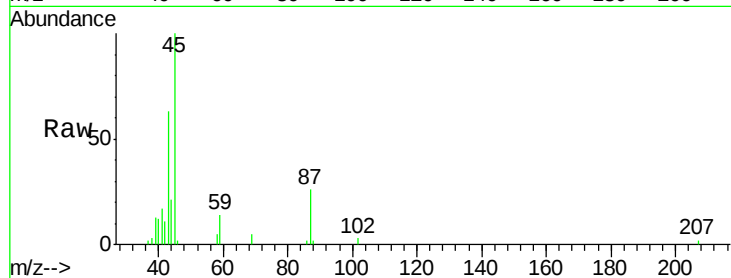
#22
Diisopropyl ether
Concen: 0.98 ug/l
RT: 5.96 min Scan# 1360
Delta R.T. 0.01 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
45	100		
43	55.1	48.1	72.1
87	26.0	22.6	34.0
59	14.1	9.2	13.8

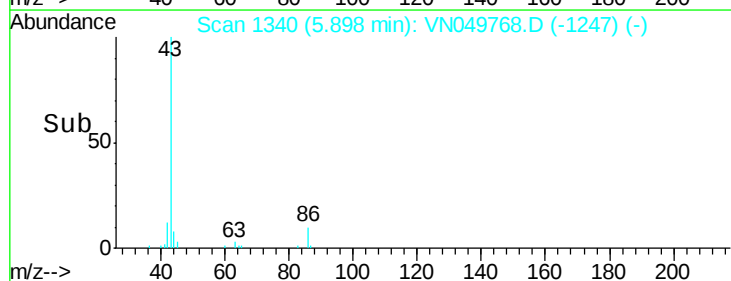
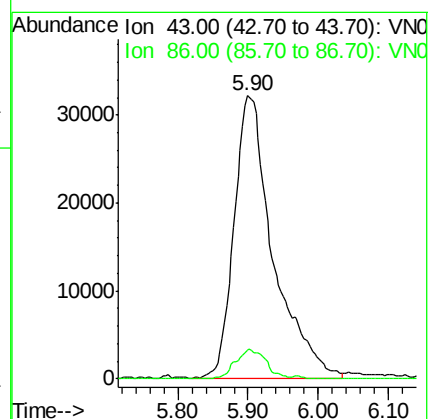
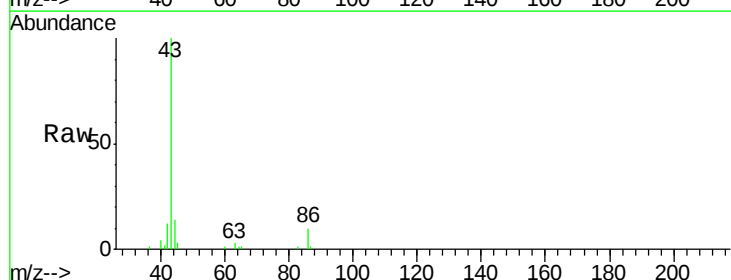
Manual Integrations
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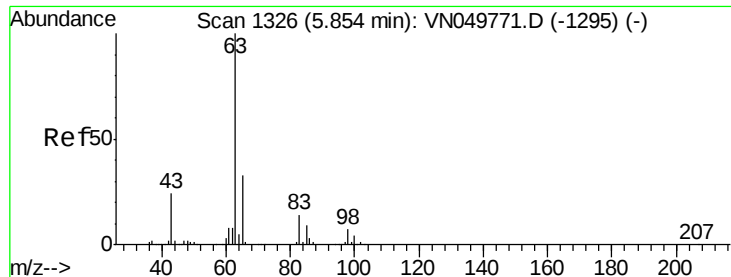
MMDadoda
7/13/2018 1:35:07 PM



#23
Vinyl Acetate
Concen: 5.06 ug/l
RT: 5.90 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Tgt Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.4	12.6





#24

1,1-Dichloroethane

Concen: 1.18 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

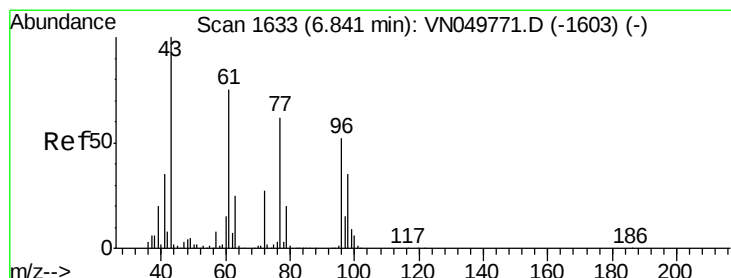
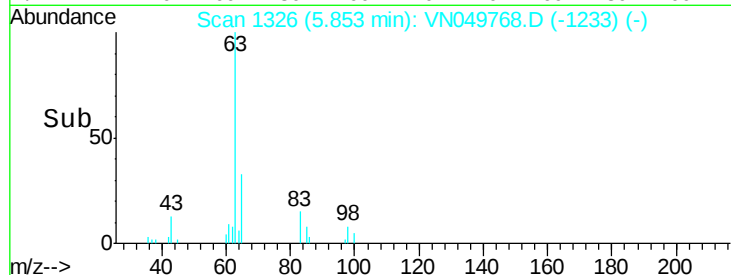
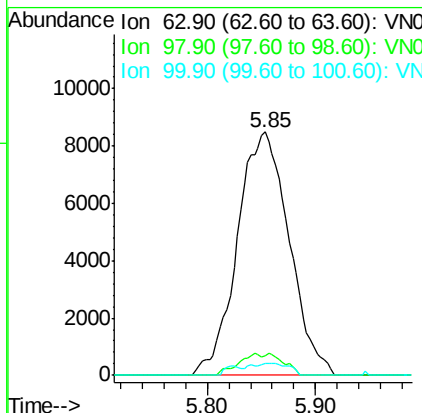
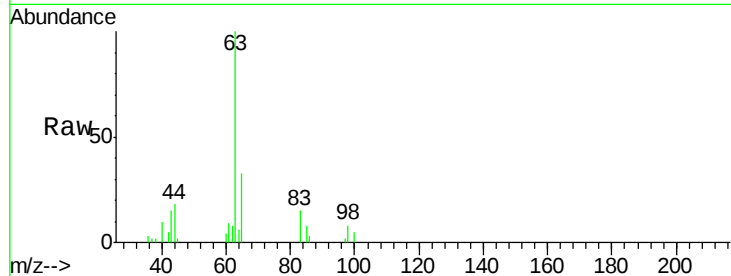
ClientSampleId :

VSTDIC001

Tot Ion:	63	Resp:	28279
Ion	Ratio	Lower	Upper
63	100		
98	8.0	3.4	10.2
100	4.9	2.2	6.6

Manual Integrations
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7/13/2018 1:35:07 PM



#25

2-Butanone

Concen: 5.55 ug/l

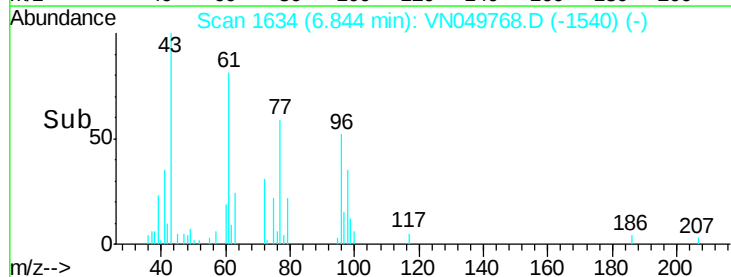
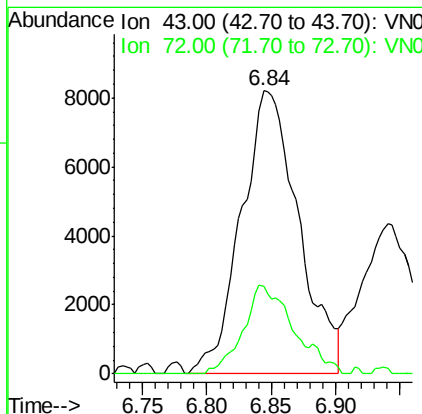
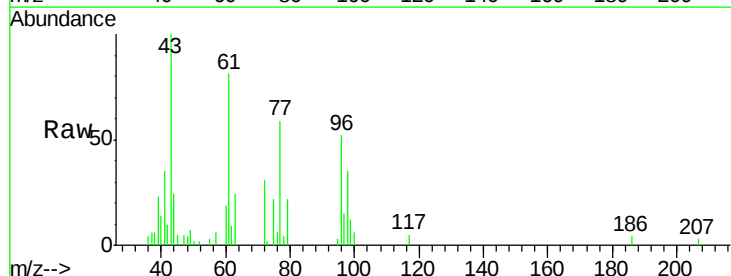
RT: 6.84 min Scan# 1634

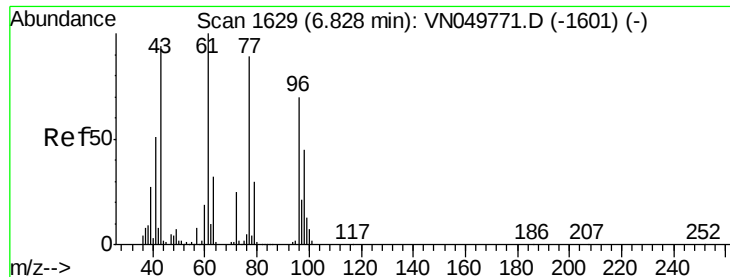
Delta R.T. 0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Tgt Ion:	43	Resp:	25403
Ion	Ratio	Lower	Upper
43	100		
72	30.9	22.1	33.1





#26

2,2-Dichloropropane

Concen: 1.15 ug/l

RT: 6.82 min Scan# 1627

Delta R.T. -0.01 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 77 Resp: 22962

Ion Ratio Lower Upper

77 100

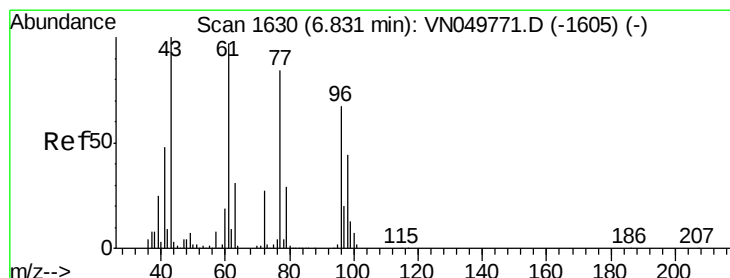
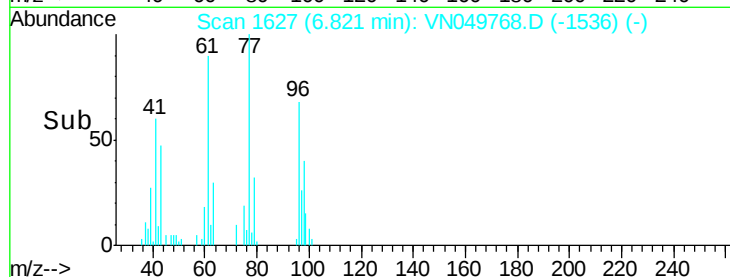
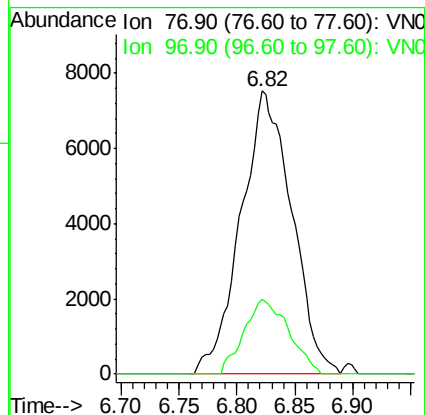
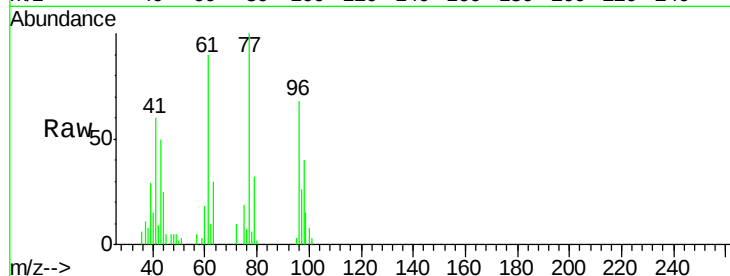
97 23.2 11.9 35.5

Manual Integrations

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7/13/2018 1:35:07 PM



#27

cis-1,2-Dichloroethene

Concen: 1.17 ug/l

RT: 6.83 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

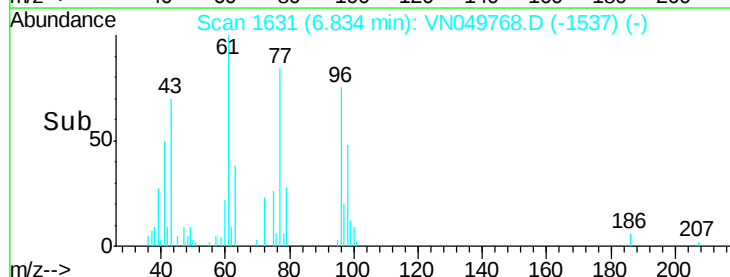
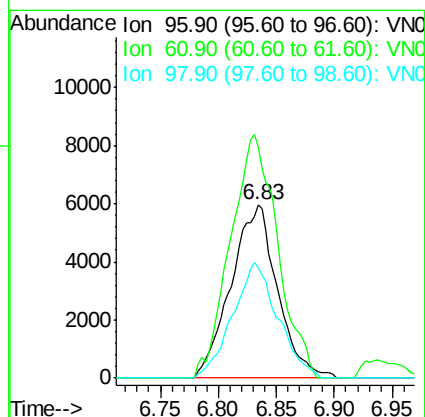
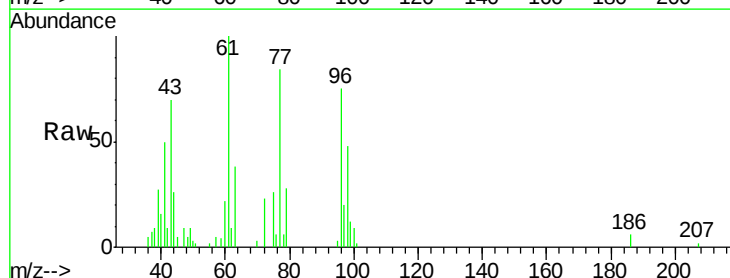
Tgt Ion: 96 Resp: 16570

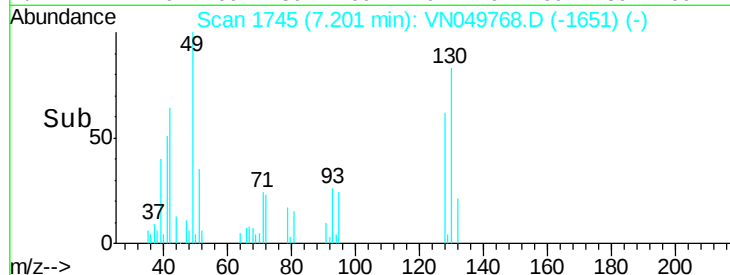
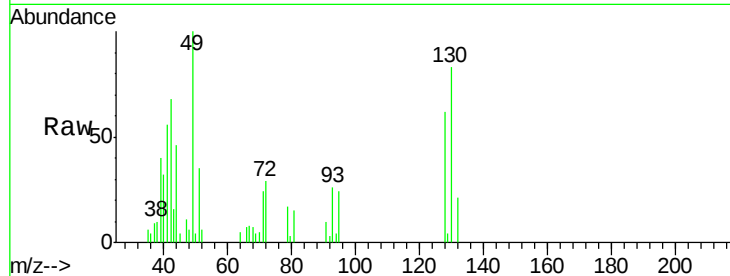
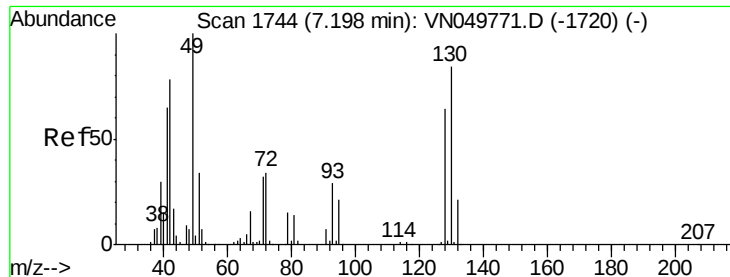
Ion Ratio Lower Upper

96 100

61 142.7 0.0 289.0

98 64.9 0.0 130.2





#28

Bromochloromethane

Concen: 1.21 ug/l

RT: 7.20 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VN049768.D

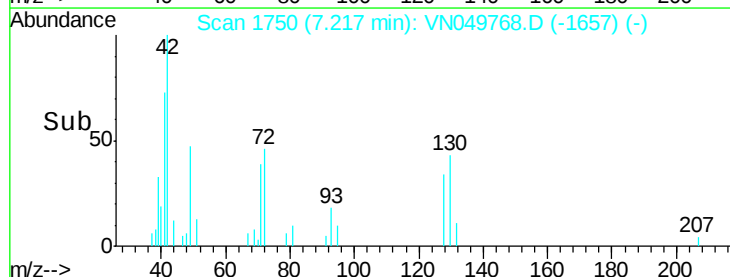
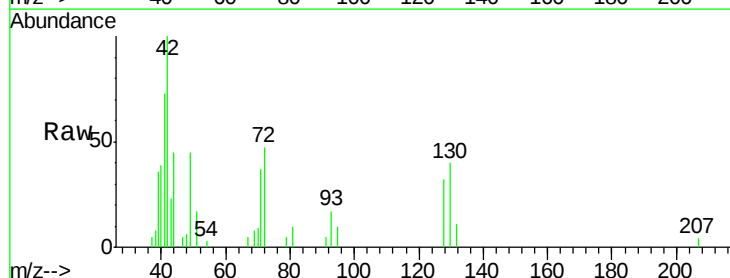
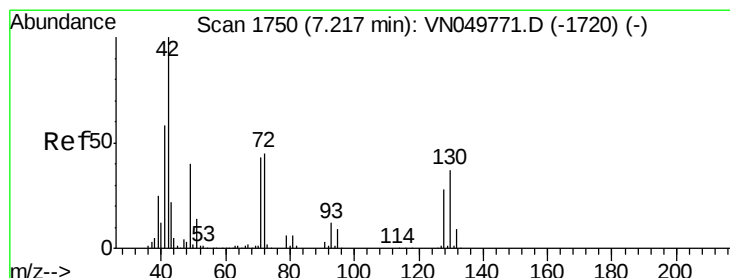
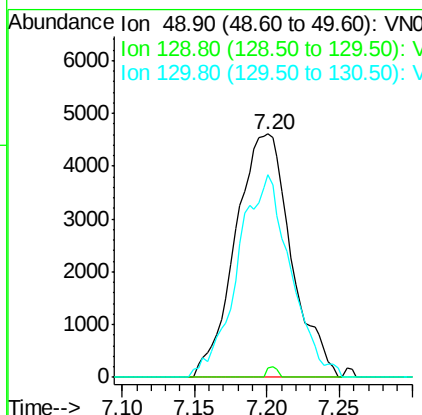
Acq: 12 Jul 2018 10:14

Tot Ion:	49	Resp:	12346
Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	4.2
130	79.0	65.5	98.3

Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

Manual Integrations
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MMDadoda
7/13/2018 1:35:07 PM



#29

Tetrahydrofuran

Concen: 5.27 ug/l

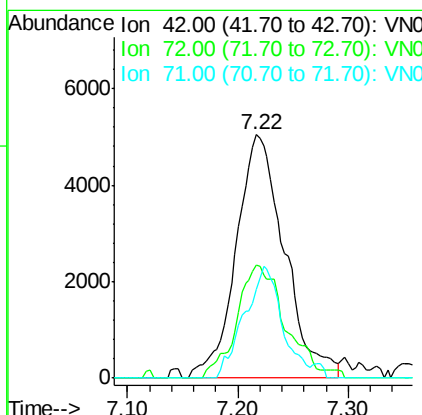
RT: 7.22 min Scan# 1750

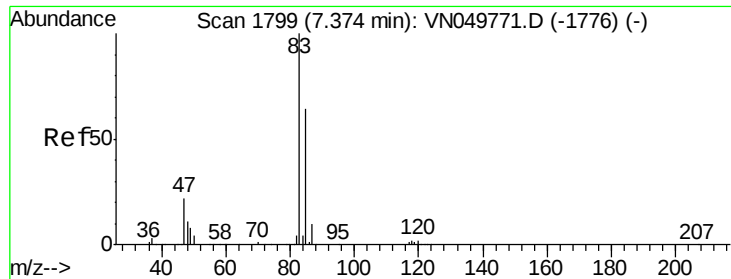
Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Tgt Ion:	42	Resp:	15381
Ion	Ratio	Lower	Upper
42	100		
72	45.9	35.6	53.4
71	35.6	34.0	51.0





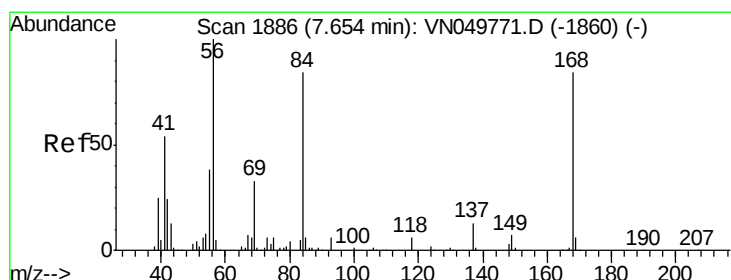
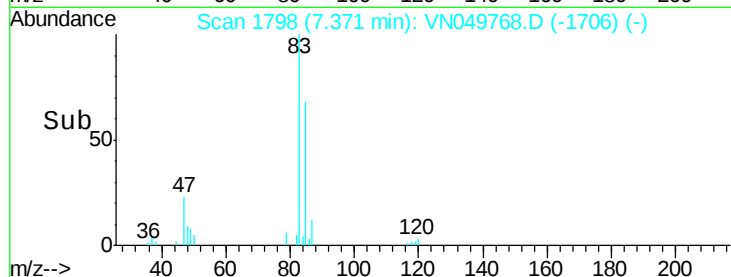
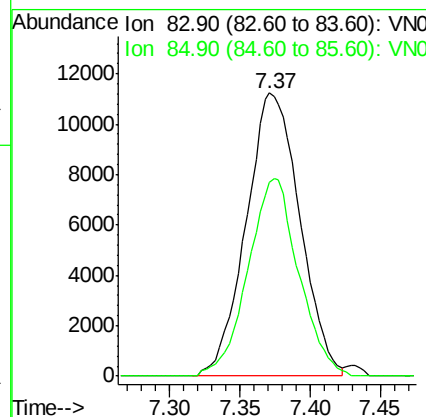
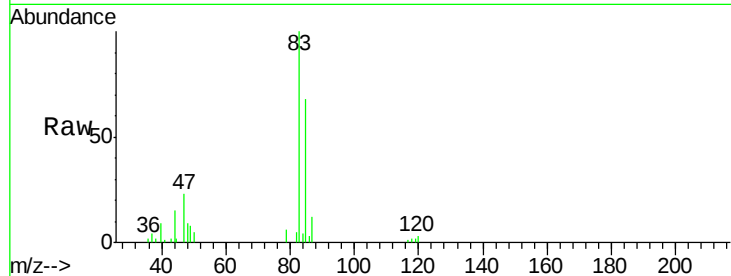
#30
Chloroform
Concen: 1.22 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	29861
Ion Ratio	100	Lower	Upper
85	68.4	51.4	77.2

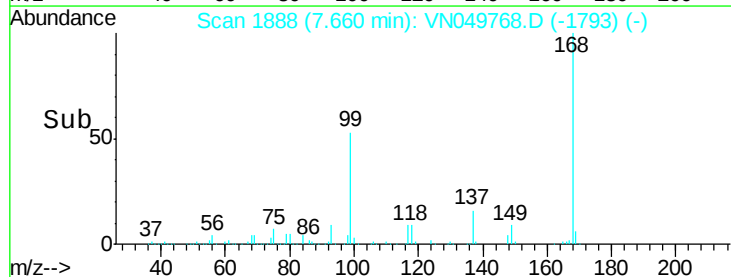
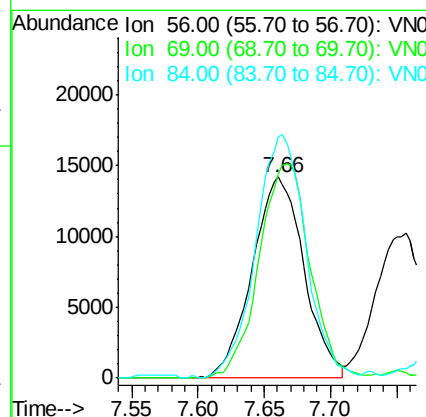
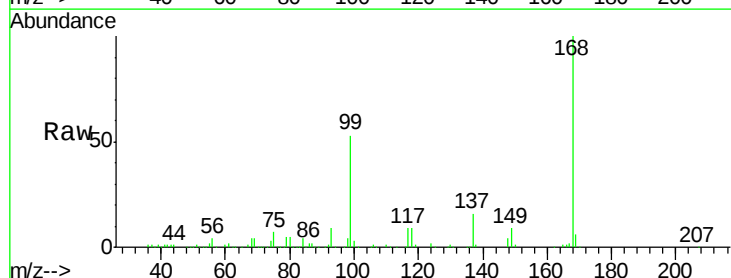
Manual Integrations
APPROVED

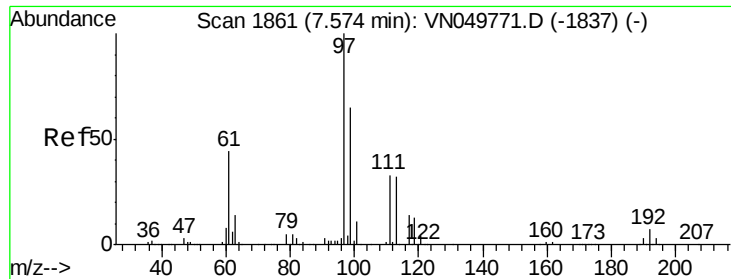
MMDadoda
7/13/2018 1:35:07 PM



#31
Cyclohexane
Concen: 1.63 ug/l
RT: 7.66 min Scan# 1888
Delta R.T. 0.01 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Tgt Ion	56	Resp	38659
Ion Ratio	100	Lower	Upper
69	101.5	26.6	40.0#
84	118.5	69.0	103.6#





#32

1,1,1-Trichloroethane

Concen: 1.20 ug/l

RT: 7.58 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 97 Resp: 24879

Ion Ratio Lower Upper

97 100

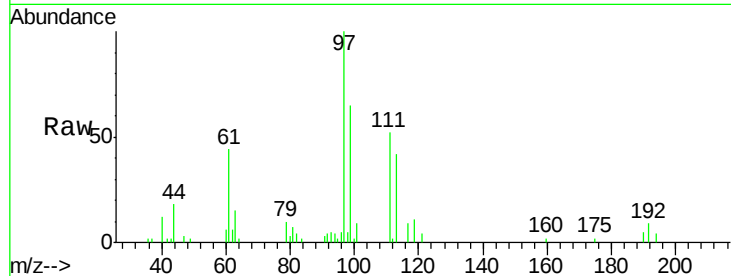
99 65.4 51.0 76.4

61 47.2 35.5 53.3

Manual Integrations
APPROVED

MMDadoda

7/13/2018 1:35:07 PM

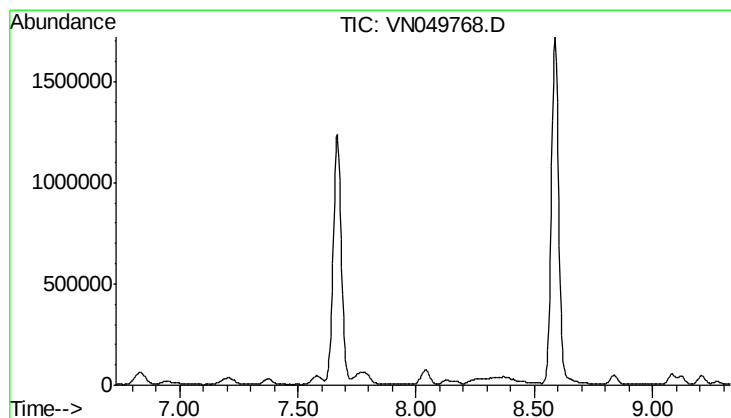
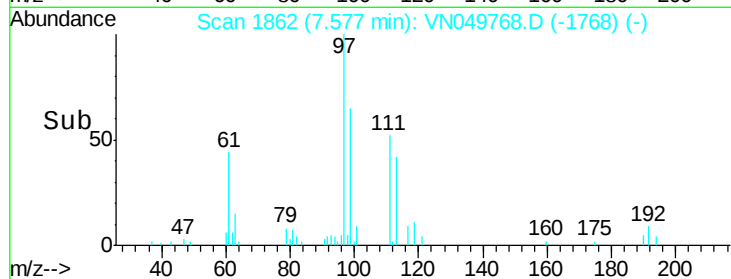
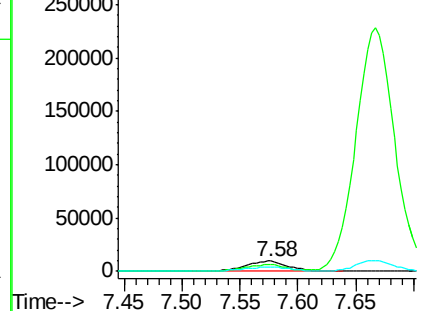


Abundance

Ion 96.90 (96.60 to 97.60): VN049768.D

Ion 98.90 (98.60 to 99.60): VN049768.D

Ion 60.90 (60.60 to 61.60): VN049768.D



#33

1,2-Dichloroethane-d4

Concen: 0.00 ug/l

Expected RT: 8.03 min

Lab File: VN049768.D

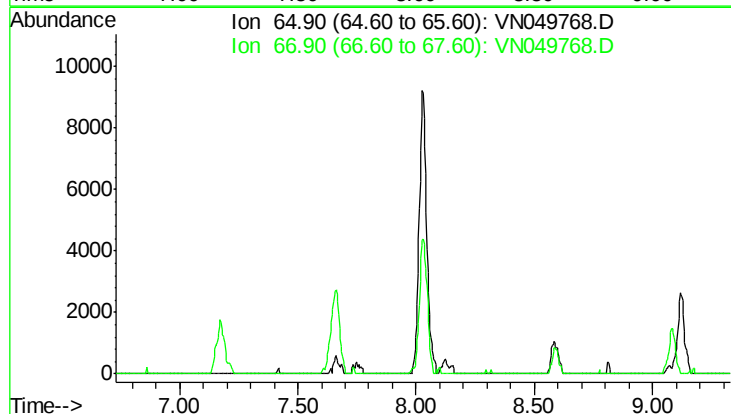
Acq: 12 Jul 2018 10:14

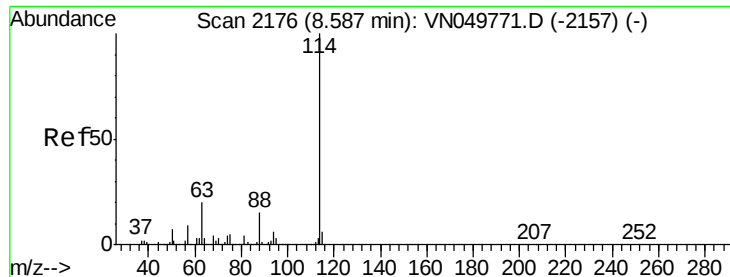
Tgt Ion: 65

Sig Exp Ratio

65 100

67 53.6





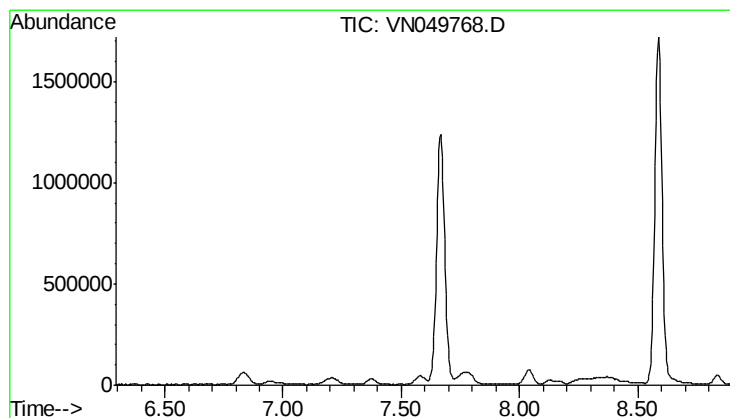
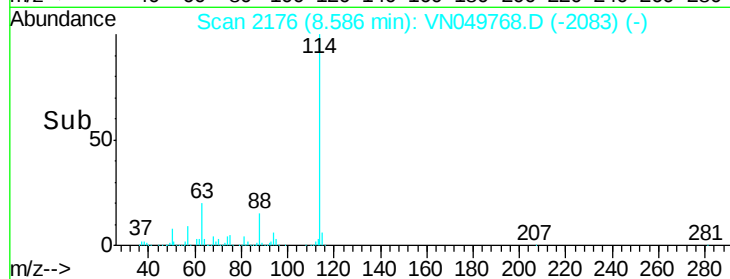
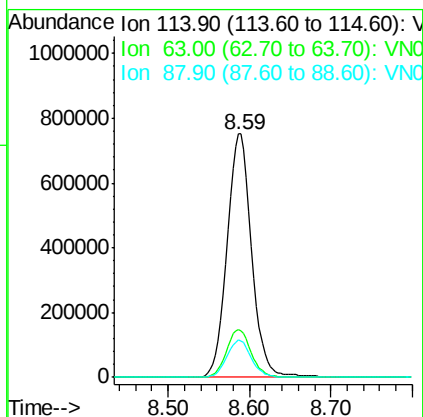
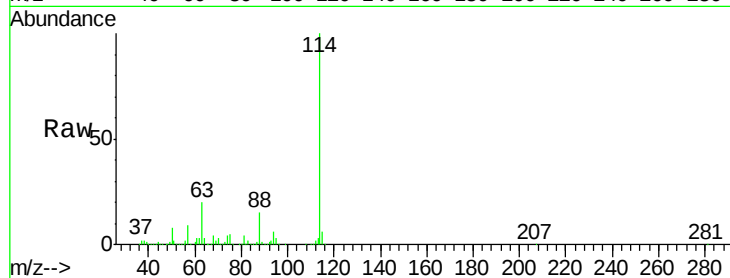
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049768.D
 Acq: 12 Jul 2018 10:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
114	100		1598191		
63	19.8	0.0		39.8	
88	15.2	0.0		30.6	

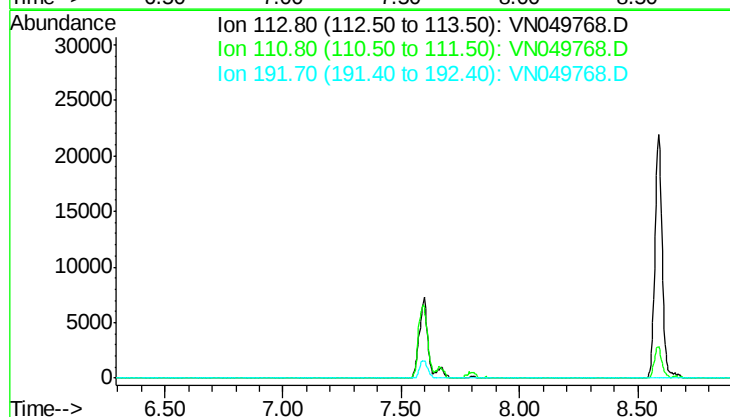
Manual Integrations
 APPROVED

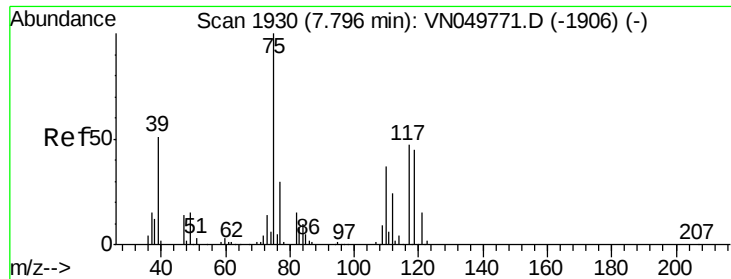
MMDadoda
 7/13/2018 1:35:07 PM



#35
 Dibromofluoromethane
 Concen: 0.00 ug/l
 Expected RT: 7.59 min
 Lab File: VN049768.D
 Acq: 12 Jul 2018 10:14

Tgt Ion	Sig	Exp Ratio
113	100	
111	102.3	
192	22.2	





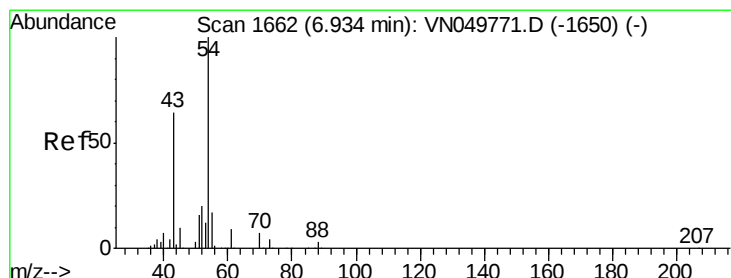
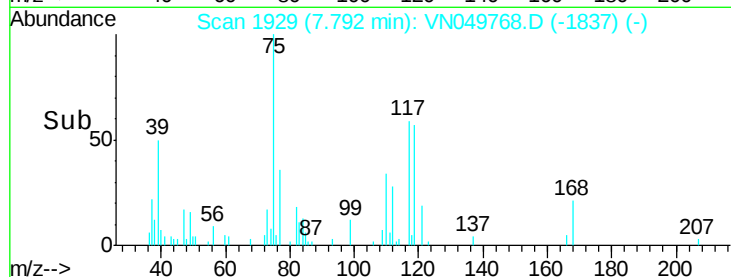
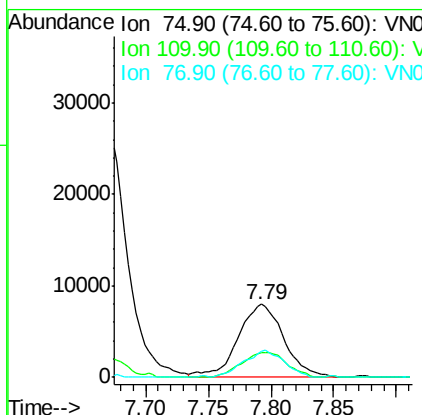
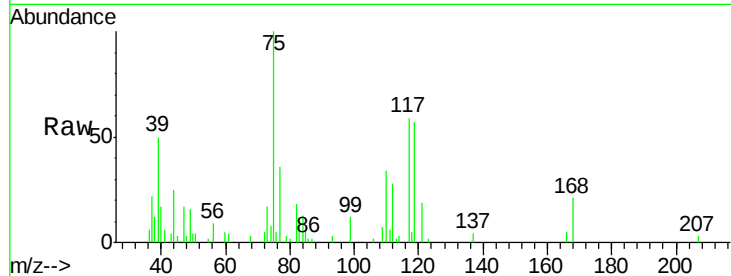
#36
 1,1-Dichloropropene
 Concen: 1.13 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN049768.D
 Acq: 12 Jul 2018 10:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
75	100		
110	33.6	18.1	54.4
77	32.6	24.9	37.3

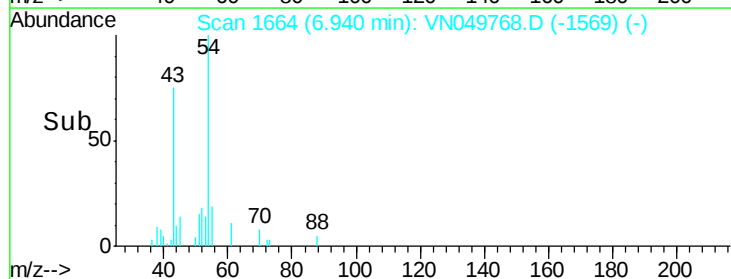
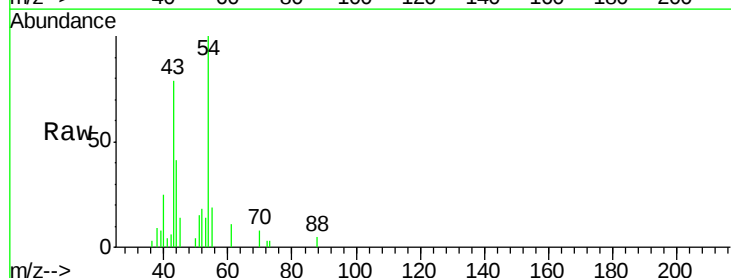
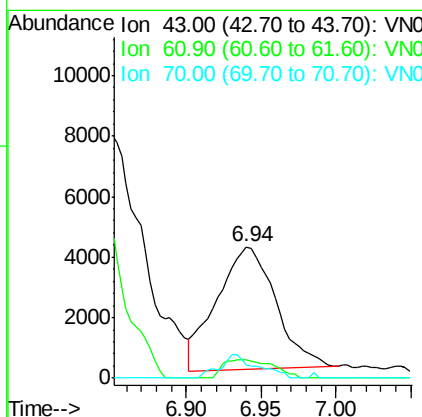
Manual Integrations
 APPROVED

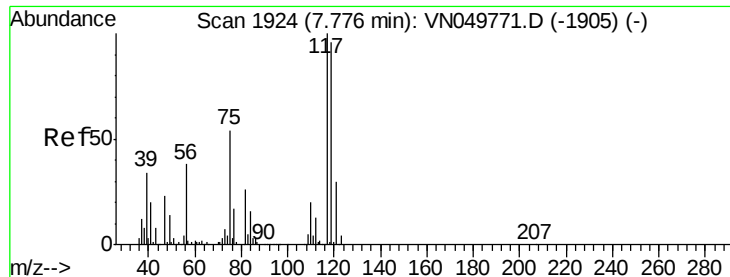
MMDadoda
 7/13/2018 1:35:07 PM



#37
 Ethyl Acetate
 Concen: 1.07 ug/l
 RT: 6.94 min Scan# 1664
 Delta R.T. 0.01 min
 Lab File: VN049768.D
 Acq: 12 Jul 2018 10:14

Tgt Ion	Ratio	Lower	Upper
43	100		
61	12.7	11.7	17.5
70	11.9	8.4	12.6





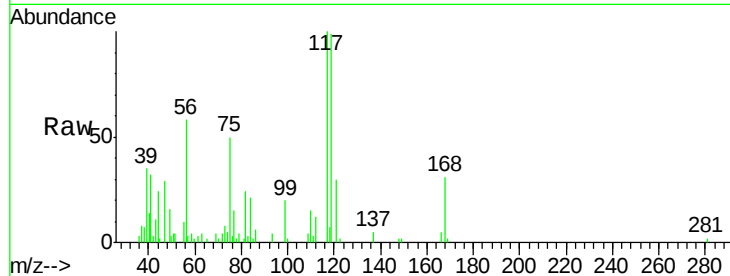
#38
Carbon Tetrachloride
Concen: 1.29 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

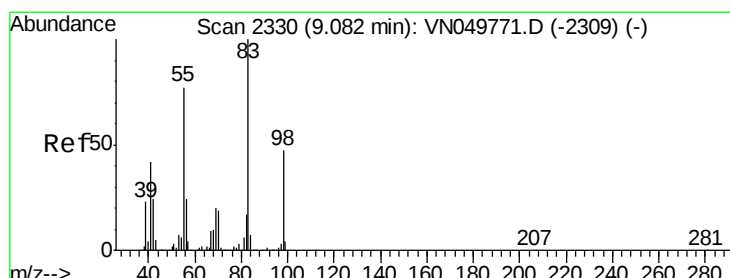
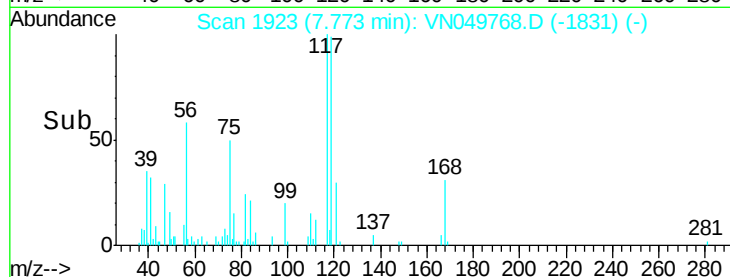
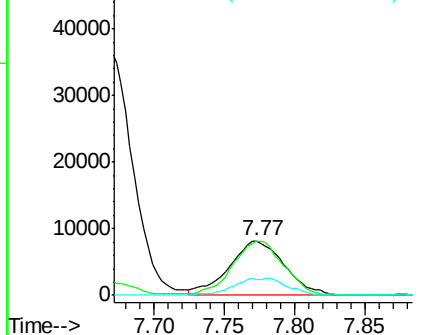
Tot Ion	Ratio	Lower	Upper
117	100		
119	98.8	77.2	115.8
121	29.5	25.0	37.6

Manual Integrations
APPROVED

MMDadoda
7/13/2018 1:35:07 PM

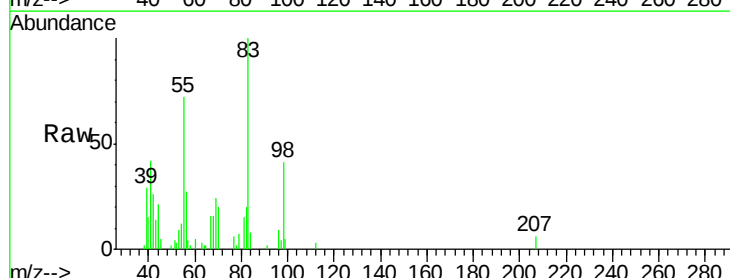


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

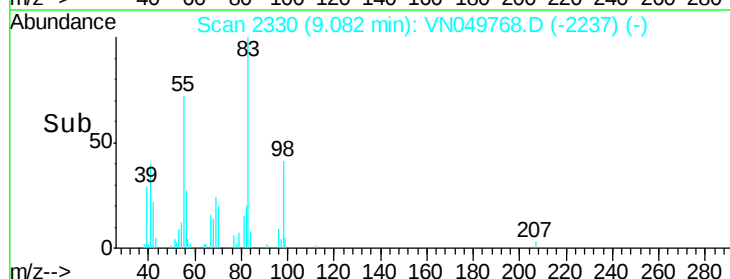
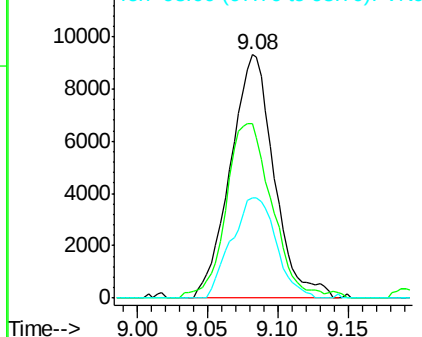


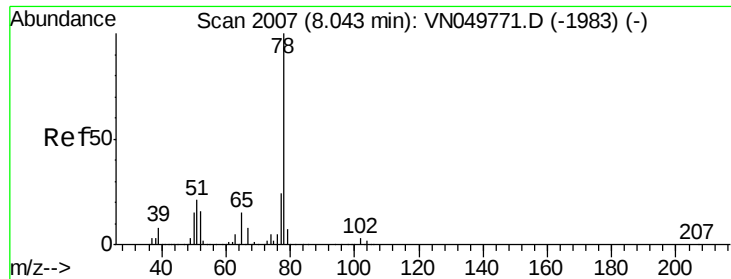
#39
Methylcyclohexane
Concen: 1.02 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Tgt Ion	Ratio	Lower	Upper
83	100		
55	69.7	59.7	89.5
98	41.2	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





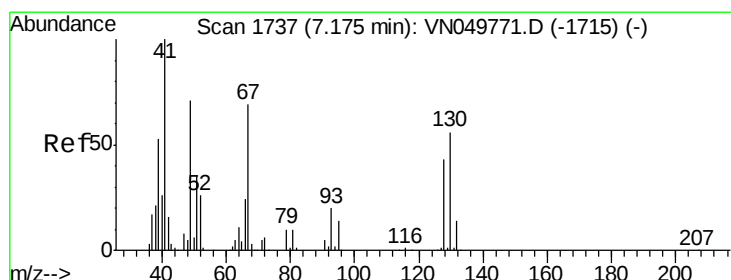
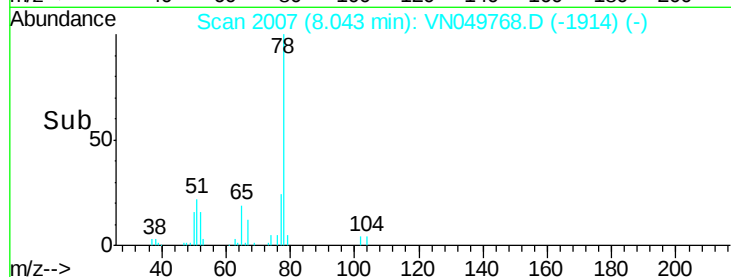
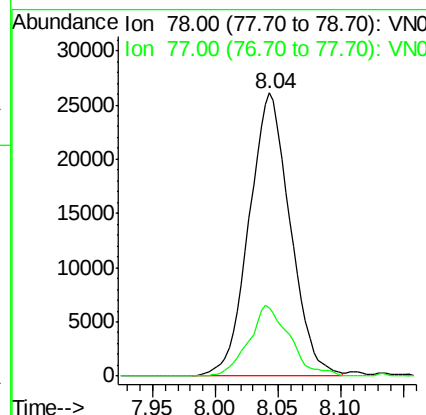
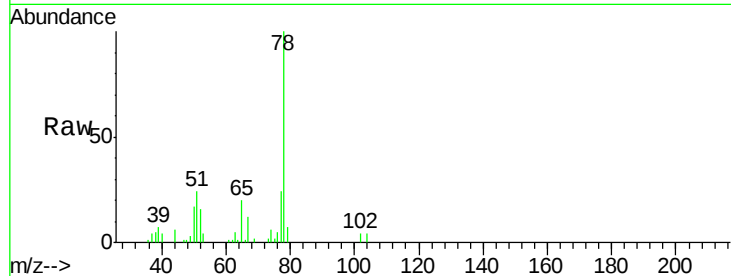
#40
Benzene
Concen: 1.09 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion: 78 Resp: 59633
Ion Ratio Lower Upper
78 100
77 24.3 19.0 28.4

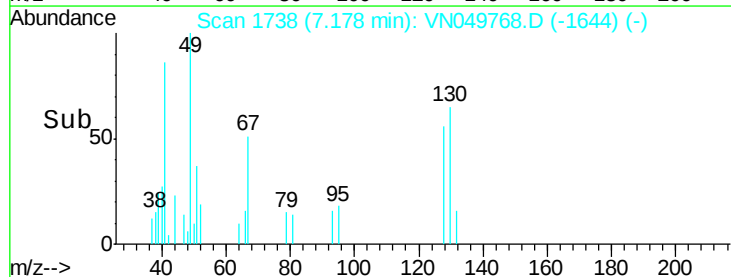
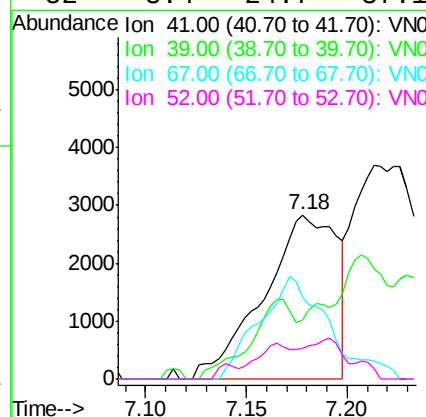
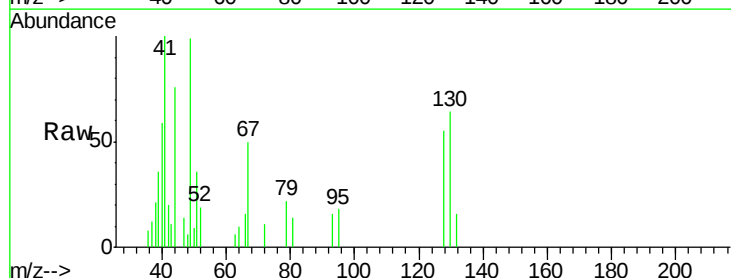
Manual Integrations
APPROVED

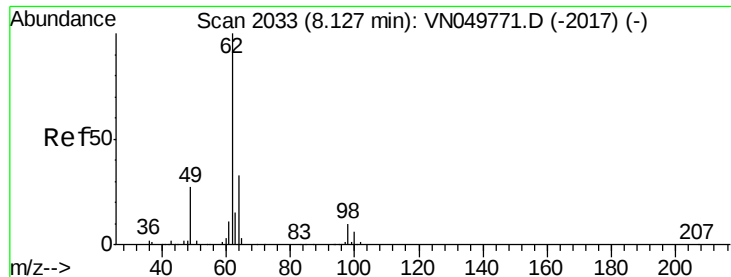
MMDadoda
7/13/2018 1:35:07 PM



#41
Methacrylonitrile
Concen: 1.21 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Tgt Ion: 41 Resp: 7154
Ion Ratio Lower Upper
41 100
39 29.2 45.4 68.2#
67 58.9 65.4 98.0#
52 8.4 24.7 37.1#





#42

1,2-Dichloroethane

Concen: 1.17 ug/l

RT: 8.13 min Scan# 2033

Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

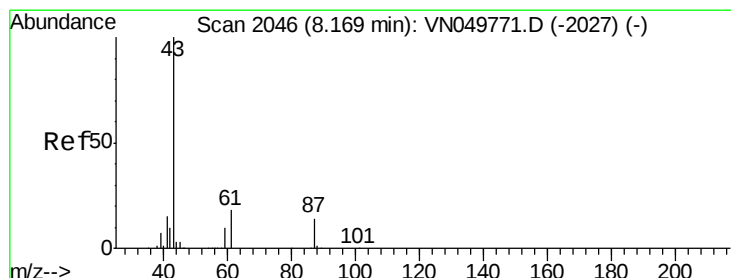
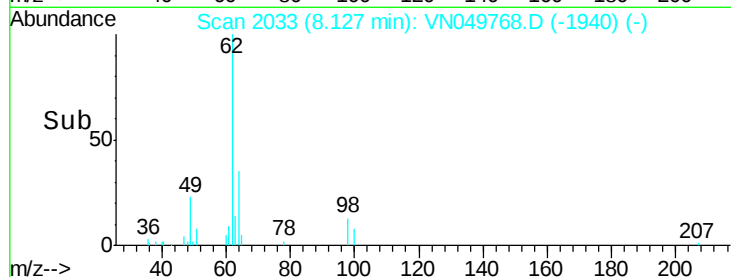
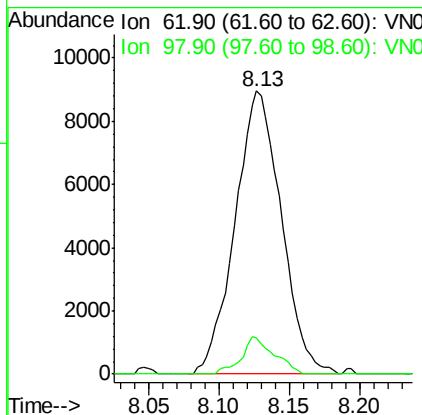
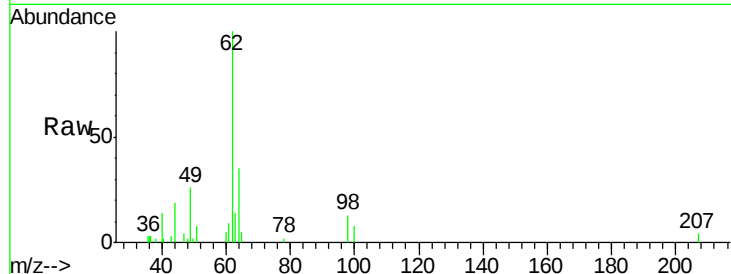
ClientSampleId :

VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
62	100	20520		
98	9.4	0.0	19.0	

Manual Integrations
APPROVED

MMDadoda
7/13/2018 1:35:07 PM



#43

Isopropyl Acetate

Concen: 0.79 ug/l

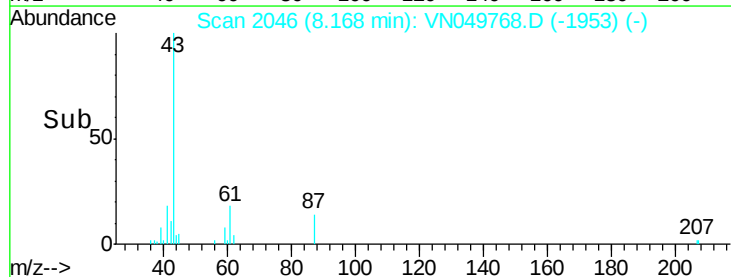
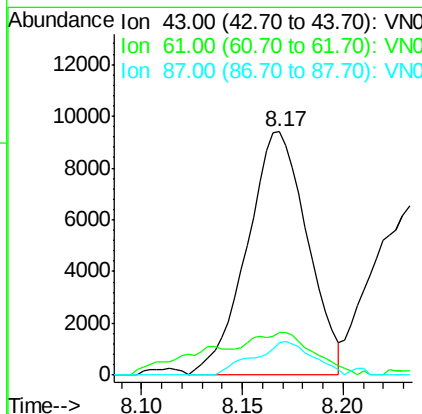
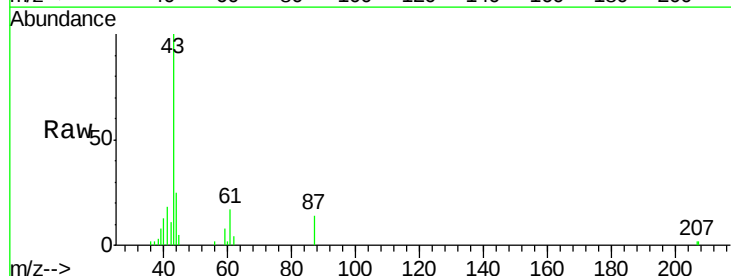
RT: 8.17 min Scan# 2046

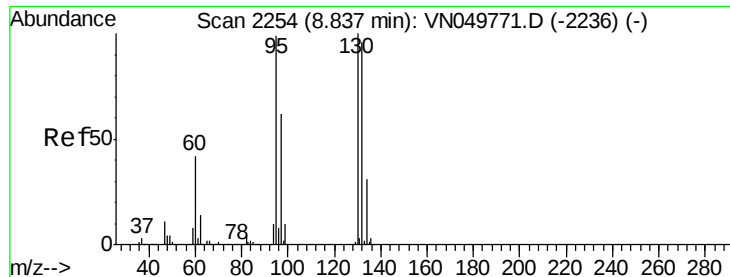
Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	19595		
61	18.9	14.9	22.3	
87	13.4	10.0	15.0	





#44

Trichloroethene

Concen: 1.05 ug/l

RT: 8.83 min Scan# 2252

Delta R.T. -0.01 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:130 Resp: 17318

Ion Ratio Lower Upper

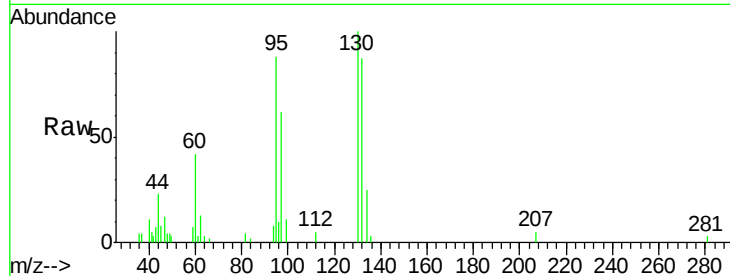
130 100

95 87.9 0.0 192.8

Manual Integrations
APPROVED

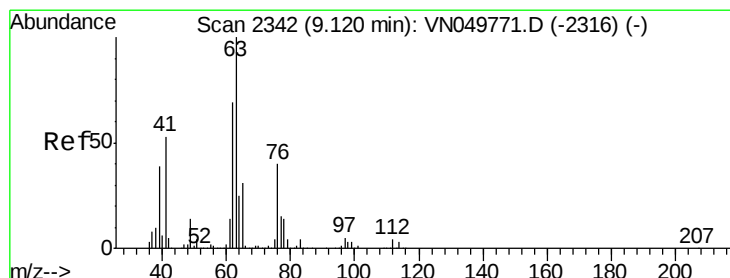
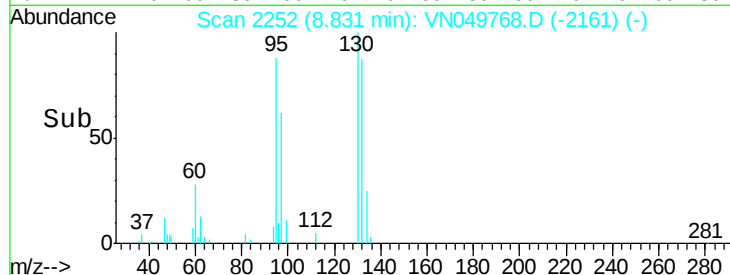
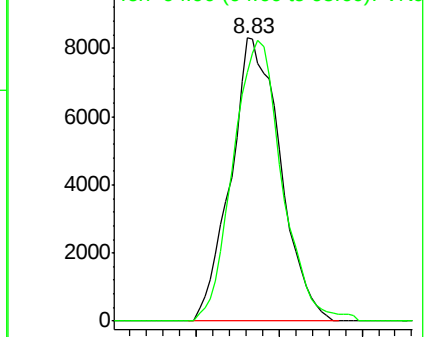
MMDadoda

7/13/2018 1:35:07 PM



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VNO



#45

1,2-Dichloropropane

Concen: 1.15 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. -0.00 min

Lab File: VN049768.D

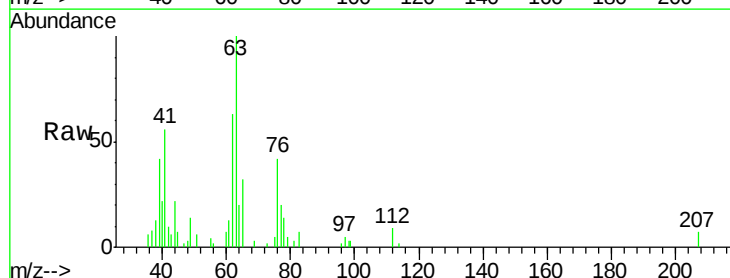
Acq: 12 Jul 2018 10:14

Tgt Ion: 63 Resp: 16265

Ion Ratio Lower Upper

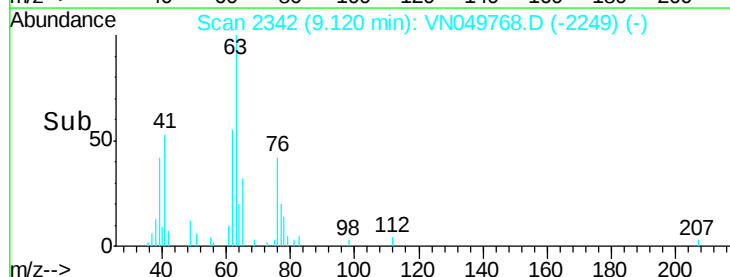
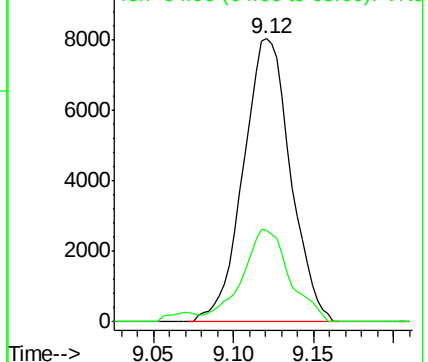
63 100

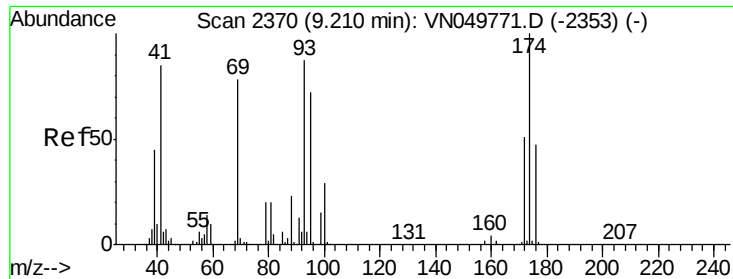
65 32.4 24.7 37.1



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO





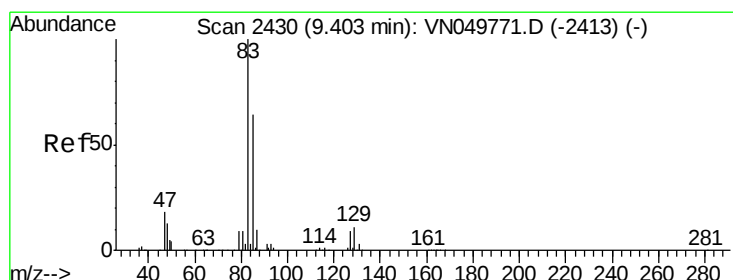
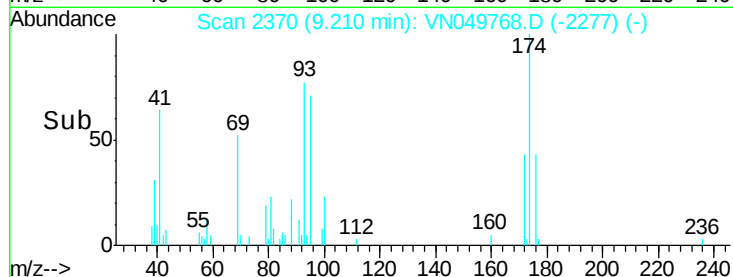
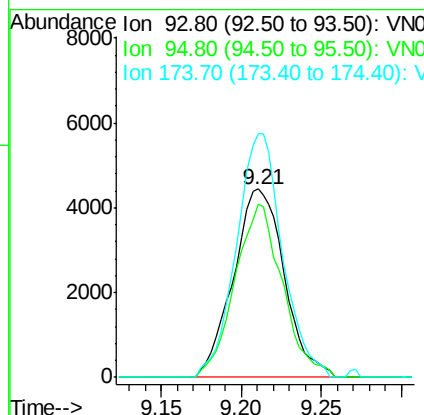
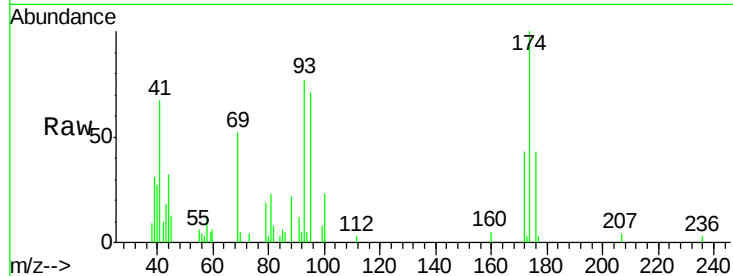
#46
Dibromomethane
Concen: 1.13 ug/l
RT: 9.21 min Scan# 2370
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
93	100		
95	85.4	67.9	101.9
174	117.0	89.4	134.0

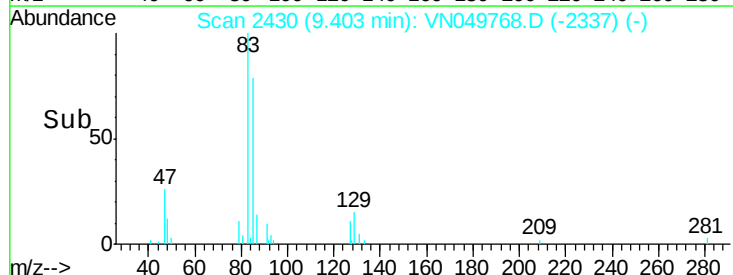
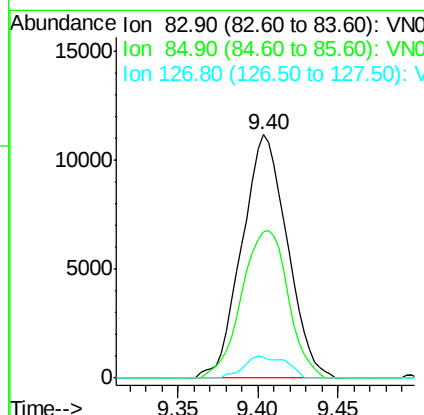
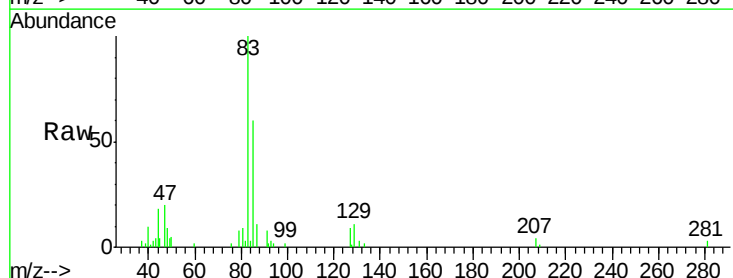
Manual Integrations
APPROVED

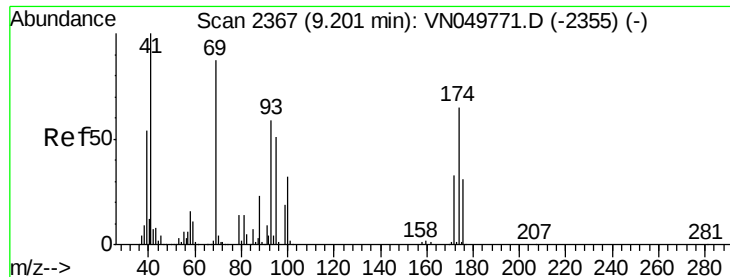
MMDadoda
7/13/2018 1:35:07 PM



#47
Bromodichloromethane
Concen: 1.18 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.2	50.5	75.7
127	8.7	6.8	10.2





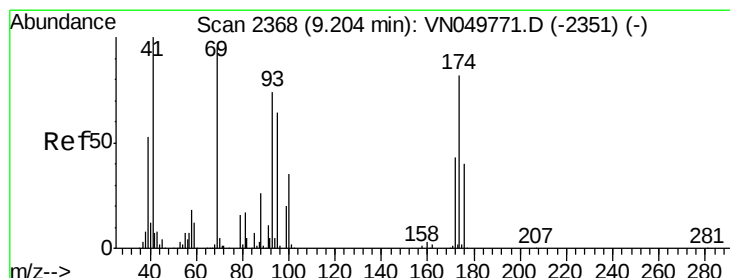
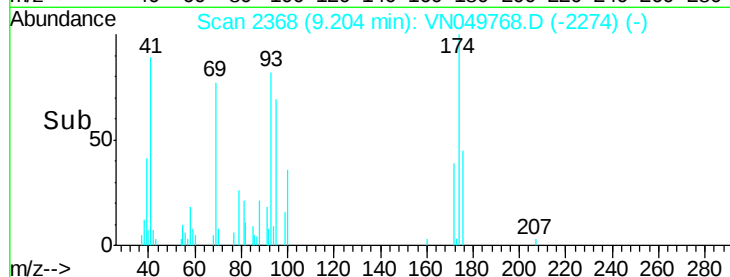
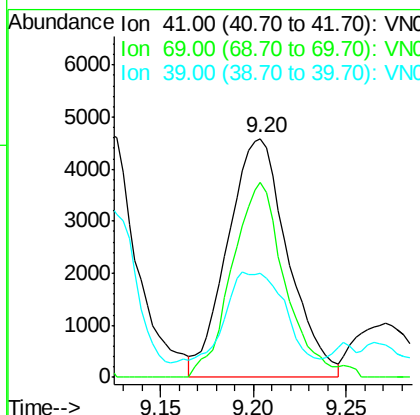
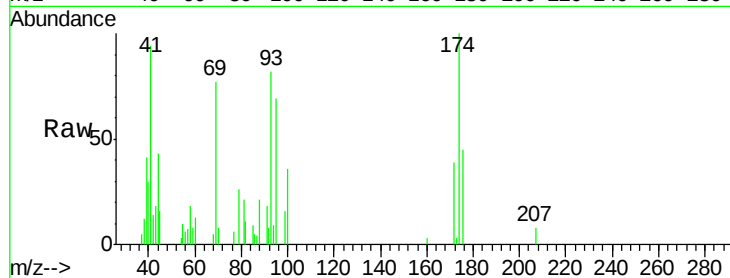
#48
Methvl methacrylate
Concen: 1.11 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
69	71.4	71.5	107.3#
39	37.0	44.7	67.1#

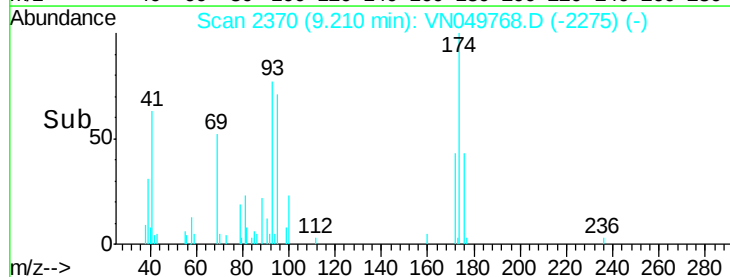
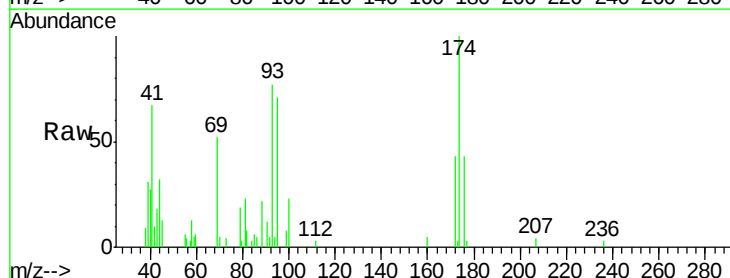
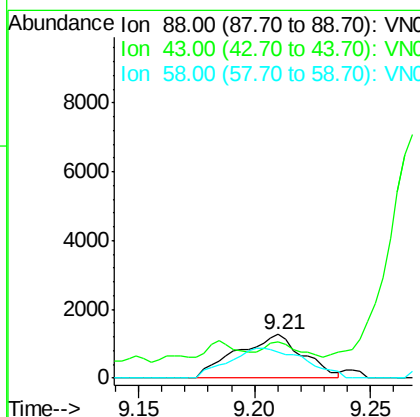
Manual Integrations
APPROVED

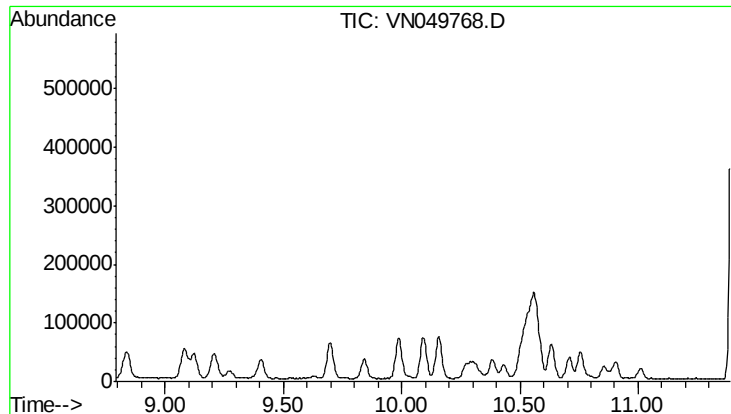
MMDadoda
7/13/2018 1:35:07 PM



#49
1,4-Dioxane
Concen: 20.17 ug/l
RT: 9.21 min Scan# 2370
Delta R.T. 0.01 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Tgt Ion	Ratio	Lower	Upper
88	100		
43	20.1	25.1	37.7#
58	77.2	52.5	78.7





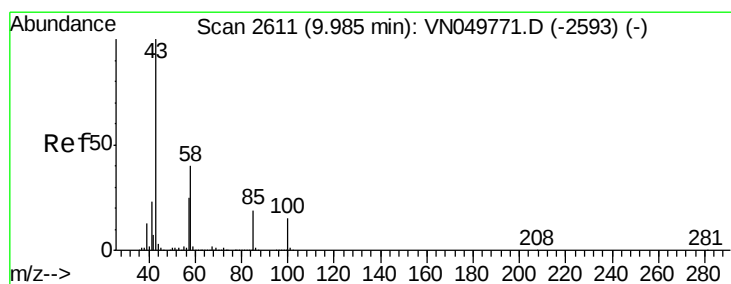
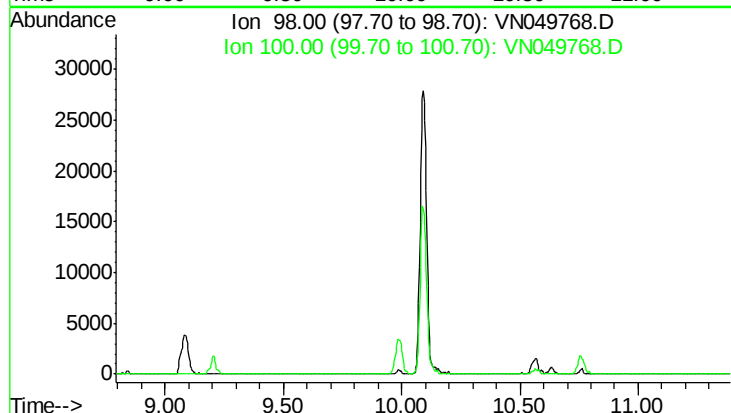
#50
Toluene-d8
Concen: 0.00 ug/l
Expected RT: 10.09 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

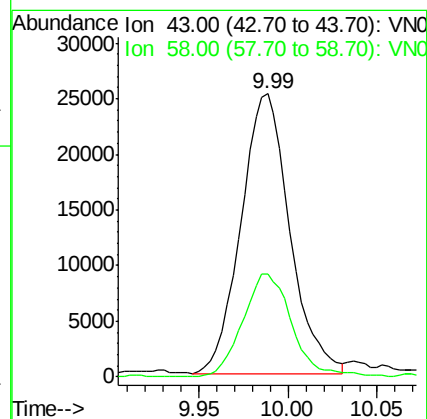
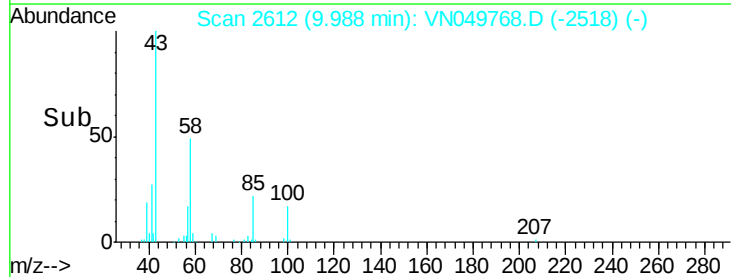
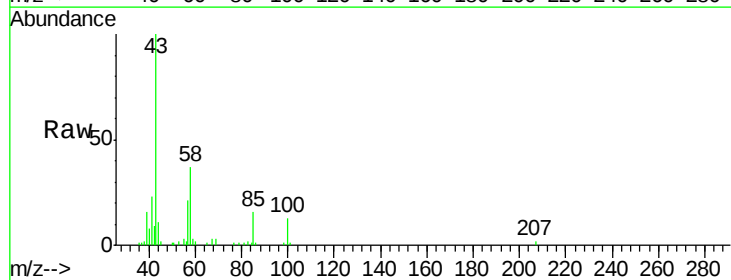
MMDadoda
7/13/2018 1:35:07 PM

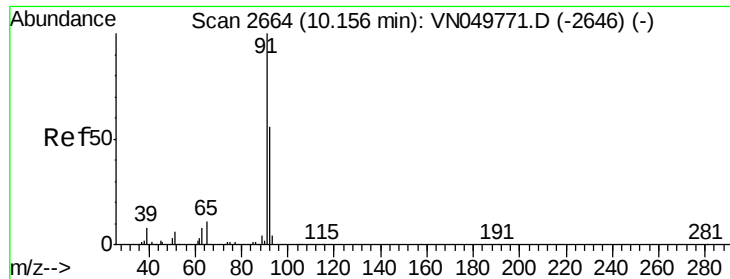
Tot Ion: 98
Sig Exp Ratio
98 100
100 64.6



#51
4-Methyl-2-Pentanone
Concen: 4.67 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Tgt Ion: 43 Resp: 47990
Ion Ratio Lower Upper
43 100
58 37.3 31.8 47.8





#52

Toluene

Concen: 0.94 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 92 Resp: 31088

Ion Ratio Lower Upper

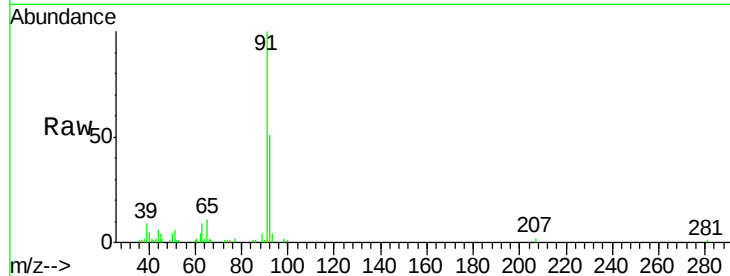
92 100

91 181.2 140.1 210.1

Manual Integrations
APPROVED

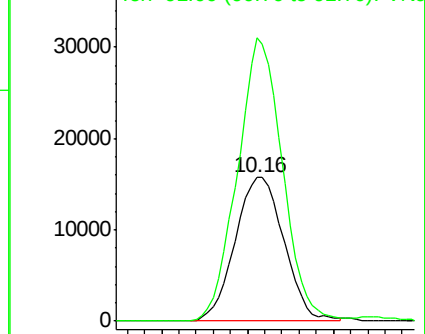
MMDadoda

7/13/2018 1:35:07 PM

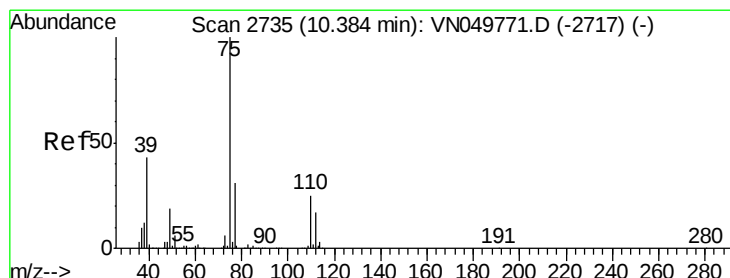
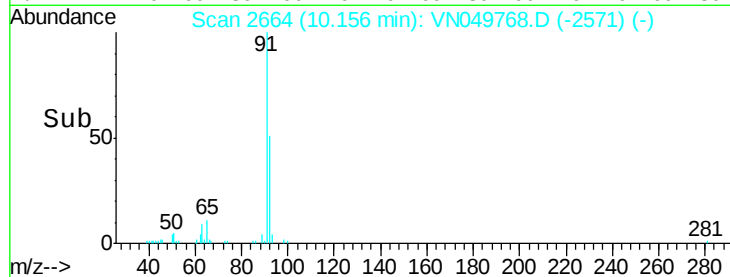


Abundance Ion 92.00 (91.70 to 92.70): VN049768.D (-2571) (-)

Ion 91.00 (90.70 to 91.70): VN049768.D (-2571) (-)



Time-->



#53

t-1,3-Dichloropropene

Concen: 0.99 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. -0.00 min

Lab File: VN049768.D

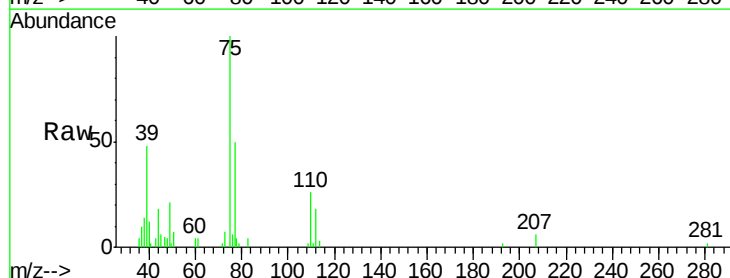
Acq: 12 Jul 2018 10:14

Tgt Ion: 75 Resp: 17272

Ion Ratio Lower Upper

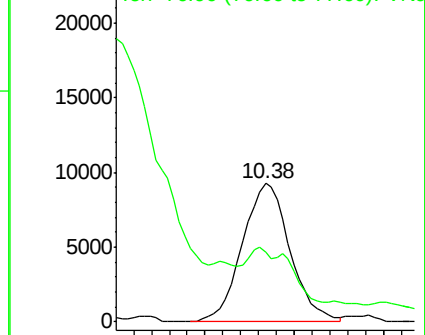
75 100

77 35.8 25.2 37.8

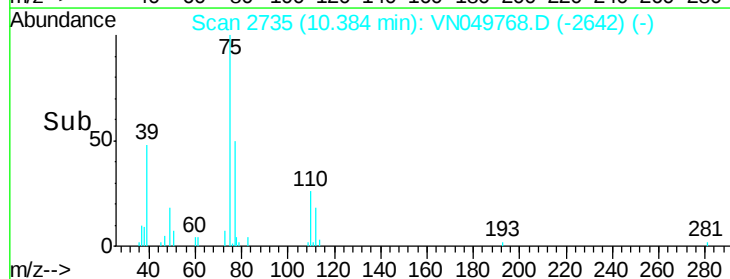


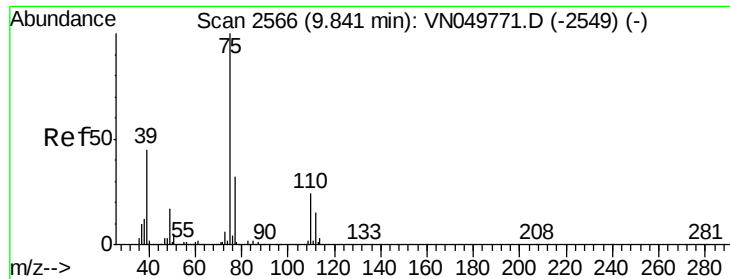
Abundance Ion 74.90 (74.60 to 75.60): VN049768.D (-2642) (-)

Ion 76.90 (76.60 to 77.60): VN049768.D (-2642) (-)



Time-->





#54

cis-1,3-Dichloropropene

Concen: 0.93 ug/l

RT: 9.84 min Scan# 2567

Delta R.T. 0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

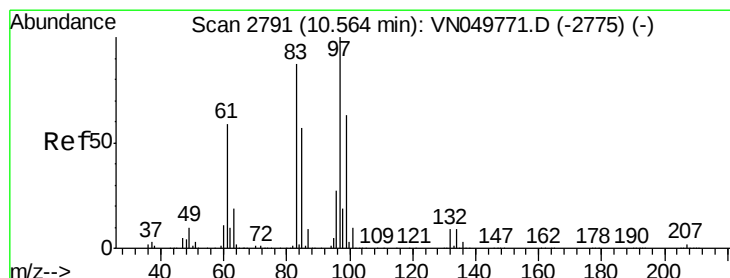
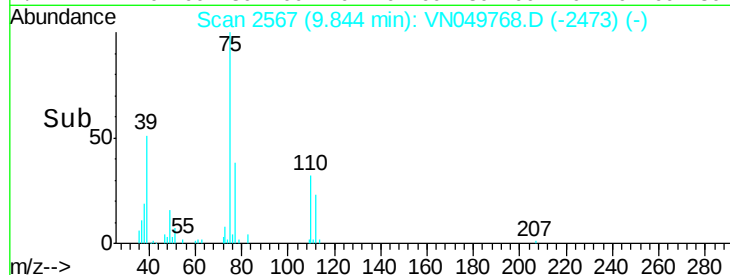
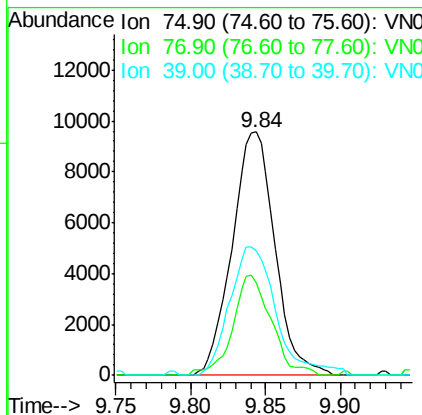
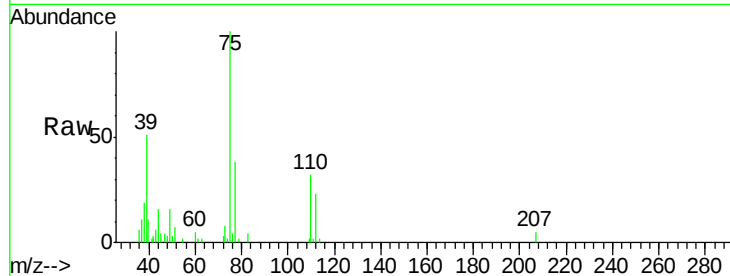
ClientSampleId :

VSTDIC001

Tot Ion:	75	Resp:	19033
Ion	Ratio	Lower	Upper
75	100		
77	38.0	25.3	37.9#
39	50.9	35.5	53.3

Manual Integrations
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#55

1,1,2-Trichloroethane

Concen: 1.43 ug/l

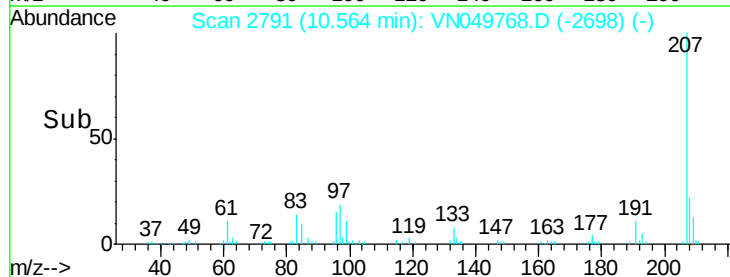
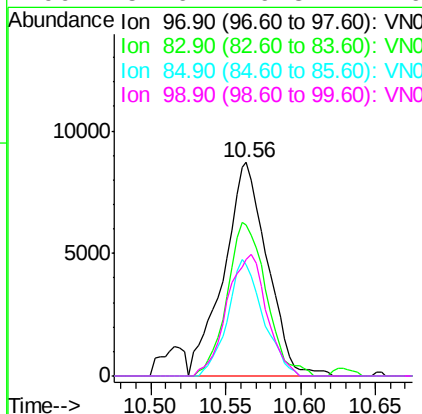
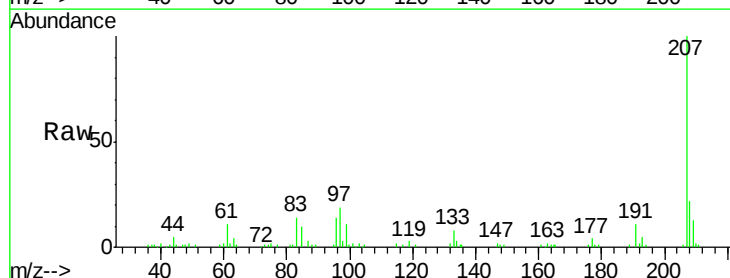
RT: 10.56 min Scan# 2791

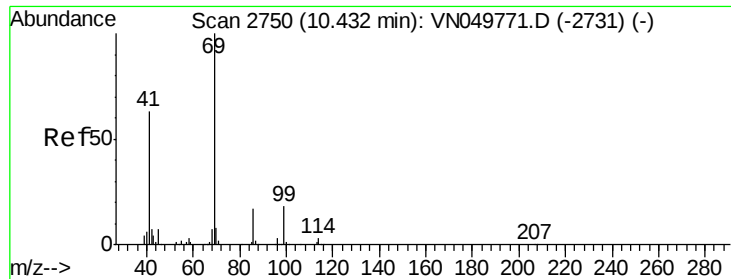
Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Tgt Ion:	97	Resp:	17628
Ion	Ratio	Lower	Upper
97	100		
83	70.7	69.0	103.6
85	52.1	44.9	67.3
99	54.6	49.8	74.6





#56

Ethyl methacrylate

Concen: 0.83 ug/l

RT: 10.43 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

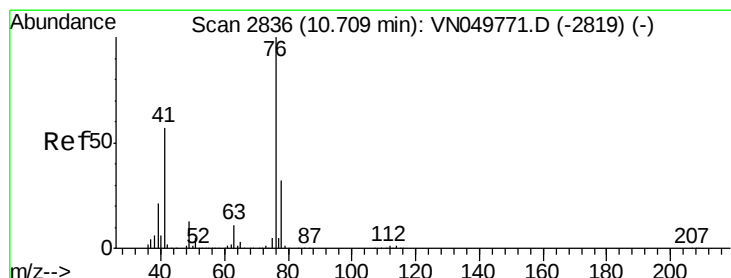
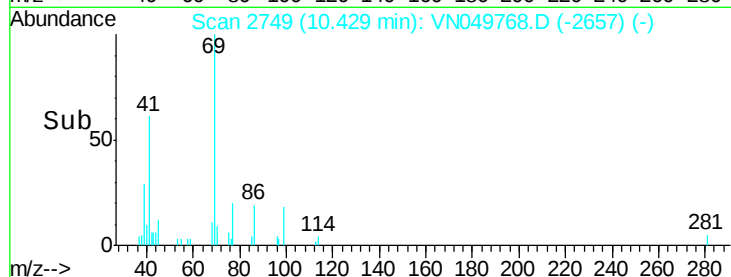
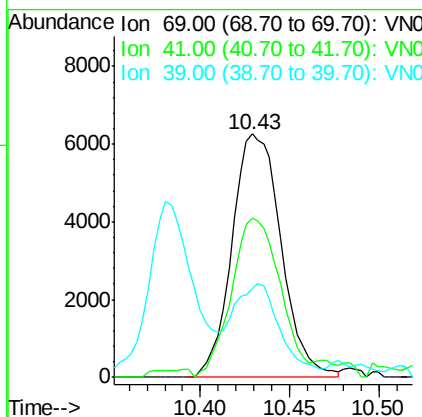
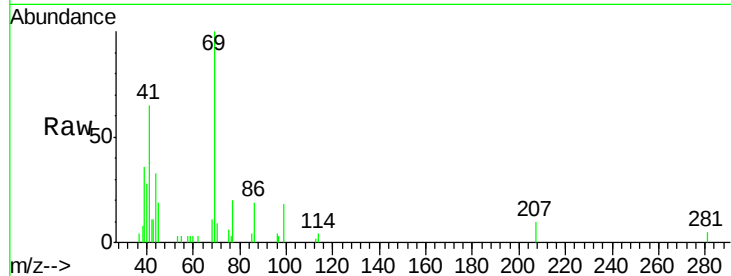
ClientSampled :

VSTDIC001

Tot Ion:	69	Resp:	12034
Ion	Ratio	Lower	Upper
69	100		
41	65.7	51.6	77.4
39	38.2	25.8	38.8

Manual Integrations
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#57

1,3-Dichloropropane

Concen: 1.13 ug/l

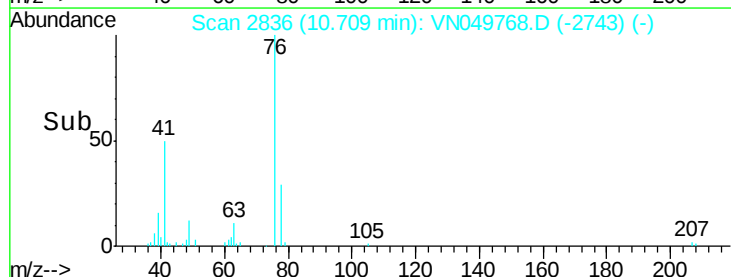
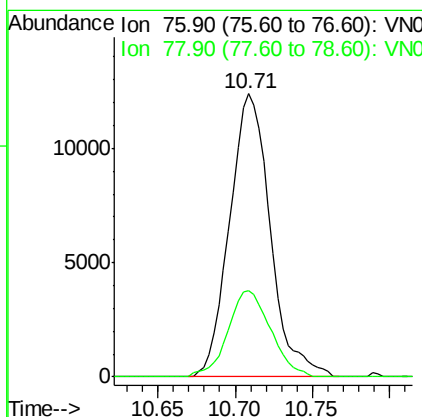
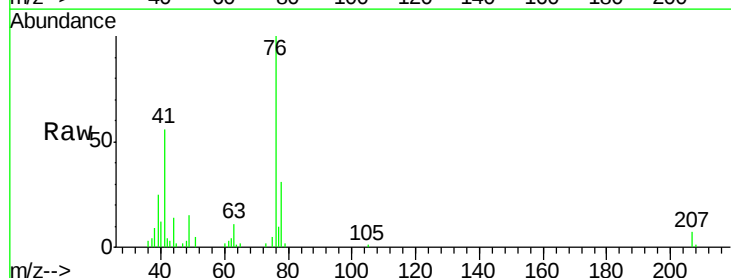
RT: 10.71 min Scan# 2836

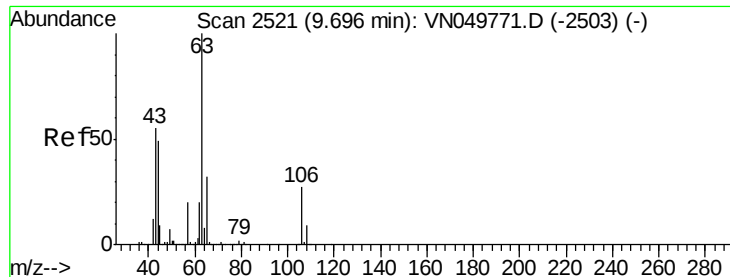
Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Tgt Ion:	76	Resp:	22653
Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.8	38.8





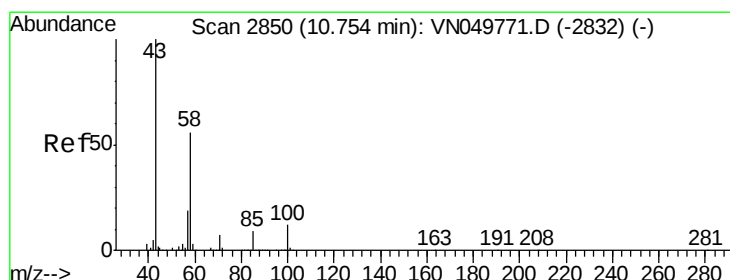
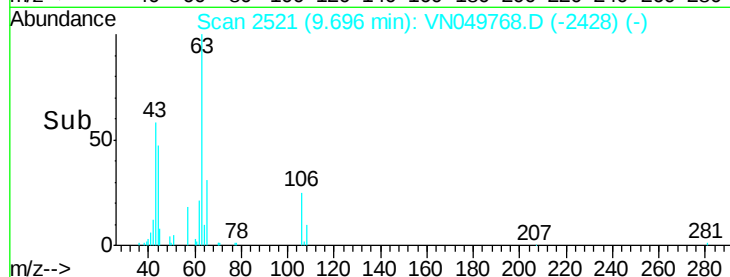
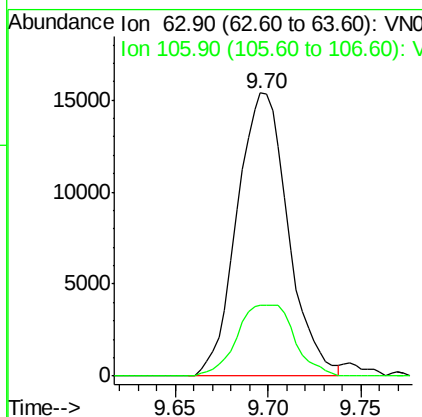
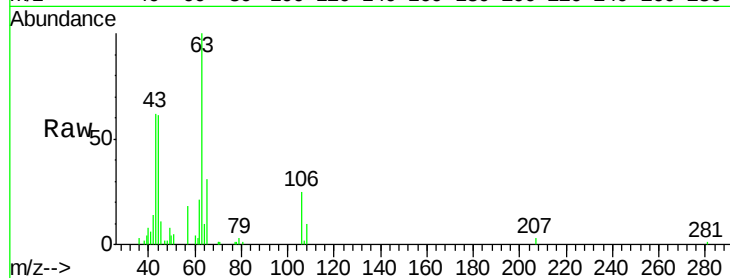
#58
2-Chloroethyl Vinyl ether
Concen: 4.36 ug/l
RT: 9.70 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion: 63 Resp: 29374
Ion Ratio Lower Upper
63 100
106 28.1 21.8 32.8

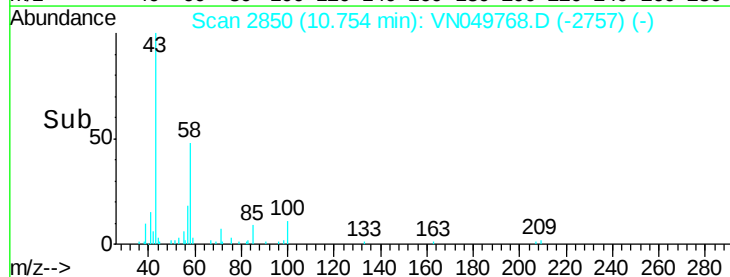
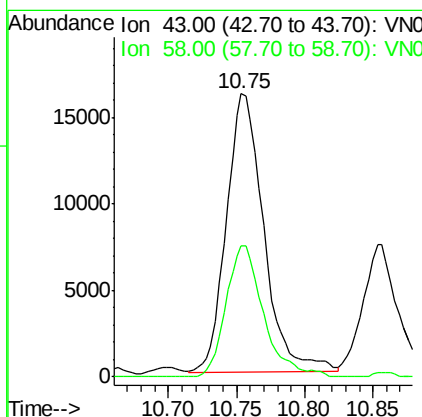
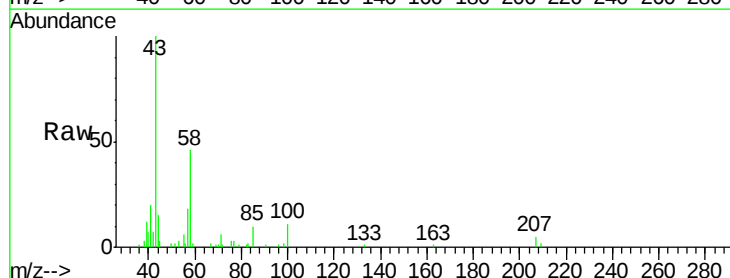
Manual Integrations
APPROVED

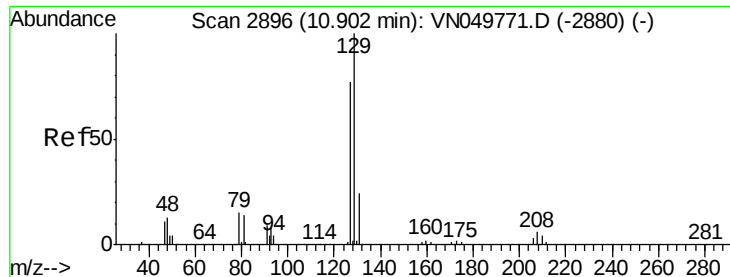
MMDadoda
7/13/2018 1:35:07 PM



#59
2-Hexanone
Concen: 4.54 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Tgt Ion: 43 Resp: 30835
Ion Ratio Lower Upper
43 100
58 47.1 27.8 83.4





#60

Dibromochloromethane

Concen: 1.09 ug/l

RT: 10.90 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:129 Resp: 14611

Ion Ratio Lower Upper

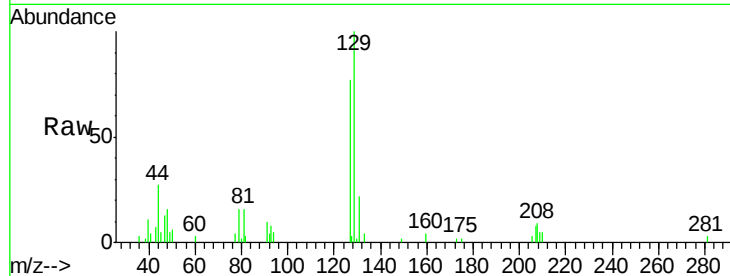
129 100

127 77.9 38.3 114.9

Manual Integrations
APPROVED

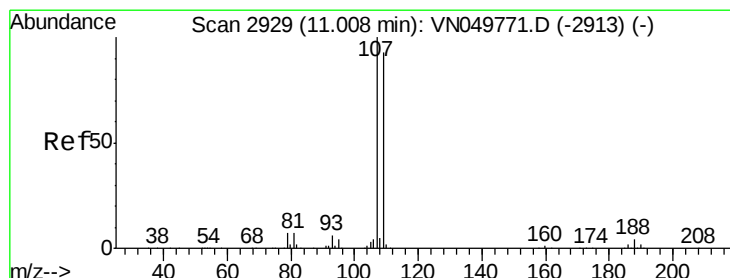
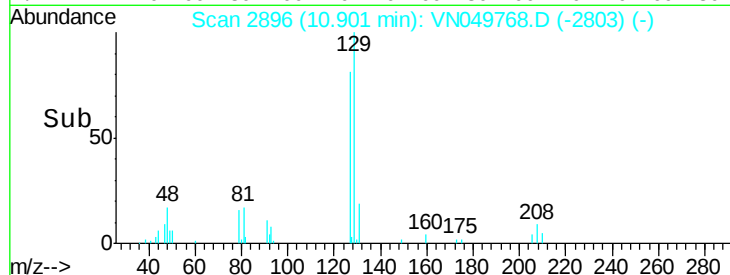
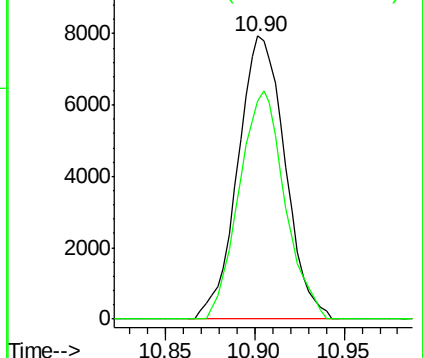
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Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 1.02 ug/l

RT: 11.01 min Scan# 2930

Delta R.T. 0.00 min

Lab File: VN049768.D

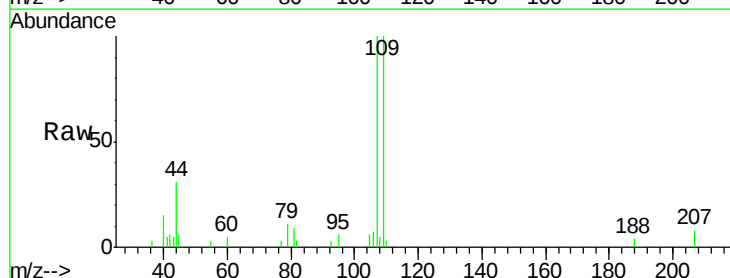
Acq: 12 Jul 2018 10:14

Tgt Ion:107 Resp: 12120

Ion Ratio Lower Upper

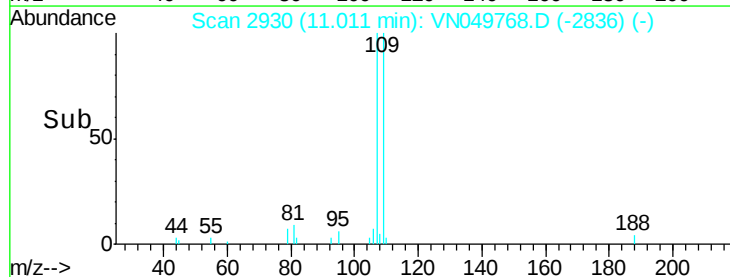
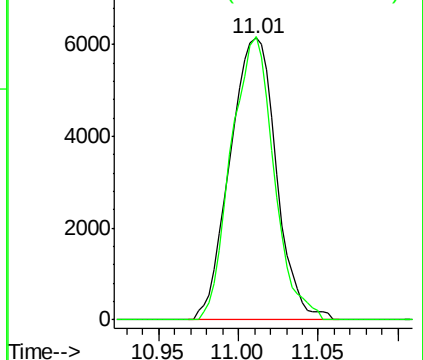
107 100

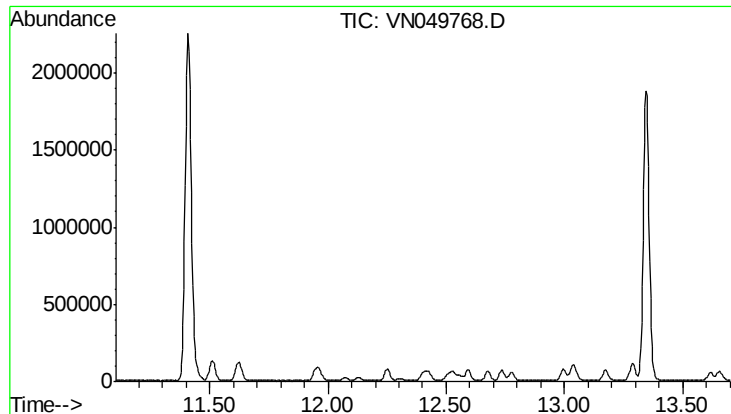
109 92.5 75.0 112.6



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V





#62

4-Bromofluorobenzene

Concen: 0.00 ug/l

Expected RT: 12.40 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Tot Ion: 95

Sig Exp Ratio

95 100

174 89.8

176 87.0

Instrument :

MSVOA_N

ClientSampleId :

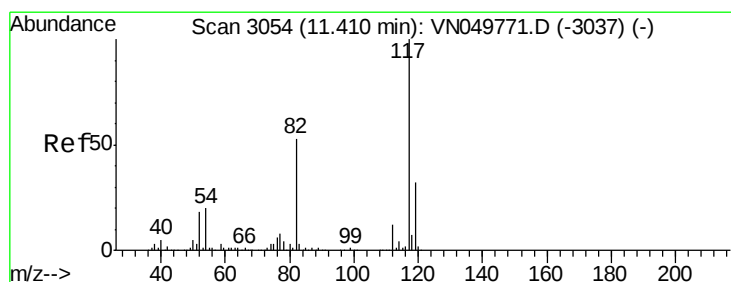
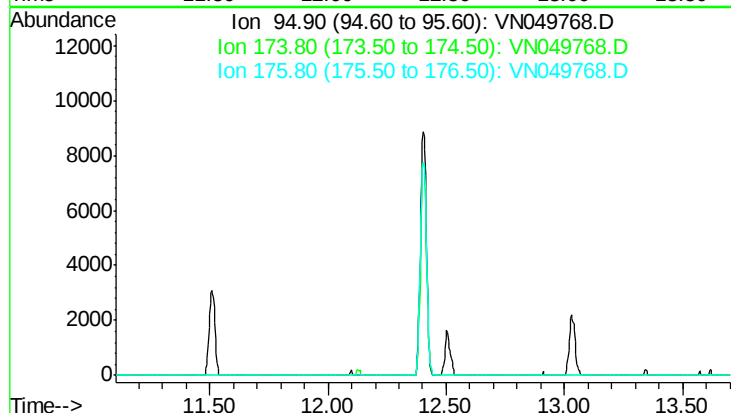
VSTDIC001

Manual Integrations

APPROVED

MMDadoda

7/13/2018 1:35:07 PM



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

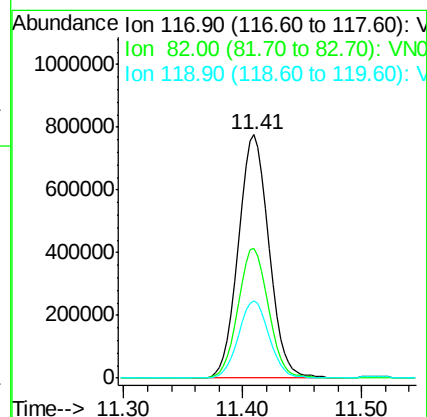
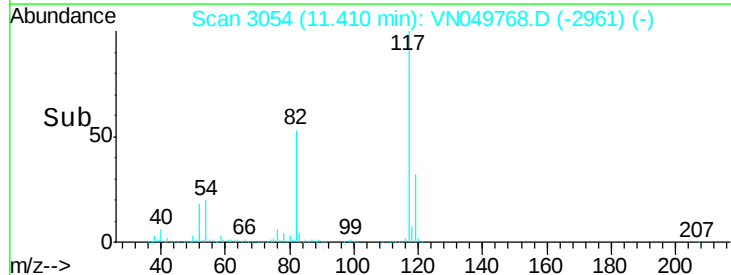
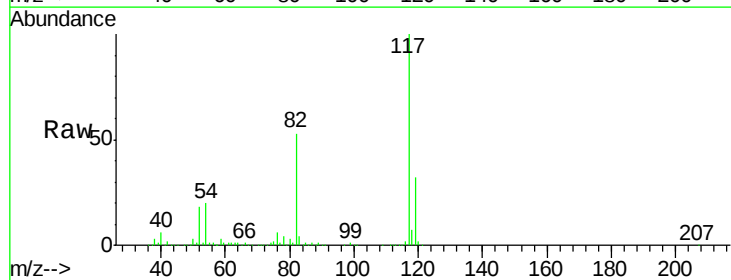
Tgt Ion:117 Resp: 1385335

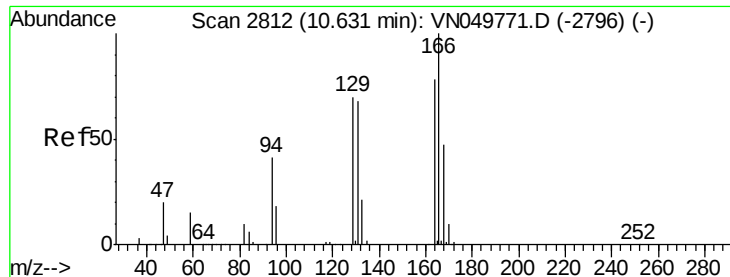
Ion Ratio Lower Upper

117 100

82 53.3 41.9 62.9

119 31.9 25.4 38.2





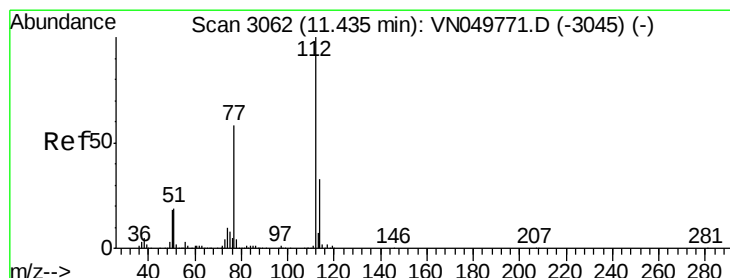
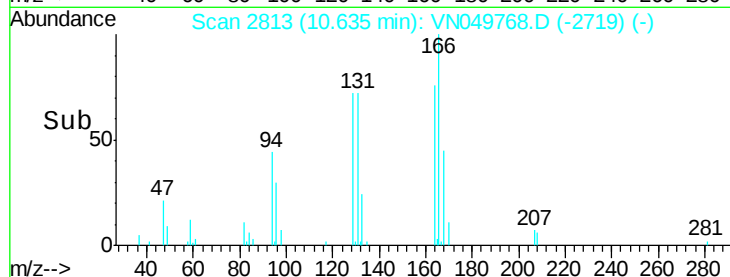
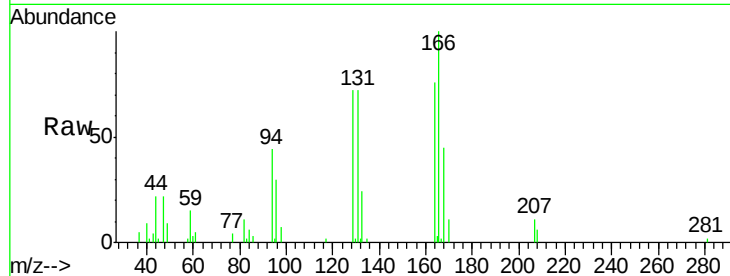
#64
Tetrachloroethene
Concen: 0.80 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
164	100		
166	128.8	101.8	152.6
129	92.2	72.8	109.2
131	93.7	70.0	105.0

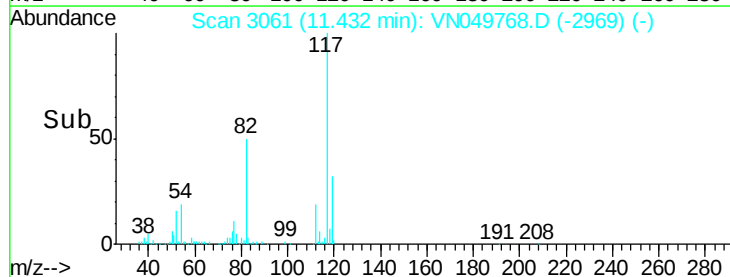
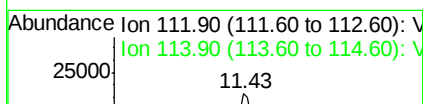
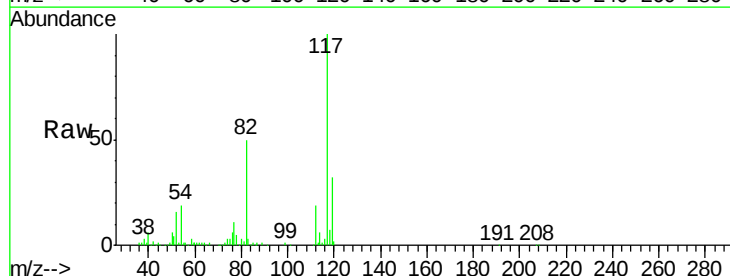
Manual Integrations
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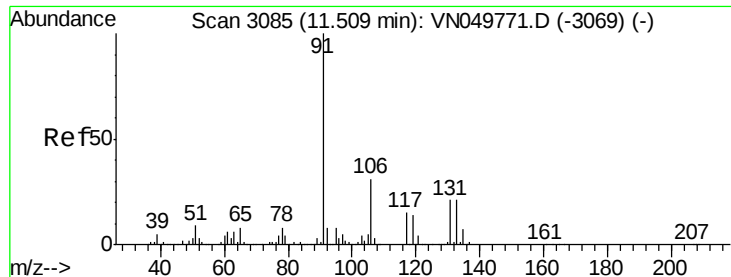
MMDadoda
7/13/2018 1:35:07 PM



#65
Chlorobenzene
Concen: 1.13 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.6	25.4	38.0





#66

1,1,1,2-Tetrachloroethane

Concen: 1.16 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:131 Resp: 15003

Ion Ratio Lower Upper

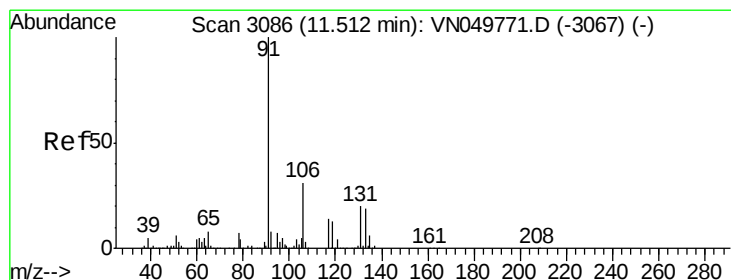
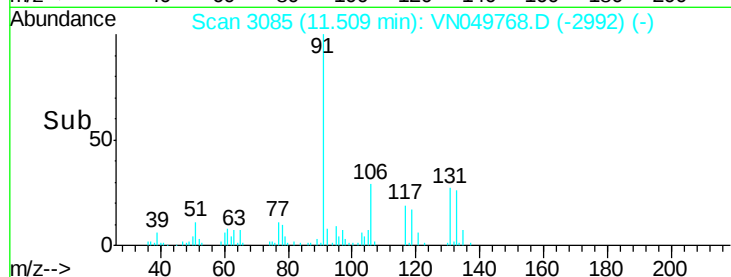
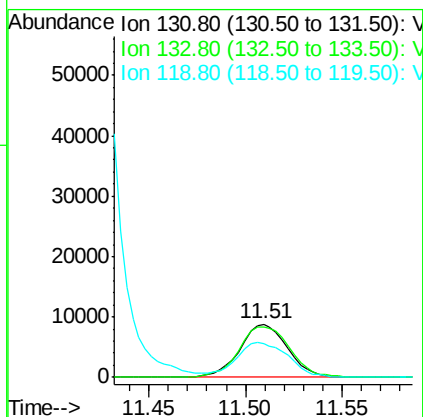
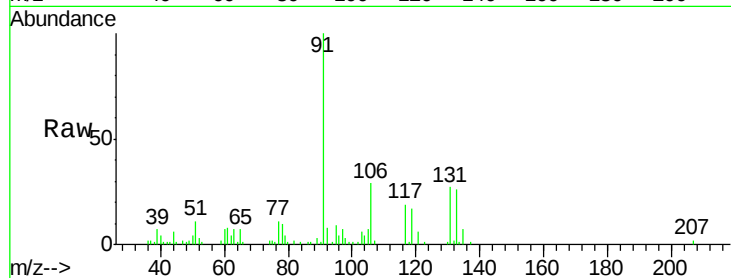
131 100

133 103.5 47.5 142.6

119 0.0 33.1 99.3#

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#67

Ethyl Benzene

Concen: 0.97 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VN049768.D

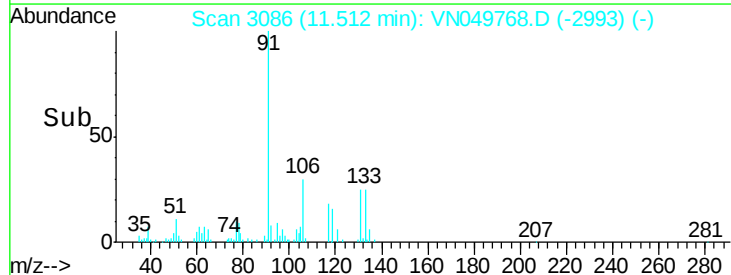
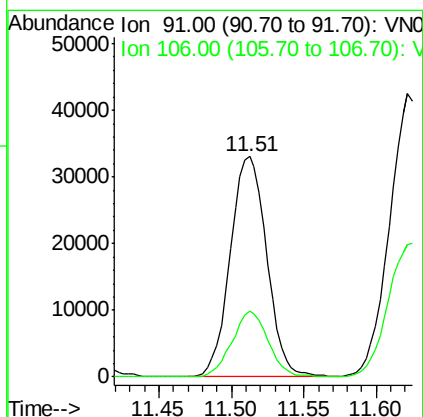
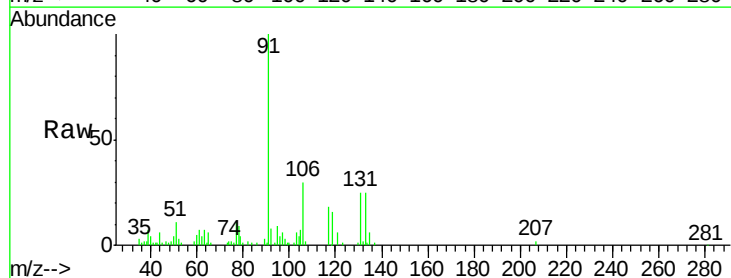
Acq: 12 Jul 2018 10:14

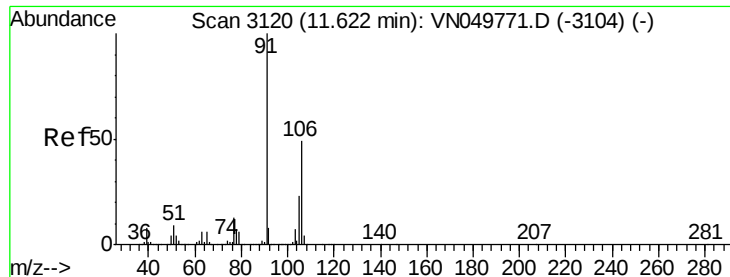
Tgt Ion: 91 Resp: 57713

Ion Ratio Lower Upper

91 100

106 29.9 24.8 37.2





#68

m/p-Xylenes

Concen: 1.72 ug/l

RT: 11.62 min Scan# 3121

Delta R.T. 0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:106 Resp: 39374

Ion Ratio Lower Upper

106 100

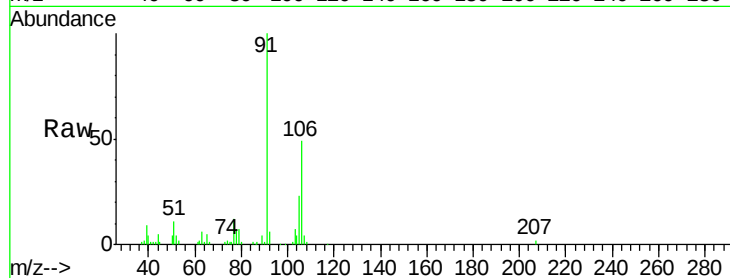
91 200.4 163.4 245.2

Manual Integrations

APPROVED

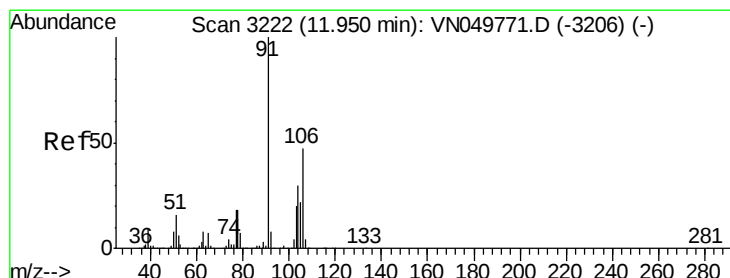
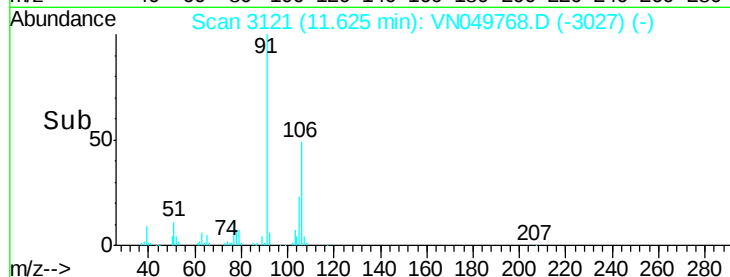
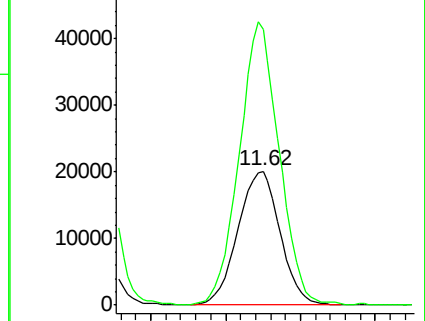
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#69

o-Xylene

Concen: 0.89 ug/l

RT: 11.95 min Scan# 3221

Delta R.T. -0.00 min

Lab File: VN049768.D

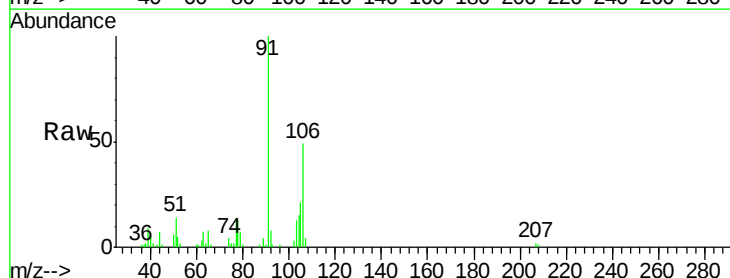
Acq: 12 Jul 2018 10:14

Tgt Ion:106 Resp: 19520

Ion Ratio Lower Upper

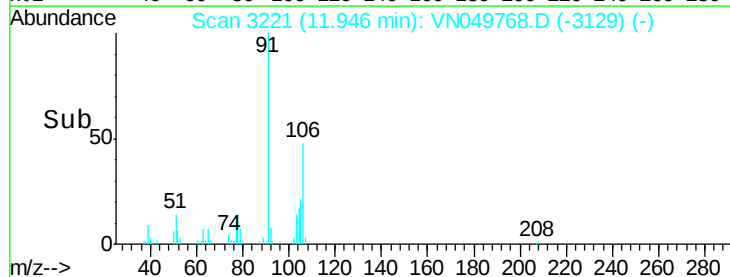
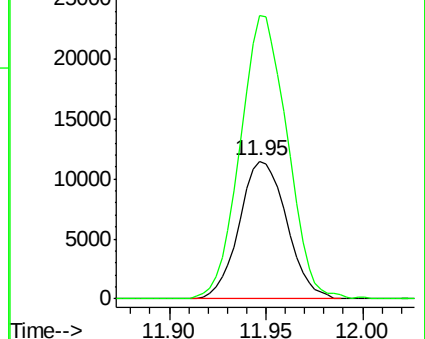
106 100

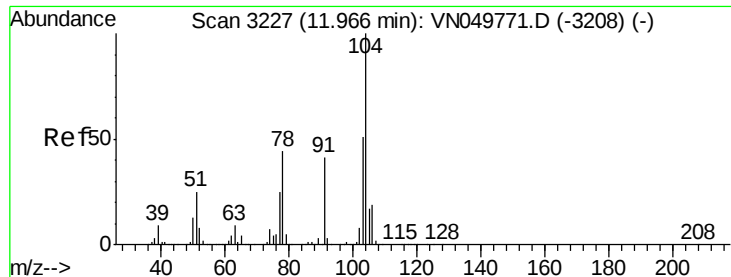
91 204.2 108.7 326.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





#70

Stvrene

Concen: 0.75 ug/l

RT: 11.97 min Scan# 3227

Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

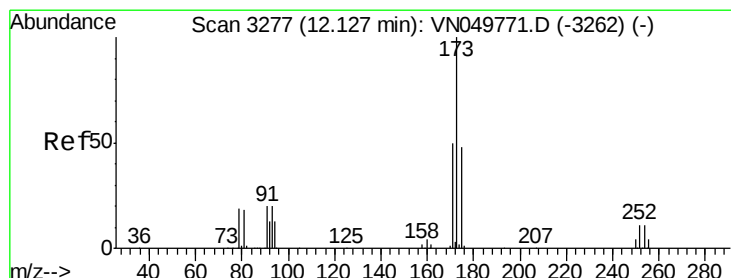
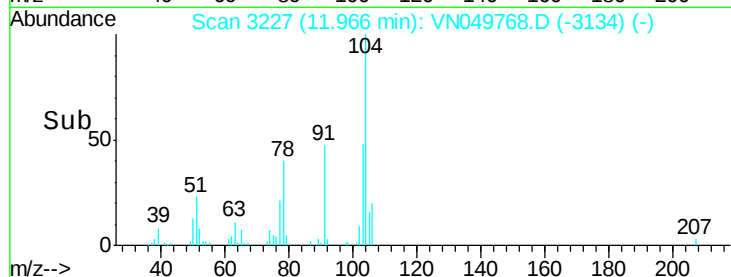
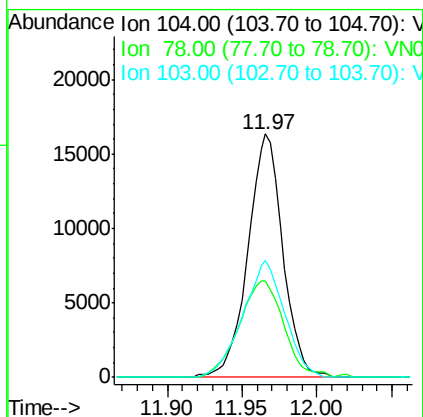
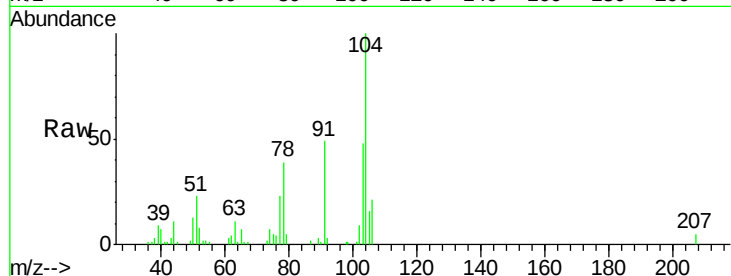
ClientSampleId :

VSTDIC001

Tot Ion:	104	Resp:	26475
Ion Ratio	Lower	Upper	
104	100		
78	50.9	39.2	58.8
103	57.3	44.6	67.0

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#71

Bromoform

Concen: 1.01 ug/l

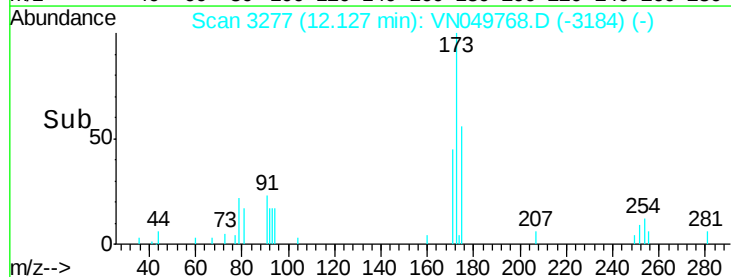
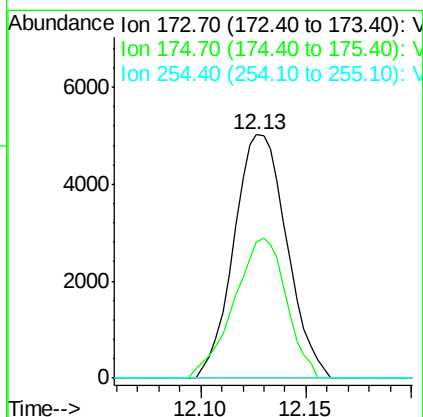
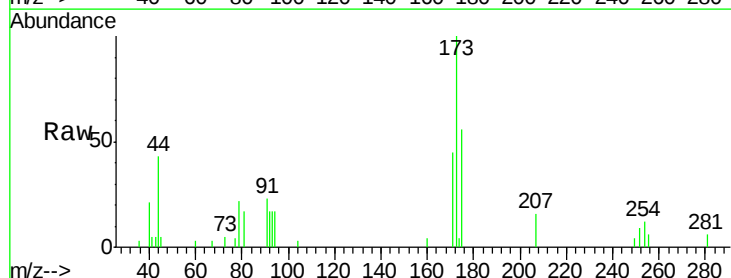
RT: 12.13 min Scan# 3277

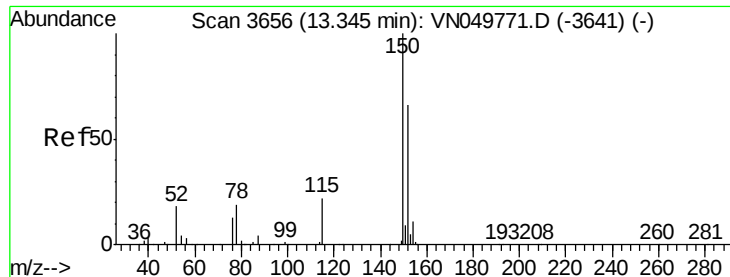
Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Tgt Ion:	173	Resp:	8735
Ion Ratio	Lower	Upper	
173	100		
175	56.9	24.6	73.8
254	0.0	0.2	0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

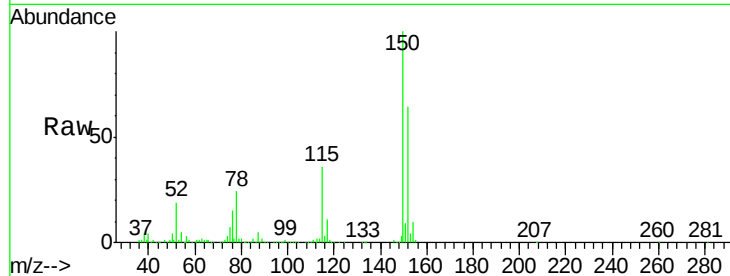
ClientSampleId :

VSTDIC001

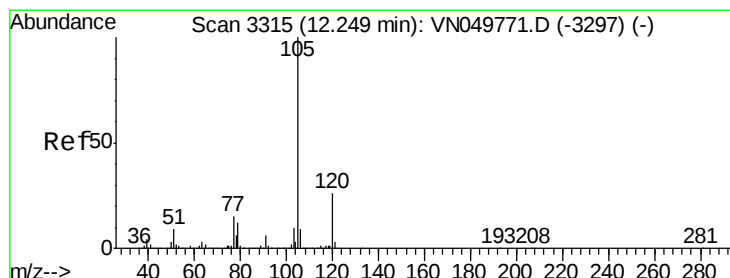
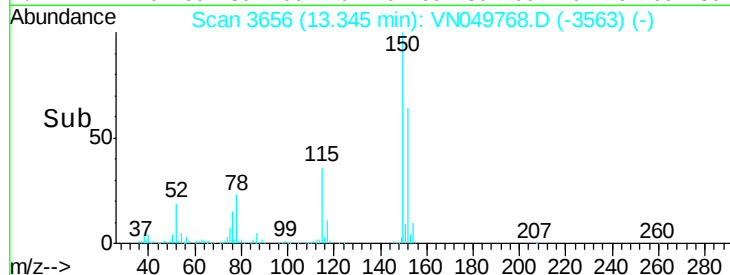
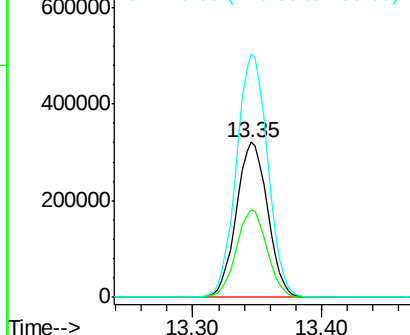
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.4	28.1	84.2
150	156.7	0.0	347.6

Manual Integrations
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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: 1.11 ug/l

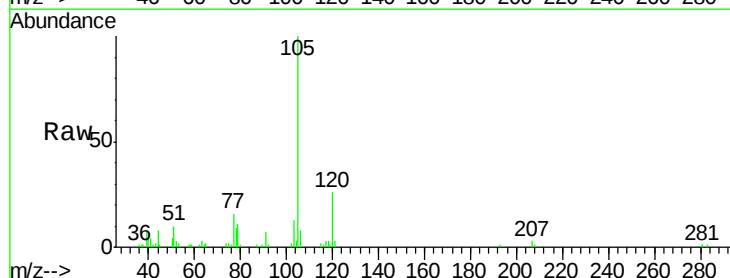
RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

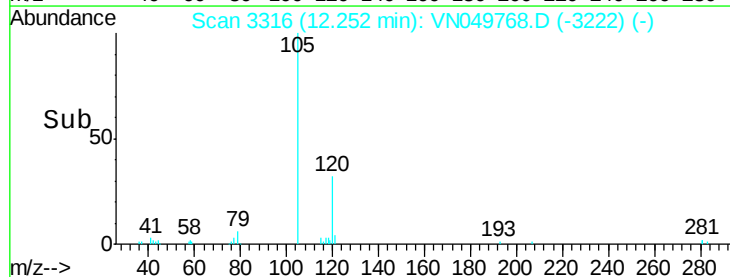
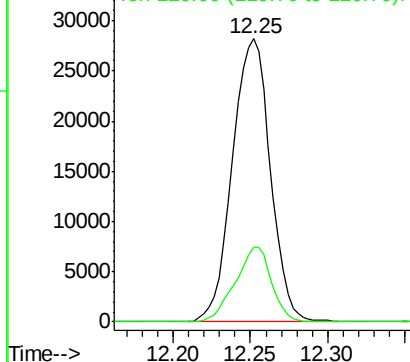
Lab File: VN049768.D

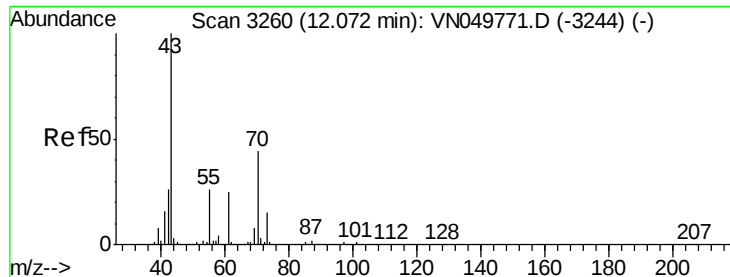
Acq: 12 Jul 2018 10:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	13.3	39.8



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





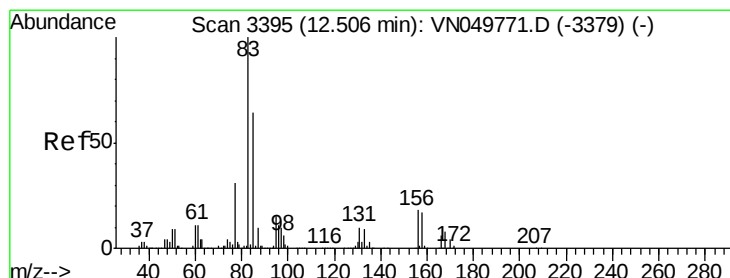
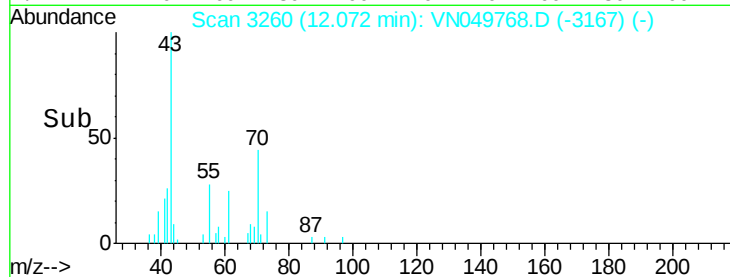
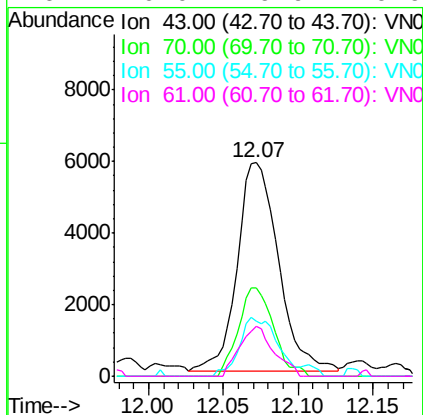
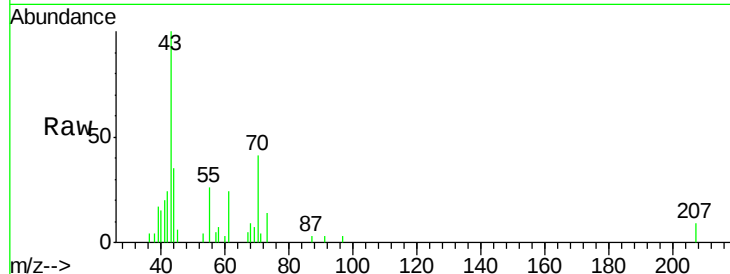
#74
N-amyl acetate
Concen: 0.94 ug/l
RT: 12.07 min Scan# 3260
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	43	Resp	11078
Ion	Ratio	Lower	Upper
43	100		
70	36.5	34.8	52.2
55	26.0	20.9	31.3
61	20.0	19.9	29.9

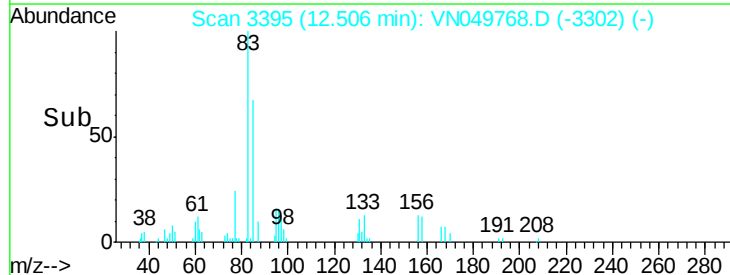
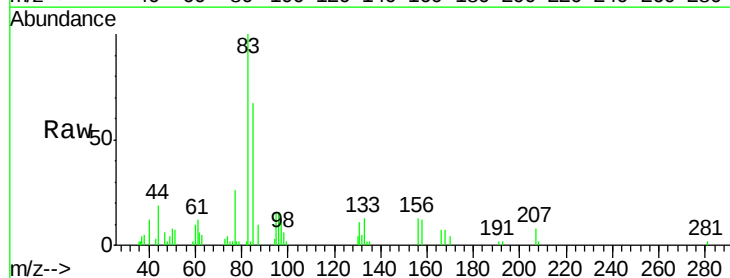
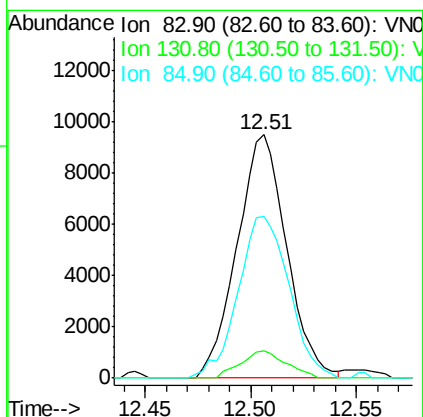
Manual Integrations
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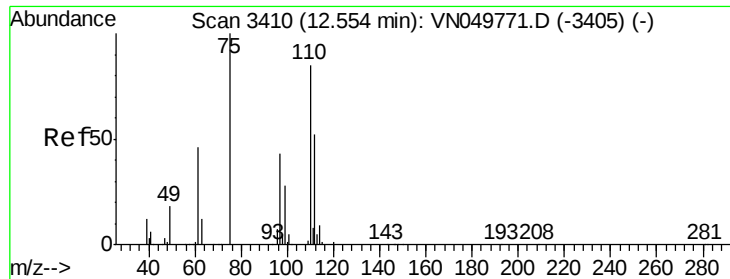
MMDadoda
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#75
1,1,2,2-Tetrachloroethane
Concen: 1.53 ug/l
RT: 12.51 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Tgt Ion	83	Resp	15569
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.2	15.6
85	68.1	32.5	97.4





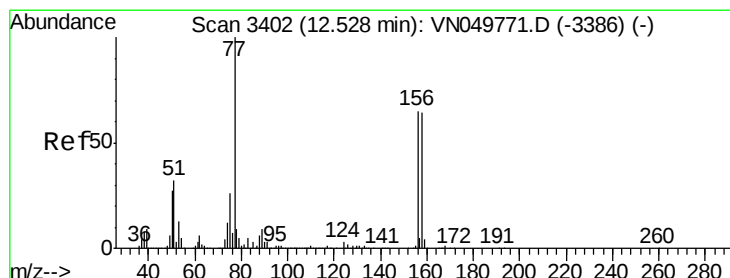
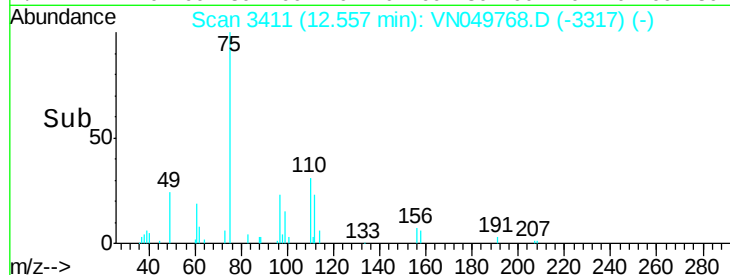
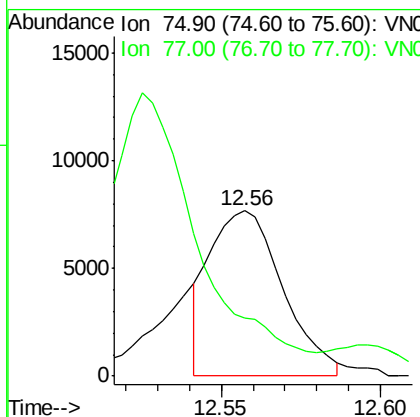
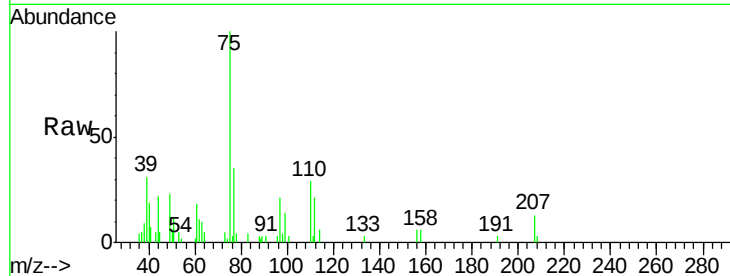
#76
 1,2,3-Trichloropropane
 Concen: 1.41 ug/l m
 RT: 12.56 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN049768.D
 Acq: 12 Jul 2018 10:14

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC001

Tot Ion: 75 Resp: 12202
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0

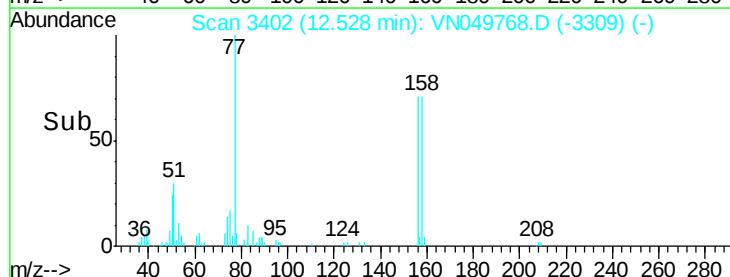
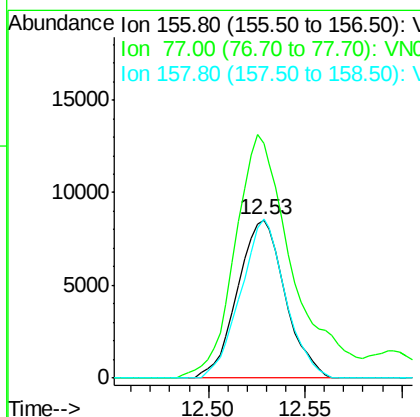
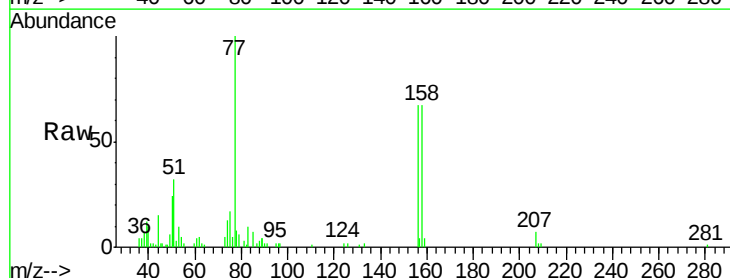
Manual Integrations
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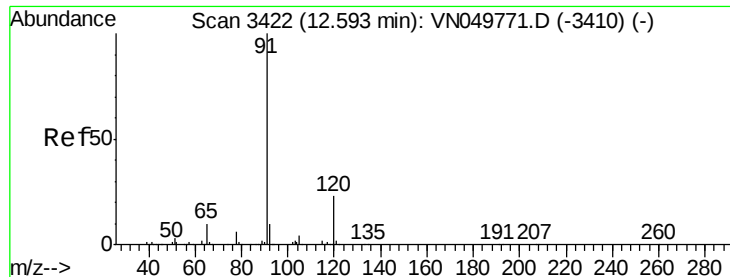
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#77
 Bromobenzene
 Concen: 1.24 ug/l
 RT: 12.53 min Scan# 3402
 Delta R.T. -0.00 min
 Lab File: VN049768.D
 Acq: 12 Jul 2018 10:14

Tgt Ion: 156 Resp: 14548
 Ion Ratio Lower Upper
 156 100
 77 186.1 90.2 270.6
 158 94.2 49.1 147.3





#78

n-propylbenzene

Concen: 1.07 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 52680

Ion Ratio Lower Upper

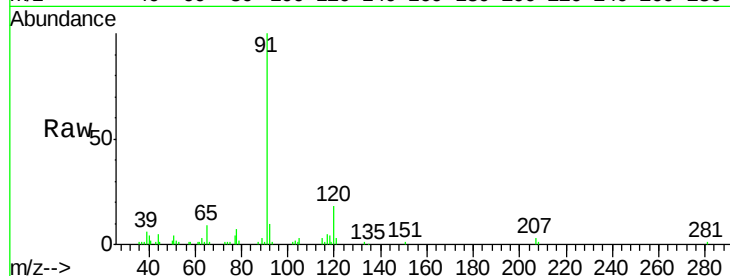
91 100

120 20.7 11.5 34.4

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Abundance Ion 91.00 (90.70 to 91.70): VN049768.D (-3329) (-)

Ion 120.00 (119.70 to 120.70): VN049768.D (-3329) (-)

12.59

40000

30000

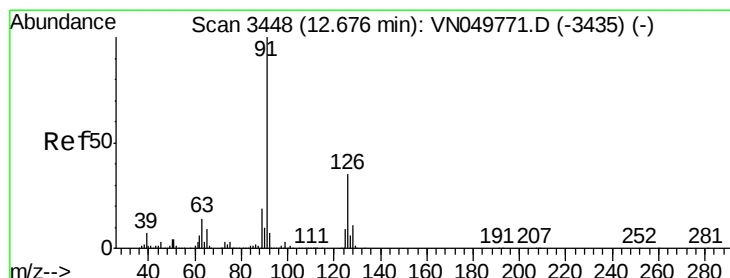
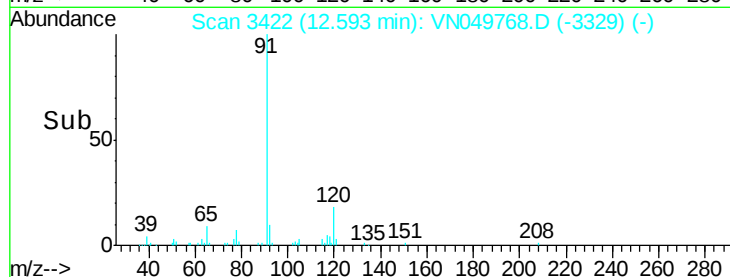
20000

10000

0

Time-->

12.55 12.60 12.65



#79

2-Chlorotoluene

Concen: 1.09 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN049768.D

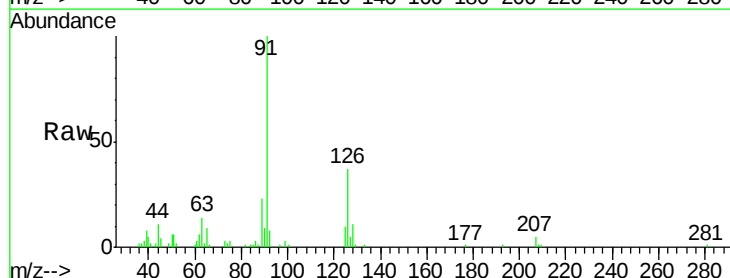
Acq: 12 Jul 2018 10:14

Tgt Ion: 91 Resp: 34223

Ion Ratio Lower Upper

91 100

126 34.8 17.5 52.5



Abundance Ion 91.00 (90.70 to 91.70): VN049768.D (-3355) (-)

Ion 125.90 (125.60 to 126.60): VN049768.D (-3355) (-)

12.68

40000

30000

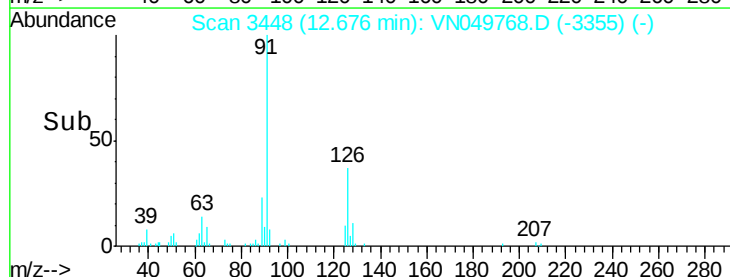
20000

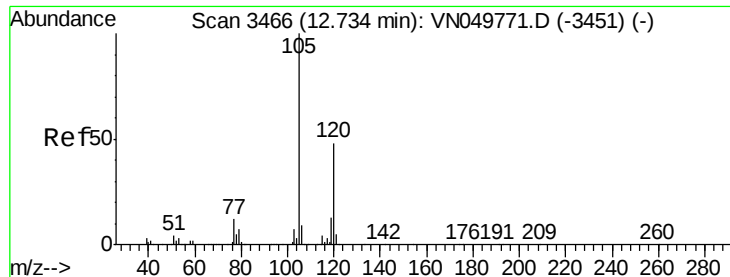
10000

0

Time-->

12.60 12.65 12.70





#80

1,3,5-Trimethylbenzene

Concen: 0.99 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

Tot Ion:105 Resp: 35512

Ion Ratio Lower Upper

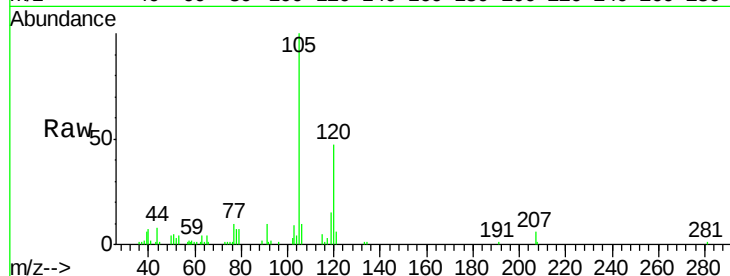
105 100

120 47.1 24.3 72.8

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

25000

20000

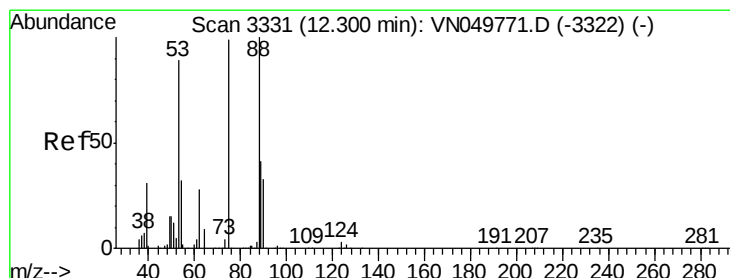
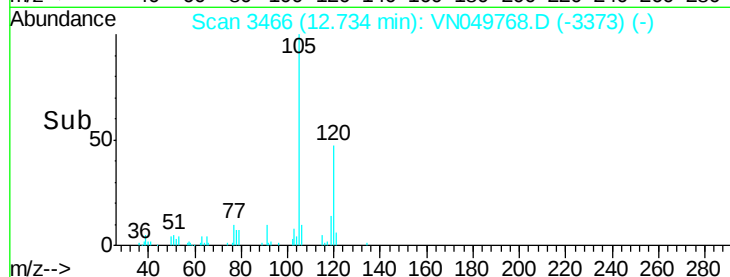
15000

10000

5000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 1.09 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

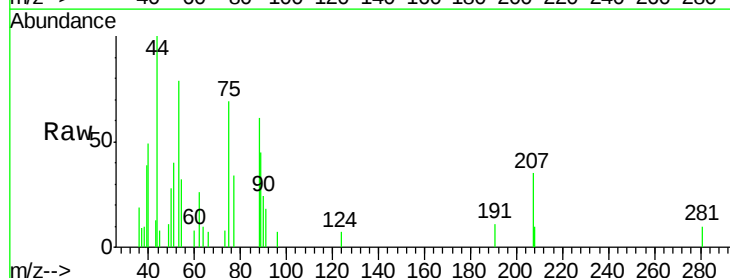
Tgt Ion: 75 Resp: 2777

Ion Ratio Lower Upper

75 100

53 110.9 73.9 110.9

89 59.7 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 53.00 (52.70 to 53.70): VNC

Ion 88.90 (88.60 to 89.60): VNC

2500

2000

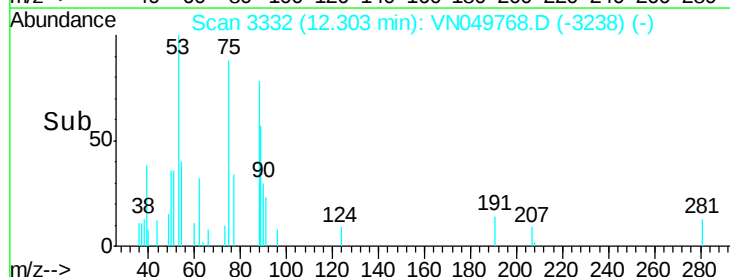
1500

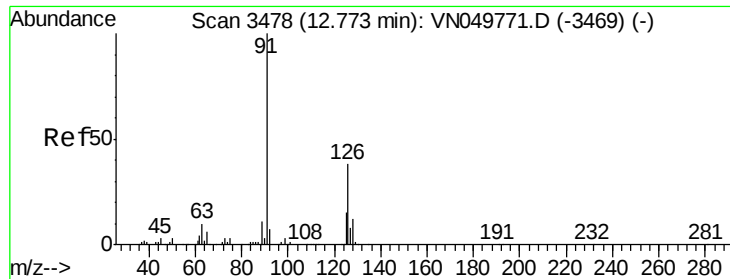
1000

500

0

Time-->





#82

4-Chlorotoluene

Concen: 0.99 ug/l

RT: 12.78 min Scan# 3479

Delta R.T. 0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 31067

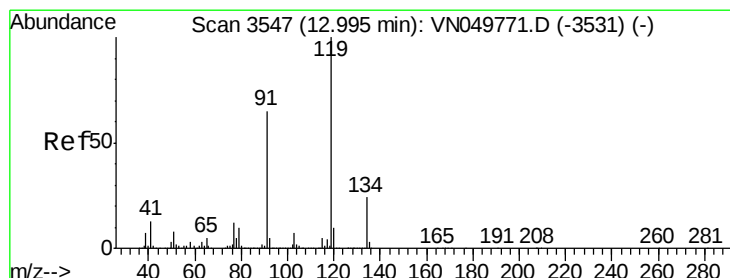
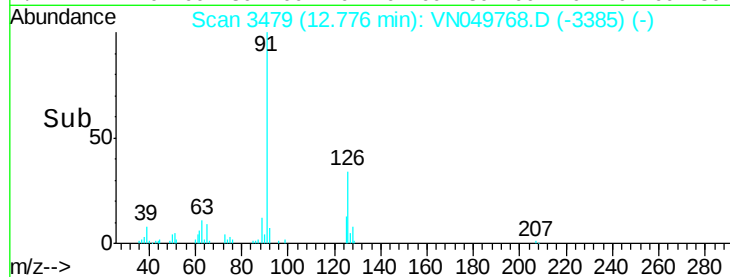
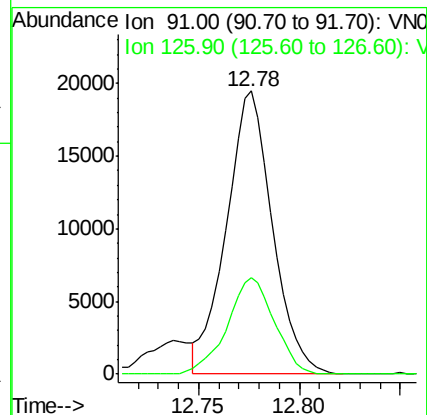
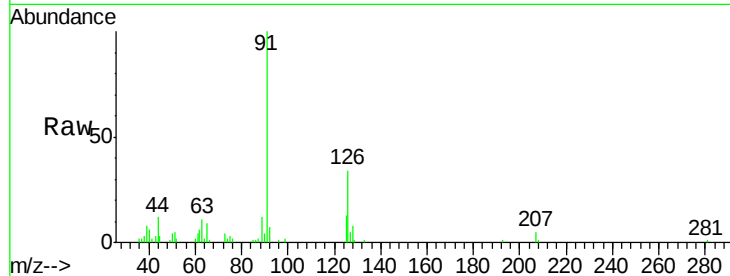
Ion Ratio Lower Upper

91 100

126 34.5 17.2 51.6

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#83

tert-Butylbenzene

Concen: 1.09 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

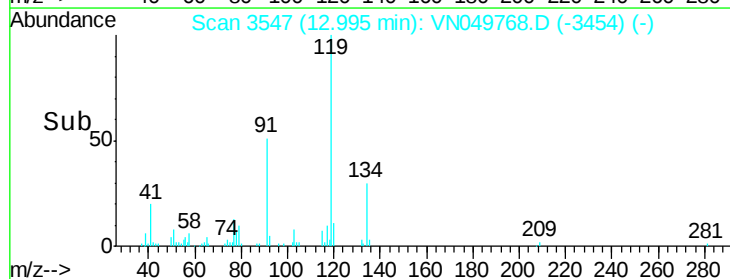
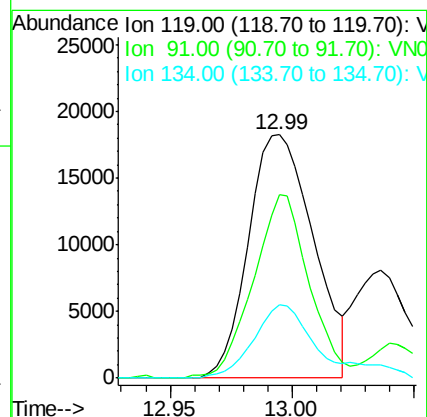
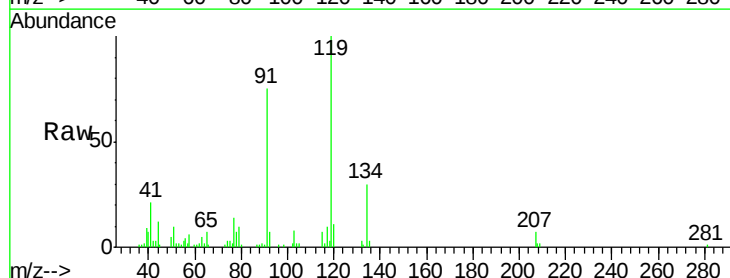
Tgt Ion: 119 Resp: 33711

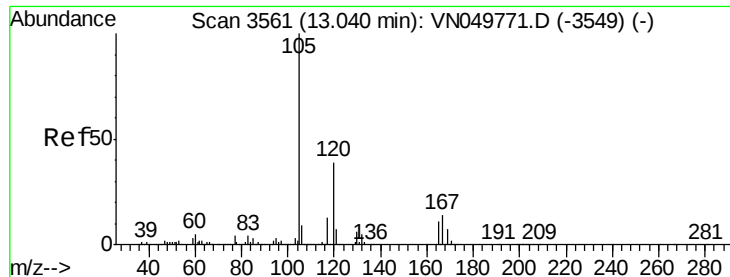
Ion Ratio Lower Upper

119 100

91 64.4 32.0 96.2

134 30.6 12.8 38.4





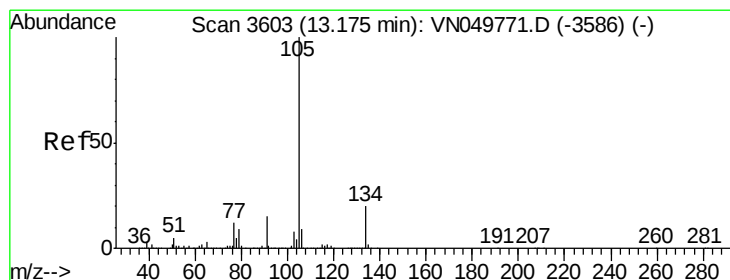
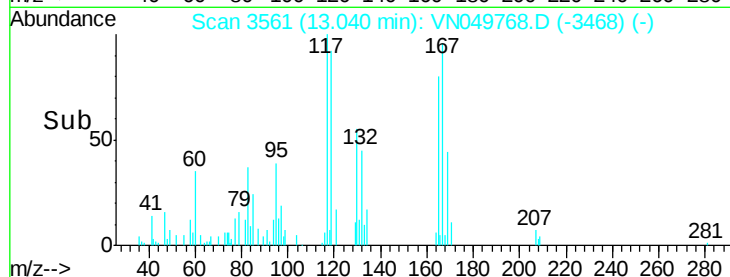
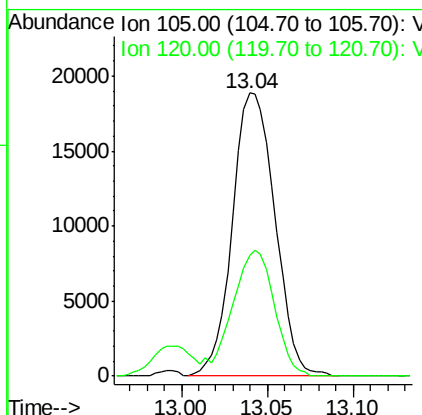
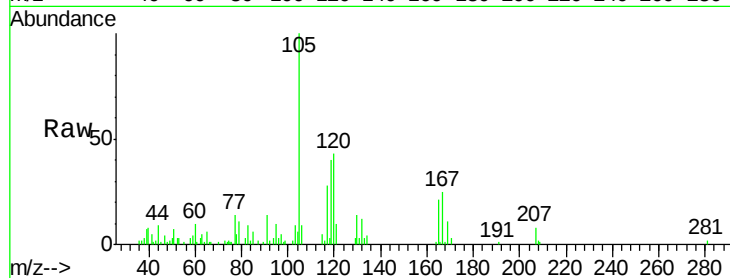
#84
1,2,4-Trimethylbenzene
Concen: 0.88 ug/l
RT: 13.04 min Scan# 3561
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion:105 Resp: 32548
Ion Ratio Lower Upper
105 100
120 44.1 22.7 68.1

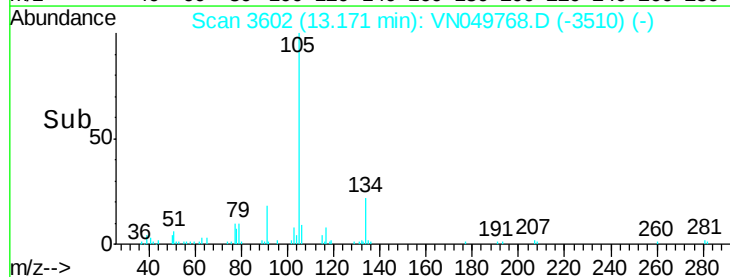
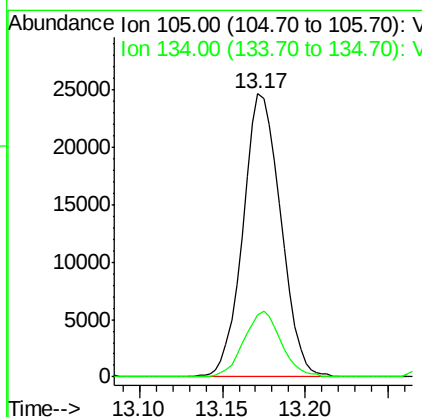
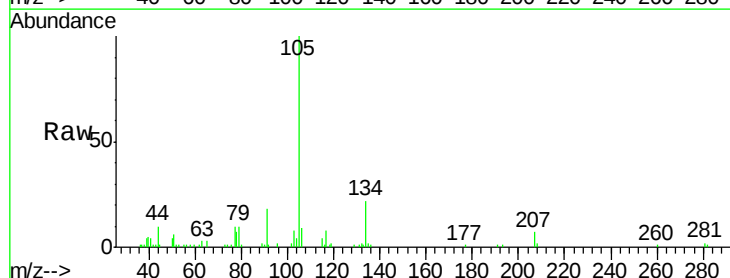
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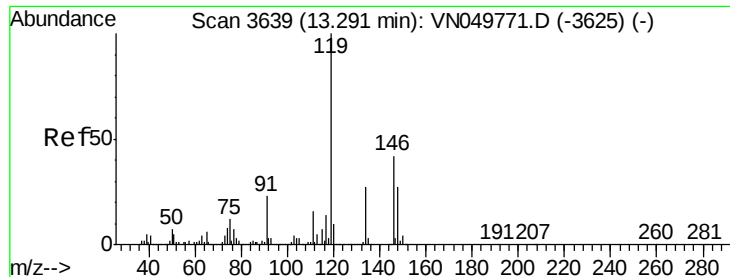
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#85
sec-Butylbenzene
Concen: 0.96 ug/l
RT: 13.17 min Scan# 3602
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Tgt Ion:105 Resp: 39253
Ion Ratio Lower Upper
105 100
134 22.6 10.1 30.1





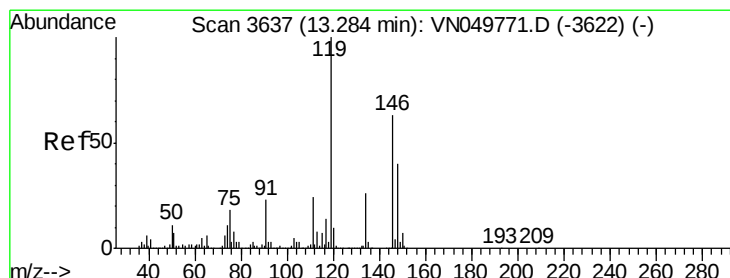
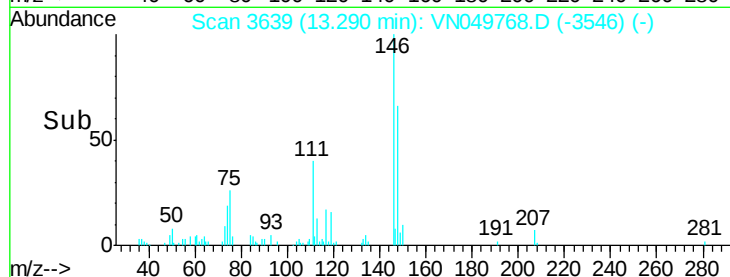
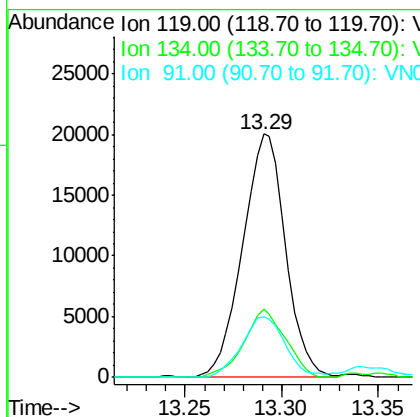
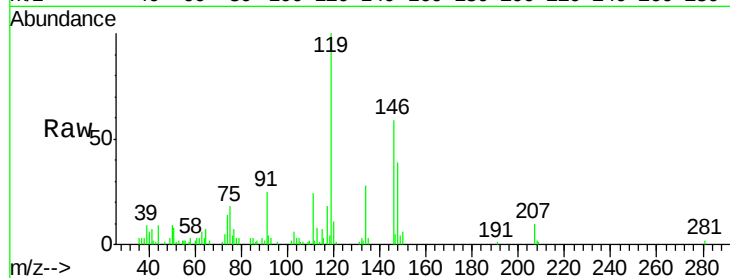
#86
 p-Isopropyltoluene
 Concen: 0.88 ug/l
 RT: 13.29 min Scan# 3639
 Delta R.T. -0.00 min
 Lab File: VN049768.D
 Acq: 12 Jul 2018 10:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion:	119	Resp:	30944
Ion Ratio	Lower	Upper	
119	100		
134	27.1	13.3	39.9
91	25.5	11.4	34.1

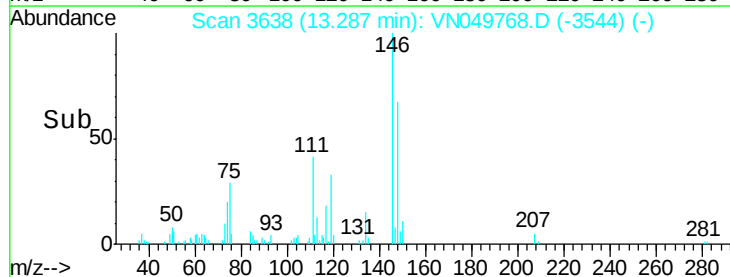
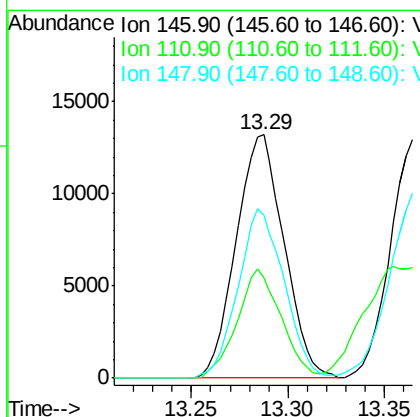
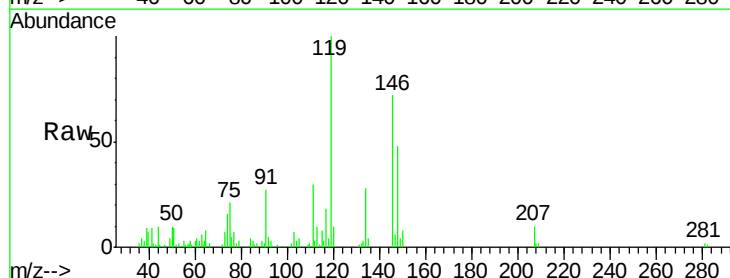
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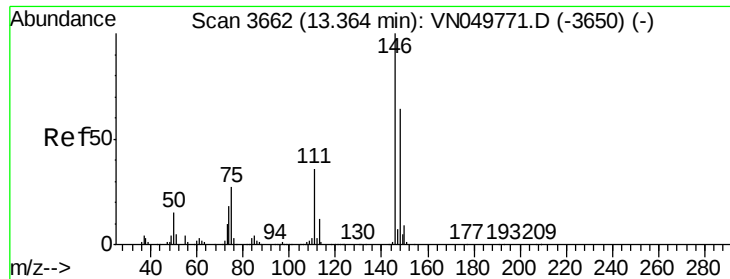
MMDadoda
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#87
 1,3-Dichlorobenzene
 Concen: 1.05 ug/l
 RT: 13.29 min Scan# 3638
 Delta R.T. 0.00 min
 Lab File: VN049768.D
 Acq: 12 Jul 2018 10:14

Tgt Ion:	146	Resp:	22681
Ion Ratio	Lower	Upper	
146	100		
111	41.2	19.0	57.0
148	67.1	32.5	97.5





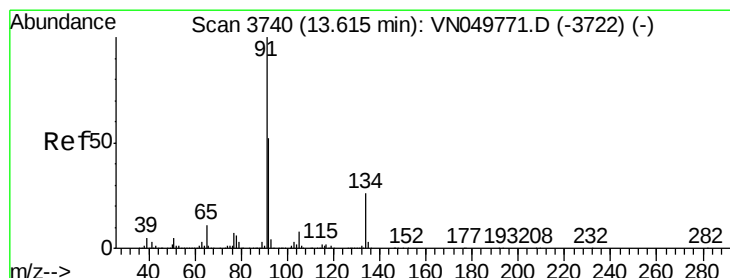
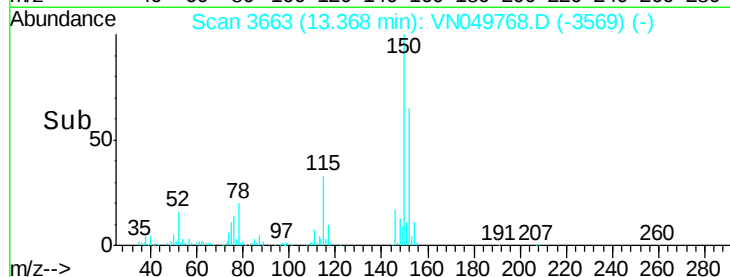
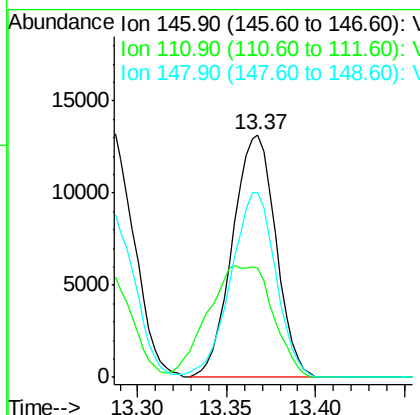
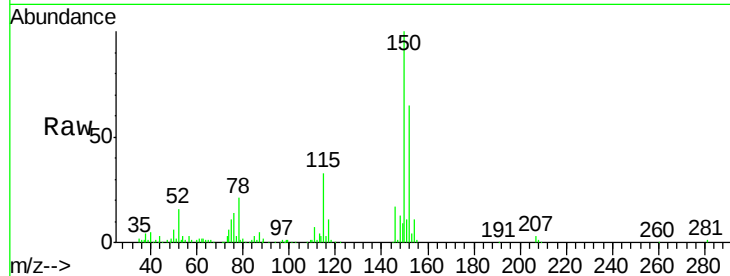
#88
 1,4-Dichlorobenzene
 Concen: 1.03 ug/l m
 RT: 13.37 min Scan# 3663
 Delta R.T. 0.00 min
 Lab File: VN049768.D
 Acq: 12 Jul 2018 10:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.0	18.9	56.5
148	68.4	32.1	96.3

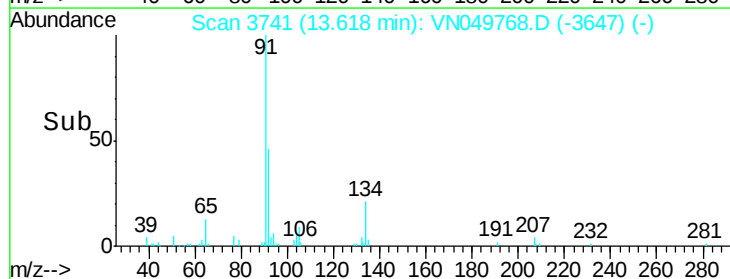
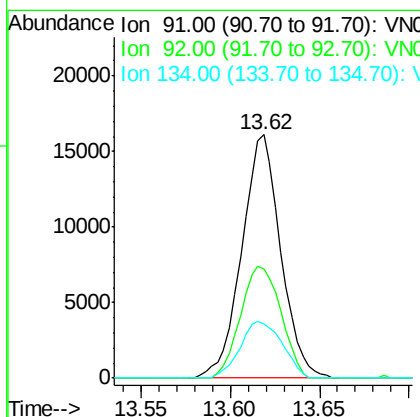
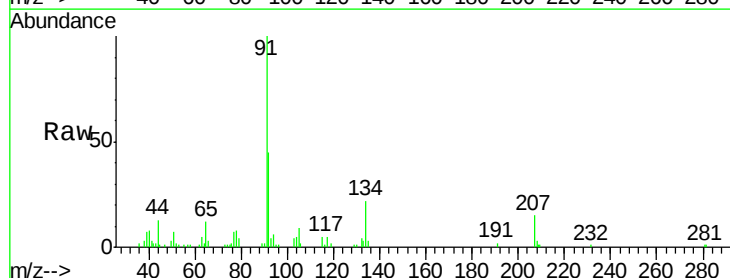
Manual Integrations
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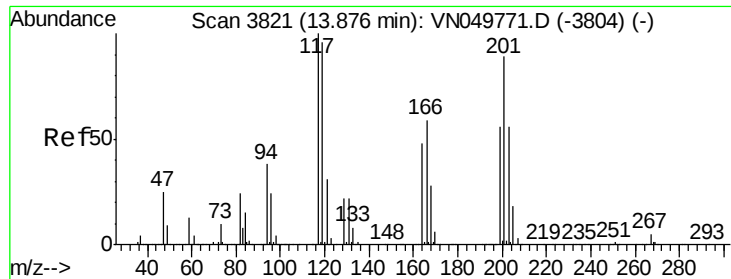
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#89
 n-Butylbenzene
 Concen: 0.81 ug/l
 RT: 13.62 min Scan# 3741
 Delta R.T. 0.00 min
 Lab File: VN049768.D
 Acq: 12 Jul 2018 10:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	47.5	25.8	77.3
134	25.3	13.0	38.9





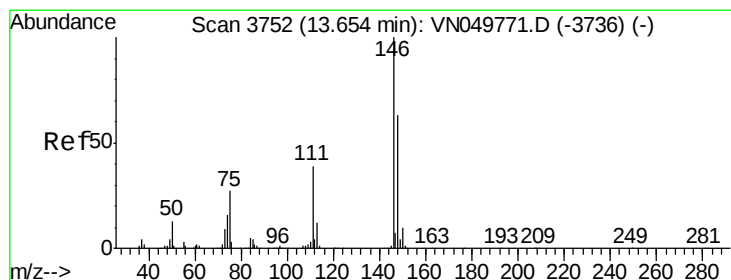
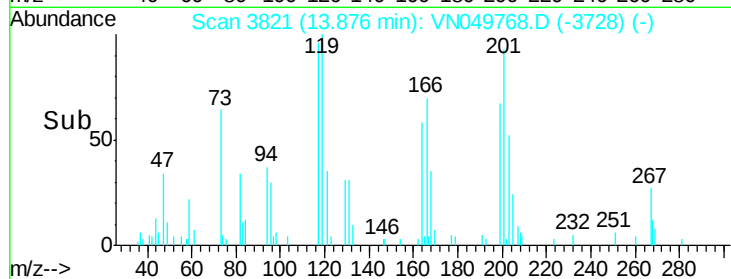
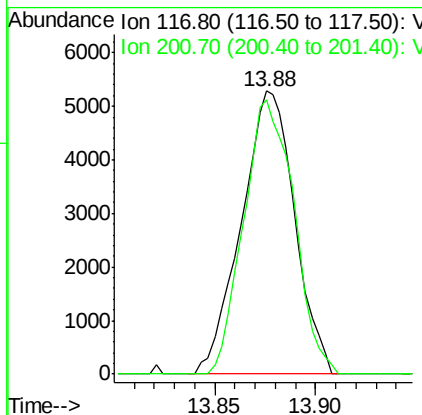
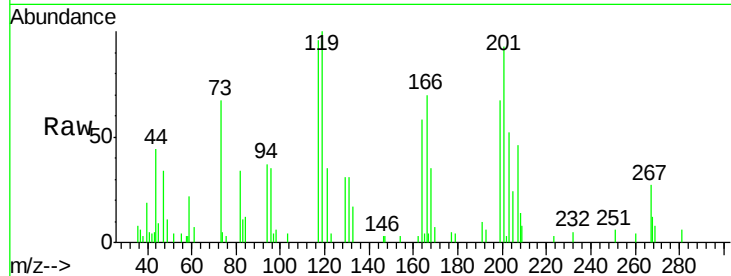
#90
Hexachloroethane
Concen: 2.63 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion:117 Resp: 9763
Ion Ratio Lower Upper
117 100
201 91.6 45.3 135.8

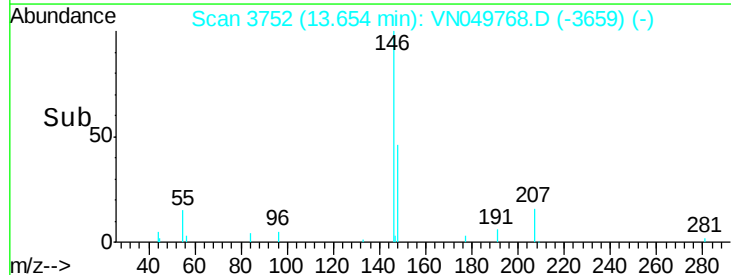
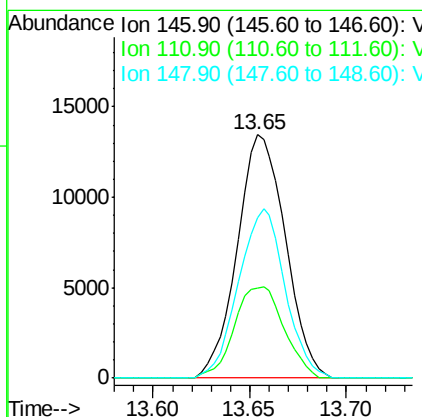
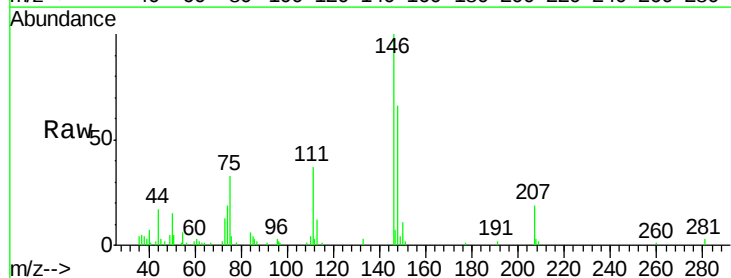
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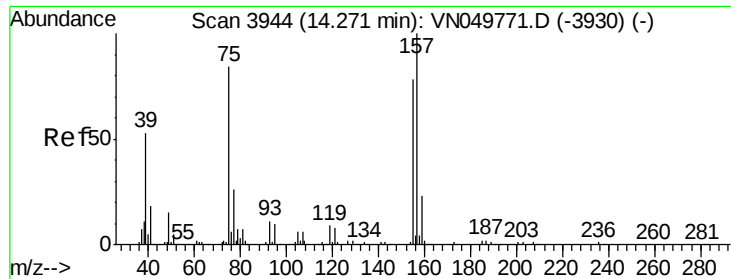
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#91
1,2-Dichlorobenzene
Concen: 1.11 ug/l
RT: 13.65 min Scan# 3752
Delta R.T. -0.00 min
Lab File: VN049768.D
Acq: 12 Jul 2018 10:14

Tgt Ion:146 Resp: 23369
Ion Ratio Lower Upper
146 100
111 38.6 19.7 59.1
148 67.1 32.0 96.2





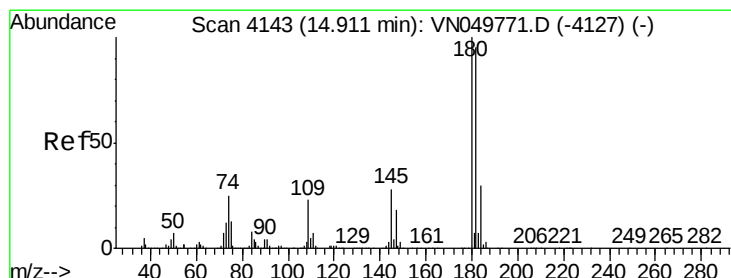
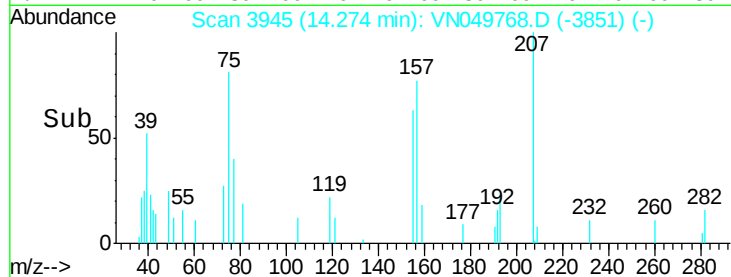
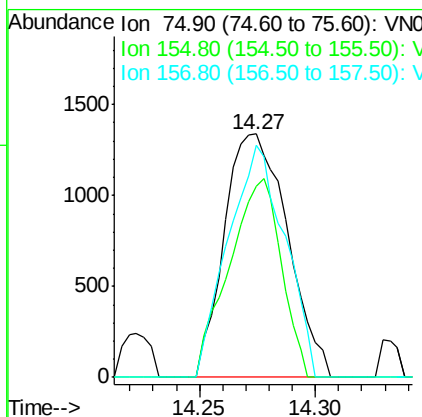
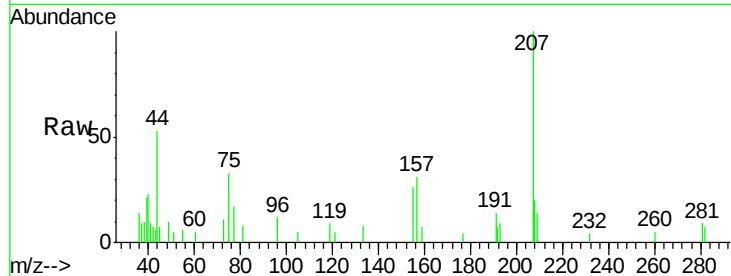
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.42 ug/l
 RT: 14.27 min Scan# 3945
 Delta R.T. 0.00 min
 Lab File: VN049768.D
 Acq: 12 Jul 2018 10:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
75	100		
155	67.4	45.7	137.1
157	85.9	56.9	170.7

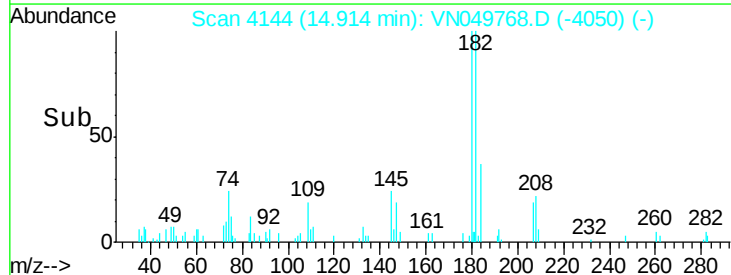
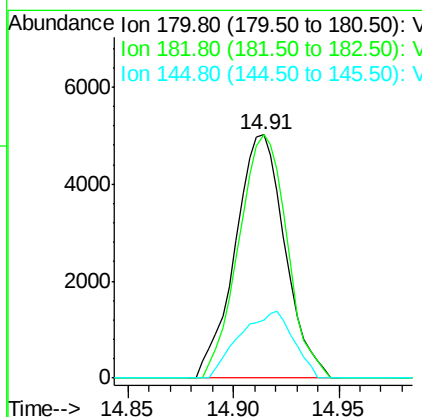
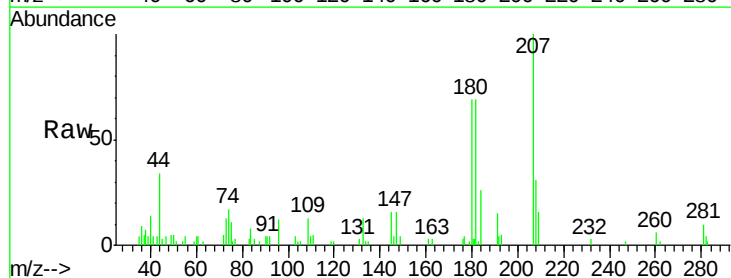
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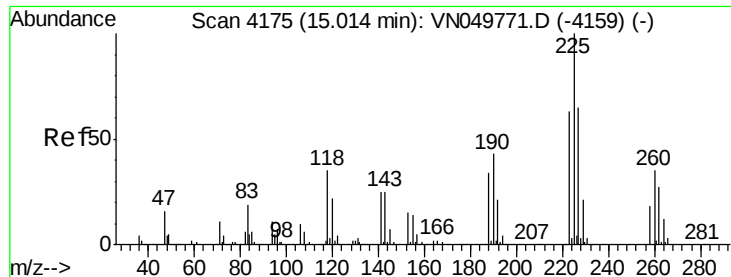
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#93
 1,2,4-Trichlorobenzene
 Concen: 0.85 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049768.D
 Acq: 12 Jul 2018 10:14

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.8	47.3	141.9
145	29.4	14.4	43.0





#94

Hexachlorobutadiene

Concen: 1.31 ug/l

RT: 15.01 min Scan# 4174

Delta R.T. -0.00 min

Lab File: VN049768.D

Acq: 12 Jul 2018 10:14

Instrument :

MSVOA_N

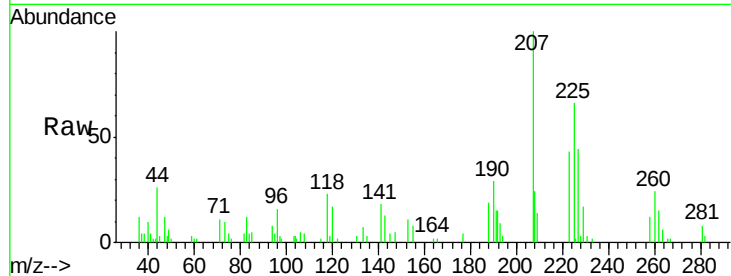
ClientSampled :

VSTDIC001

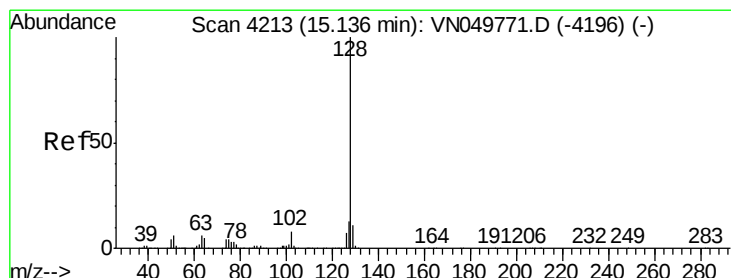
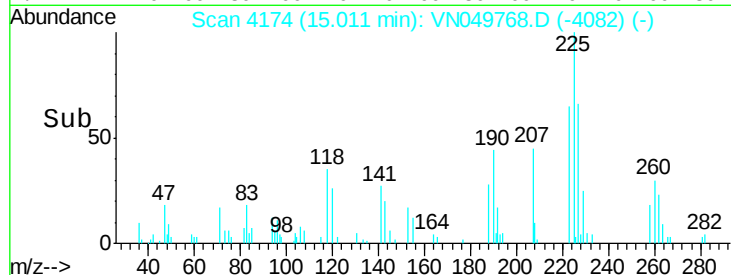
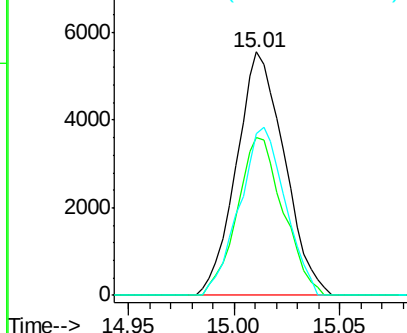
Tot Ion:	225	Resp:	8774
Ion Ratio	Lower	Upper	
225	100		
223	62.2	30.9	92.7
227	65.8	31.8	95.4

Manual Integrations
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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: 0.77 ug/l

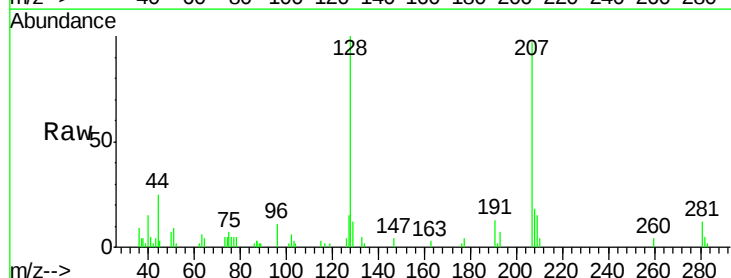
RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

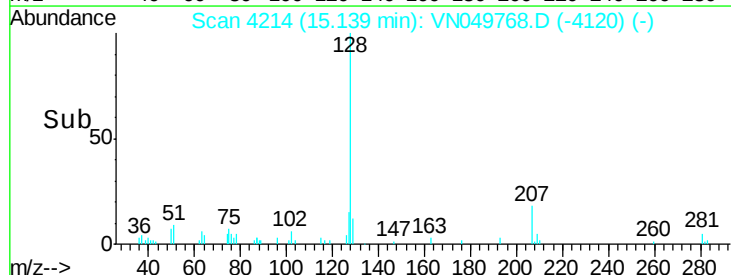
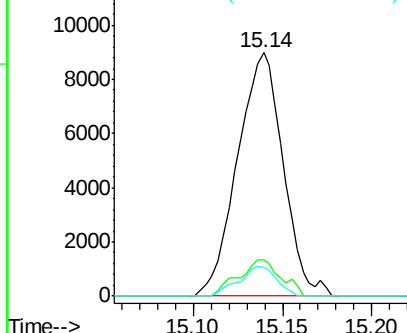
Lab File: VN049768.D

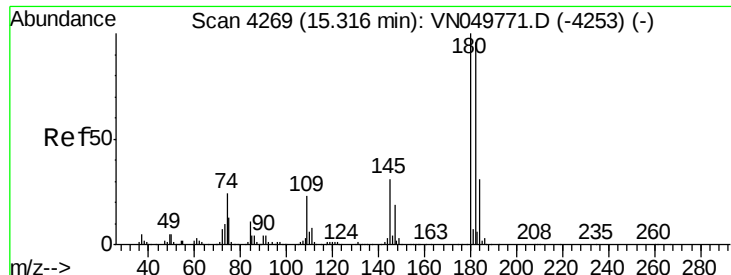
Acq: 12 Jul 2018 10:14

Tgt Ion:	128	Resp:	16107
Ion Ratio	Lower	Upper	
128	100		
127	13.9	10.4	15.6
129	10.0	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: 0.94 ug/l
 RT: 15.32 min Scan# 4270
 Delta R.T. 0.00 min
 Lab File: VN049768.D
 Acq: 12 Jul 2018 10:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.6	47.4	142.2
145	28.5	15.2	45.6

Manual Integrations
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