

Data File : VN051398.D
Acq On : 22 Sep 2018 15:32
Operator : MD\SY
Sample : VSTDIC020
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Manual Integrations
APPROVED

MMDadoda
9/24/2018 2:15:23 PM

Quant Time: Sep 24 06:07:55 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 24 05:35:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	538079	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	770678	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	663987	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	321974	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	124455	18.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	36.92%	
35) Dibromofluoromethane	7.59	113	113316	18.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	36.78%	
50) Toluene-d8	10.09	98	413069	17.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	35.60%	
62) 4-Bromofluorobenzene	12.40	95	127540	16.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	33.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	97766	19.475	ug/l	97
3) Chloromethane	2.06	50	159494	19.958	ug/l	99
4) Vinyl Chloride	2.19	62	173572	19.679	ug/l	99
5) Bromomethane	2.57	94	108335	20.531	ug/l	96
6) Chloroethane	2.70	64	109729	19.966	ug/l	96
7) Trichlorofluoromethane	3.01	101	229314	19.849	ug/l	99
8) Diethyl Ether	3.41	74	65590	16.235	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	118380	18.156	ug/l	97
10) Methyl Iodide	3.95	142	142930	16.687	ug/l	98
11) Tert butyl alcohol	4.79	59	34844	91.711	ug/l	96
12) 1,1-Dichloroethene	3.74	96	107243	17.913	ug/l	94
13) Acrolein	3.61	56	32629	86.377	ug/l	100
14) Allyl chloride	4.33	41	184799	18.398	ug/l	99
15) Acrylonitrile	4.99	53	186344	90.048	ug/l	99
16) Acetone	3.82	43	141379	77.816	ug/l	98
17) Carbon Disulfide	4.05	76	317777	18.067	ug/l	99
18) Methyl Acetate	4.33	43	93645	18.242	ug/l	97
19) Methyl tert-butyl Ether	5.05	73	290486	18.816	ug/l	98
20) Methylene Chloride	4.55	84	125512	18.818	ug/l	96
21) trans-1,2-Dichloroethene	5.05	96	116193	18.972	ug/l	100
22) Diisopropyl ether	5.95	45	387697	19.968	ug/l	96
23) Vinyl Acetate	5.90	43	1211597	95.051	ug/l	100
24) 1,1-Dichloroethane	5.85	63	231104	19.949	ug/l	99
25) 2-Butanone	6.84	43	210350	91.176	ug/l	94
26) 2,2-Dichloropropane	6.83	77	176303	19.496	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	129833	19.321	ug/l	98
28) Bromochloromethane	7.20	49	106144	19.841	ug/l	97
29) Tetrahydrofuran	7.22	42	140831	96.326	ug/l	99
30) Chloroform	7.37	83	229098	19.958	ug/l	95
31) Cyclohexane	7.65	56	205180	19.332	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	194927	19.864	ug/l	99
36) 1,1-Dichloropropene	7.80	75	168576	18.889	ug/l	99
37) Ethyl Acetate	6.93	43	92450	18.017	ug/l	98
38) Carbon Tetrachloride	7.77	117	178331	19.104	ug/l	99

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Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	188910	18.107	ug/l	96
40) Benzene	8.04	78	507112	19.352	ug/l	100
41) Methacrylonitrile	7.19	41	60787	21.413	ug/l #	85
42) 1,2-Dichloroethane	8.13	62	160872	19.173	ug/l	100
43) Isopropyl Acetate	8.17	43	176096	18.978	ug/l	98
44) Trichloroethene	8.83	130	131252	18.858	ug/l	99
45) 1,2-Dichloropropane	9.12	63	136498	19.162	ug/l	100
46) Dibromomethane	9.21	93	76684	19.053	ug/l	100
47) Bromodichloromethane	9.40	83	168921	18.966	ug/l	98
48) Methyl methacrylate	9.20	41	82961	17.933	ug/l	97
49) 1,4-Dioxane	9.20	88	21103	372.218	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	467090	91.532	ug/l	99
52) Toluene	10.16	92	306287	18.808	ug/l	96
53) t-1,3-Dichloropropene	10.38	75	161179	17.925	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	192877	18.496	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	110659	19.227	ug/l	99
56) Ethyl methacrylate	10.43	69	125233	17.797	ug/l	99
57) 1,3-Dichloropropane	10.71	76	186819	18.938	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	327494	99.361	ug/l	100
59) 2-Hexanone	10.75	43	293015	88.575	ug/l	98
60) Dibromochloromethane	10.90	129	126127	18.574	ug/l	100
61) 1,2-Dibromoethane	11.00	107	103255	18.481	ug/l	99
64) Tetrachloroethene	10.63	164	118501	19.665	ug/l	98
65) Chlorobenzene	11.43	112	328326	19.273	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	127156	19.591	ug/l	99
67) Ethyl Benzene	11.51	91	543270	18.923	ug/l	100
68) m/p-Xylenes	11.62	106	429787	38.702	ug/l	99
69) o-Xylene	11.95	106	204682	19.172	ug/l	98
70) Styrene	11.96	104	316108	18.686	ug/l	99
71) Bromoform	12.13	173	84154	19.108	ug/l #	97
73) Isopropylbenzene	12.25	105	548665	20.197	ug/l	100
74) N-amyl acetate	12.07	43	128512	18.854	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	129513	20.444	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	119944m	23.094	ug/l	
77) Bromobenzene	12.53	156	137635	20.014	ug/l	97
78) n-propylbenzene	12.59	91	607869	19.854	ug/l	100
79) 2-Chlorotoluene	12.67	91	371103	20.249	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	455445	20.560	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	32133	18.486	ug/l	97
82) 4-Chlorotoluene	12.77	91	364311	19.917	ug/l	98
83) tert-Butylbenzene	12.99	119	391602	19.862	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	448698	20.102	ug/l	99
85) sec-Butylbenzene	13.17	105	529063	19.835	ug/l	99
86) p-Isopropyltoluene	13.29	119	457311	19.814	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	233111	19.588	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	218026	19.040	ug/l	98
89) n-Butylbenzene	13.62	91	350337	18.459	ug/l	99
90) Hexachloroethane	13.87	117	91049	19.799	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	231352	20.036	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	17889	19.788	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092318\
Quantitation Report (QT Reviewed)

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Quant Title : SW846 8260
QLast Update : Mon Sep 24 05:35:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	97142	19.719	ug/l	98
94) Hexachlorobutadiene	15.01	225	86024	19.690	ug/l	98
95) Naphthalene	15.13	128	163407	19.498	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	98509	17.777	ug/l	100

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

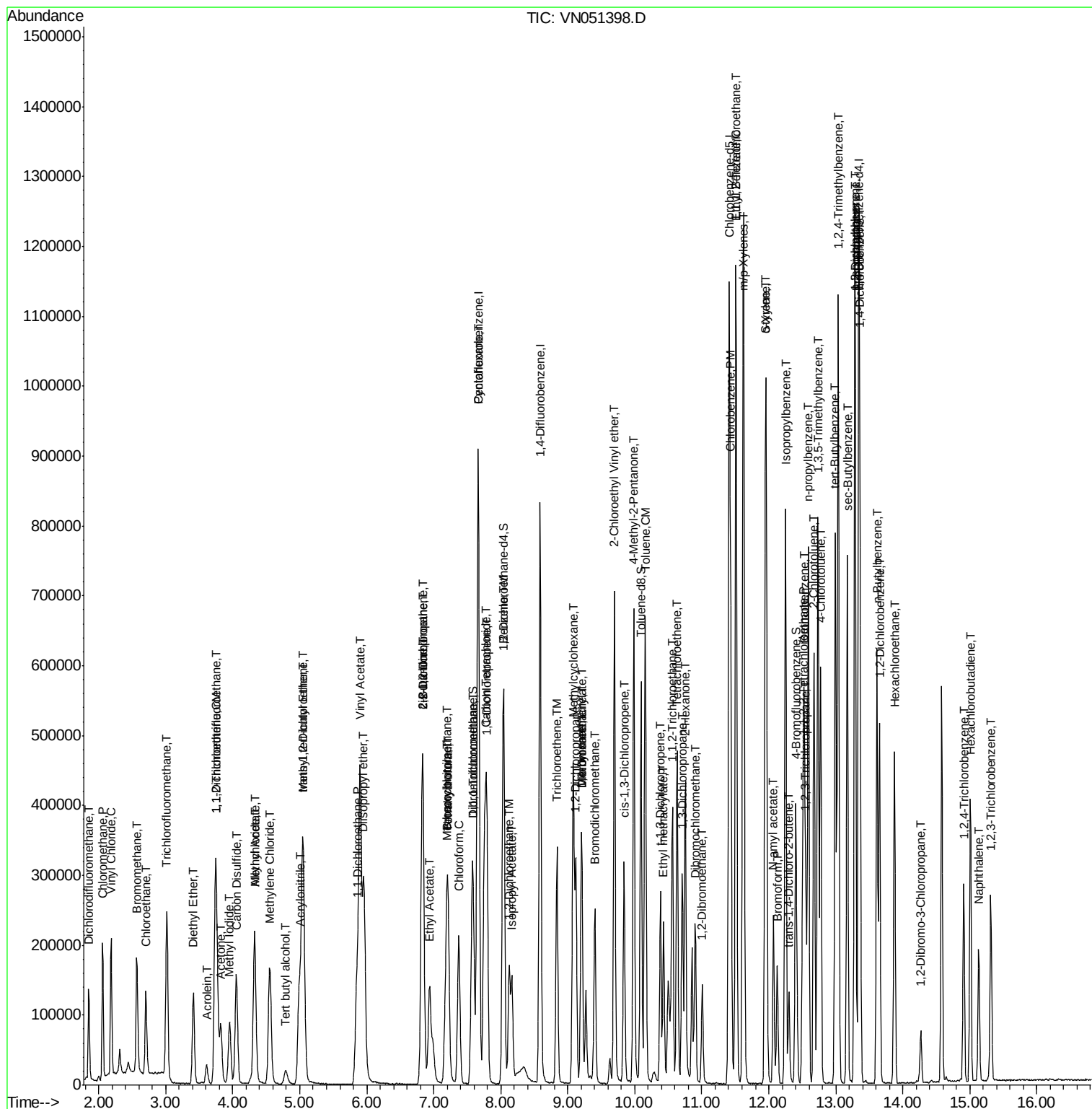
Data File : VN051398.D
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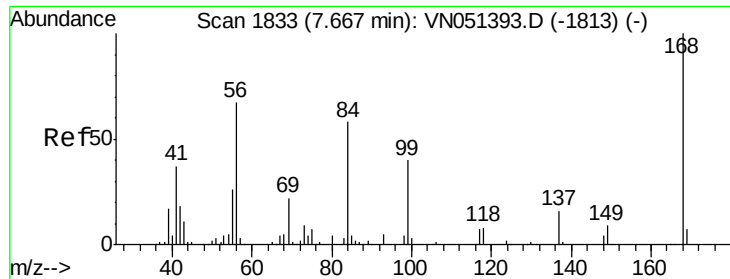
Instrument :
MSVOA_N
Client Sampled :
VSTDIC020

Manual Integrations
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MMDadoda
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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:168 Resp: 538079

Ion Ratio Lower Upper

168 100

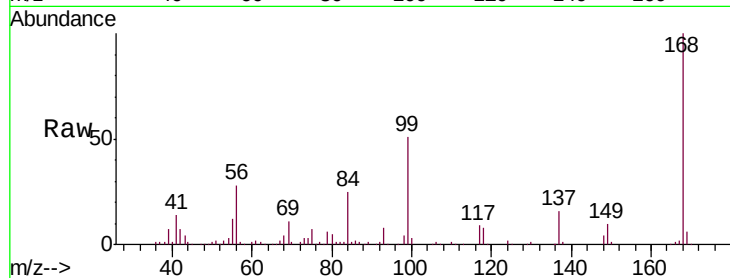
99 50.8 40.2 60.2

Manual Integrations

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9/24/2018 2:15:23 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

250000

200000

150000

100000

50000

0

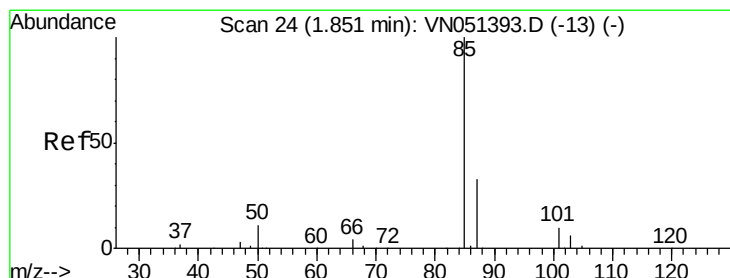
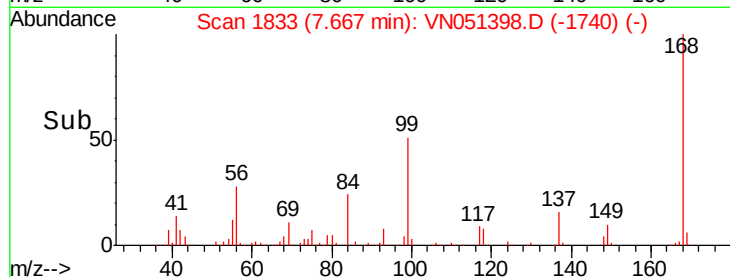
7.67

7.60

7.70

7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 19.475 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051398.D

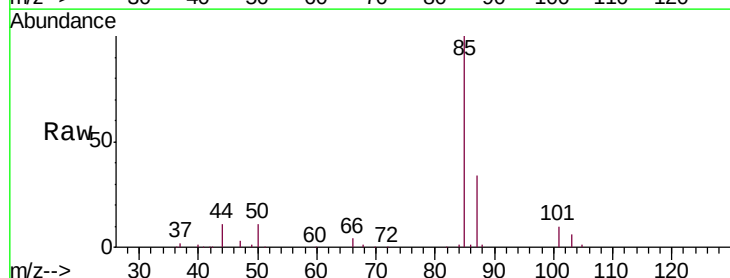
Acq: 22 Sep 2018 15:32

Tgt Ion: 85 Resp: 97766

Ion Ratio Lower Upper

85 100

87 34.4 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

80000

60000

40000

20000

0

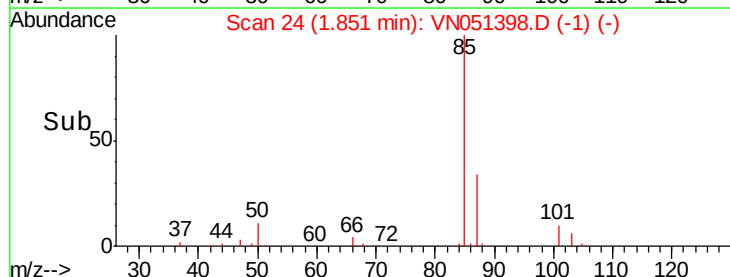
1.85

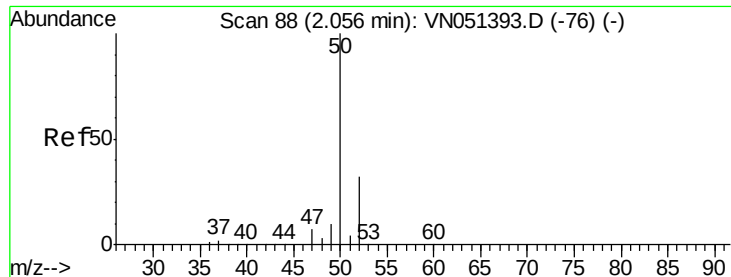
1.80

1.90

1.95

Time-->





#3

Chloromethane

Concen: 19.958 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tgt Ion: 50 Resp: 159494

Ion Ratio Lower Upper

50 100

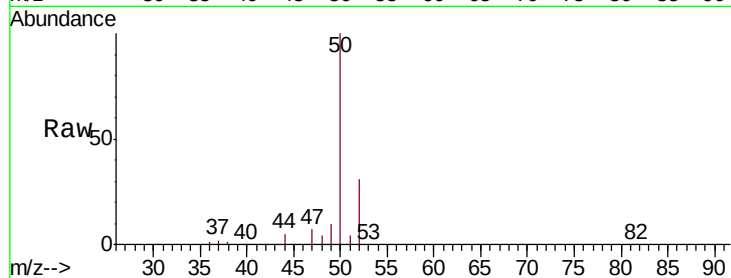
52 31.4 25.7 38.5

Manual Integrations

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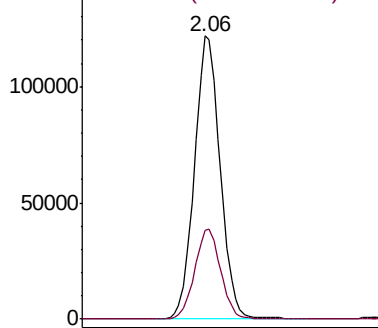
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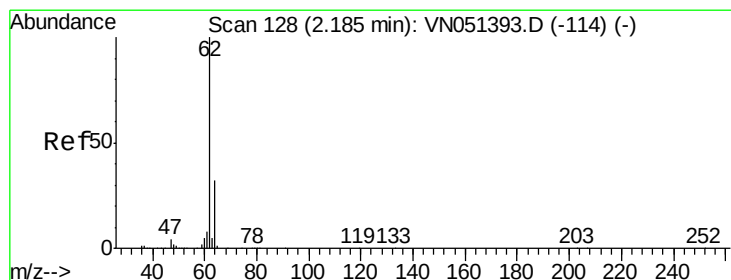
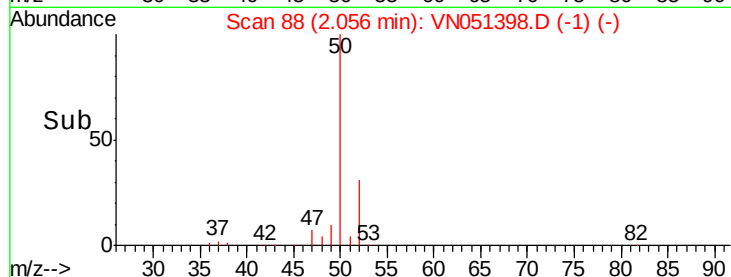


Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



Time-->



#4

Vinyl Chloride

Concen: 19.679 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051398.D

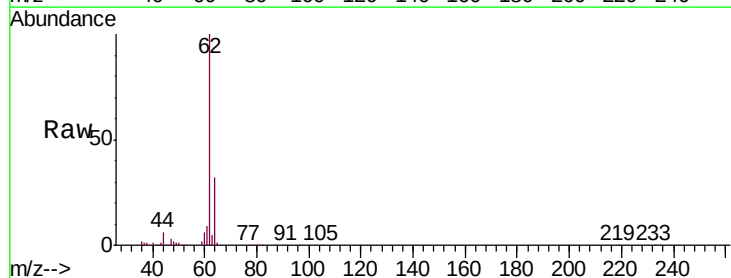
Acq: 22 Sep 2018 15:32

Tgt Ion: 62 Resp: 173572

Ion Ratio Lower Upper

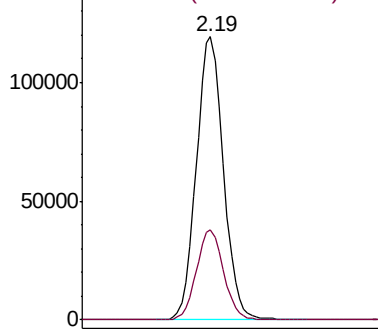
62 100

64 31.7 25.8 38.8

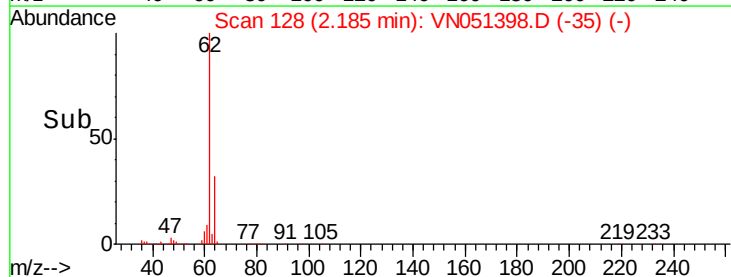


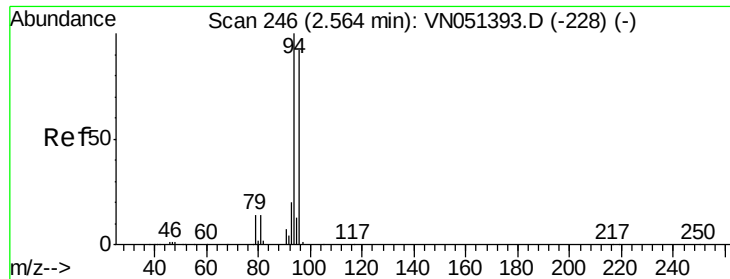
Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0



Time-->





#5

Bromomethane

Concen: 20.531 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

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Tgt Ion: 94 Resp: 108335

Ion Ratio Lower Upper

94 100

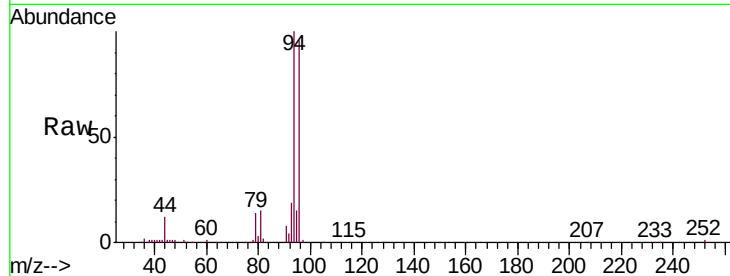
96 95.5 73.6 110.4

Manual Integrations

APPROVED

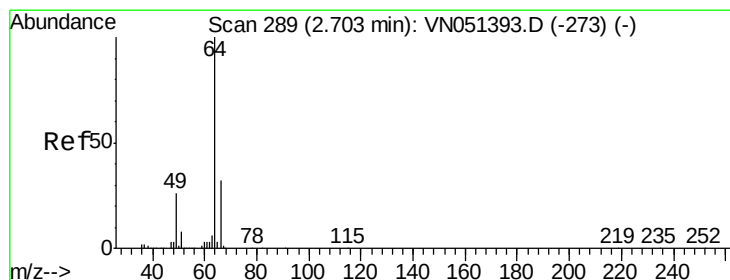
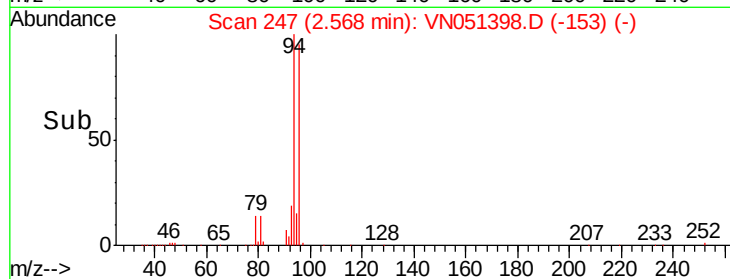
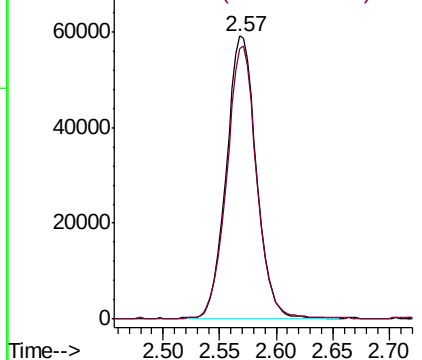
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.966 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051398.D

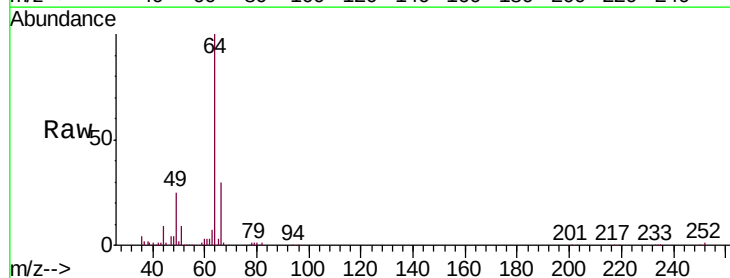
Acq: 22 Sep 2018 15:32

Tgt Ion: 64 Resp: 109729

Ion Ratio Lower Upper

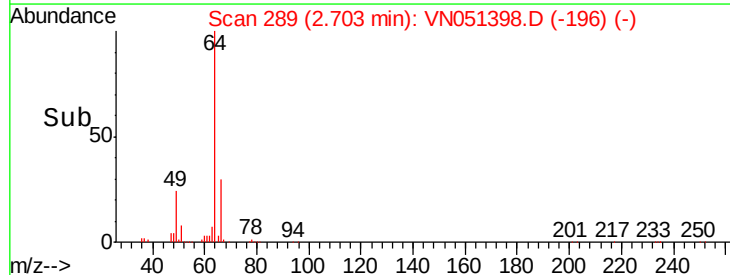
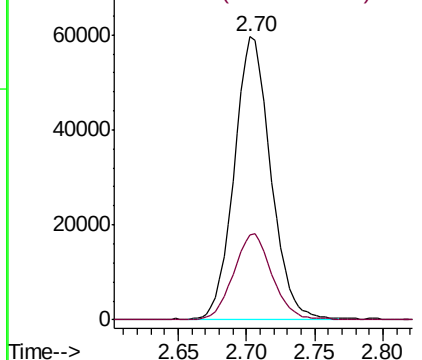
64 100

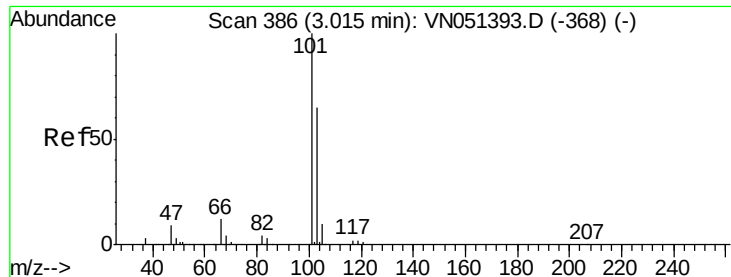
66 30.0 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

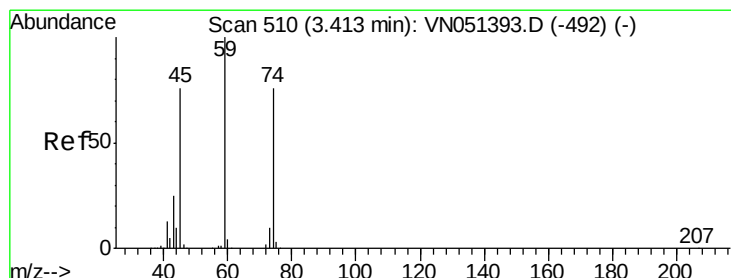
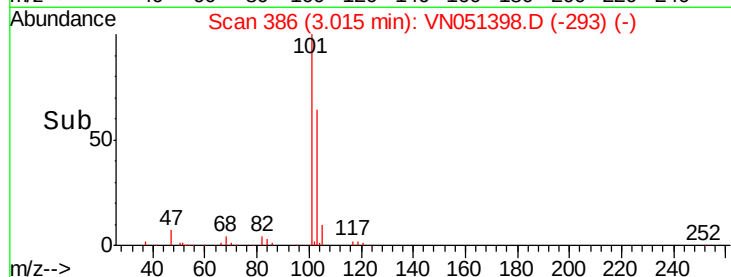
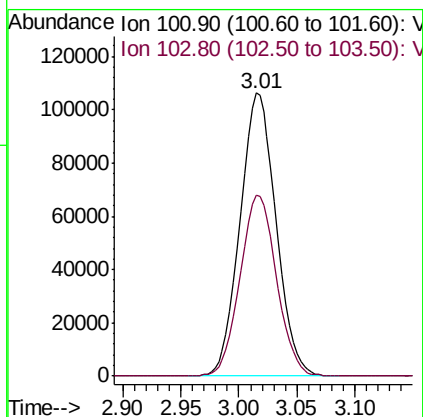
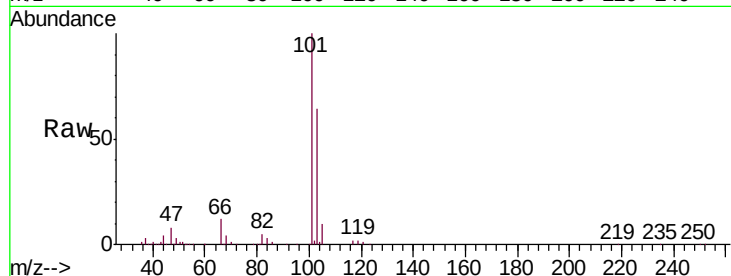
Trichlorofluoromethane
 Concen: 19.849 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.8	77.8

Manual Integrations
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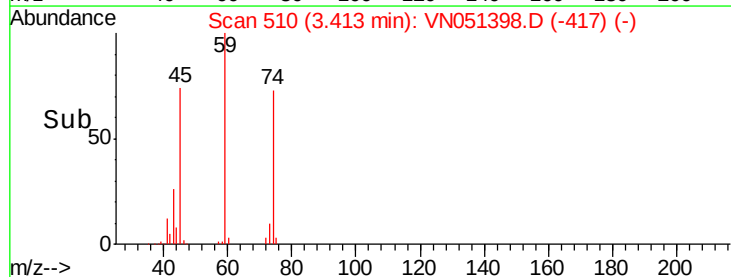
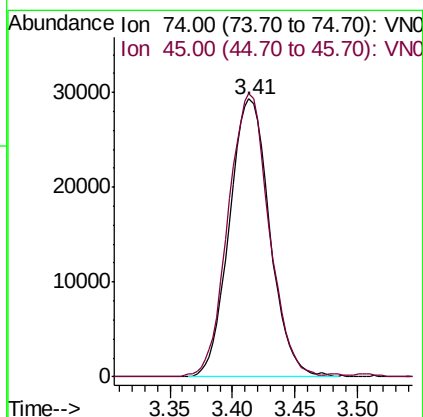
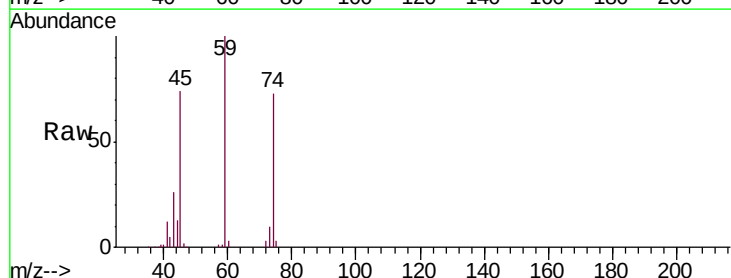
MMDadoda
 9/24/2018 2:15:23 PM

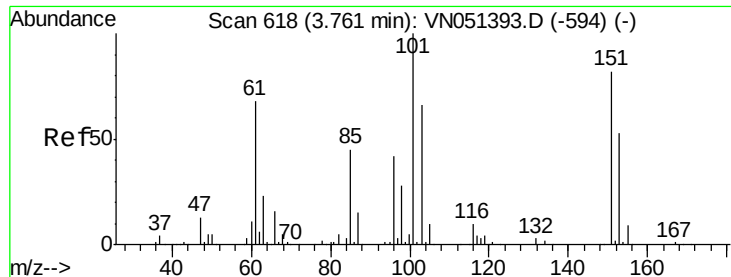


#8

Diethyl Ether
 Concen: 16.235 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Lower	Upper
74	100		
45	103.5	50.2	150.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.156 ug/l

RT: 3.76 min Scan# 617

Delta R.T. -0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

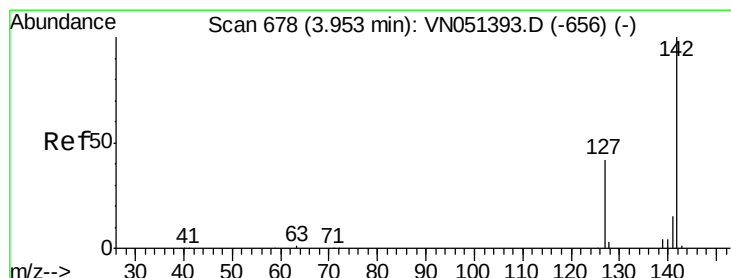
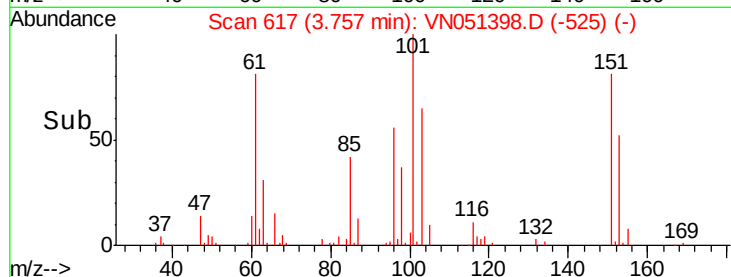
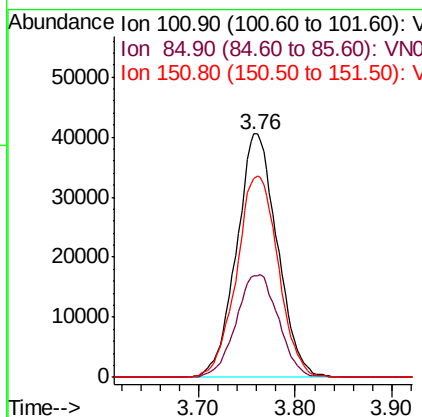
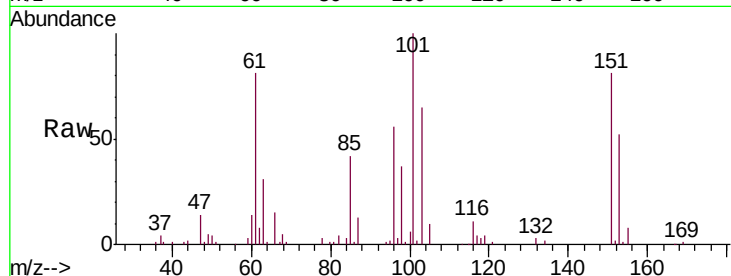
ClientSampleId :

VSTDIC020

Tgt Ion:	101	Resp:	118380
Ion Ratio	Lower	Upper	
101	100		
85	43.8	33.9	50.9
151	84.4	65.2	97.8

Manual Integrations
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#10

Methyl Iodide

Concen: 16.687 ug/l

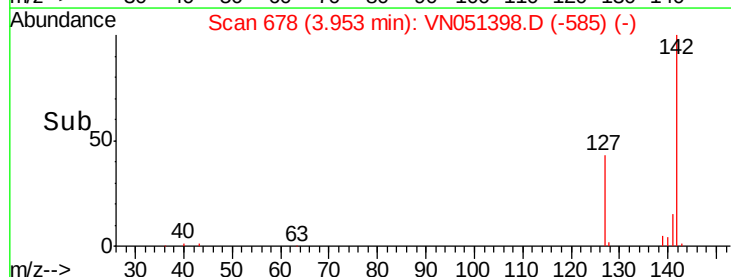
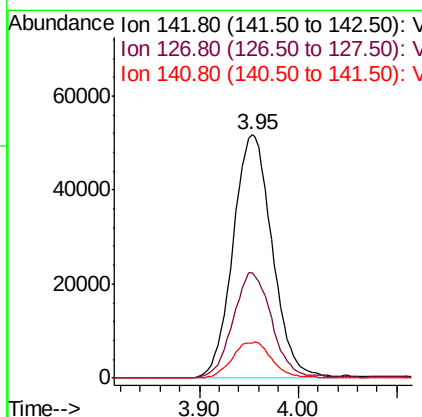
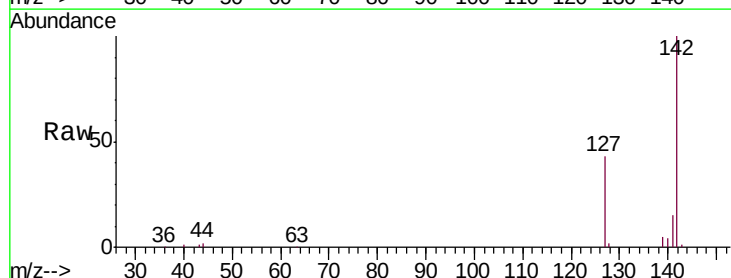
RT: 3.95 min Scan# 678

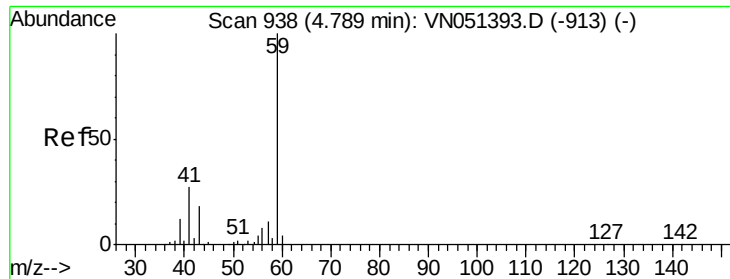
Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Tgt Ion:	142	Resp:	142930
Ion Ratio	Lower	Upper	
142	100		
127	43.0	33.2	49.8
141	14.8	11.5	17.3





#11

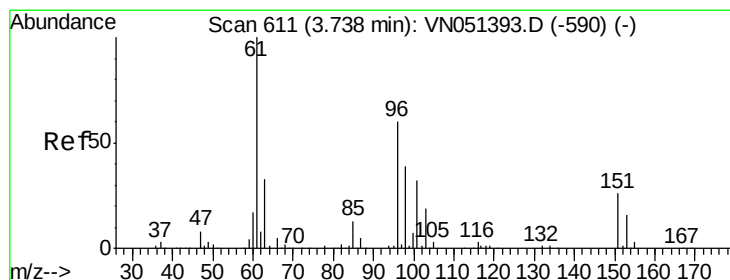
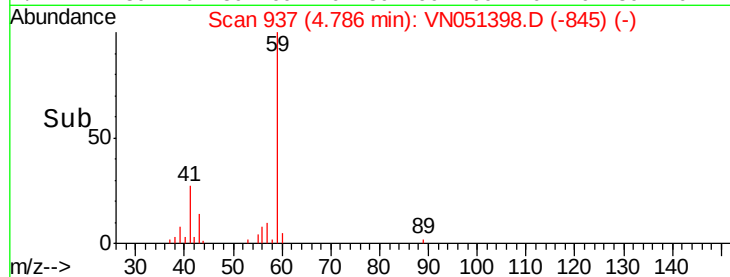
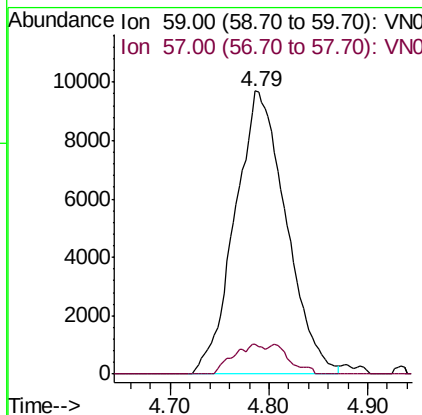
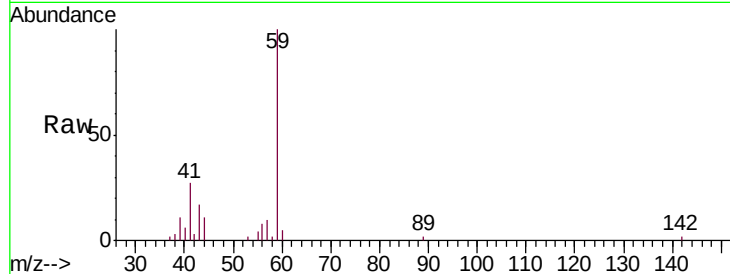
Tert butyl alcohol
Concen: 91.711 ug/l
RT: 4.79 min Scan# 937
Delta R.T. -0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 59 Resp: 34844
Ion Ratio Lower Upper
59 100
57 6.4 6.2 9.2

Manual Integrations
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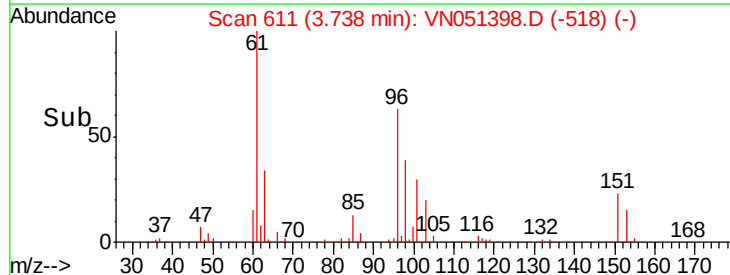
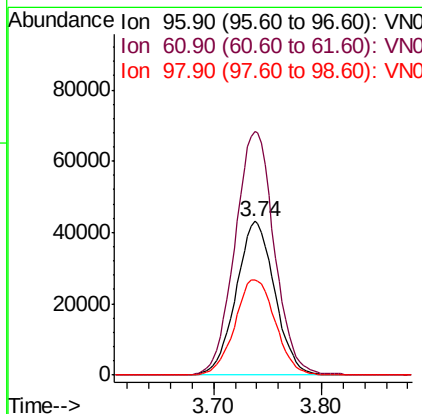
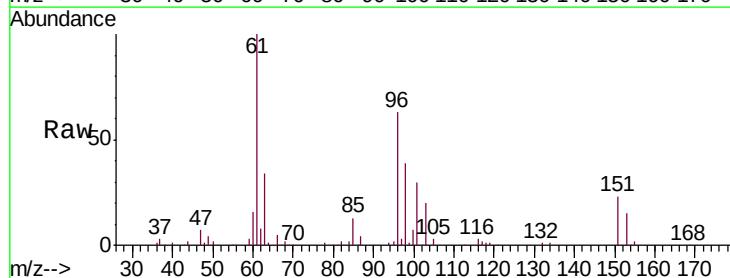
MMDadoda
9/24/2018 2:15:23 PM

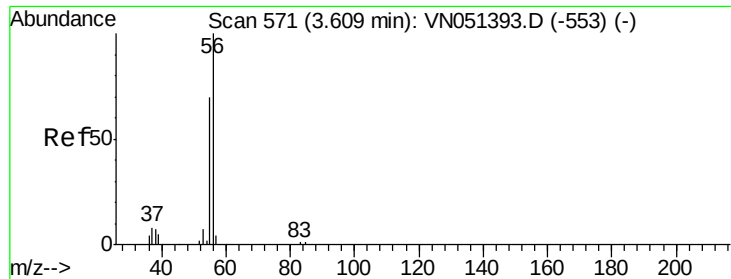


#12

1,1-Dichloroethene
Concen: 17.913 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion: 96 Resp: 107243
Ion Ratio Lower Upper
96 100
61 158.5 133.6 200.4
98 61.9 52.2 78.2





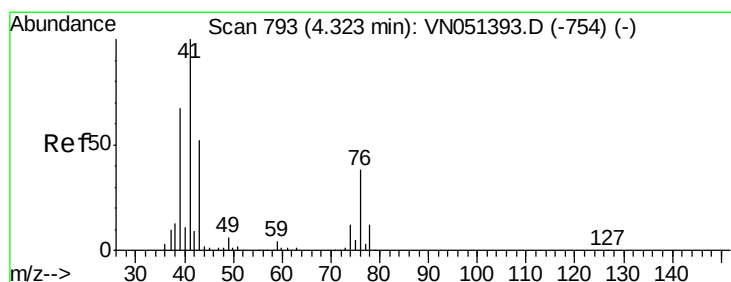
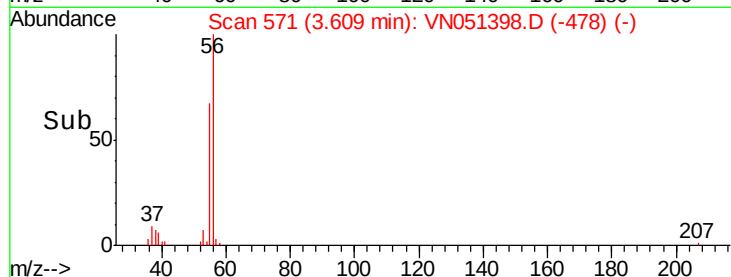
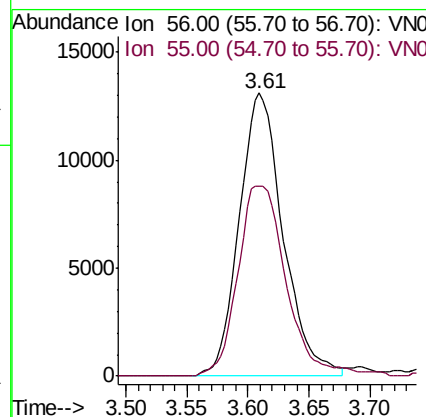
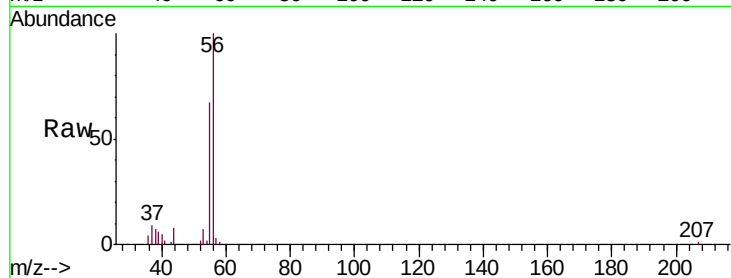
#13
Acrolein
Concen: 86.377 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
56	100		
55	72.5	57.8	86.8

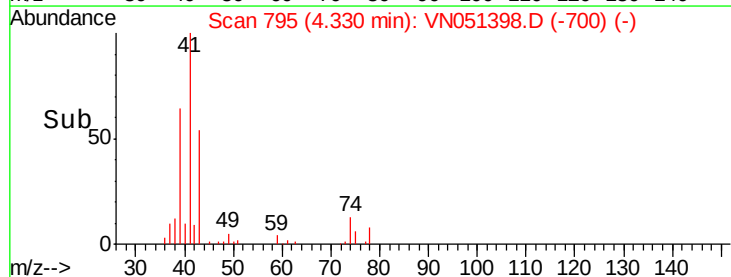
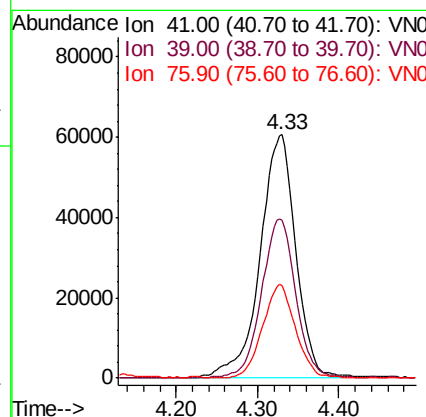
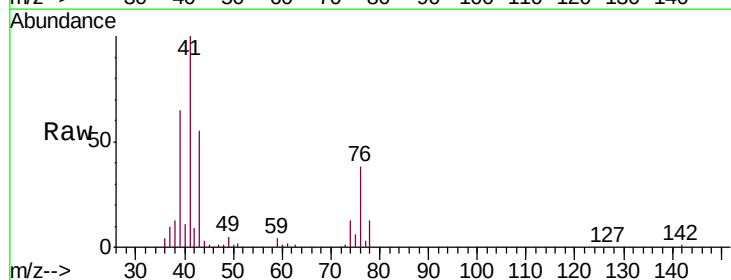
Manual Integrations
APPROVED

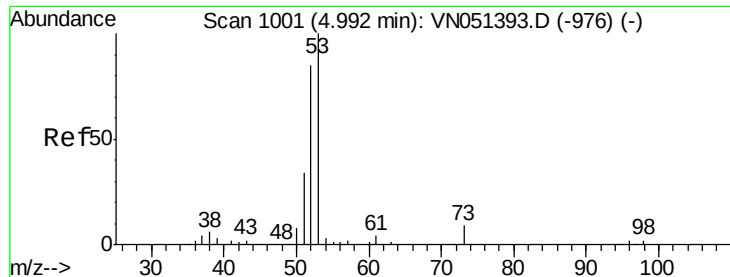
MMDadoda
9/24/2018 2:15:23 PM



#14
Allyl chloride
Concen: 18.398 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Lower	Upper
41	100		
39	63.0	51.4	77.2
76	35.6	28.1	42.1





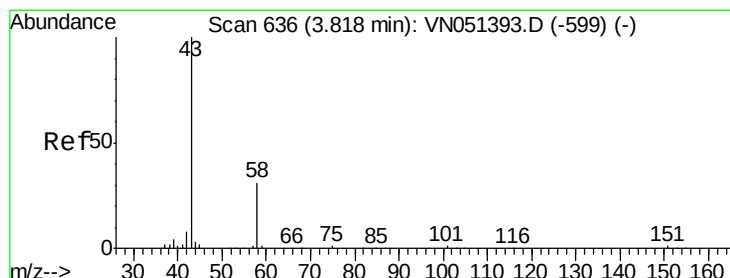
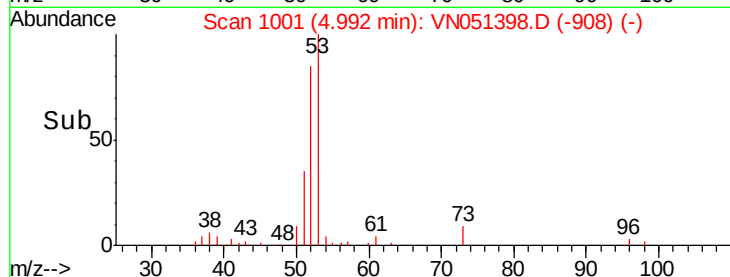
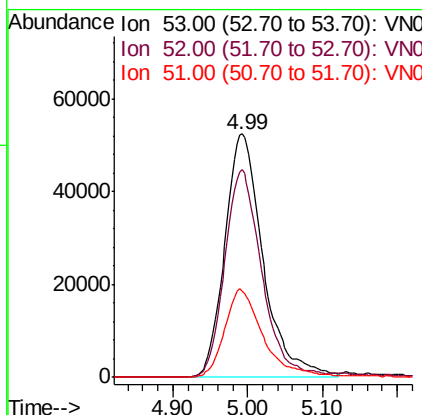
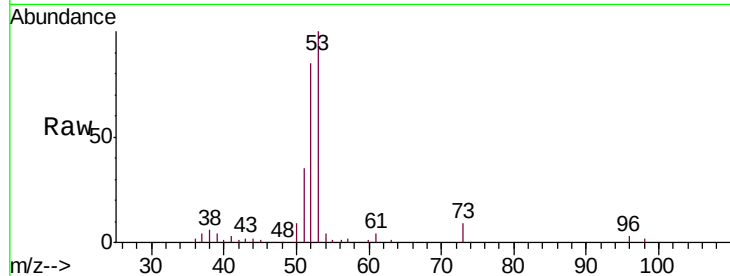
#15
 Acrylonitrile
 Concen: 90.048 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
53	100		
52	82.4	66.2	99.2
51	36.4	28.6	42.8

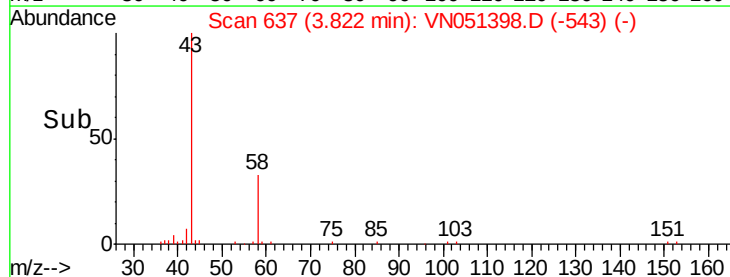
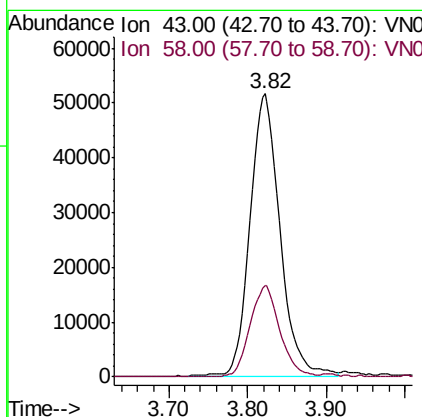
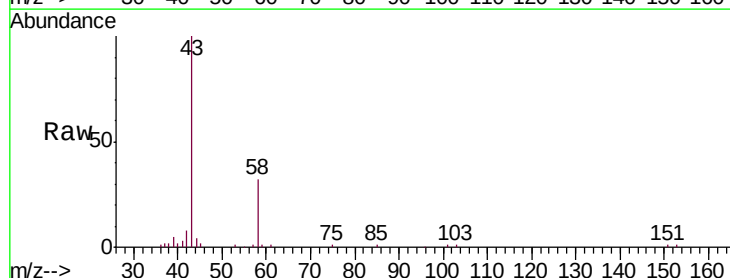
Manual Integrations
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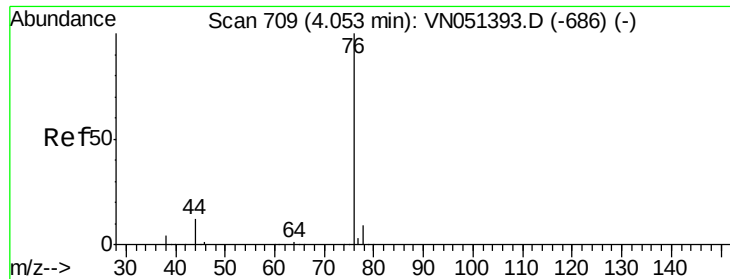
MMDadoda
 9/24/2018 2:15:23 PM



#16
 Acetone
 Concen: 77.816 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.5	25.0	37.4





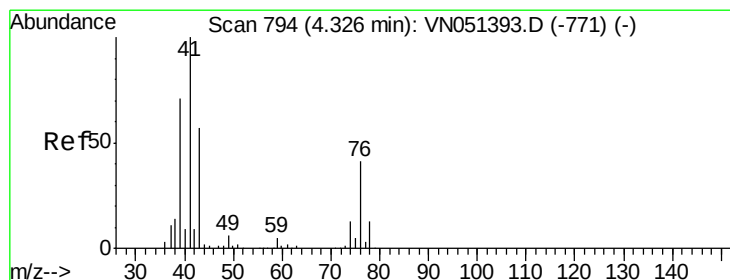
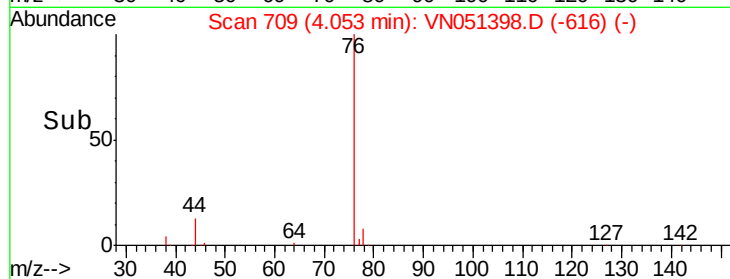
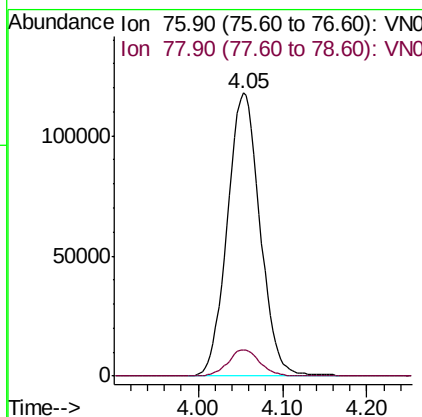
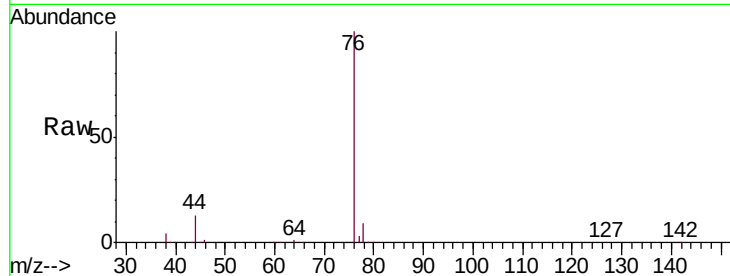
#17
Carbon Disulfide
Concen: 18.067 ug/l
RT: 4.05 min Scan# 709
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tgt Ion: 76 Resp: 317777
Ion Ratio Lower Upper
76 100
78 9.3 7.3 10.9

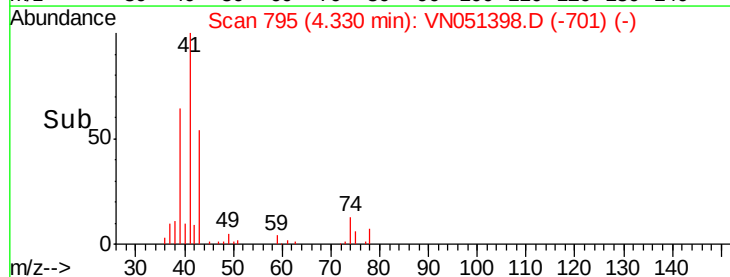
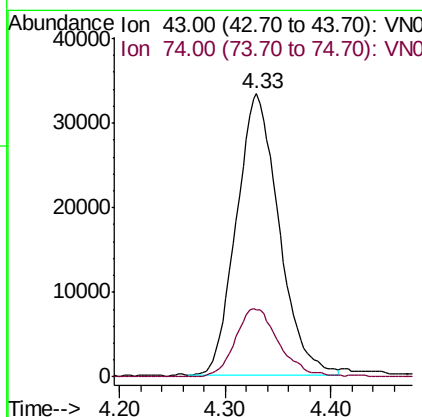
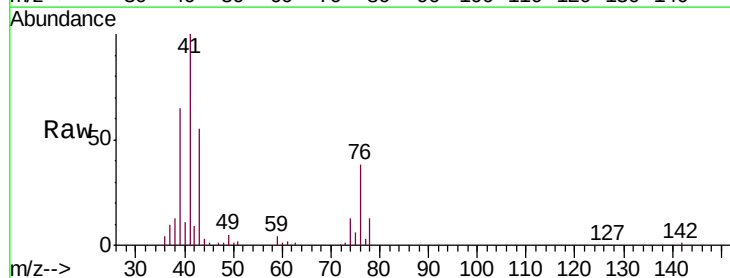
Manual Integrations
APPROVED

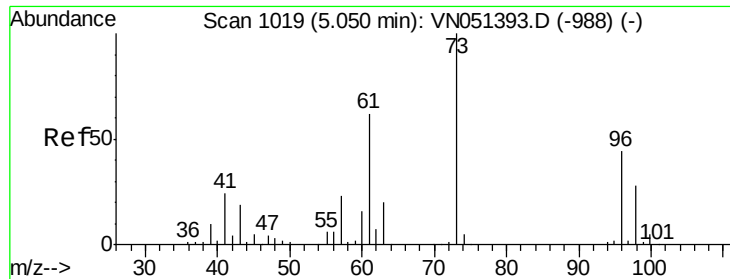
MMDadoda
9/24/2018 2:15:23 PM



#18
Methyl Acetate
Concen: 18.242 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion: 43 Resp: 93645
Ion Ratio Lower Upper
43 100
74 24.7 18.8 28.2





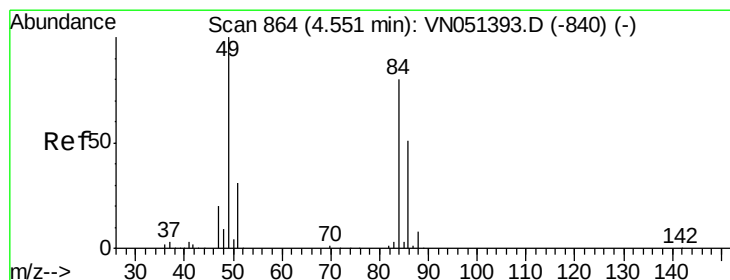
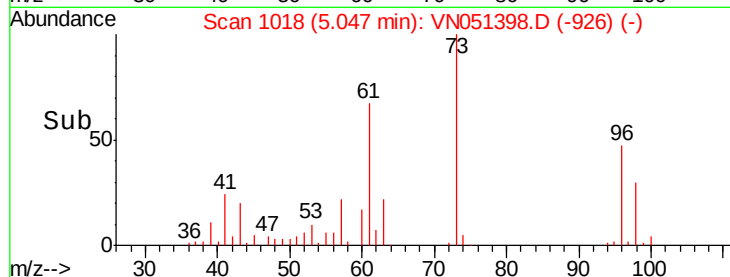
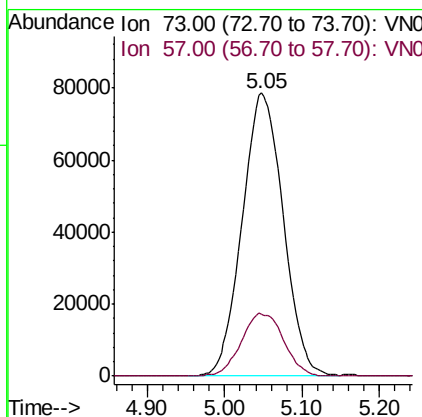
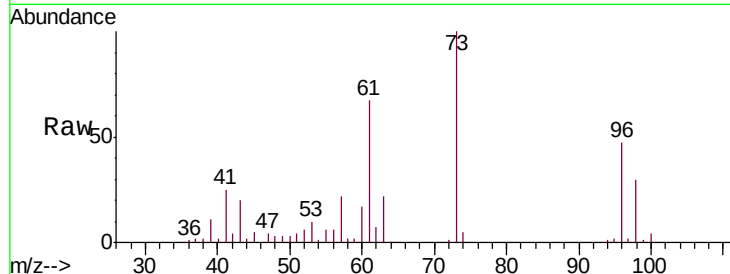
#19
Methyl tert-butyl Ether
Concen: 18.816 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tgt Ion: 73 Resp: 290486
Ion Ratio Lower Upper
73 100
57 22.0 18.3 27.5

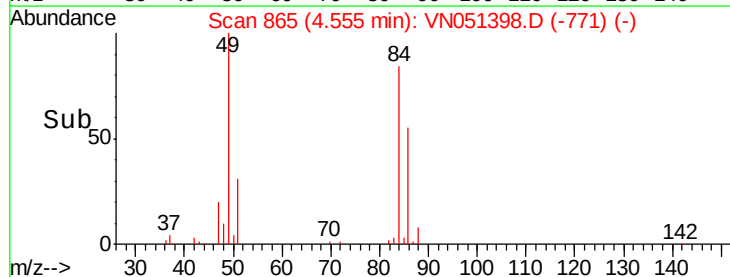
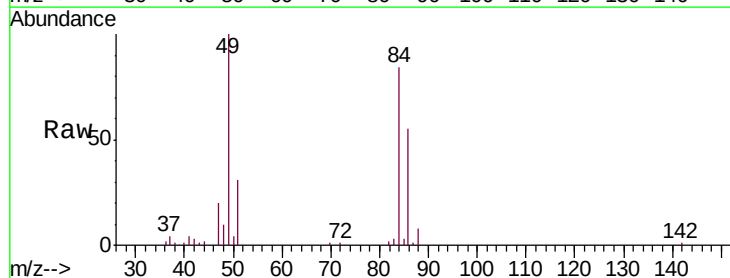
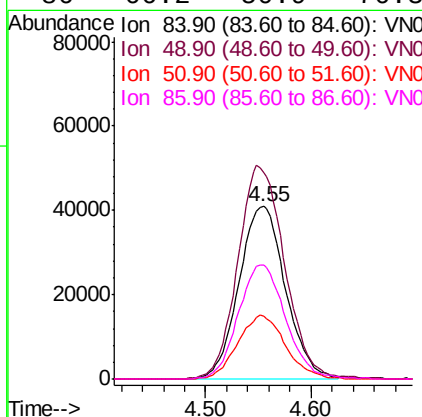
Manual Integrations
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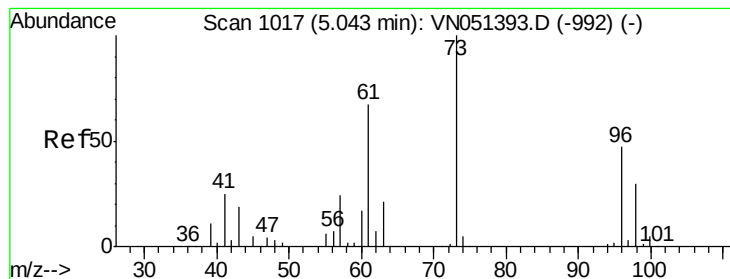
MMDadoda
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#20
Methylene Chloride
Concen: 18.818 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion: 84 Resp: 125512
Ion Ratio Lower Upper
84 100
49 119.1 99.9 149.9
51 36.5 31.4 47.2
86 66.2 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 18.972 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

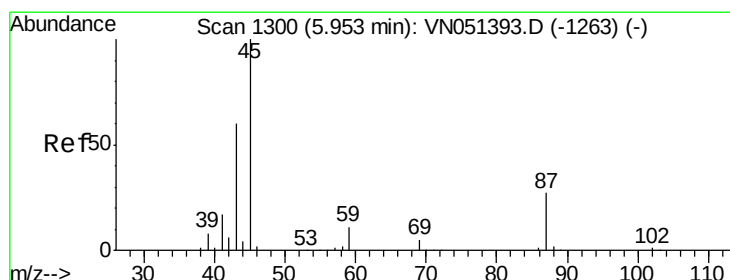
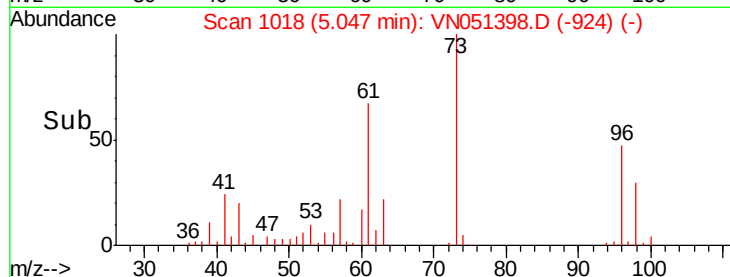
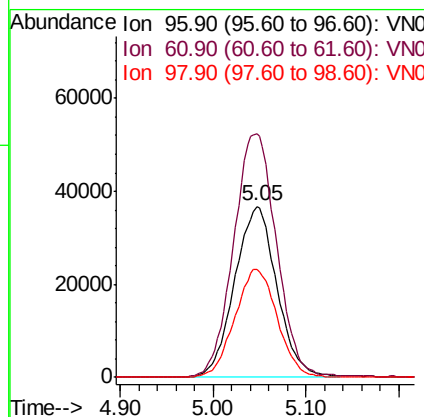
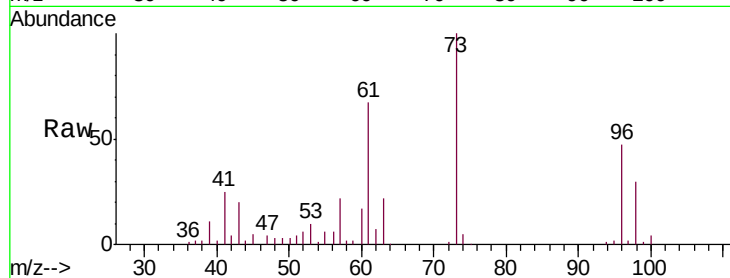
ClientSampleId :

VSTDIC020

Tgt Ion:	96	Resp:	116193
Ion	Ratio	Lower	Upper
96	100		
61	141.6	113.4	170.2
98	63.1	51.1	76.7

Manual Integrations
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#22

Diisopropyl ether

Concen: 19.968 ug/l

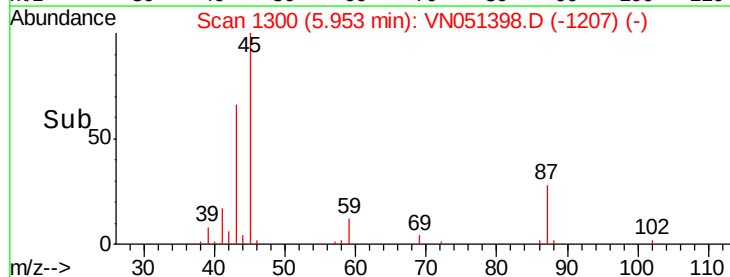
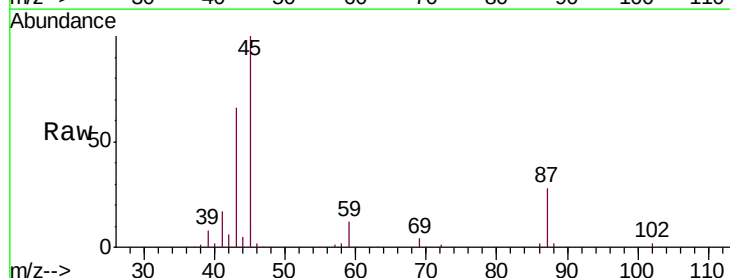
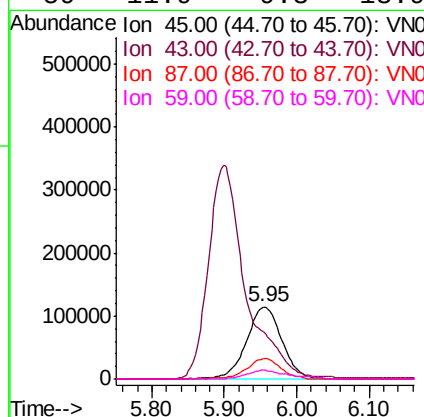
RT: 5.95 min Scan# 1300

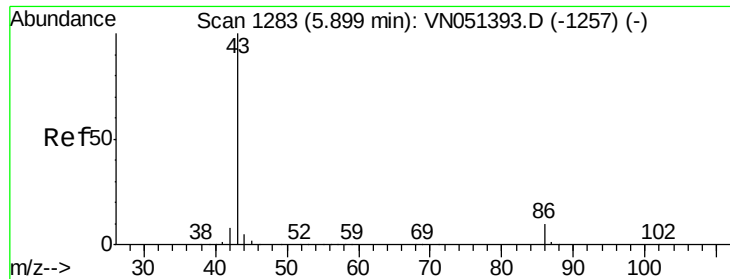
Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Tgt Ion:	45	Resp:	387697
Ion	Ratio	Lower	Upper
45	100		
43	64.0	47.7	71.5
87	27.5	22.0	33.0
59	11.9	9.3	13.9





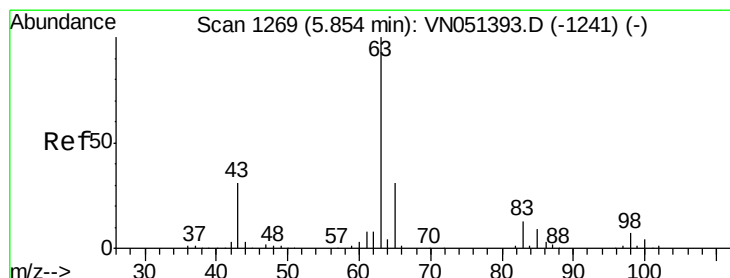
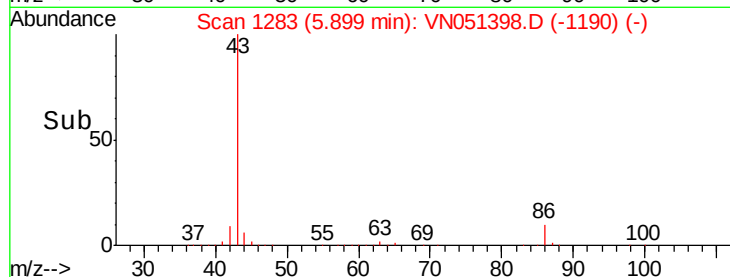
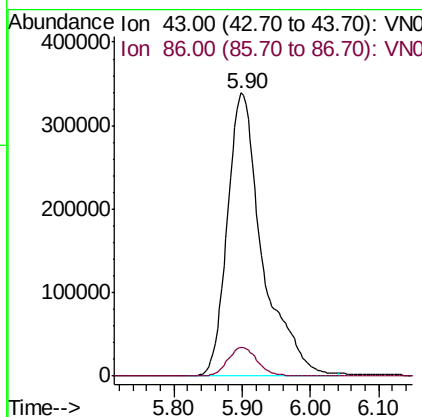
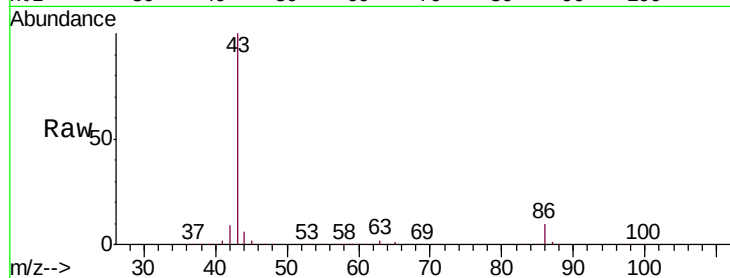
#23
 Vinyl Acetate
 Concen: 95.051 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion: 43 Resp: 1211597
 Ion Ratio Lower Upper
 43 100
 86 10.2 8.2 12.2

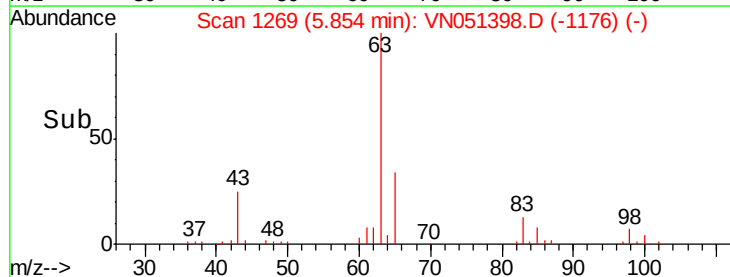
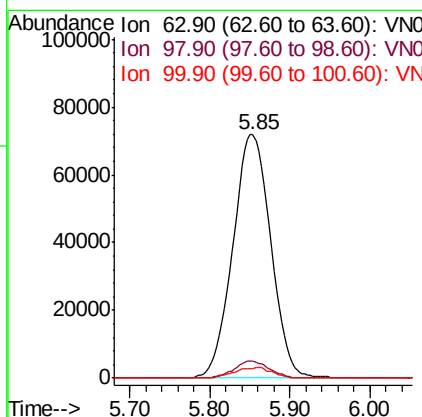
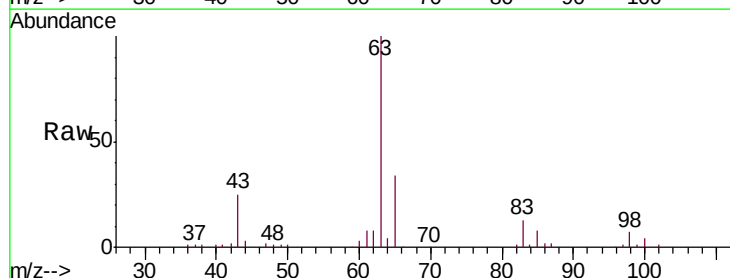
Manual Integrations
 APPROVED

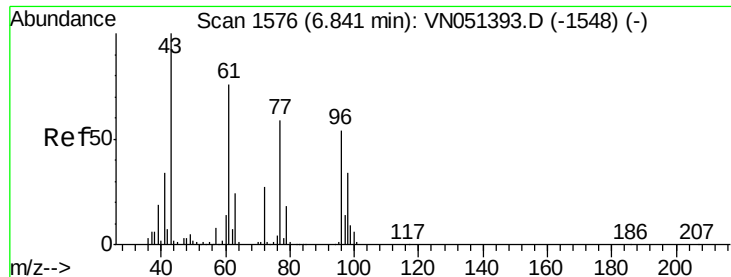
MMDadoda
 9/24/2018 2:15:23 PM



#24
 1,1-Dichloroethane
 Concen: 19.949 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Tgt Ion: 63 Resp: 231104
 Ion Ratio Lower Upper
 63 100
 98 6.9 3.4 10.1
 100 3.8 2.2 6.6





#25

2-Butanone

Concen: 91.176 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 210350

Ion Ratio Lower Upper

43 100

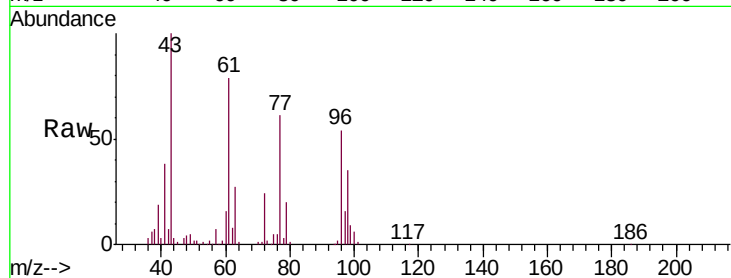
72 24.2 21.8 32.6

Manual Integrations

APPROVED

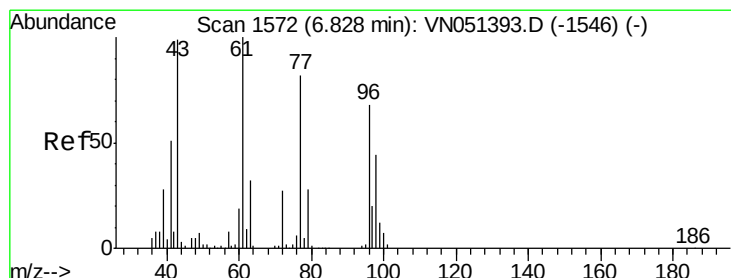
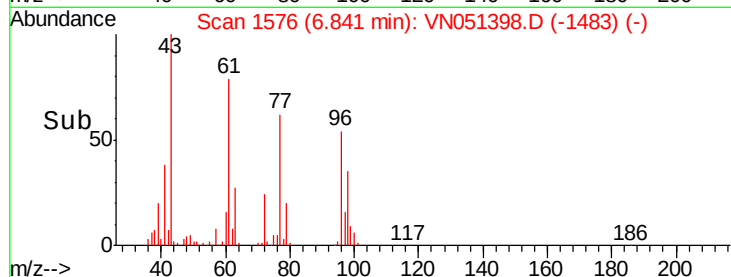
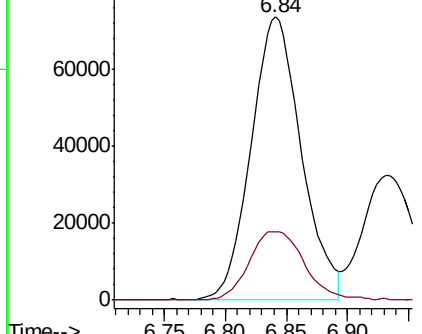
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 19.496 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN051398.D

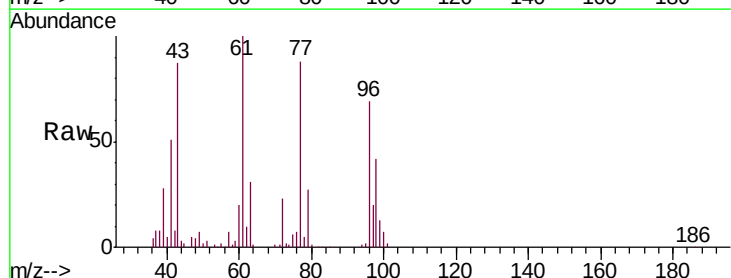
Acq: 22 Sep 2018 15:32

Tgt Ion: 77 Resp: 176303

Ion Ratio Lower Upper

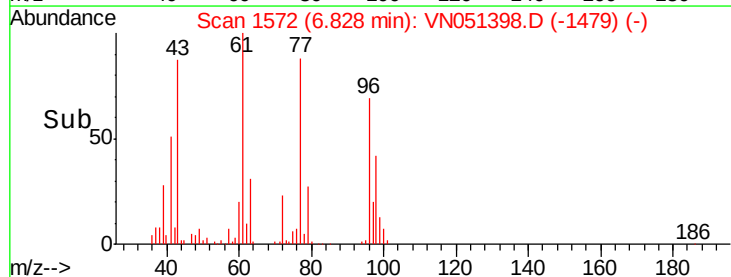
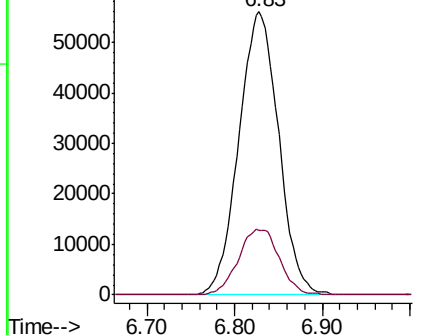
77 100

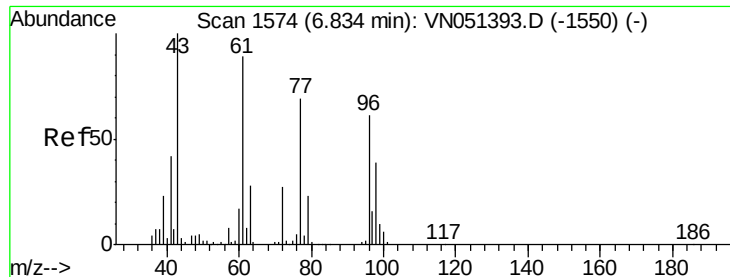
97 24.0 11.9 35.5



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 19.321 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tgt Ion: 96 Resp: 129833

Ion Ratio Lower Upper

96 100

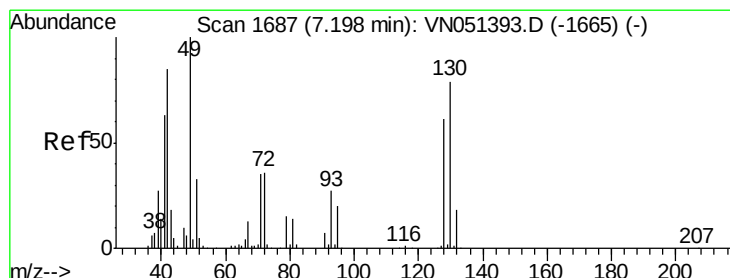
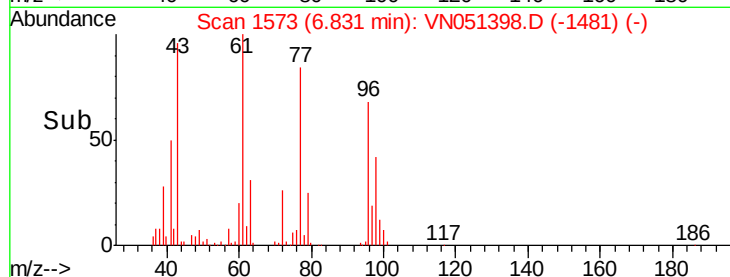
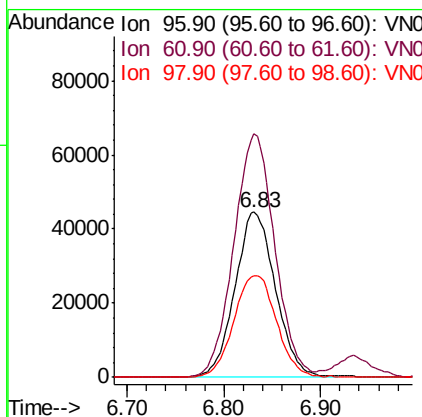
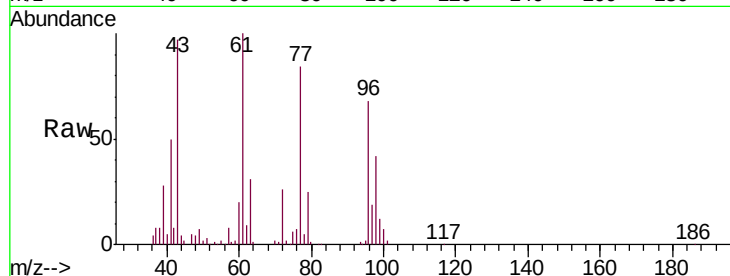
61 148.8 0.0 291.4

98 64.7 0.0 128.4

Manual Integrations
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#28

Bromochloromethane

Concen: 19.841 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

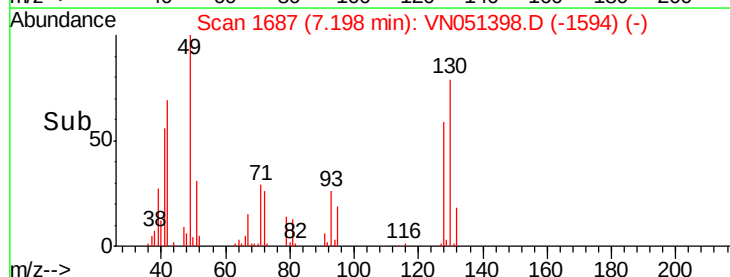
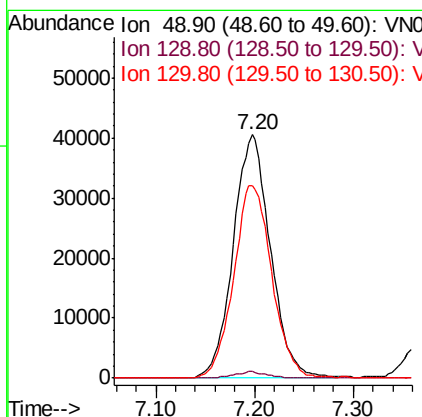
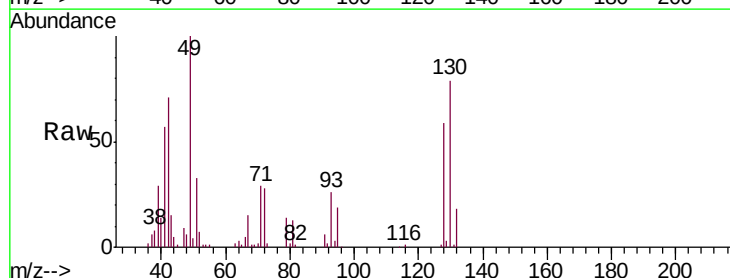
Tgt Ion: 49 Resp: 106144

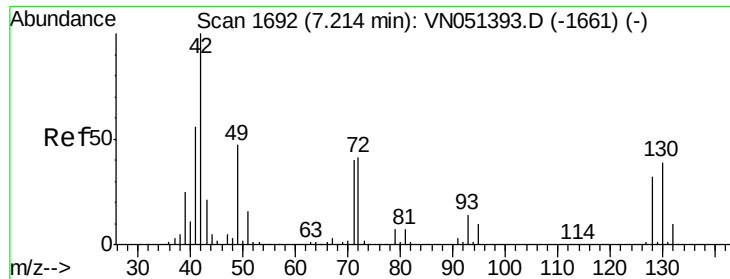
Ion Ratio Lower Upper

49 100

129 2.2 0.0 3.8

130 81.0 63.0 94.4





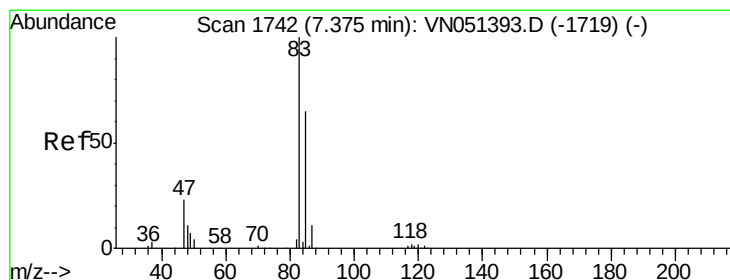
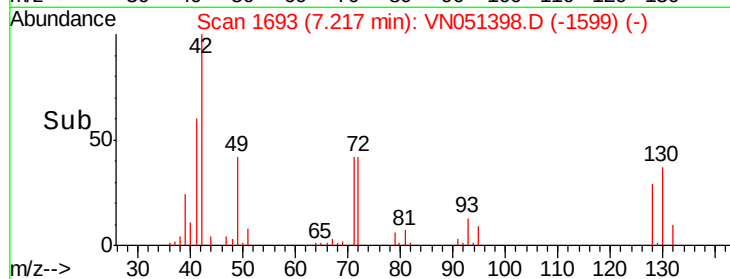
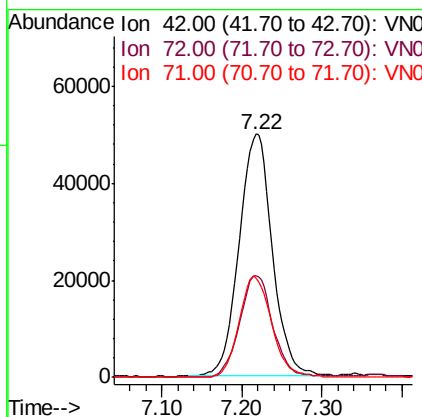
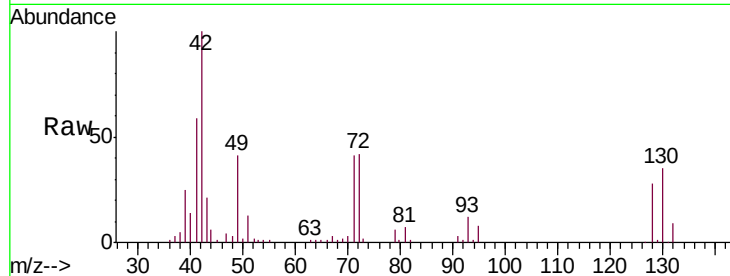
#29
Tetrahydrofuran
Concen: 96.326 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.3	51.5
71	40.3	32.2	48.4

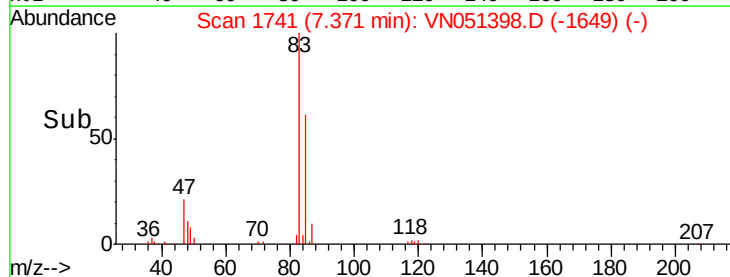
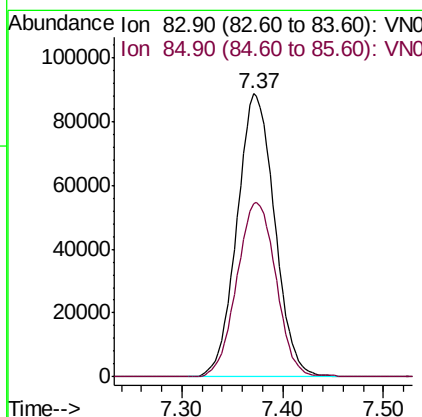
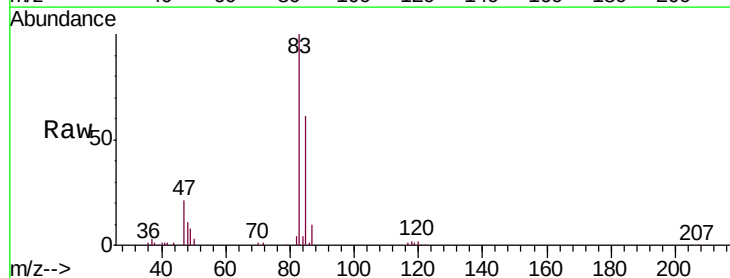
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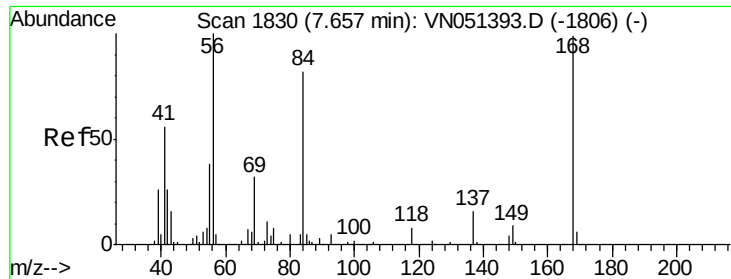
MMDadoda
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#30
Chloroform
Concen: 19.958 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.1	51.8	77.6





#31

Cyclohexane

Concen: 19.332 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

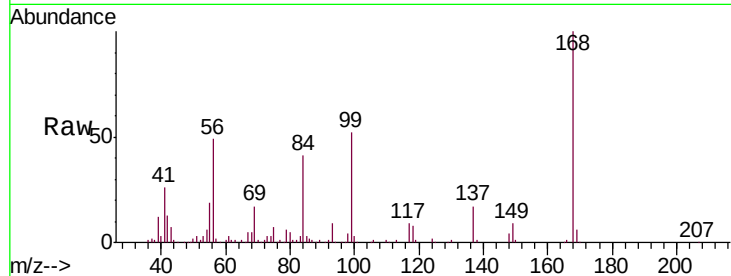
ClientSampleId :

VSTDIC020

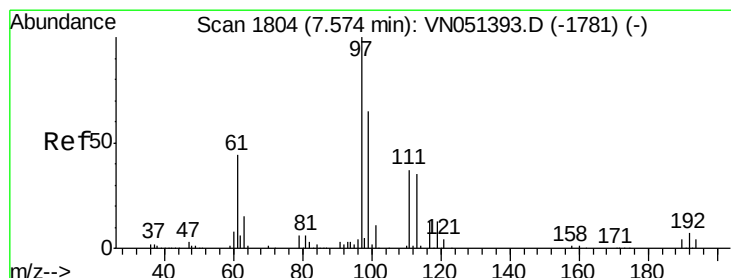
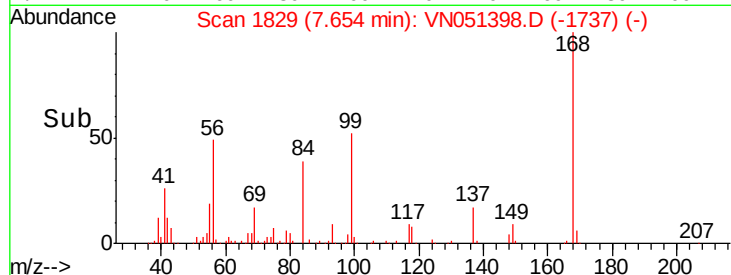
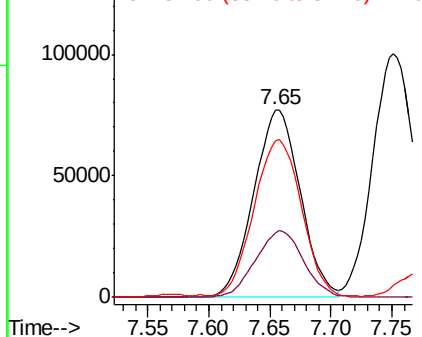
Tgt Ion	Ratio	Lower	Upper
56	100		
69	34.4	25.8	38.6
84	82.7	66.0	99.0

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



#32

1,1,1-Trichloroethane

Concen: 19.864 ug/l

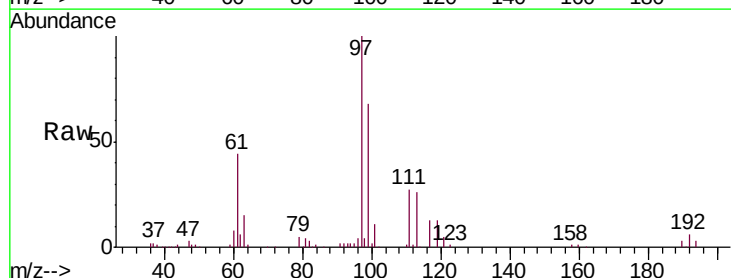
RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

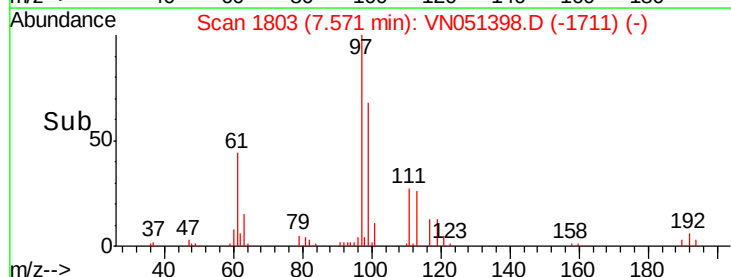
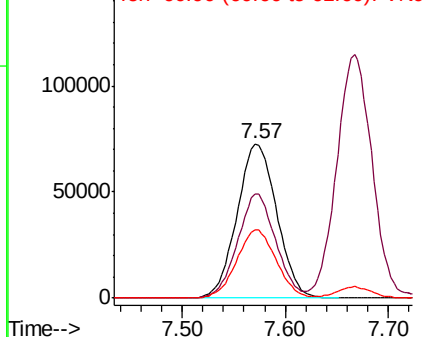
Lab File: VN051398.D

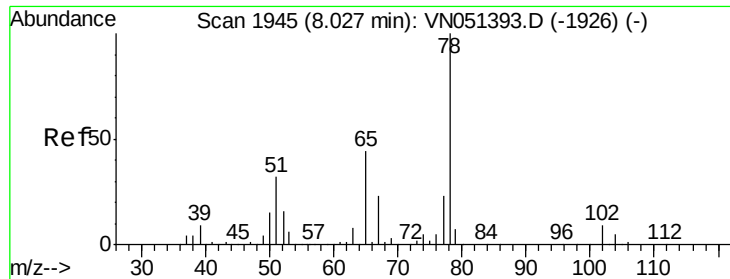
Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.4	77.0
61	44.1	35.8	53.8



Abundance Ion 96.90 (96.60 to 97.60): VNC
Ion 98.90 (98.60 to 99.60): VNC
Ion 60.90 (60.60 to 61.60): VNC





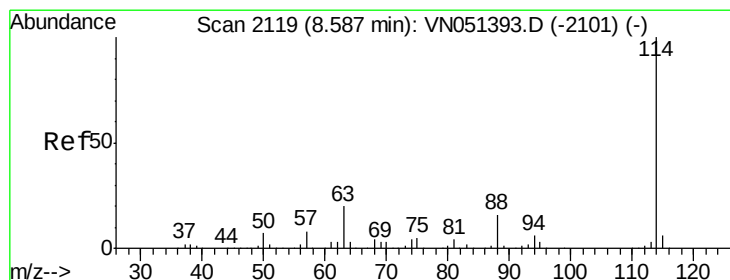
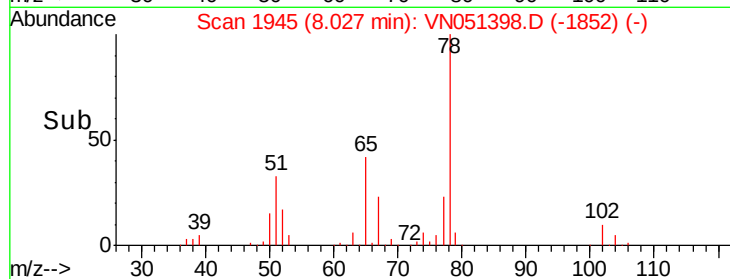
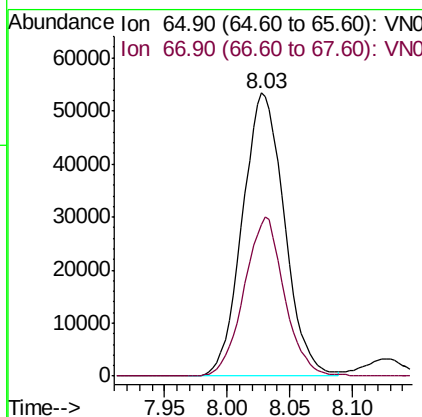
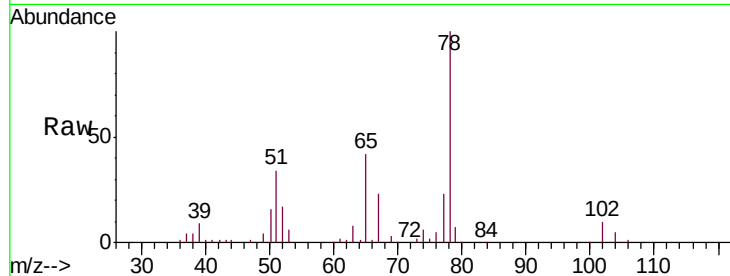
#33
 1,2-Dichloroethane-d4
 Concen: 18.464 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion: 65 Resp: 124455
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 107.8

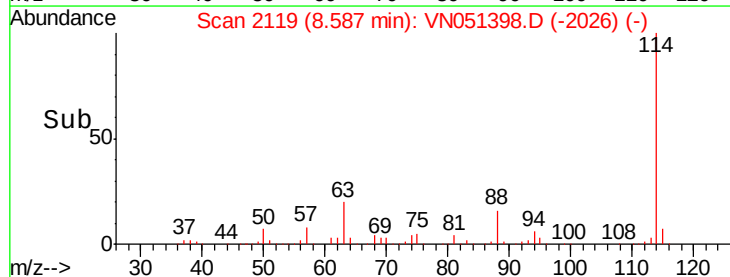
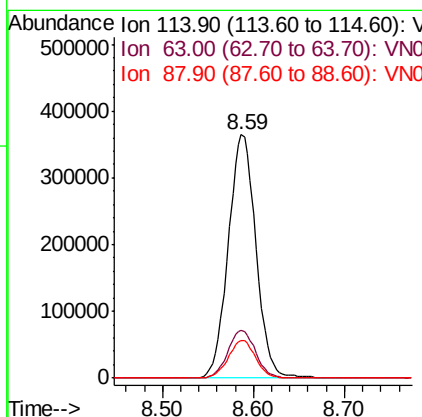
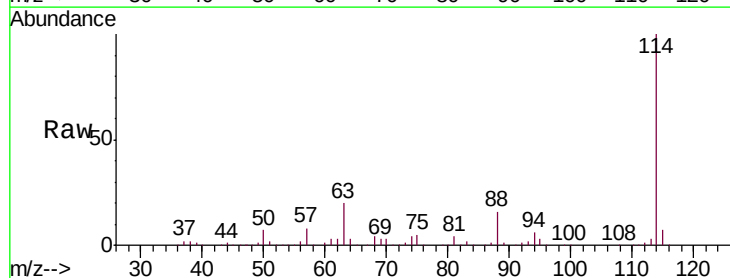
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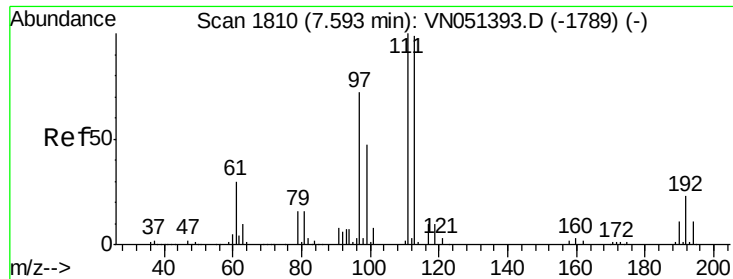
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Tgt Ion: 114 Resp: 770678
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.2
 88 15.6 0.0 31.4





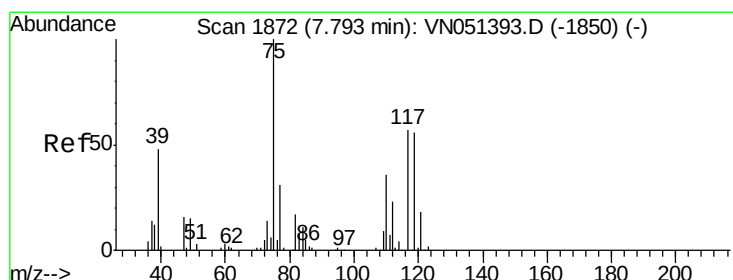
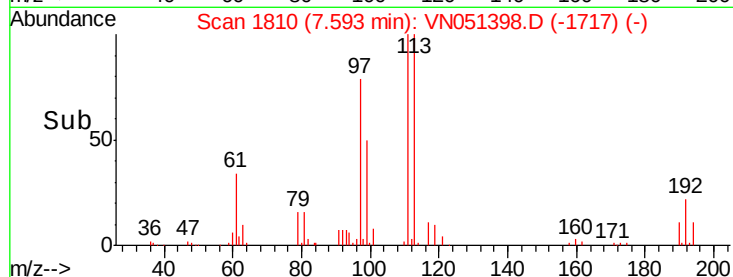
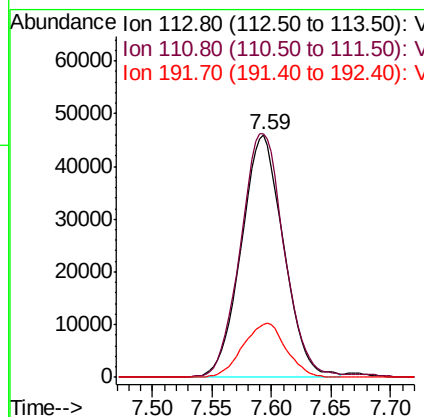
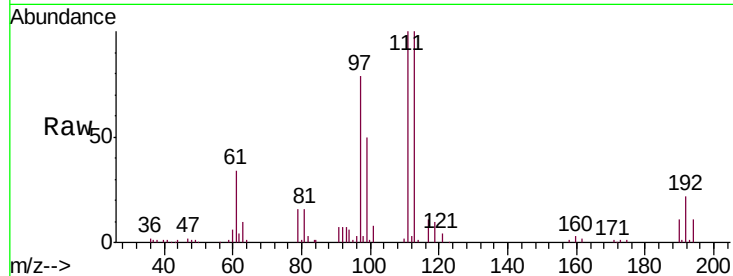
#35
 Dibromofluoromethane
 Concen: 18.387 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	113316		
111	103.8	82.6	123.8	
192	22.7	18.0	27.0	

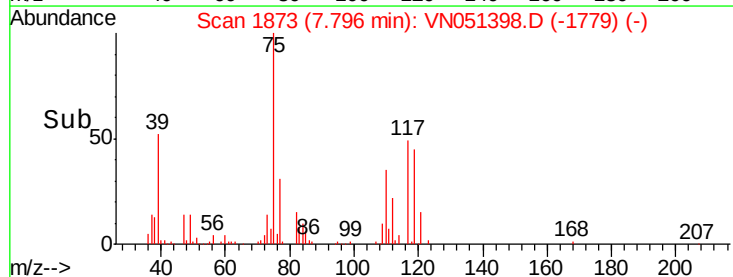
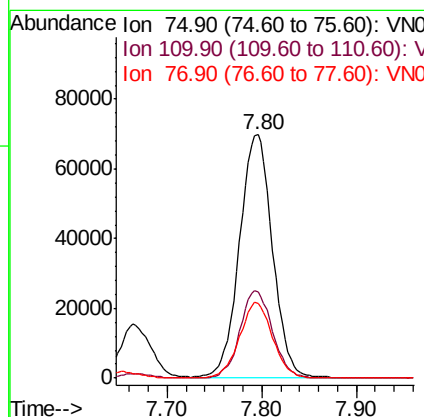
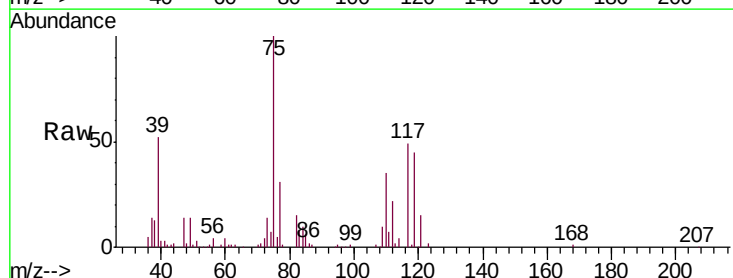
Manual Integrations
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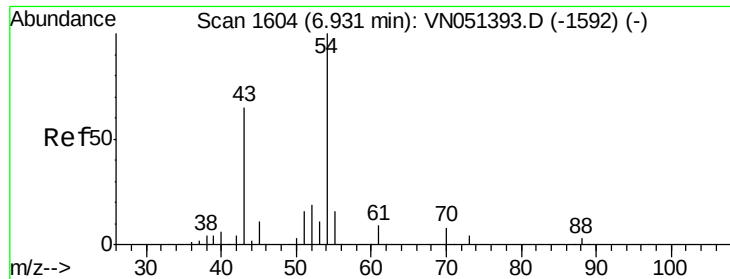
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 18.889 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	168576		
110	35.4	18.1	54.3	
77	31.2	25.6	38.4	





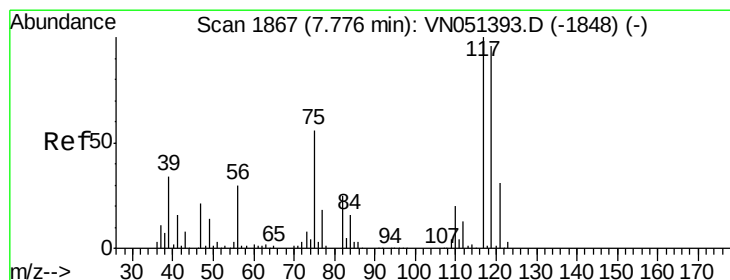
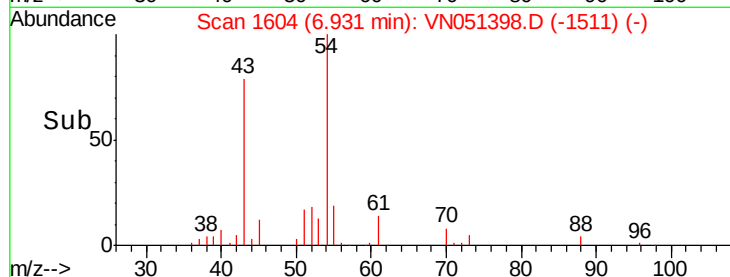
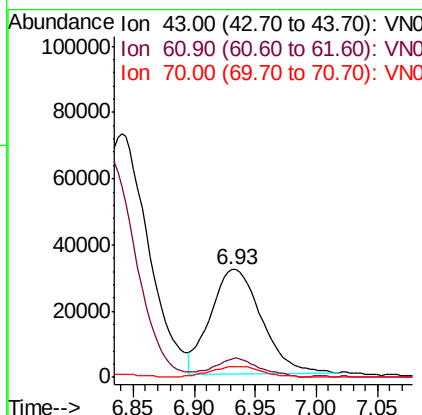
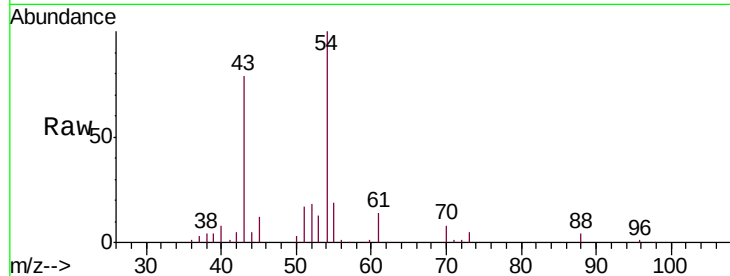
#37
Ethyl Acetate
Concen: 18.017 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.2	11.5	17.3
70	11.0	7.9	11.9

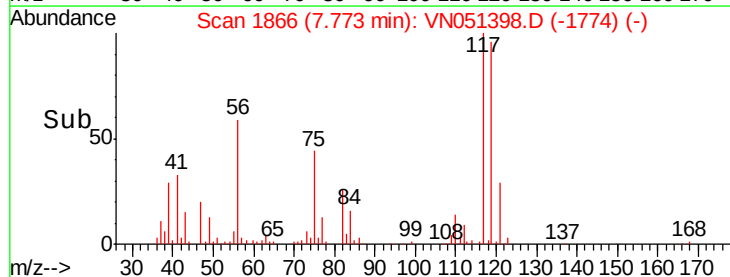
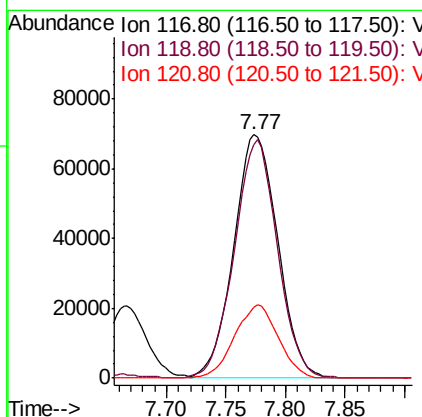
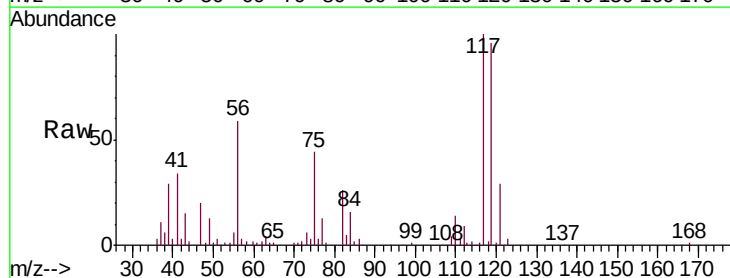
Manual Integrations
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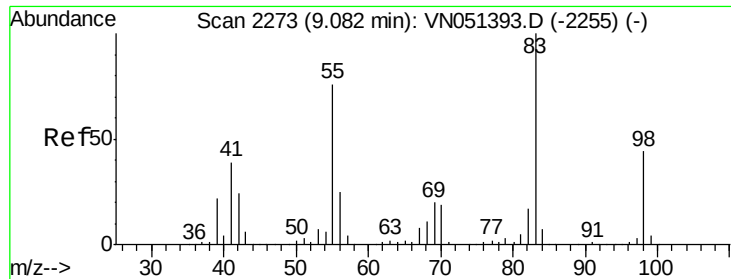
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#38
Carbon Tetrachloride
Concen: 19.104 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.9	115.3
121	29.1	24.6	37.0





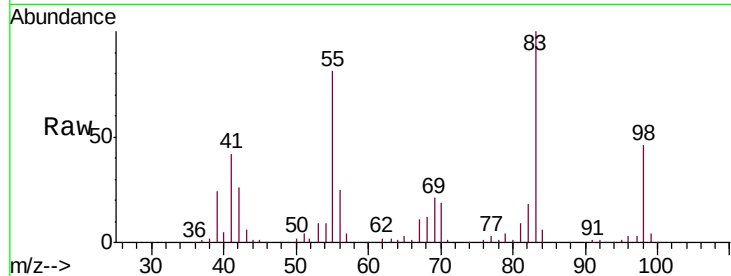
#39
Methylcyclohexane
Concen: 18.107 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	188910		
55	80.7	61.0	91.4	
98	46.1	35.6	53.4	

Manual Integrations
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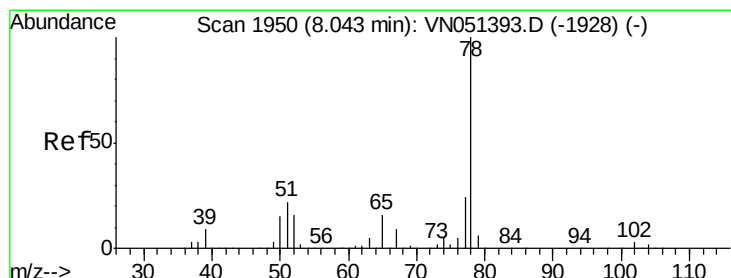
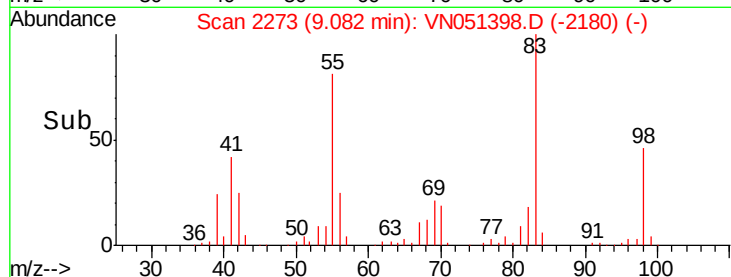
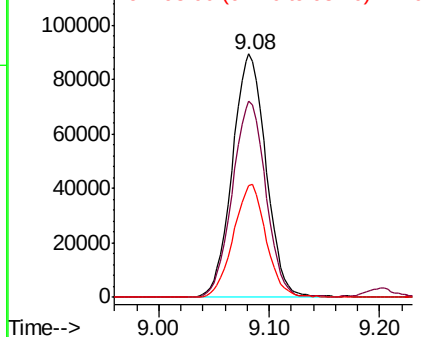


Abundance

Ion 83.00 (82.70 to 83.70): VN051398.D (-2180) (-)

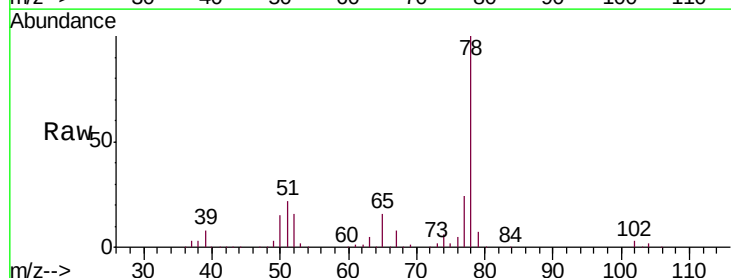
Ion 55.00 (54.70 to 55.70): VN051398.D (-2180) (-)

Ion 98.00 (97.70 to 98.70): VN051398.D (-2180) (-)



#40
Benzene
Concen: 19.352 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

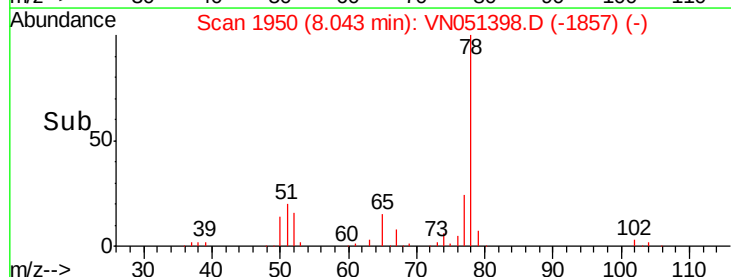
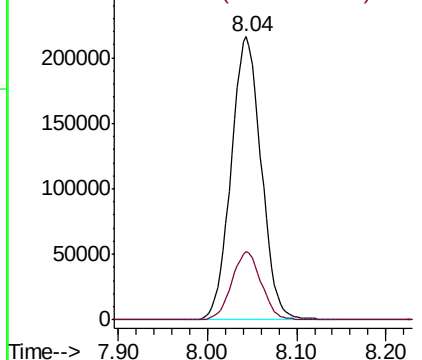
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	507112		
77	24.0	19.2	28.8	

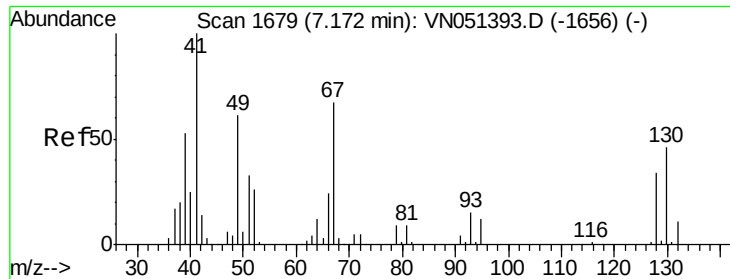


Abundance

Ion 78.00 (77.70 to 78.70): VN051398.D (-1857) (-)

Ion 77.00 (76.70 to 77.70): VN051398.D (-1857) (-)





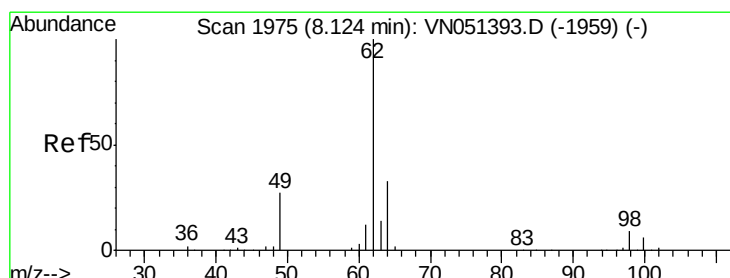
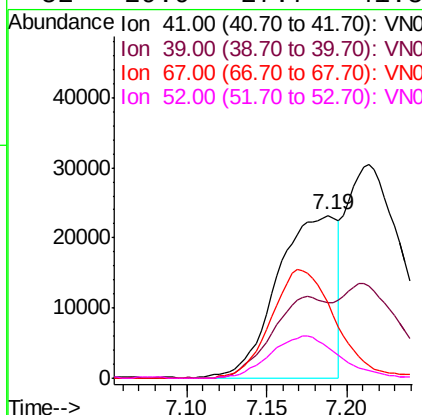
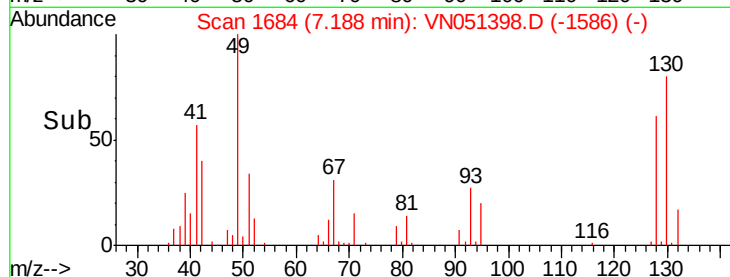
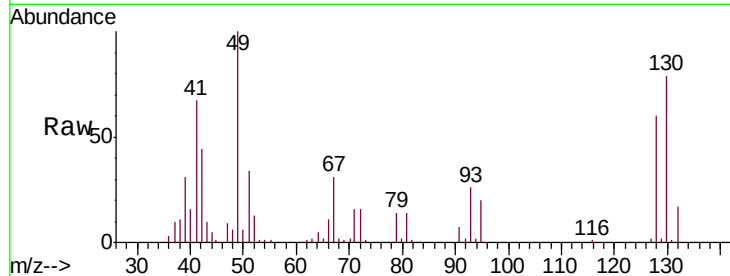
#41
Methacrylonitrile
Concen: 21.413 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.02 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion:	41	Resp:	60787
Ion Ratio	Lower	Upper	
41	100		
39	48.2	51.4	77.2#
67	71.9	66.8	100.2
52	29.9	27.7	41.5

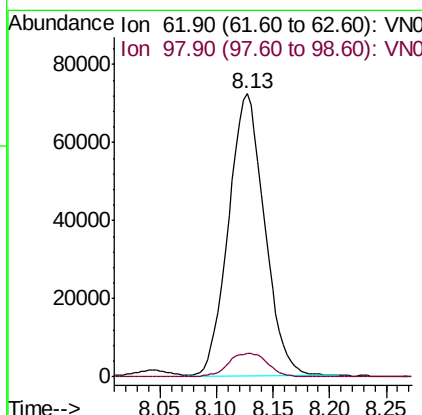
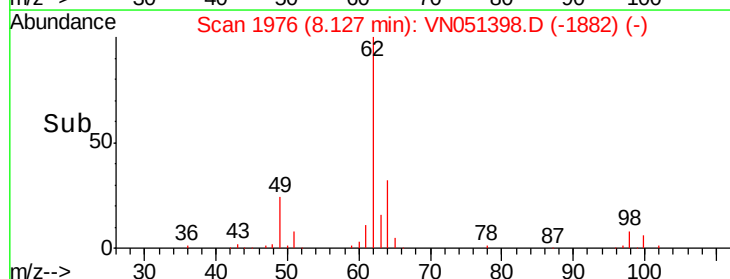
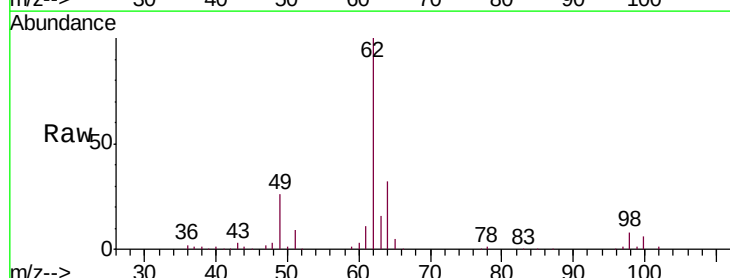
Manual Integrations
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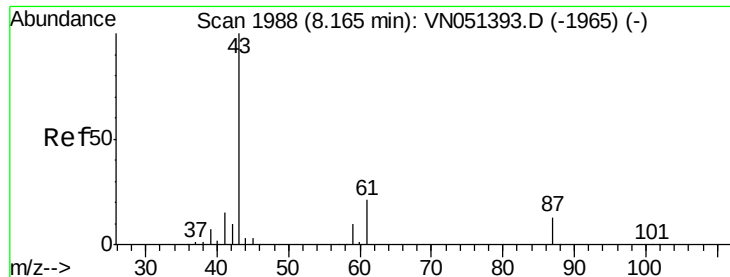
MMDadoda
9/24/2018 2:15:23 PM



#42
1,2-Dichloroethane
Concen: 19.173 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion:	62	Resp:	160872
Ion Ratio	Lower	Upper	
62	100		
98	9.2	0.0	18.6





#43

Isopropyl Acetate

Concen: 18.978 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

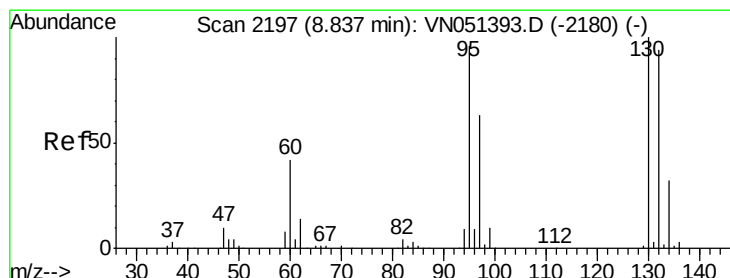
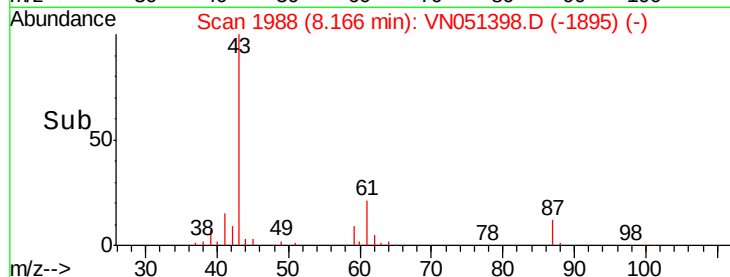
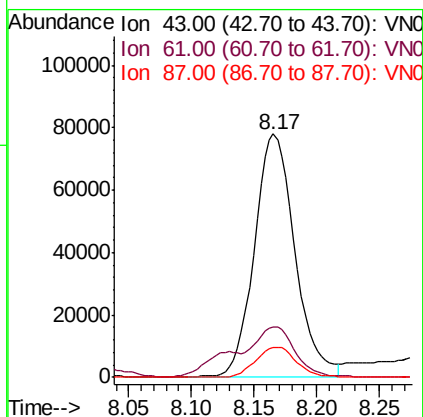
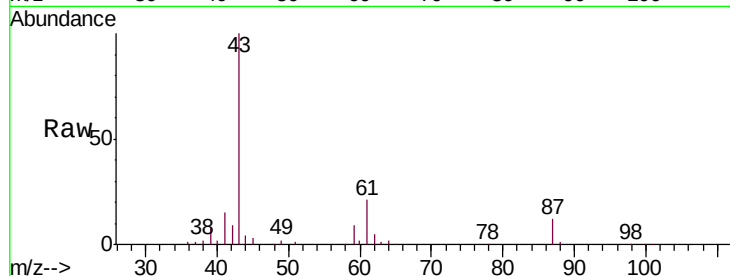
ClientSampleId :

VSTDIC020

Tgt Ion:	43	Resp:	176096
Ion	Ratio	Lower	Upper
43	100		
61	19.8	16.8	25.2
87	12.4	10.7	16.1

Manual Integrations
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9/24/2018 2:15:23 PM



#44

Trichloroethene

Concen: 18.858 ug/l

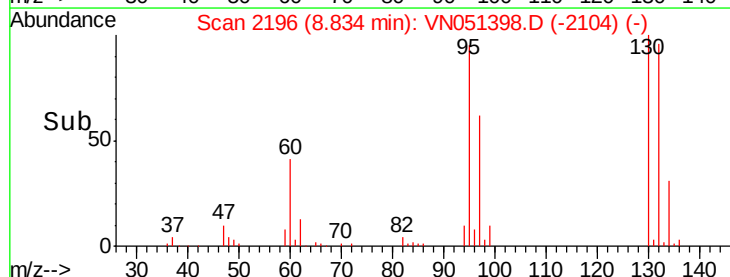
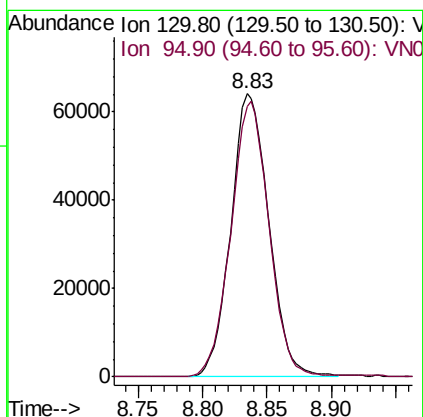
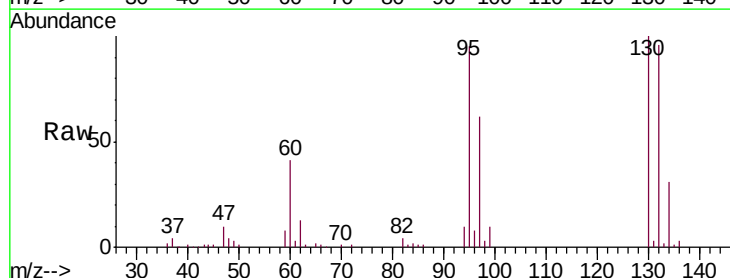
RT: 8.83 min Scan# 2196

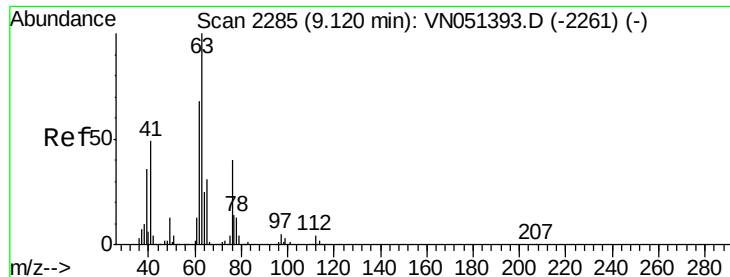
Delta R.T. -0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Tgt Ion:	130	Resp:	131252
Ion	Ratio	Lower	Upper
130	100		
95	95.4	0.0	192.2





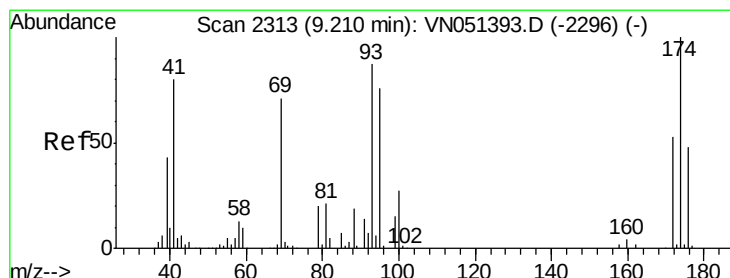
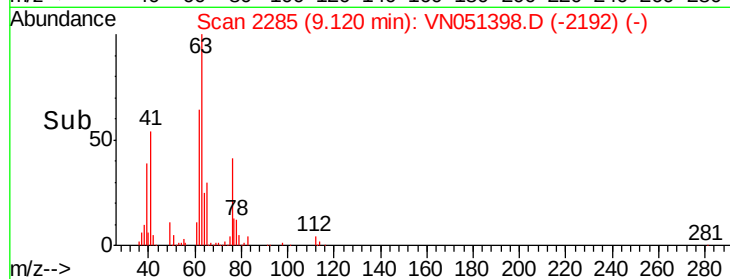
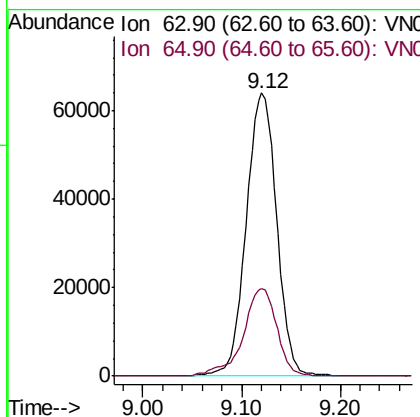
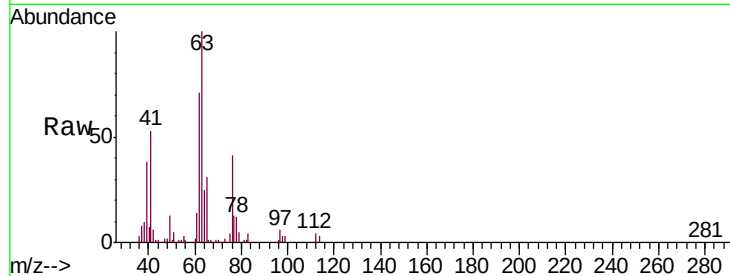
#45
 1,2-Dichloropropane
 Concen: 19.162 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.9	37.3

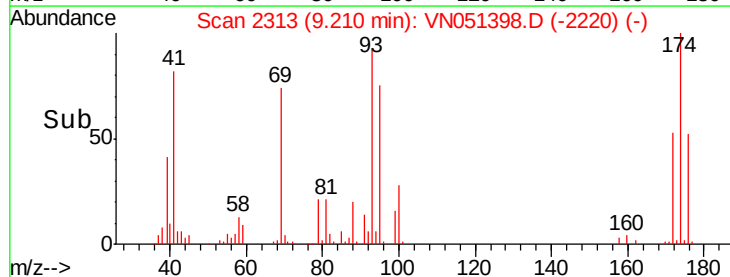
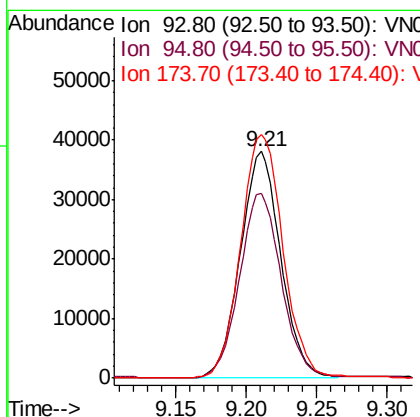
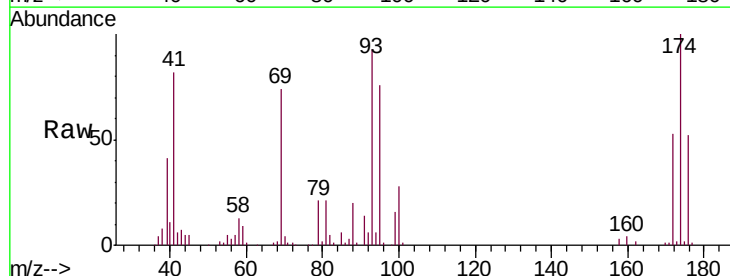
Manual Integrations
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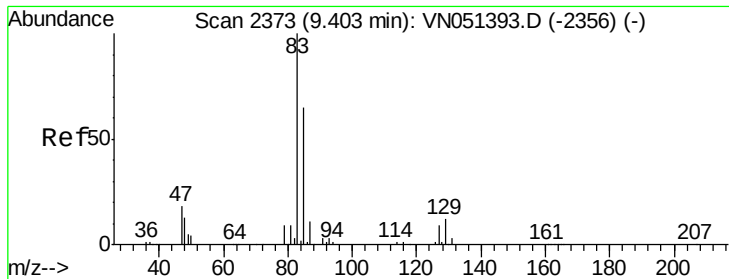
MMDadoda
 9/24/2018 2:15:23 PM



#46
 Dibromomethane
 Concen: 19.053 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.1	67.6	101.4
174	112.5	89.6	134.4





#47

Bromodichloromethane

Concen: 18.966 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

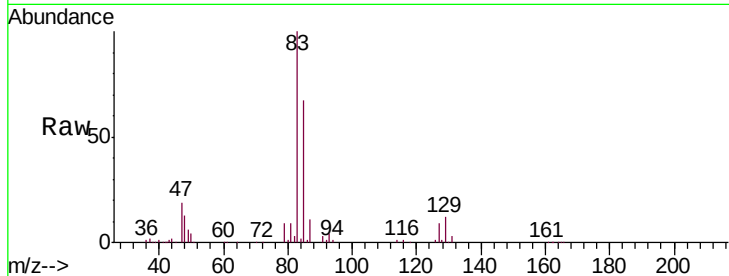
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	168921
Ion	Ratio	Lower	Upper
83	100		
85	66.8	51.8	77.6
127	9.3	7.4	11.2

Manual Integrations
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MMDadoda
9/24/2018 2:15:23 PM

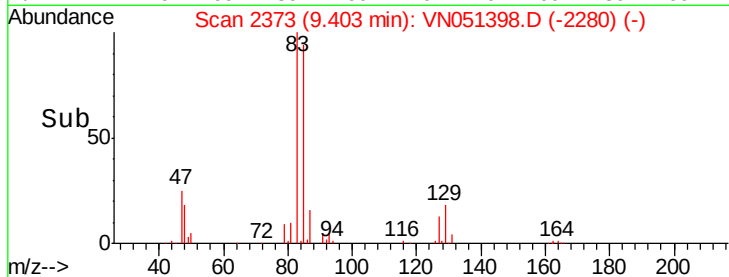


Abundance Ion 82.90 (82.60 to 83.60): VN051398.D (-2356) (-)

Ion 84.90 (84.60 to 85.60): VN051398.D (-2356) (-)

Ion 126.80 (126.50 to 127.50): VN051398.D (-2356) (-)

Time--> 9.30 9.35 9.40 9.45 9.50

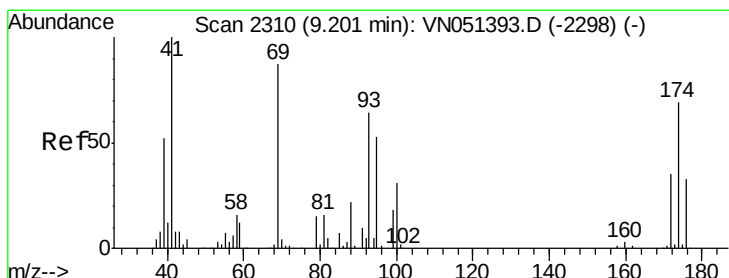


Abundance Ion 82.90 (82.60 to 83.60): VN051398.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN051398.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN051398.D (-2280) (-)

Time--> 9.30 9.35 9.40 9.45 9.50



#48

Methyl methacrylate

Concen: 17.933 ug/l

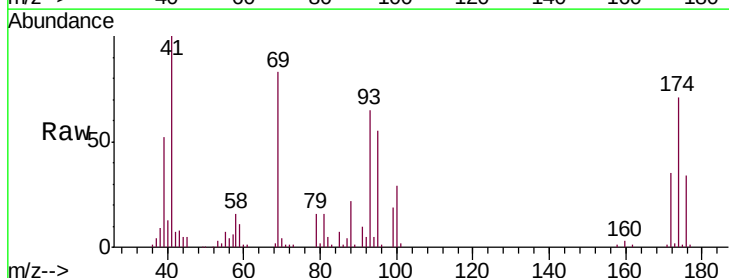
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Tgt Ion:	41	Resp:	82961
Ion	Ratio	Lower	Upper
41	100		
69	90.5	70.4	105.6
39	51.9	43.8	65.8

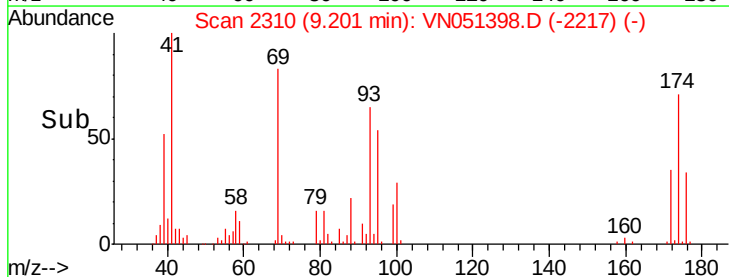


Abundance Ion 41.00 (40.70 to 41.70): VN051398.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051398.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051398.D (-2298) (-)

Time--> 9.15 9.20 9.25

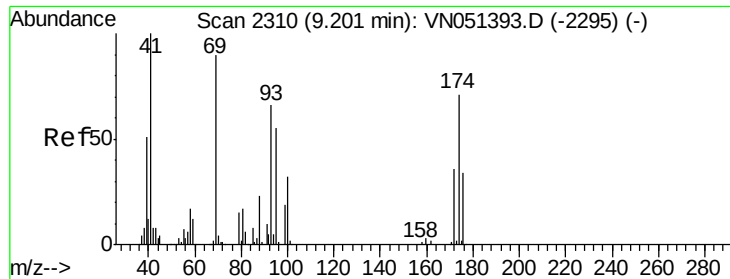


Abundance Ion 41.00 (40.70 to 41.70): VN051398.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN051398.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN051398.D (-2217) (-)

Time--> 9.15 9.20 9.25



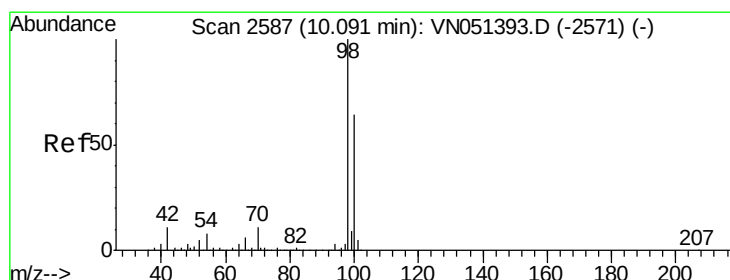
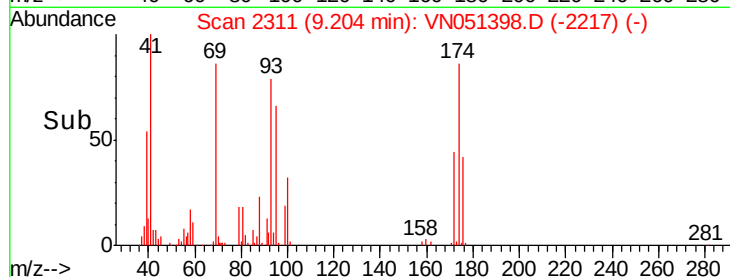
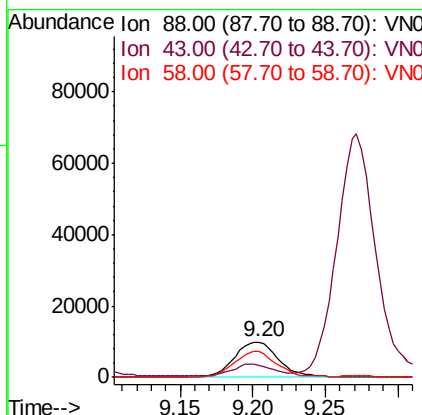
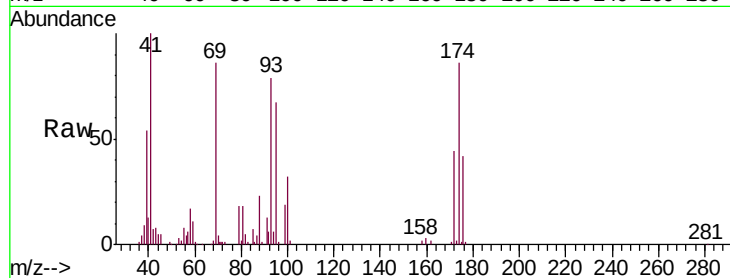
#49
1,4-Dioxane
Concen: 372.218 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
88	100		
43	30.4	25.9	38.9
58	70.8	57.0	85.4

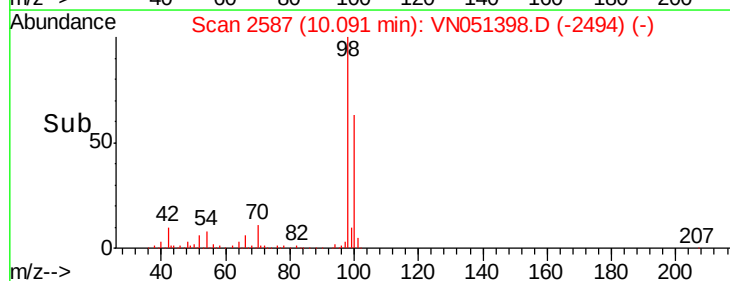
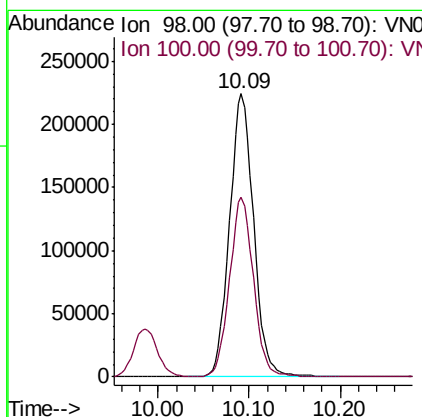
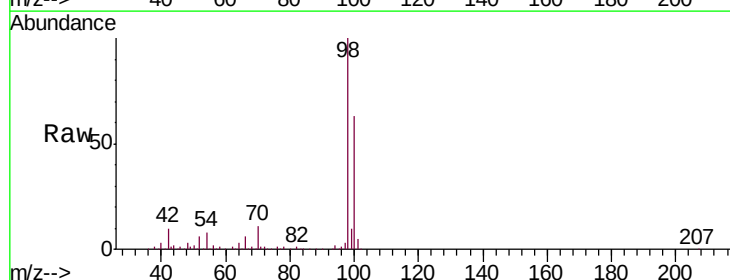
Manual Integrations
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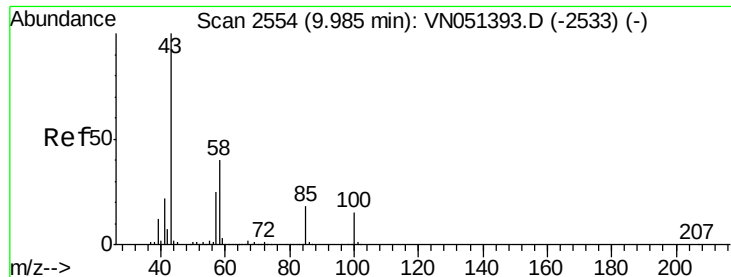
MMDadoda
9/24/2018 2:15:23 PM



#50
Toluene-d8
Concen: 17.799 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.4	50.6	75.8





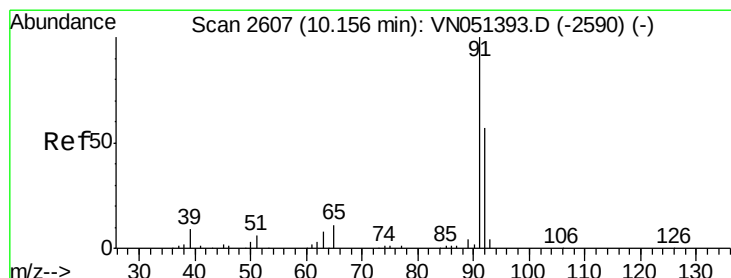
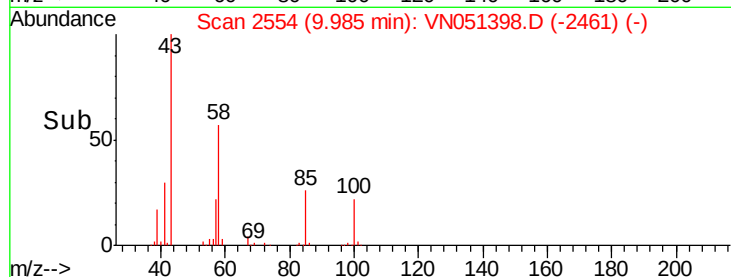
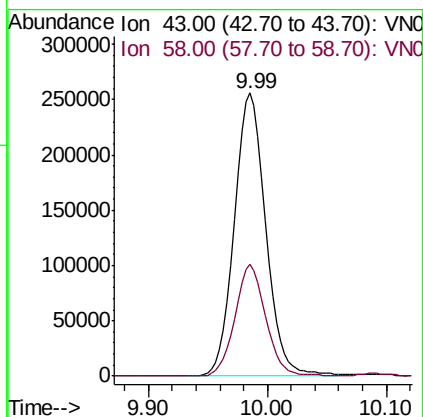
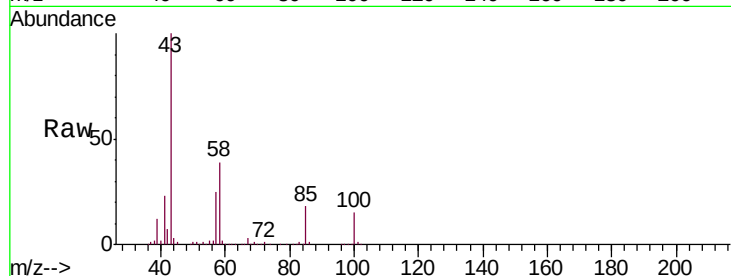
#51
 4-Methyl-2-Pentanone
 Concen: 91.532 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tgt Ion: 43 Resp: 467090
 Ion Ratio Lower Upper
 43 100
 58 38.8 31.5 47.3

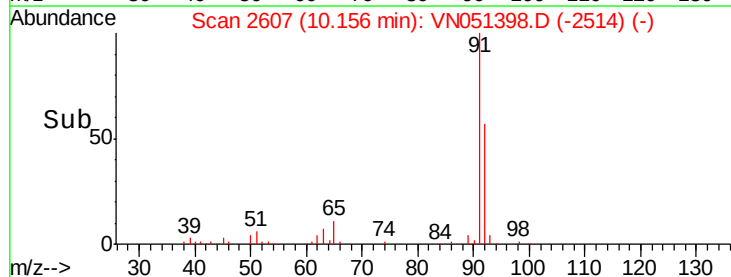
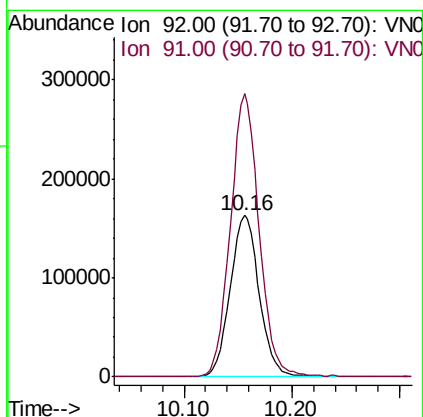
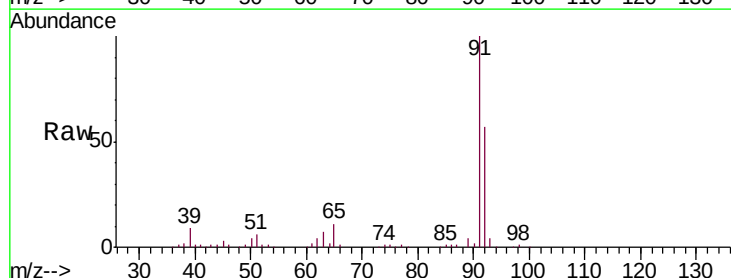
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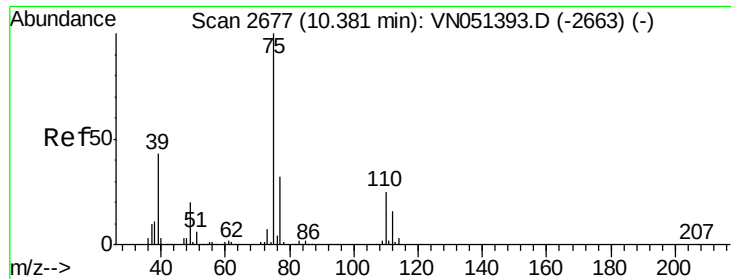
MMDadoda
 9/24/2018 2:15:23 PM



#52
 Toluene
 Concen: 18.808 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Tgt Ion: 92 Resp: 306287
 Ion Ratio Lower Upper
 92 100
 91 172.8 142.2 213.4





#53

t-1,3-Dichloropropene

Concen: 17.925 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tgt Ion: 75 Resp: 161179

Ion Ratio Lower Upper

75 100

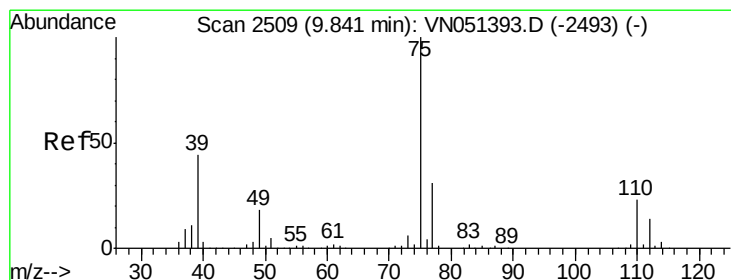
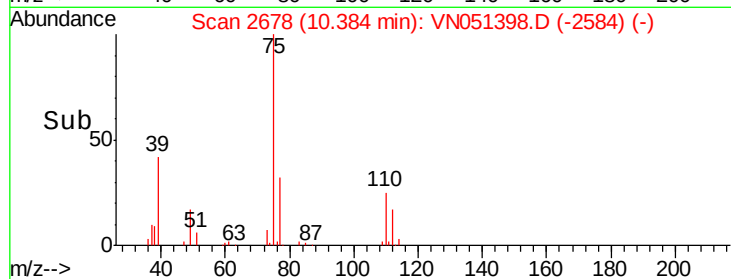
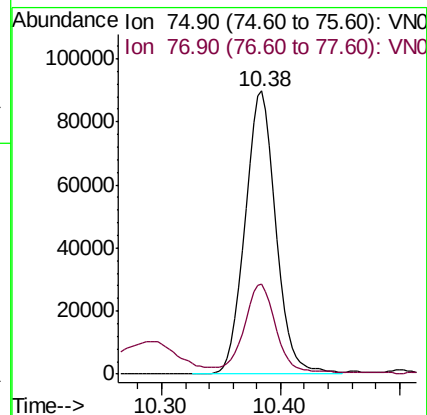
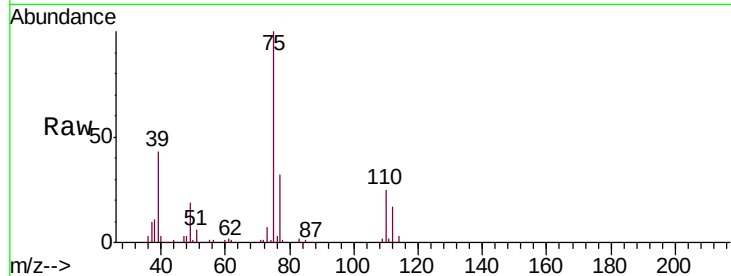
77 30.9 25.8 38.8

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 18.496 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

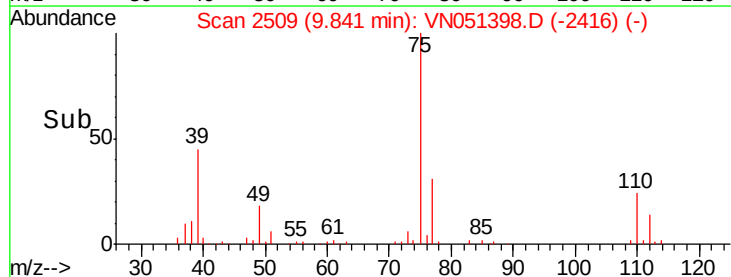
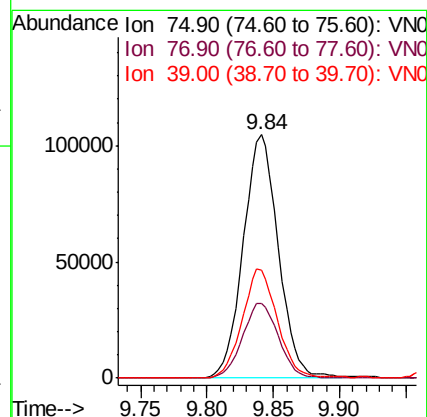
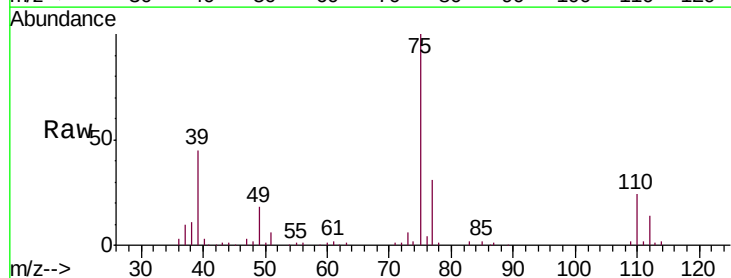
Tgt Ion: 75 Resp: 192877

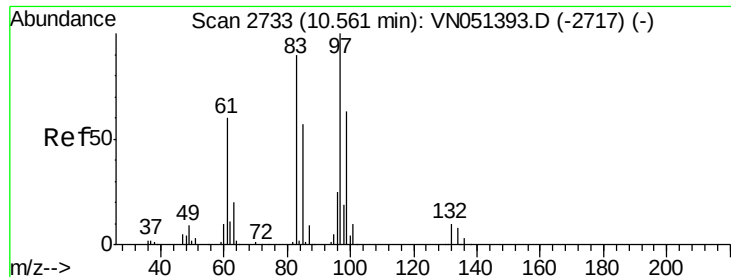
Ion Ratio Lower Upper

75 100

77 30.9 25.2 37.8

39 44.4 35.4 53.2





#55

1,1,2-Trichloroethane

Concen: 19.227 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 110659

Ion Ratio Lower Upper

97 100

83 87.2 72.0 108.0

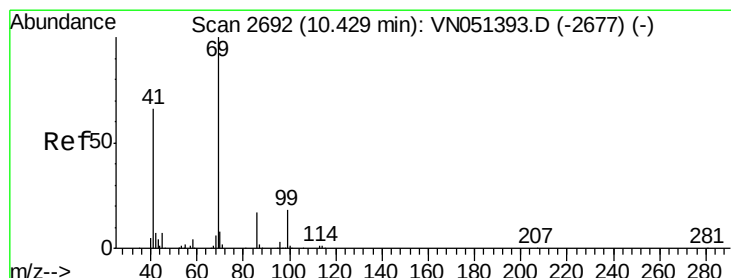
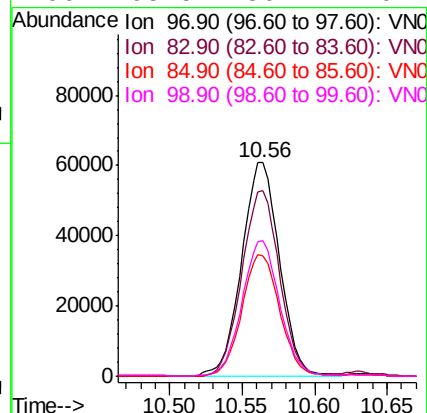
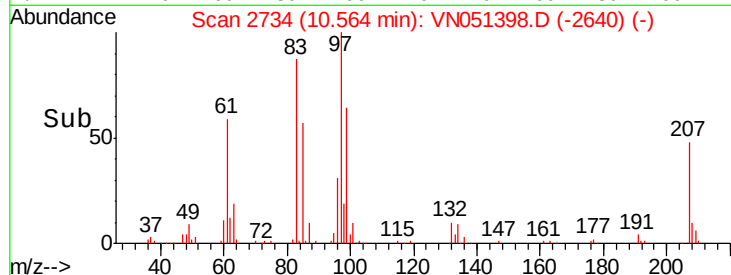
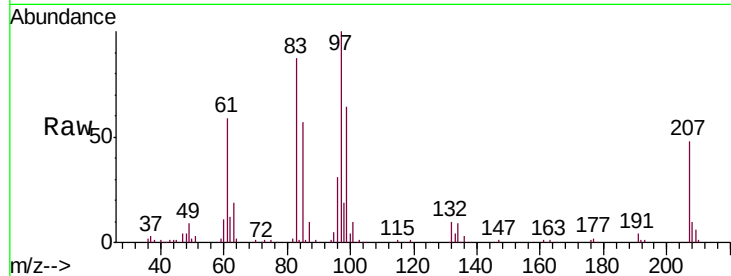
85 56.5 45.2 67.8

99 63.5 50.7 76.1

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#56

Ethyl methacrylate

Concen: 17.797 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

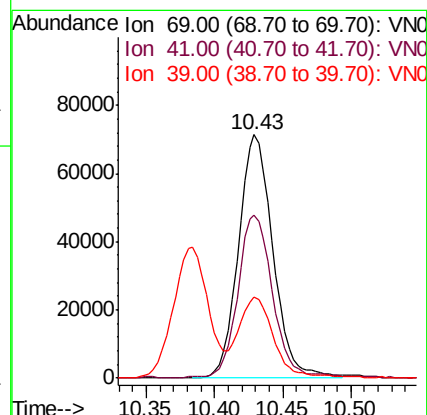
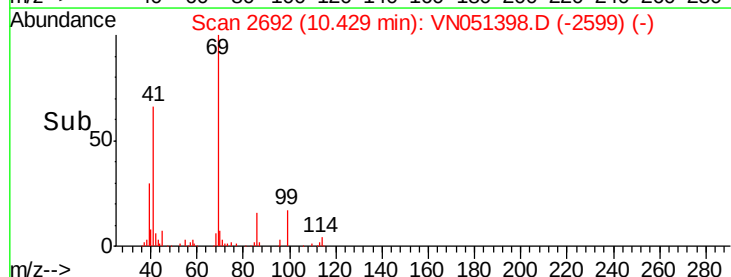
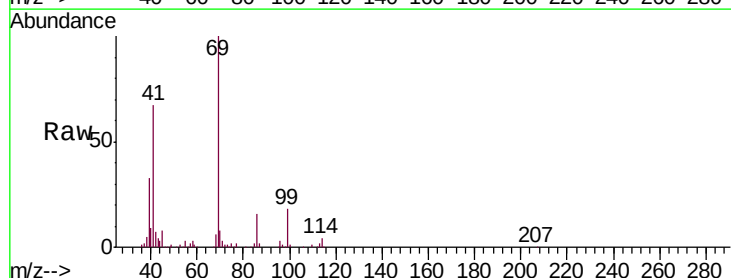
Tgt Ion: 69 Resp: 125233

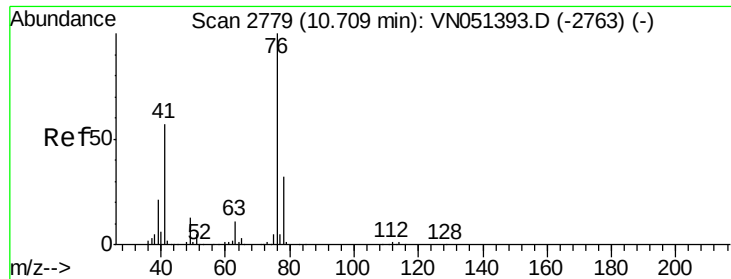
Ion Ratio Lower Upper

69 100

41 66.4 52.4 78.6

39 32.1 26.3 39.5





#57

1,3-Dichloropropane

Concen: 18.938 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 186819

Ion Ratio Lower Upper

76 100

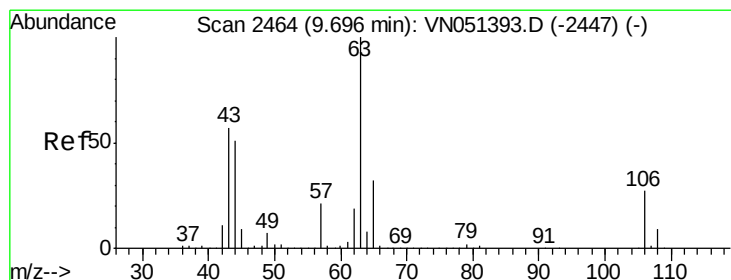
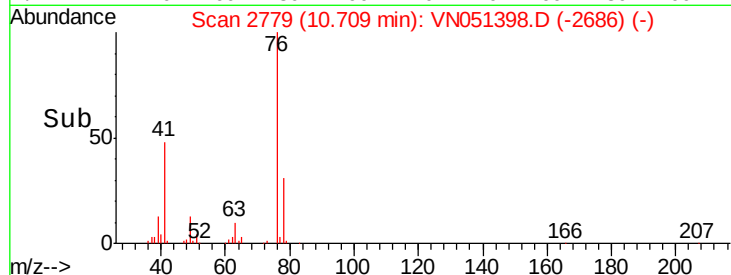
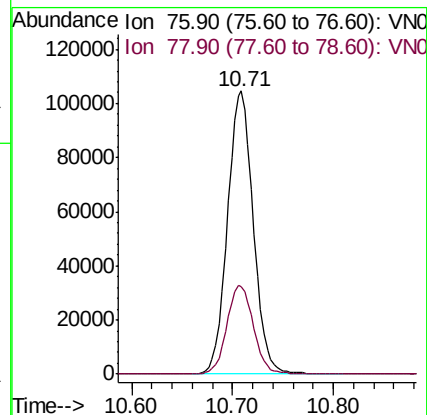
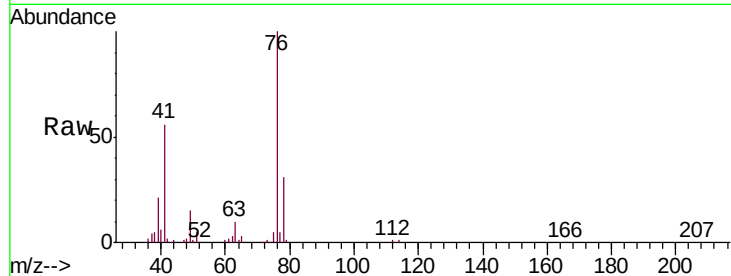
78 32.5 25.5 38.3

Manual Integrations

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MMDadoda

9/24/2018 2:15:23 PM



#58

2-Chloroethyl Vinyl ether

Concen: 99.361 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051398.D

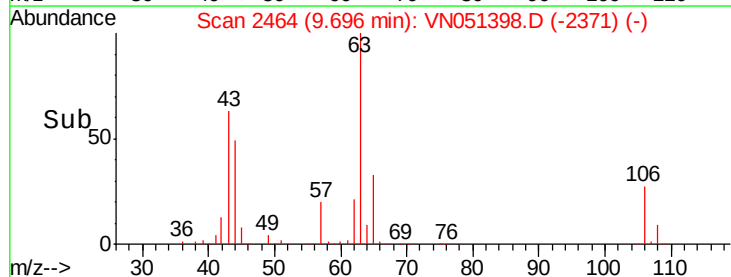
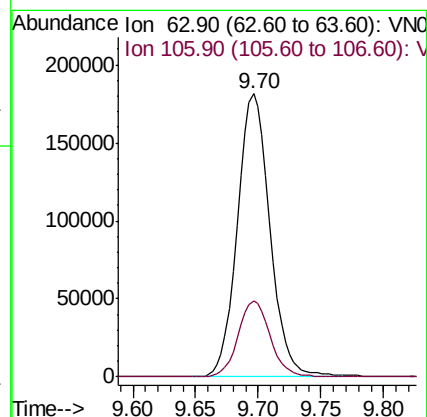
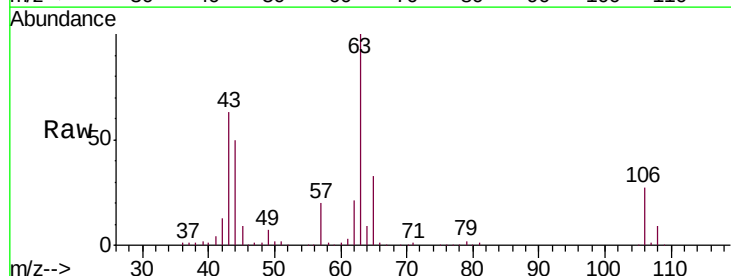
Acq: 22 Sep 2018 15:32

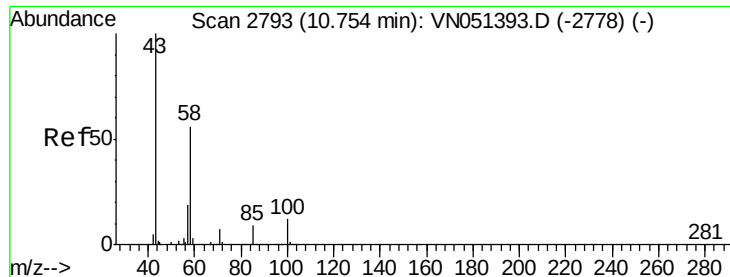
Tgt Ion: 63 Resp: 327494

Ion Ratio Lower Upper

63 100

106 26.6 21.4 32.2





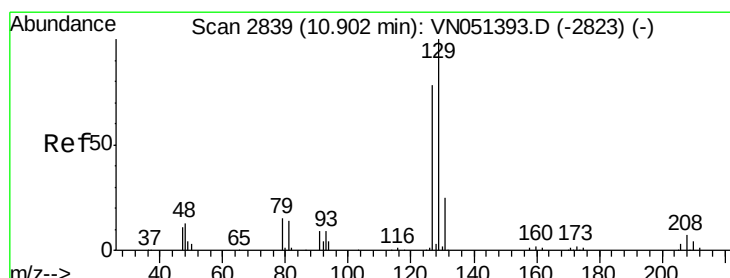
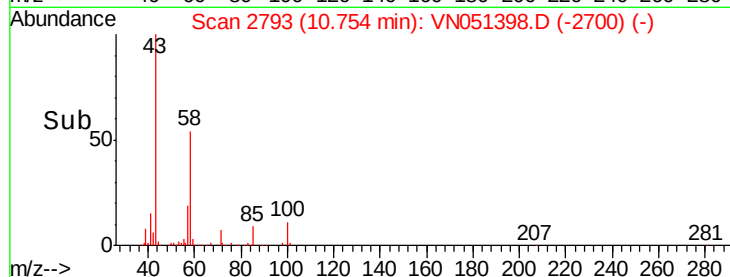
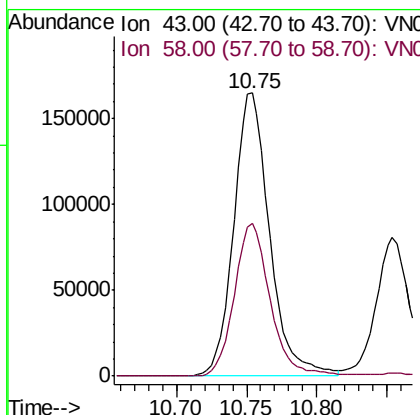
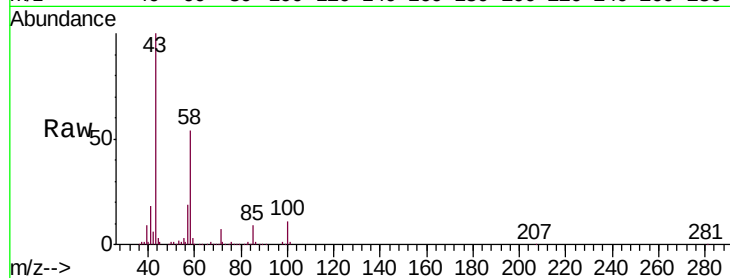
#59
2-Hexanone
Concen: 88.575 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 293015
Ion Ratio Lower Upper
43 100
58 54.1 27.7 83.0

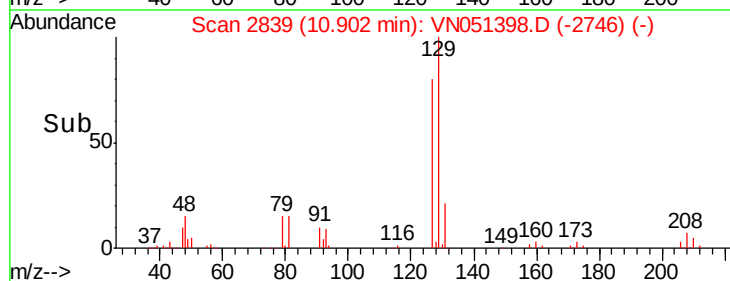
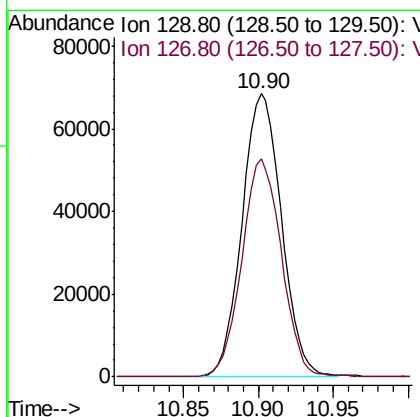
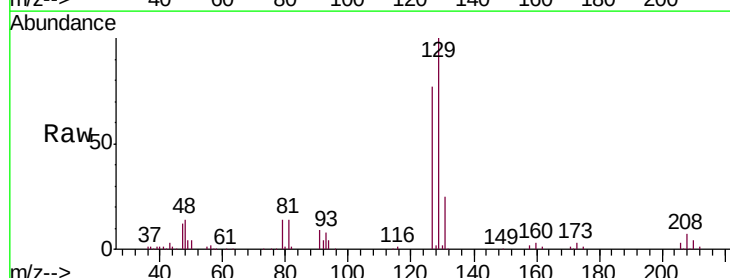
Manual Integrations
APPROVED

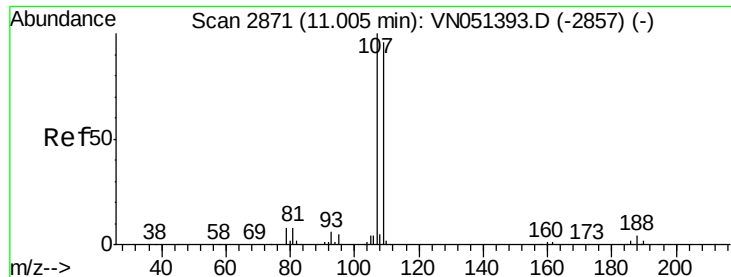
MMDadoda
9/24/2018 2:15:23 PM



#60
Dibromochloromethane
Concen: 18.574 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion: 129 Resp: 126127
Ion Ratio Lower Upper
129 100
127 77.1 38.6 116.0





#61

1,2-Dibromoethane

Concen: 18.481 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 107 Resp: 103255

Ion Ratio Lower Upper

107 100

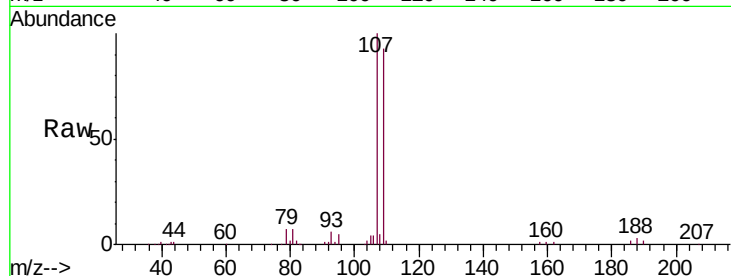
109 94.7 76.3 114.5

Manual Integrations

APPROVED

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

60000

50000

40000

30000

20000

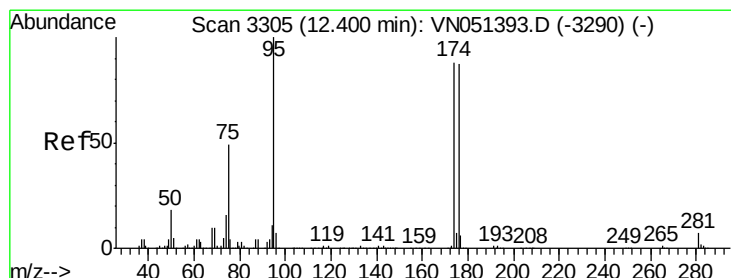
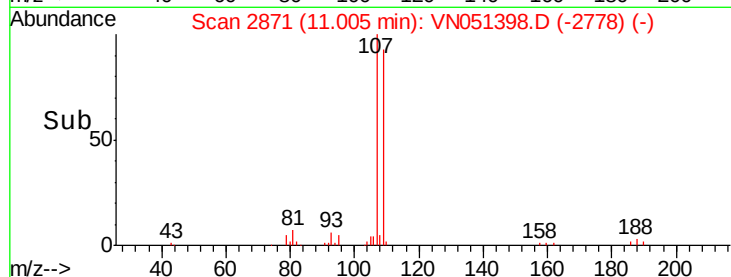
10000

0

11.00

11.10

Time-->



#62

4-Bromofluorobenzene

Concen: 16.989 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

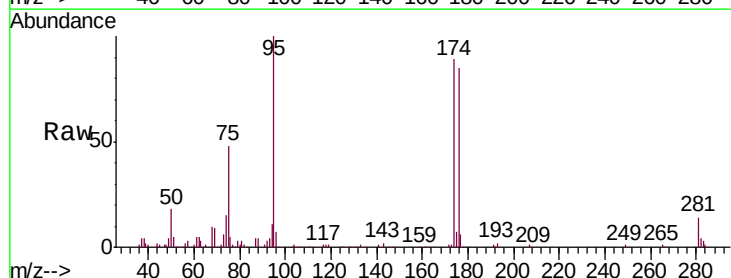
Tgt Ion: 95 Resp: 127540

Ion Ratio Lower Upper

95 100

174 91.5 0.0 181.6

176 86.5 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

100000

80000

60000

40000

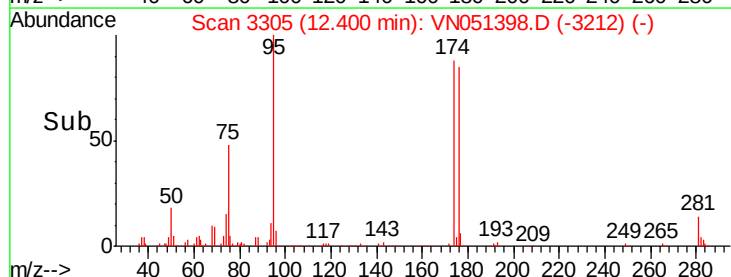
20000

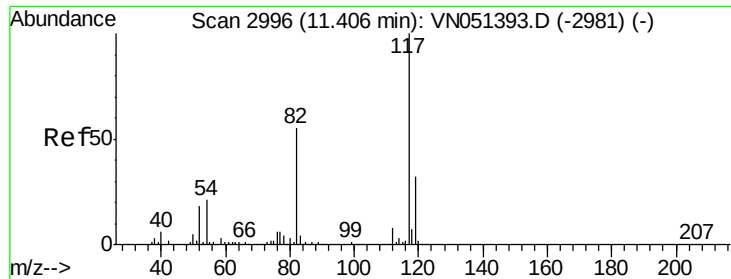
0

12.40

12.45

Time-->





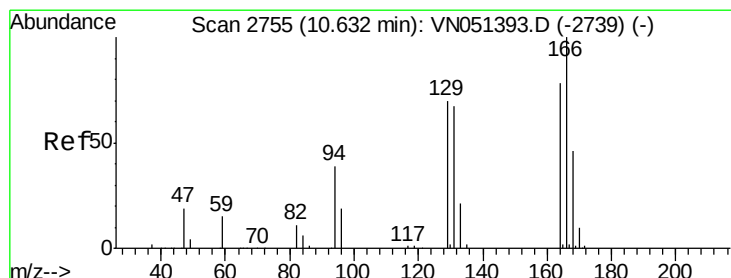
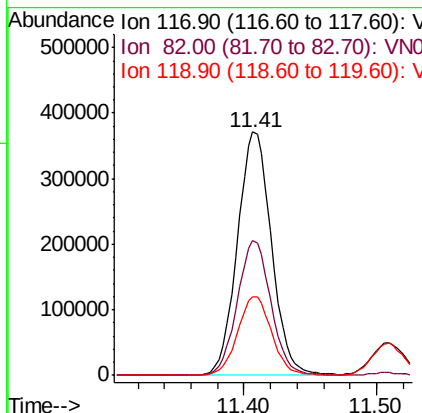
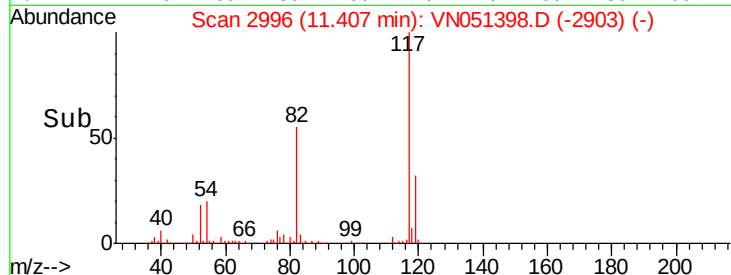
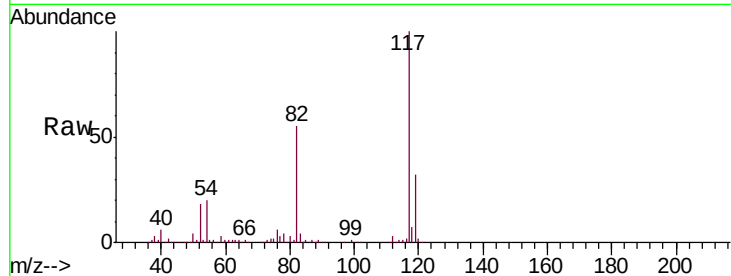
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	663987		
82	55.5	44.2	66.2	
119	32.4	25.9	38.9	

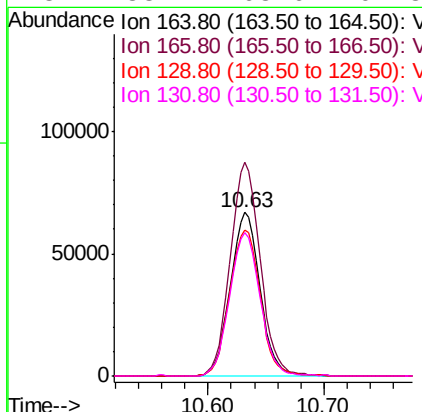
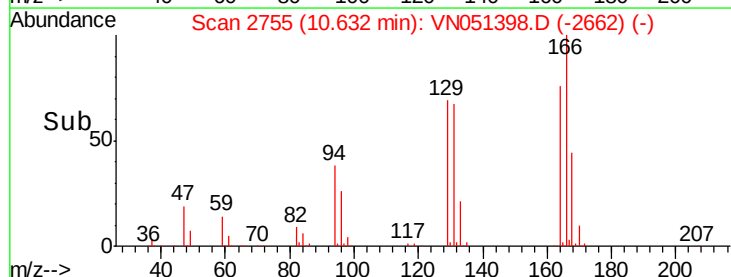
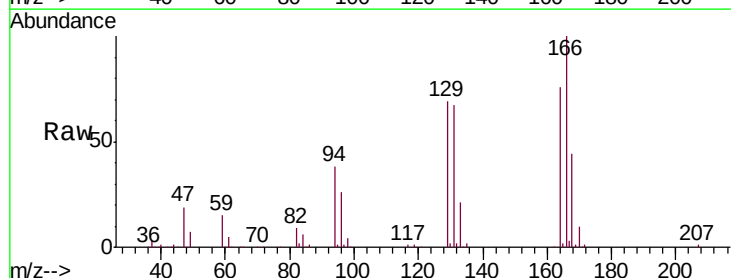
Manual Integrations
APPROVED

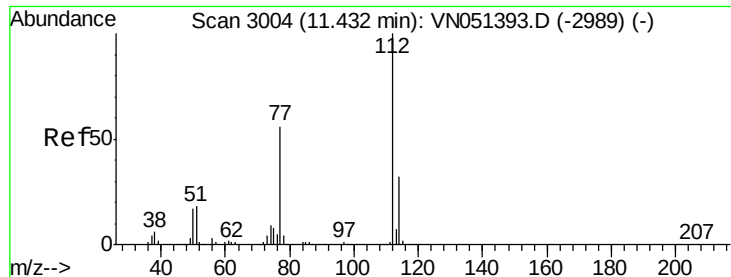
MMDadoda
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#64
Tetrachloroethene
Concen: 19.665 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	118501		
166	130.8	102.3	153.5	
129	89.8	71.8	107.8	
131	88.1	68.6	102.8	





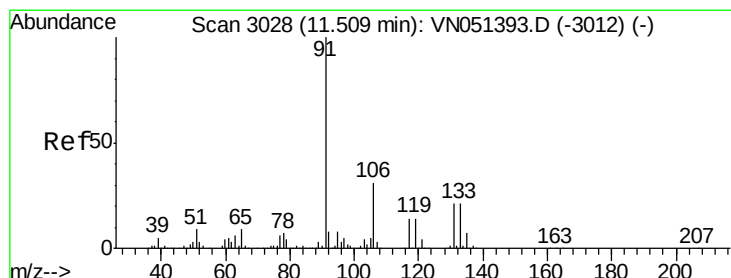
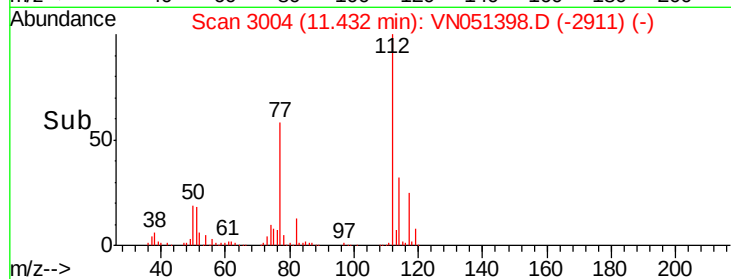
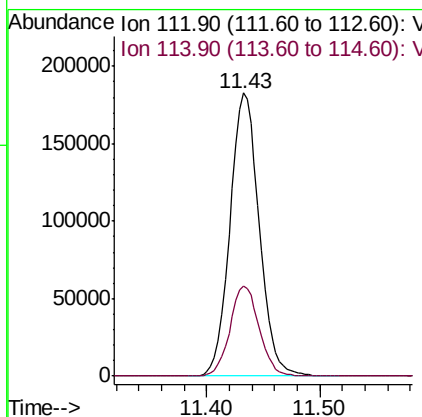
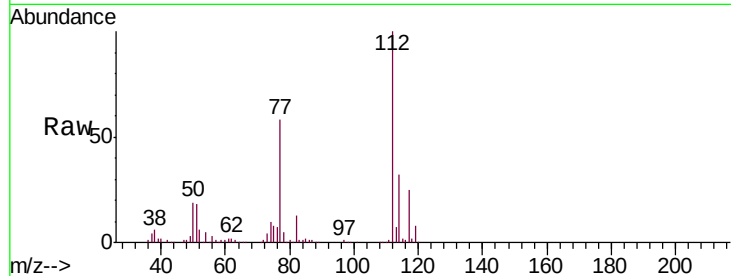
#65
Chlorobenzene
Concen: 19.273 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.4	38.2

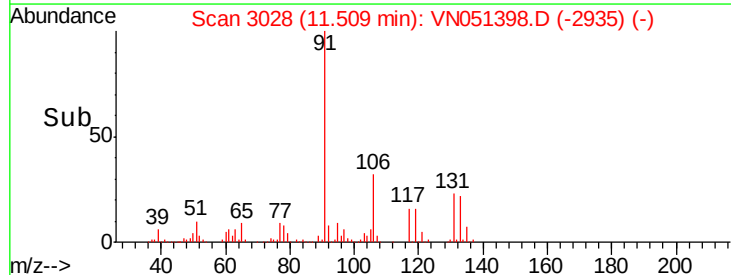
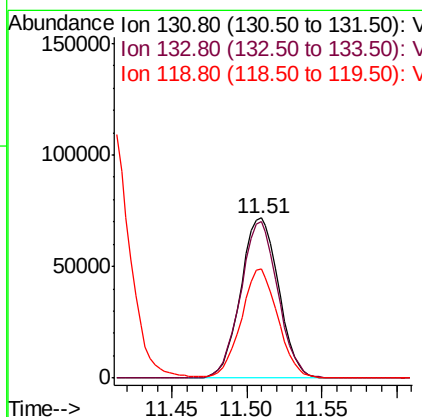
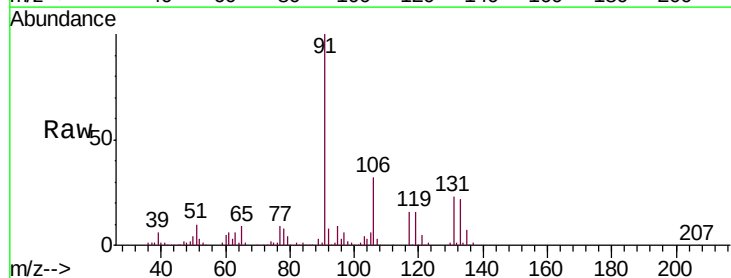
Manual Integrations
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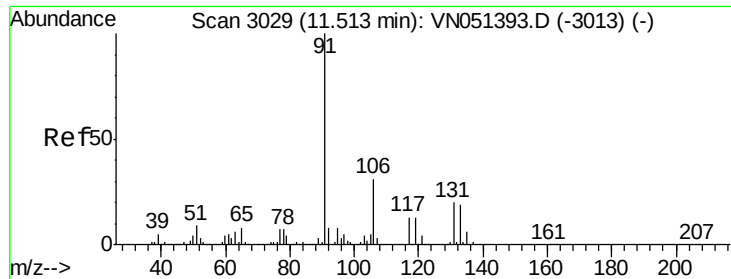
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.591 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.7	48.3	144.8
119	65.8	32.8	98.4





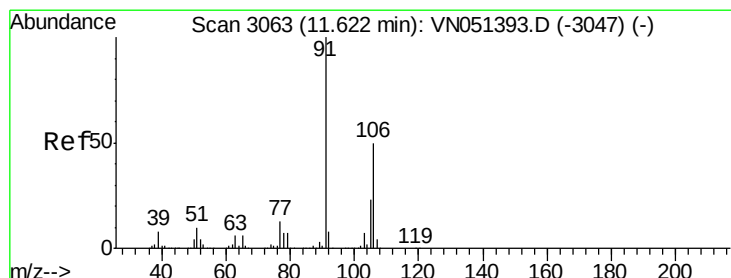
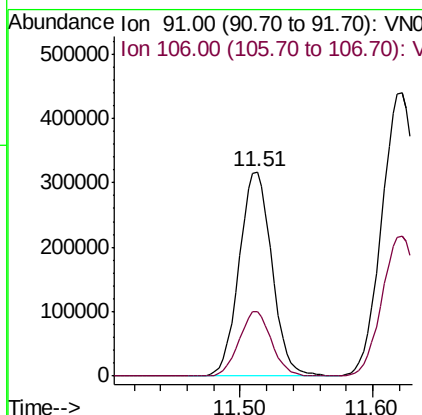
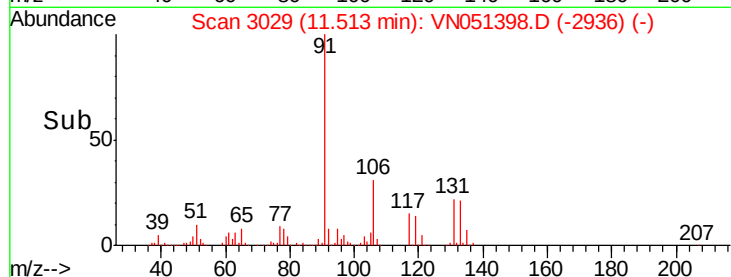
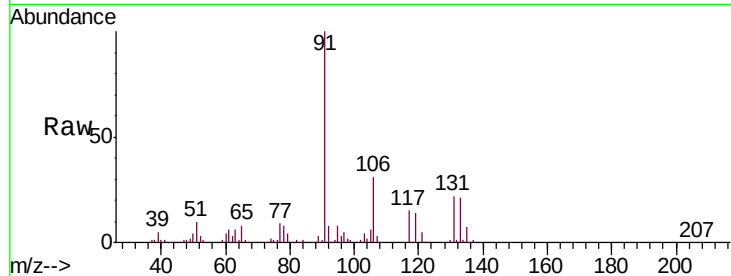
#67
Ethyl Benzene
Concen: 18.923 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tgt Ion: 91 Resp: 543270
Ion Ratio Lower Upper
91 100
106 31.4 25.0 37.4

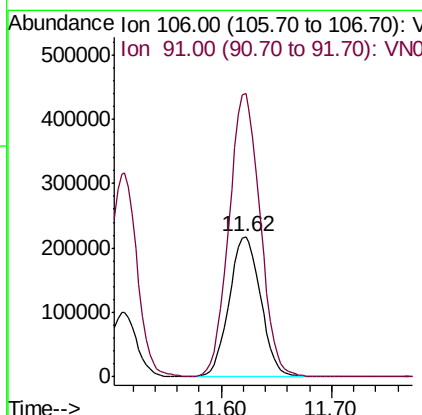
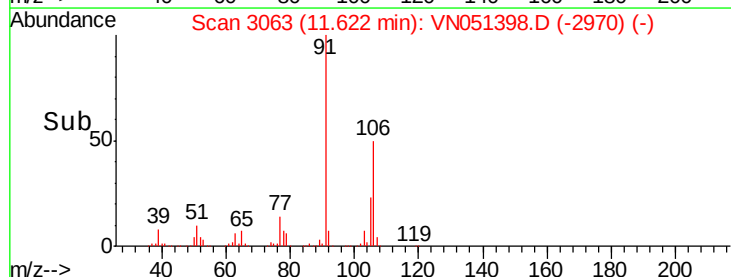
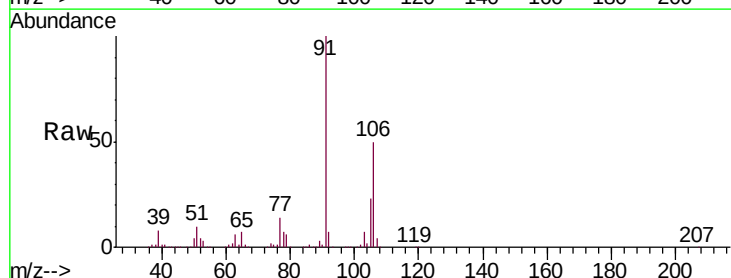
Manual Integrations
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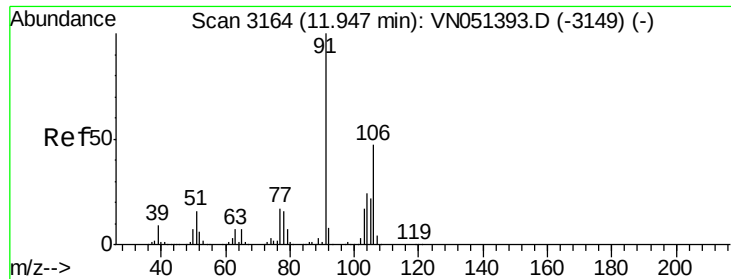
MMDadoda
9/24/2018 2:15:23 PM



#68
m/p-Xylenes
Concen: 38.702 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion: 106 Resp: 429787
Ion Ratio Lower Upper
106 100
91 200.5 161.3 241.9





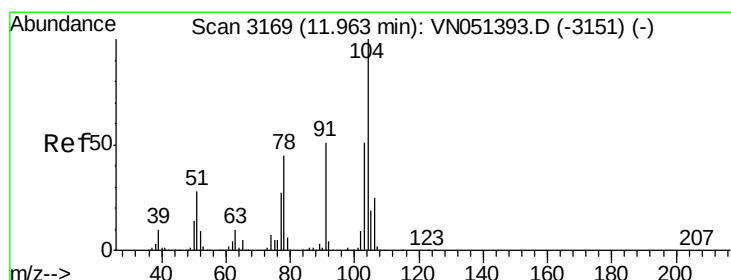
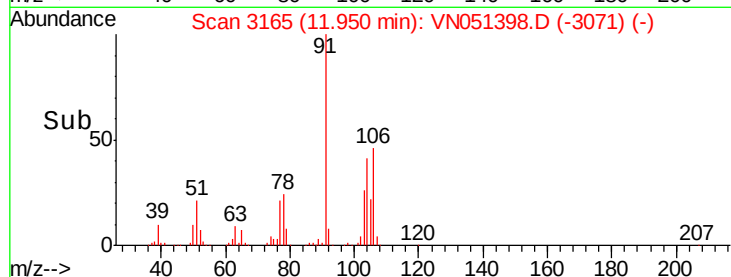
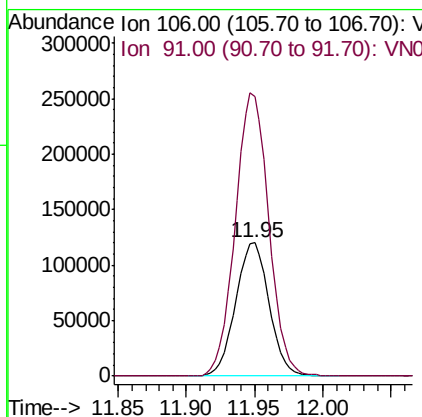
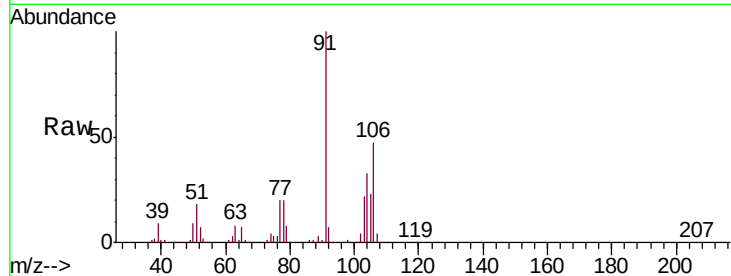
#69
o-Xylene
Concen: 19.172 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
106	100		
91	213.0	105.3	315.9

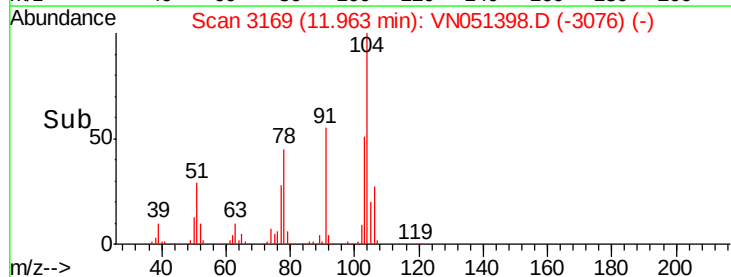
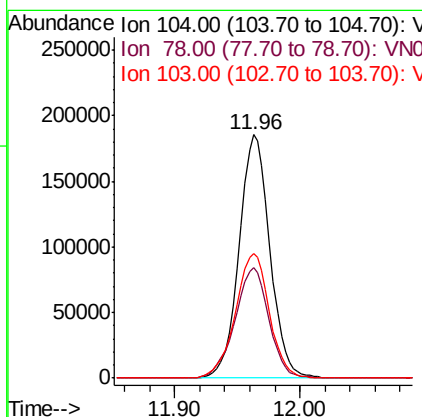
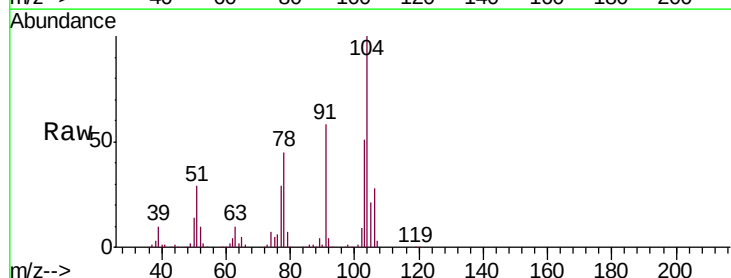
Manual Integrations
APPROVED

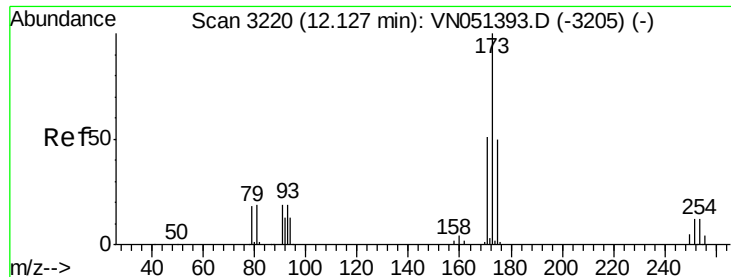
MMDadoda
9/24/2018 2:15:23 PM



#70
Styrene
Concen: 18.686 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Lower	Upper
104	100		
78	50.1	39.9	59.9
103	56.4	44.6	66.8





#71

Bromoform

Concen: 19.108 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

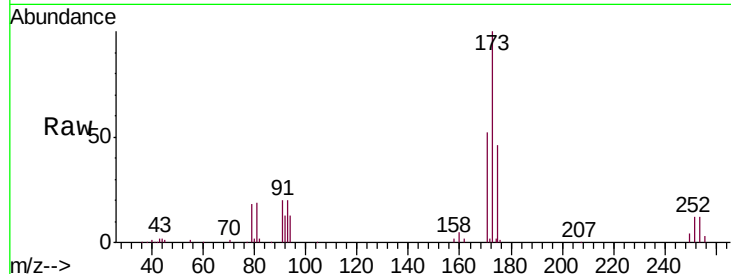
ClientSampleId :

VSTDIC020

Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.8	24.8	74.3
254	0.0	0.2	0.2

Manual Integrations
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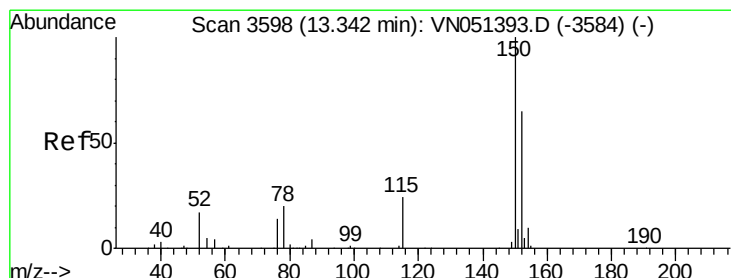
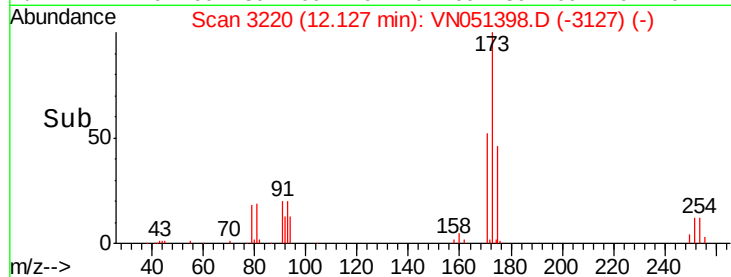
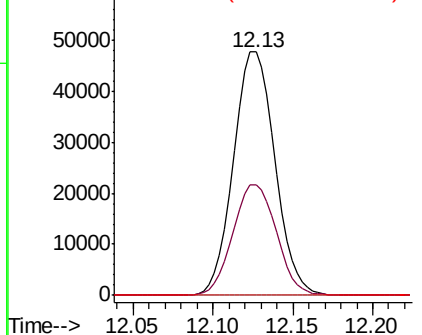


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

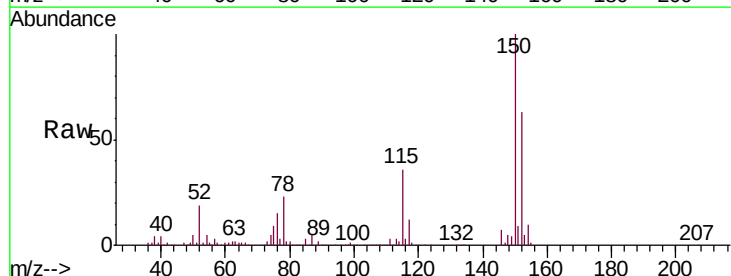
RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.9	28.3	84.9
150	163.1	0.0	353.6

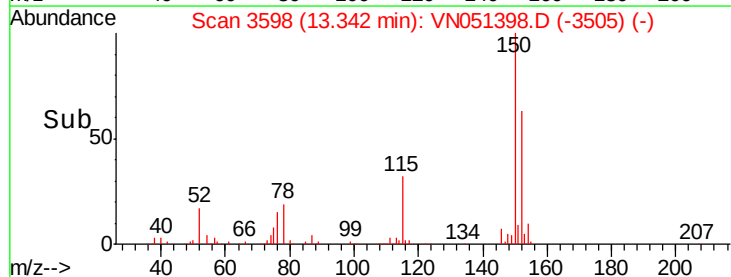
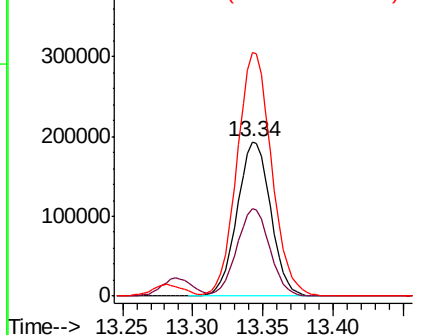


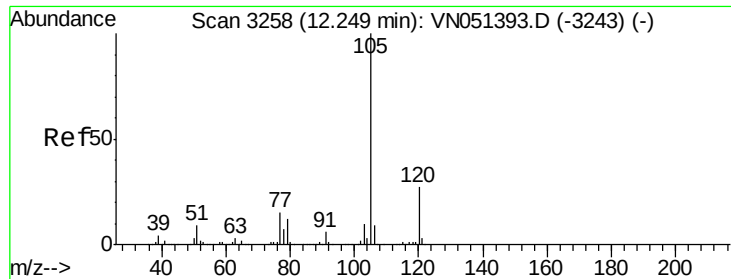
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.197 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 105 Resp: 548665

Ion Ratio Lower Upper

105 100

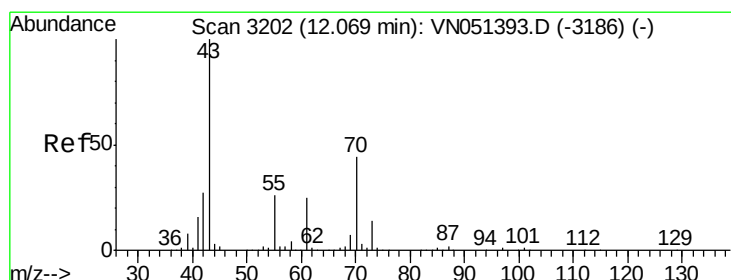
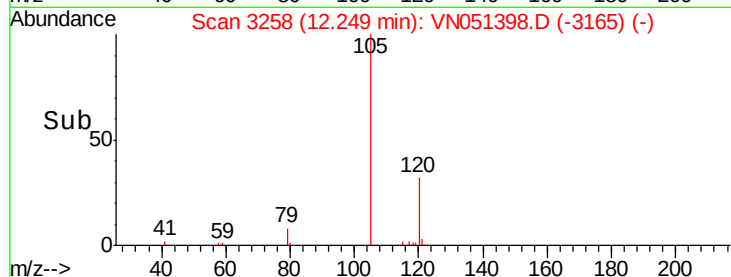
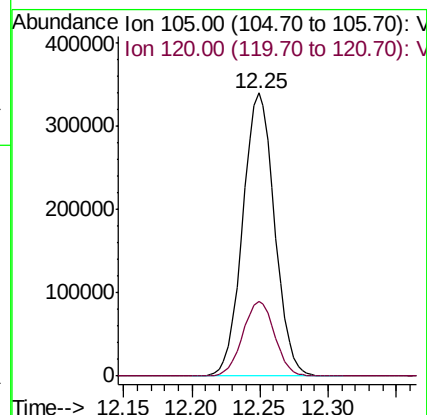
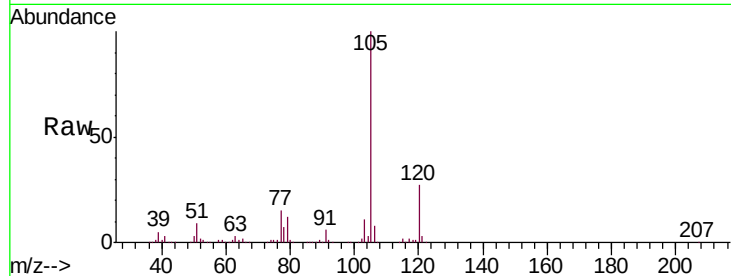
120 26.7 13.3 39.8

Manual Integrations

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#74

N-ethyl acetate

Concen: 18.854 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Tgt Ion: 43 Resp: 128512

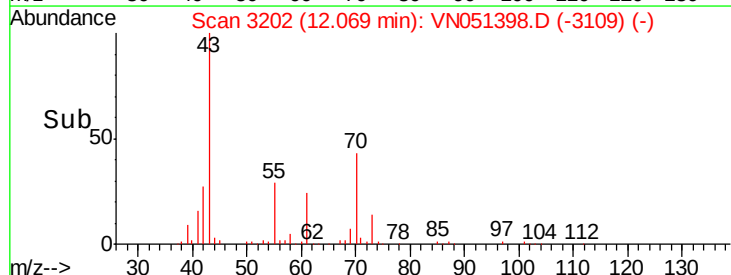
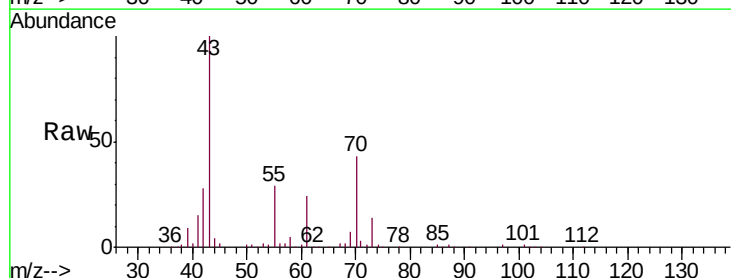
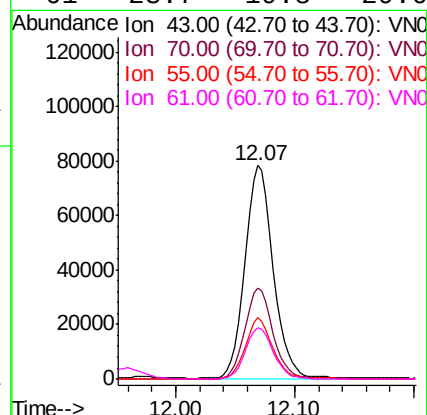
Ion Ratio Lower Upper

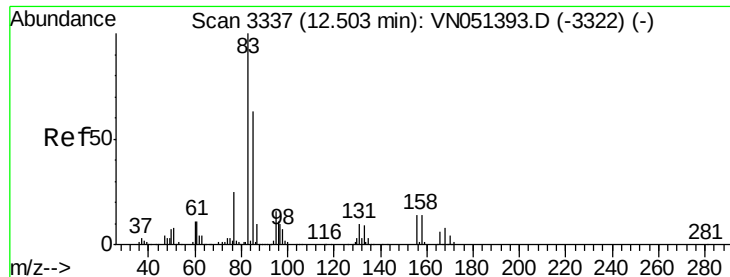
43 100

70 42.3 35.0 52.4

55 27.7 21.4 32.2

61 23.7 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 20.444 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

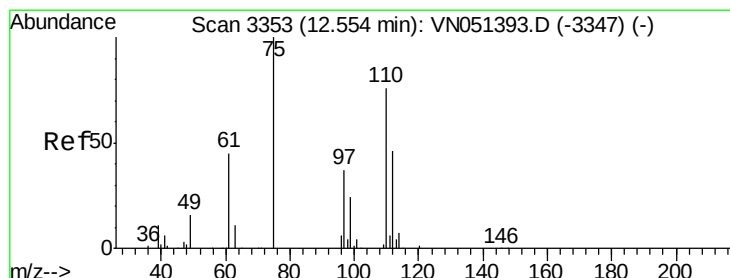
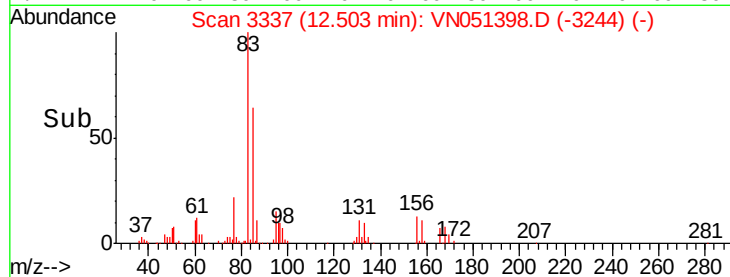
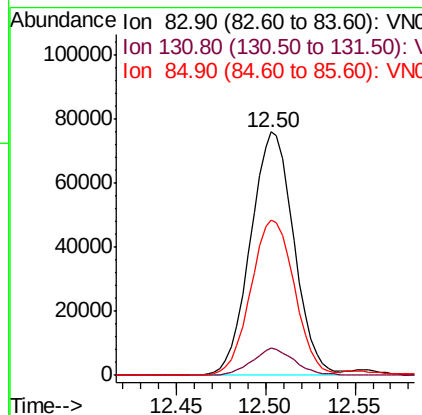
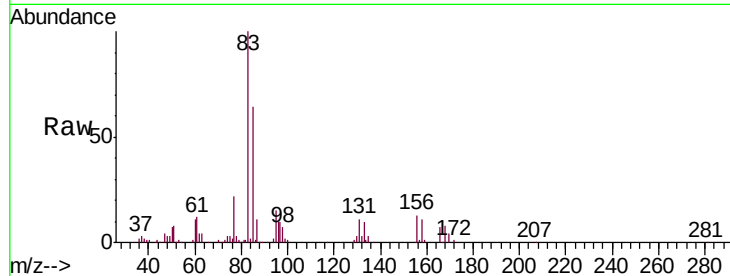
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	129513
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.3	15.9
85	64.3	31.6	95.0

Manual Integrations
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9/24/2018 2:15:23 PM



#76

1,2,3-Trichloropropane

Concen: 23.094 ug/l m

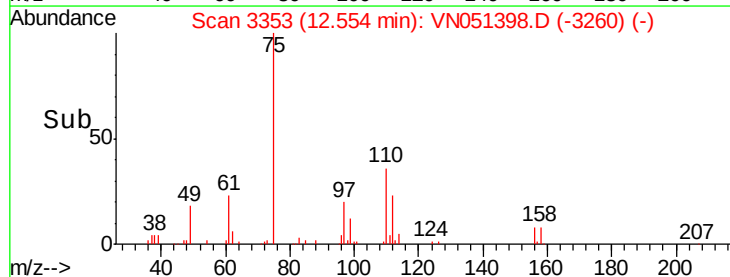
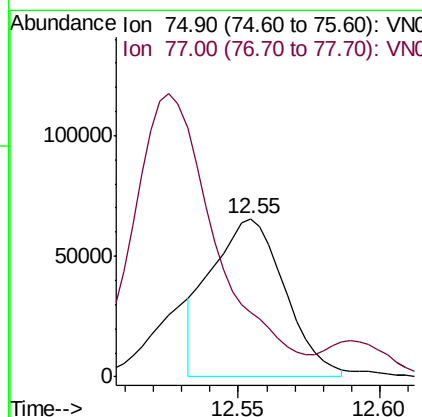
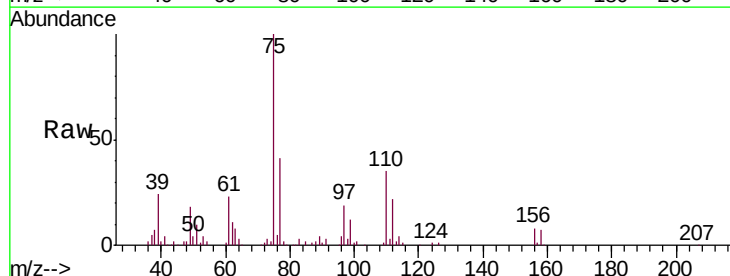
RT: 12.55 min Scan# 3353

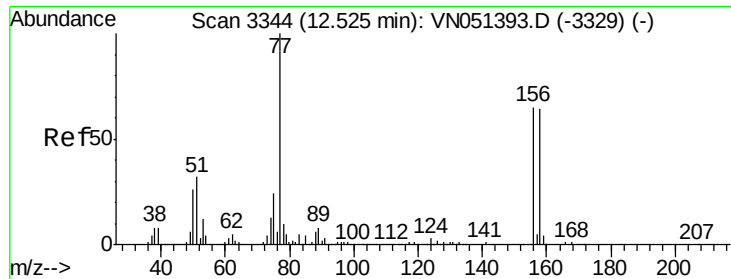
Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Tgt Ion:	75	Resp:	119944
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.014 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

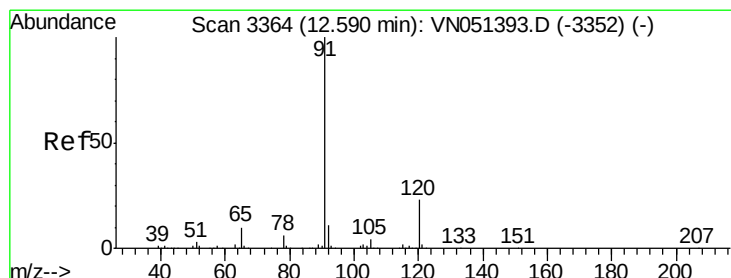
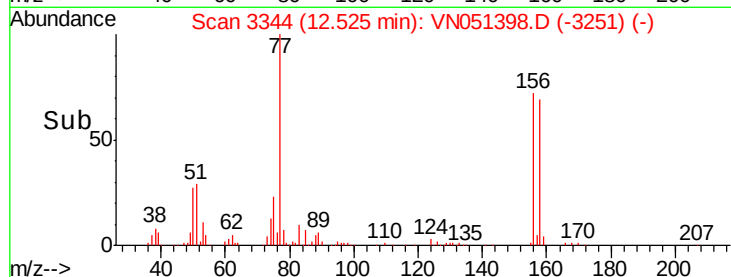
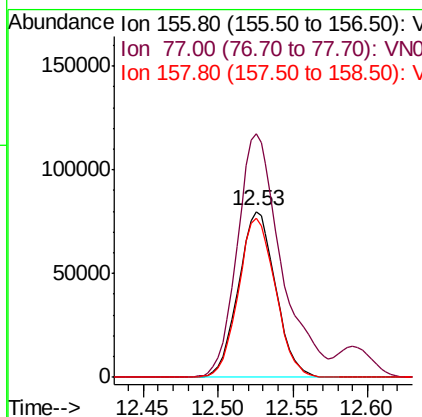
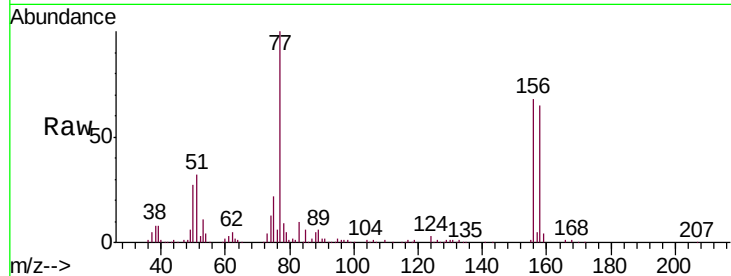
ClientSampleId :

VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
156	100	137635		
77	174.8	89.5	268.4	
158	95.8	49.4	148.2	

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#78

n-propylbenzene

Concen: 19.854 ug/l

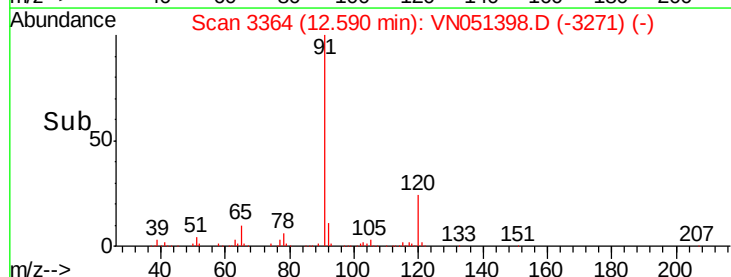
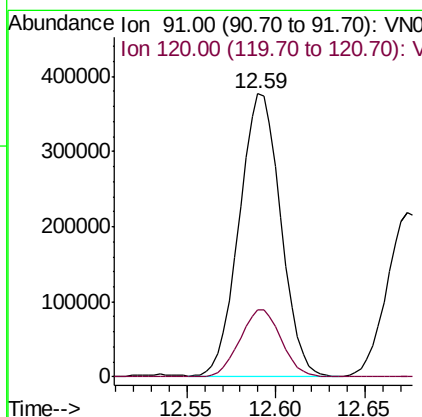
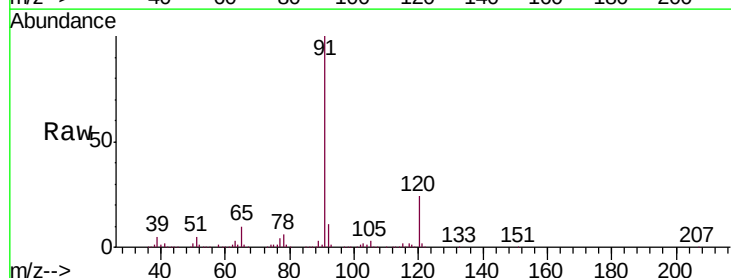
RT: 12.59 min Scan# 3364

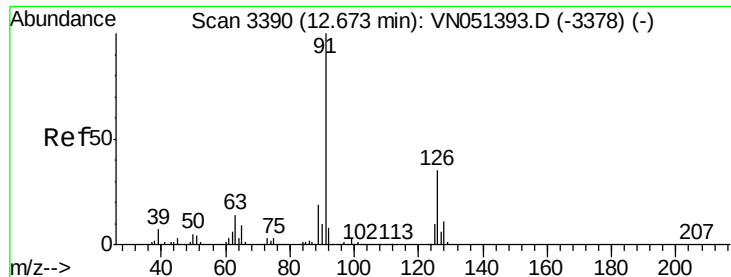
Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	607869		
120	23.7	11.9	35.5	





#79

2-Chlorotoluene

Concen: 20.249 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tgt Ion: 91 Resp: 371103

Ion Ratio Lower Upper

91 100

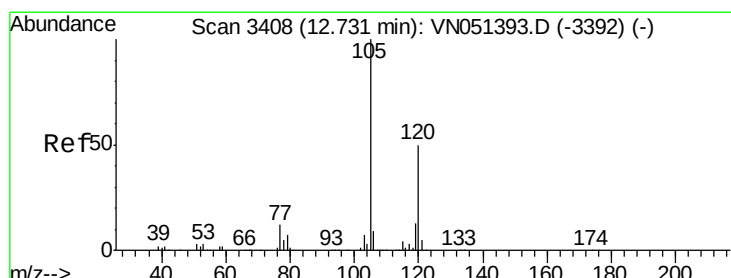
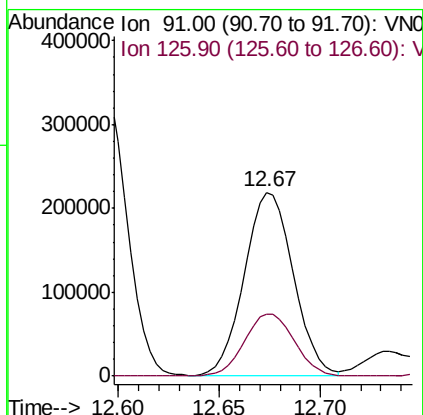
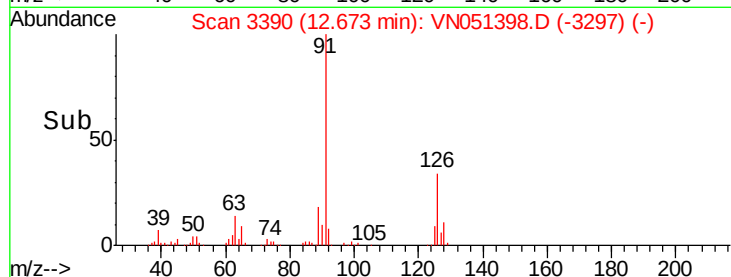
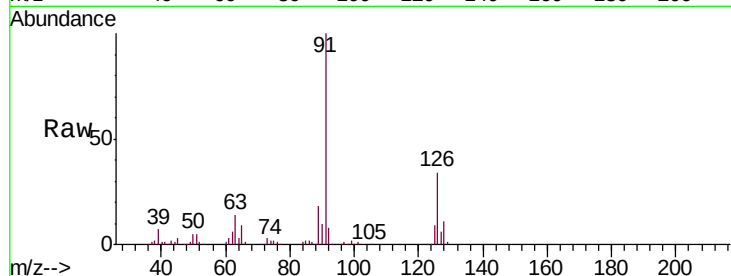
126 34.7 17.6 52.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 20.560 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN051398.D

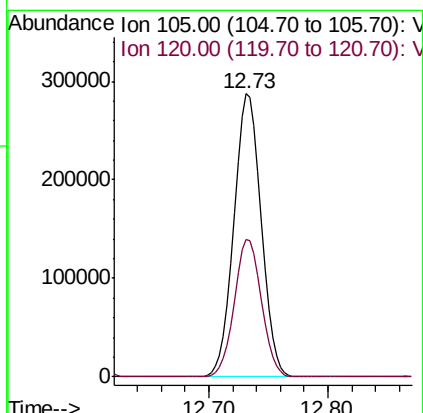
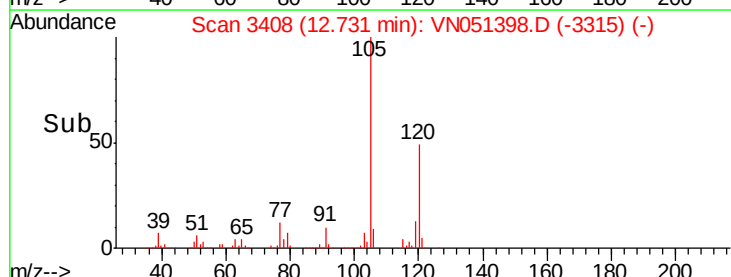
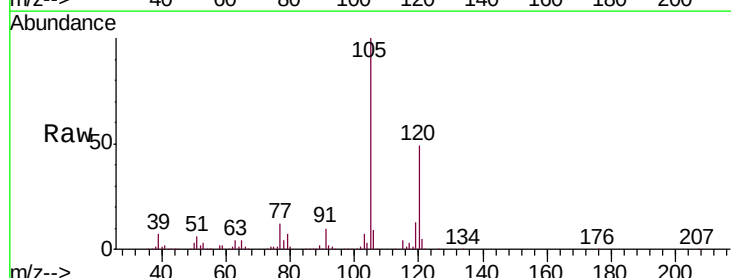
Acq: 22 Sep 2018 15:32

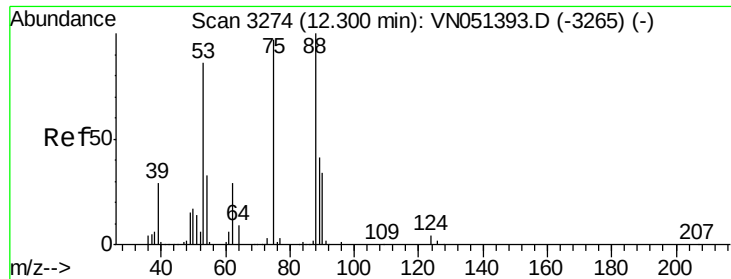
Tgt Ion: 105 Resp: 455445

Ion Ratio Lower Upper

105 100

120 48.5 24.8 74.4





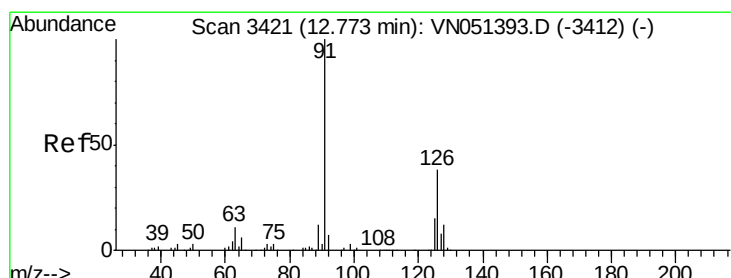
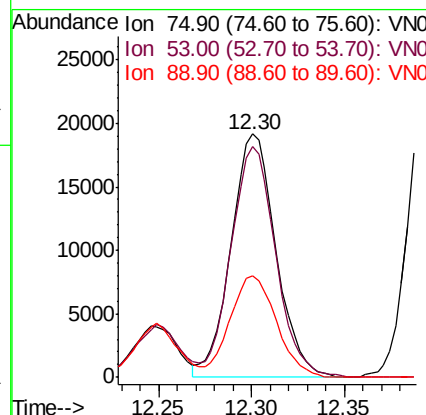
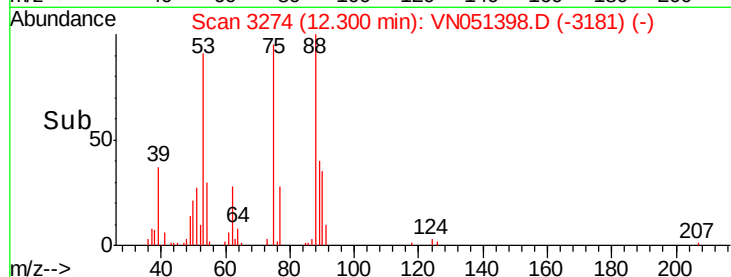
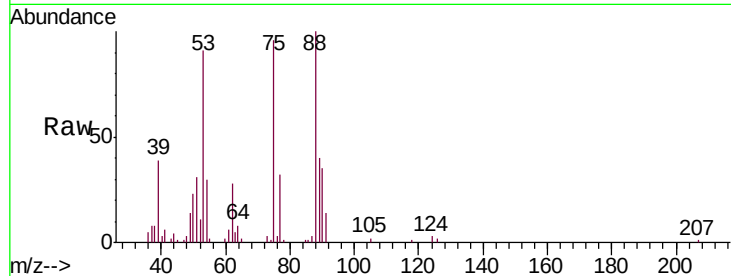
#81
trans-1,4-Dichloro-2-butene
Concen: 18.486 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
75	100		
53	94.8	73.9	110.9
89	43.1	36.7	55.1

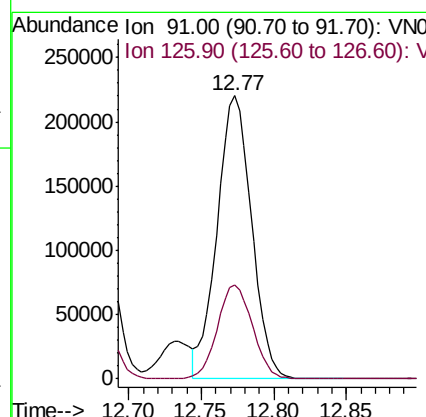
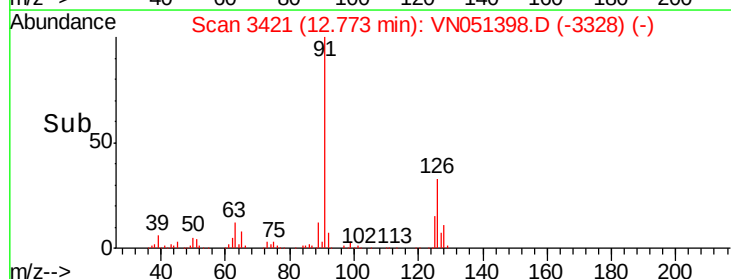
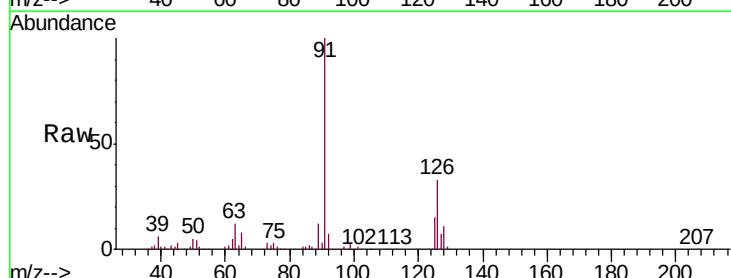
Manual Integrations
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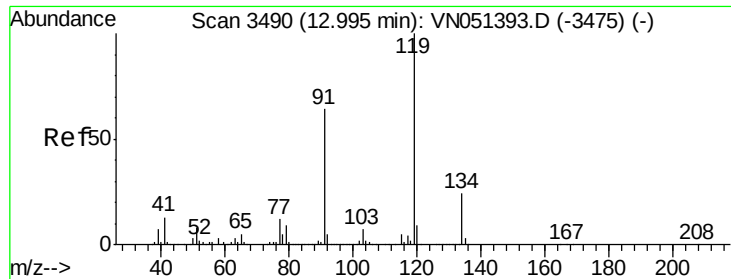
MMDadoda
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#82
4-Chlorotoluene
Concen: 19.917 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.8	17.5	52.5





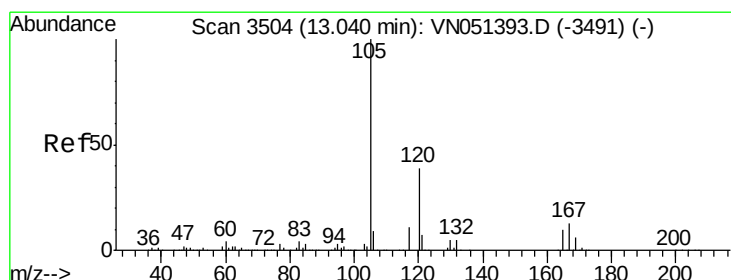
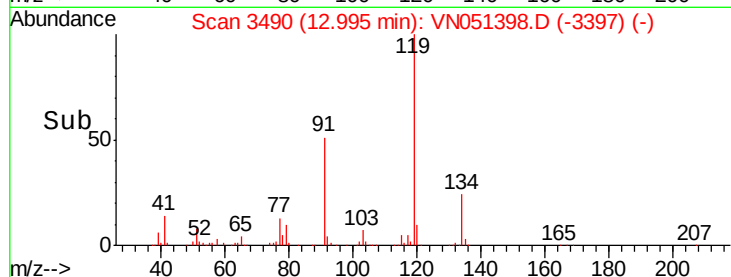
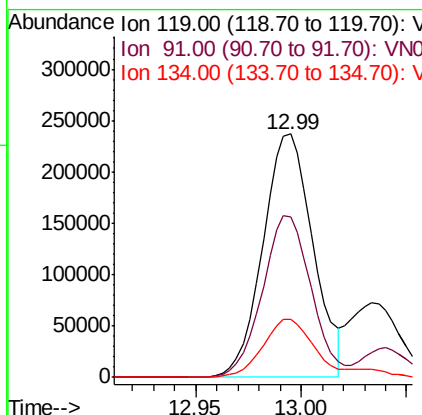
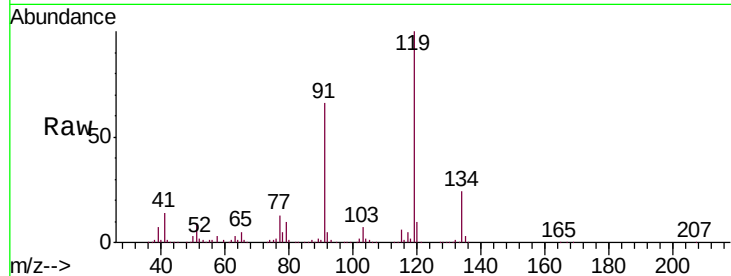
#83
 tert-Butylbenzene
 Concen: 19.862 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	391602		
91	64.6	31.7	95.1	
134	24.5	12.3	36.9	

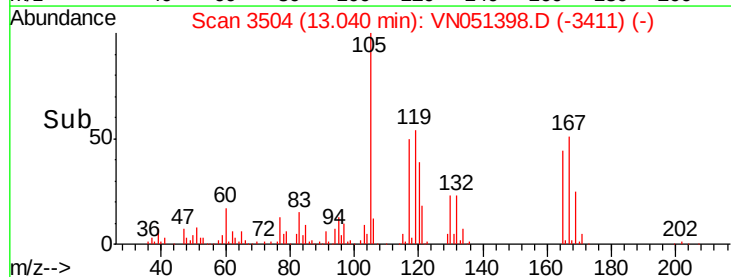
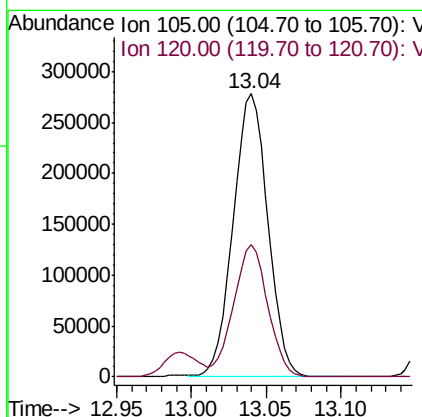
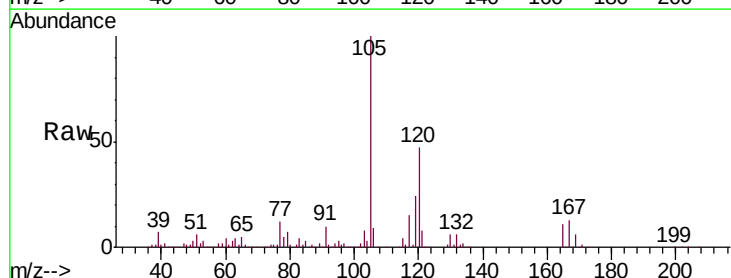
Manual Integrations
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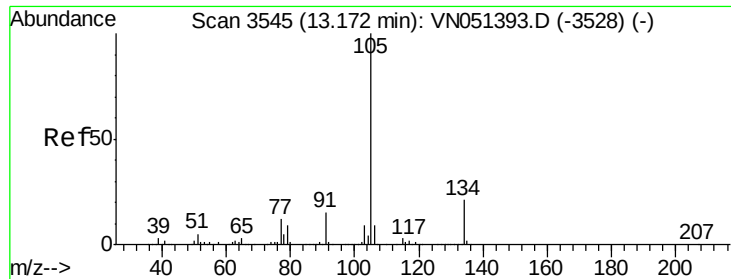
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.102 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	448698		
120	46.3	22.9	68.7	





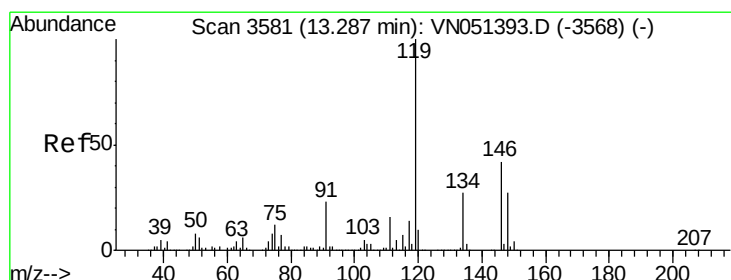
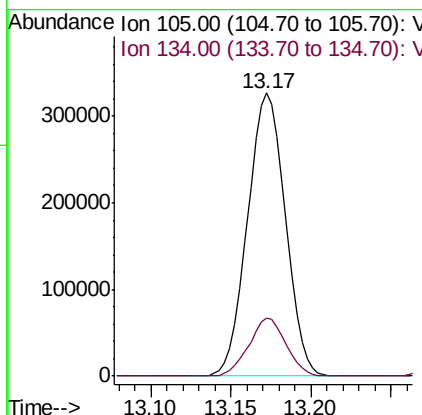
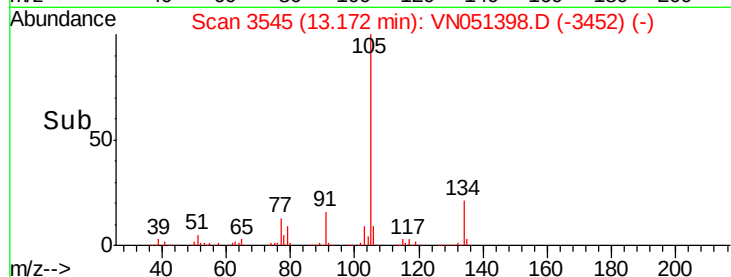
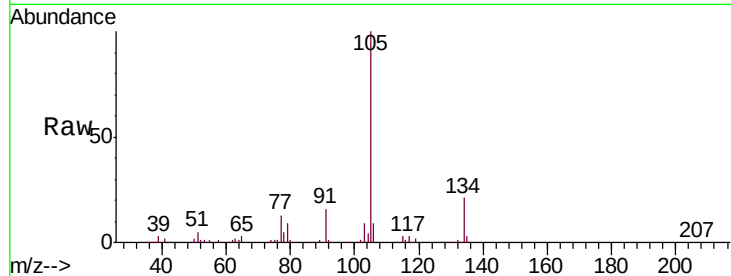
#85
 sec-Butylbenzene
 Concen: 19.835 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	529063		
134	20.1	10.4	31.1	

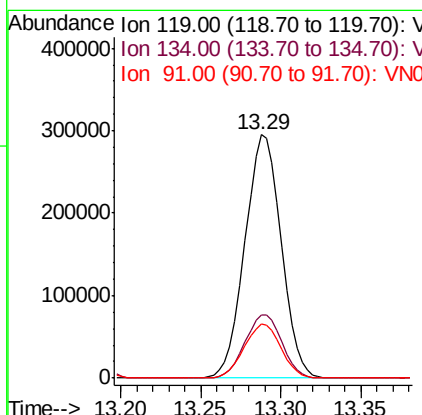
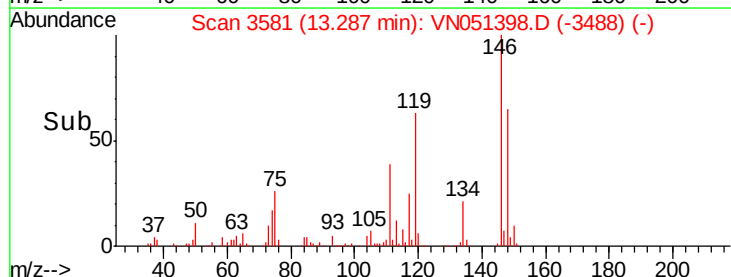
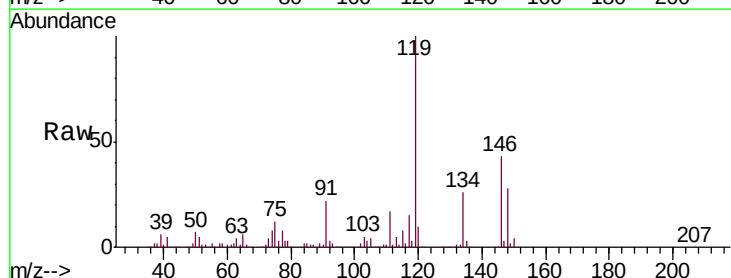
Manual Integrations
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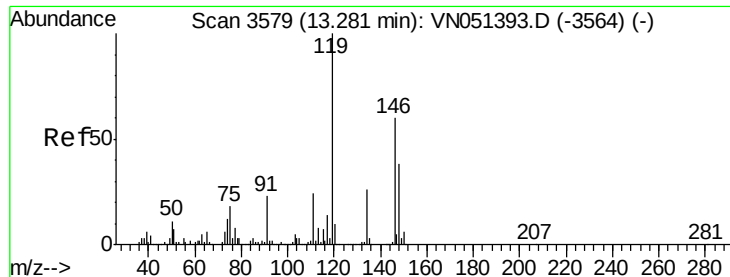
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#86
 p-Isopropyltoluene
 Concen: 19.814 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	457311		
134	26.5	13.3	39.9	
91	22.5	11.4	34.2	





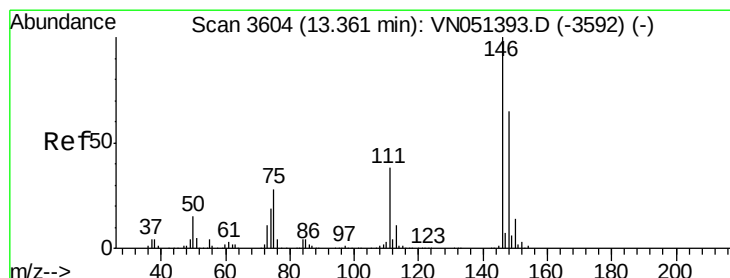
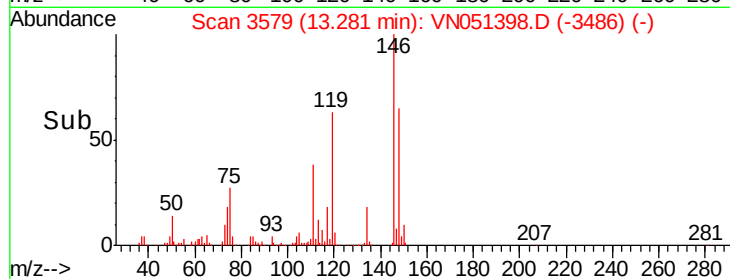
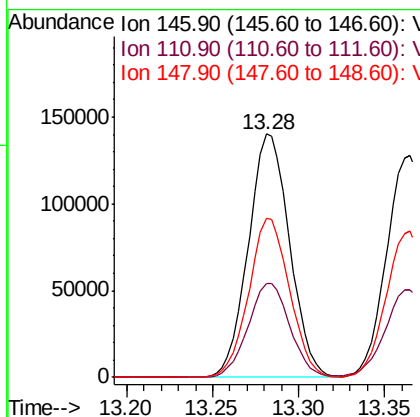
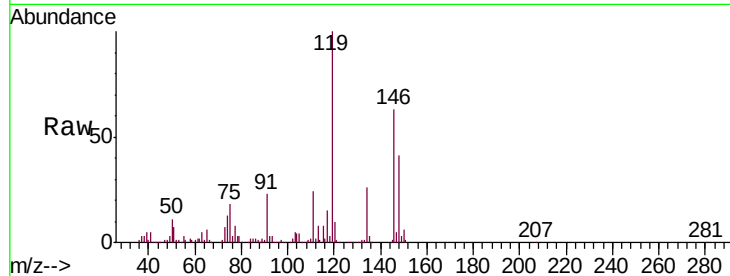
#87
 1,3-Dichlorobenzene
 Concen: 19.588 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	233111		
111	39.1	19.7	59.1	
148	64.7	31.9	95.7	

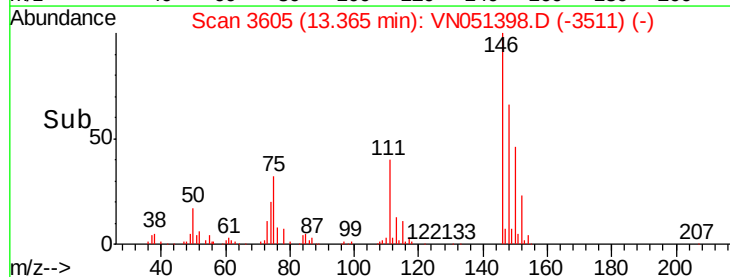
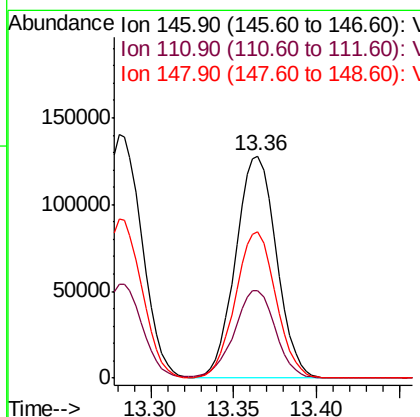
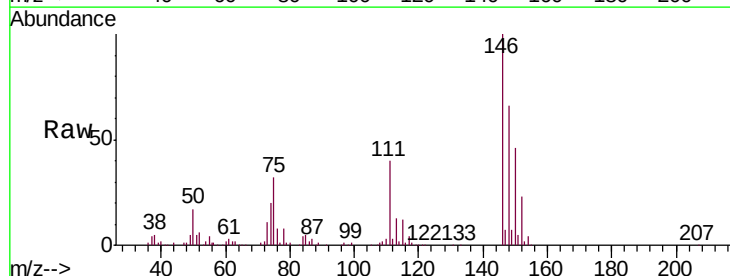
Manual Integrations
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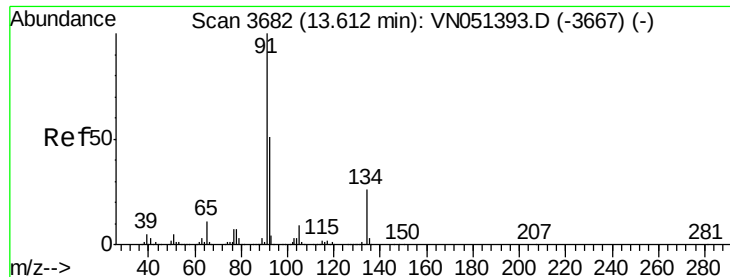
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#88
 1,4-Dichlorobenzene
 Concen: 19.040 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	218026		
111	40.2	19.1	57.1	
148	65.8	32.5	97.5	





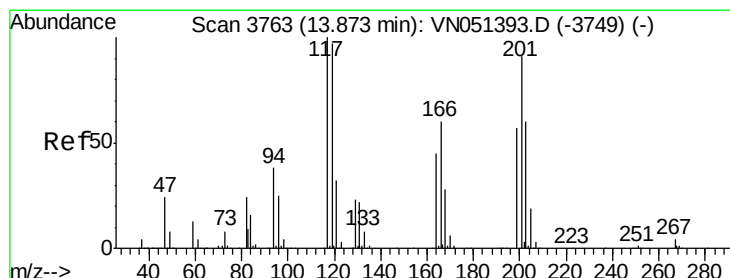
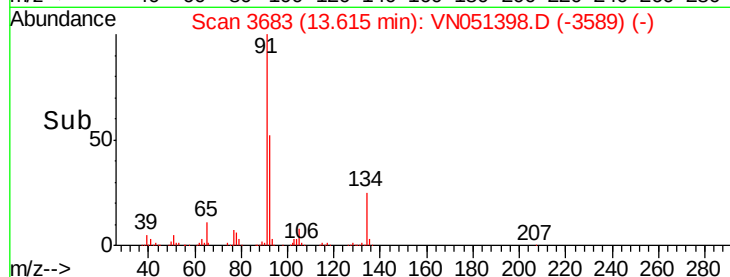
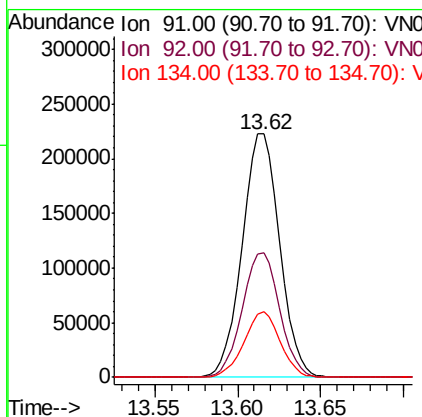
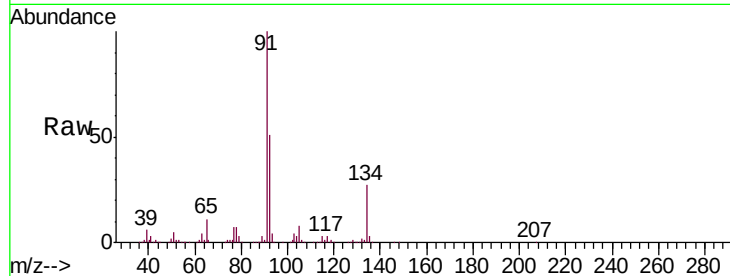
#89
n-Butylbenzene
Concen: 18.459 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.1	25.5	76.5
134	25.9	13.3	39.8

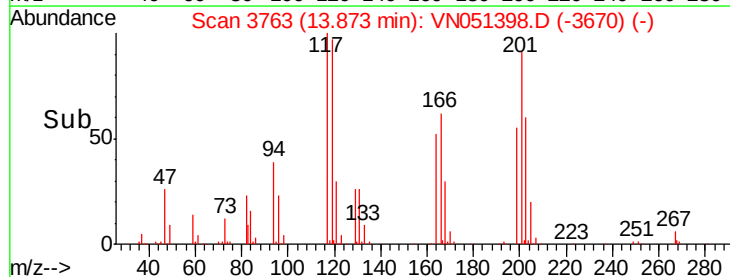
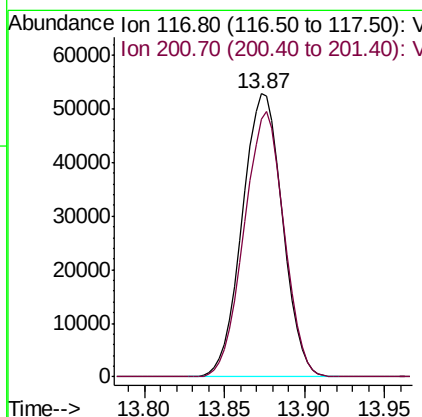
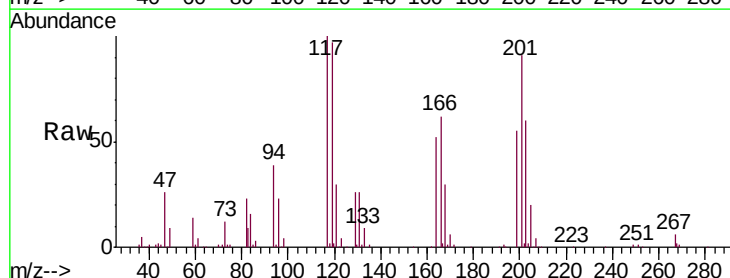
Manual Integrations
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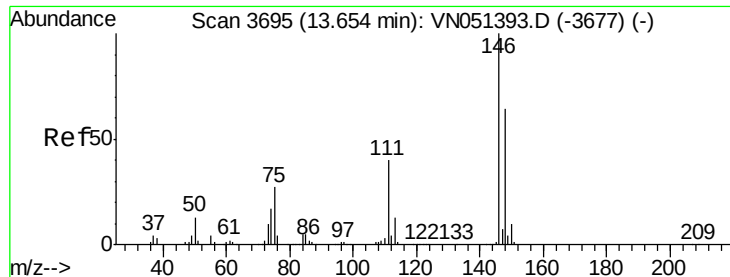
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#90
Hexachloroethane
Concen: 19.799 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.5	45.5	136.4





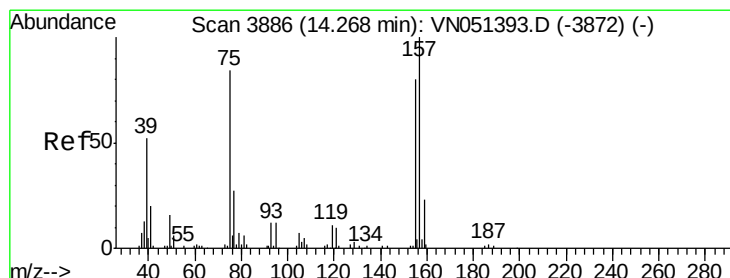
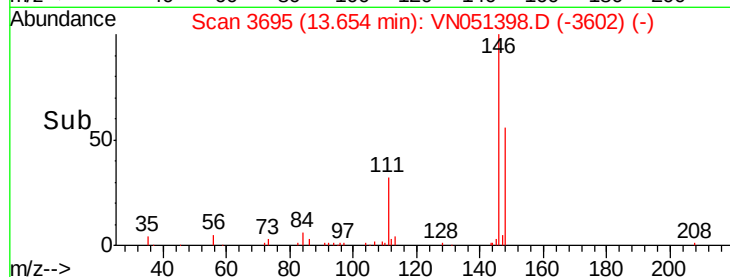
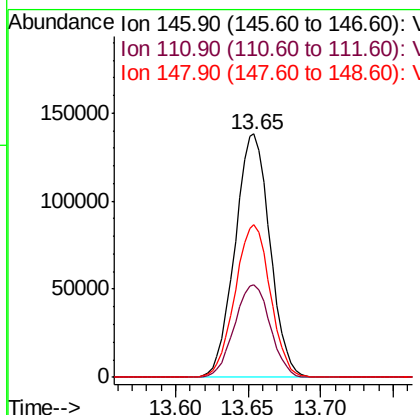
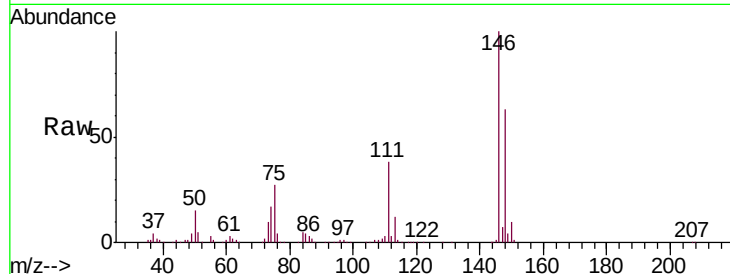
#91
 1,2-Dichlorobenzene
 Concen: 20.036 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	231352		
111	39.0	20.0	60.0	
148	63.5	32.1	96.5	

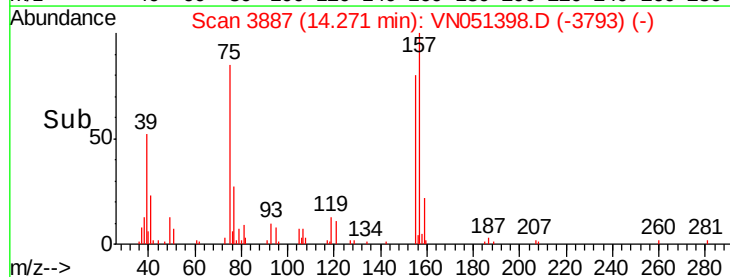
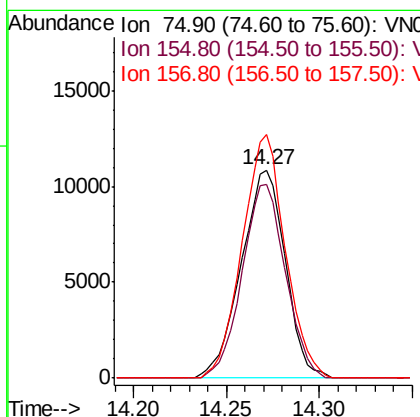
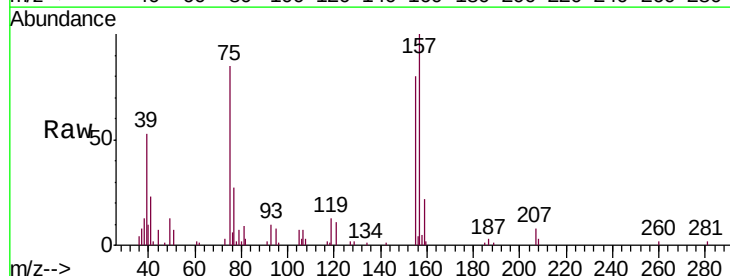
Manual Integrations
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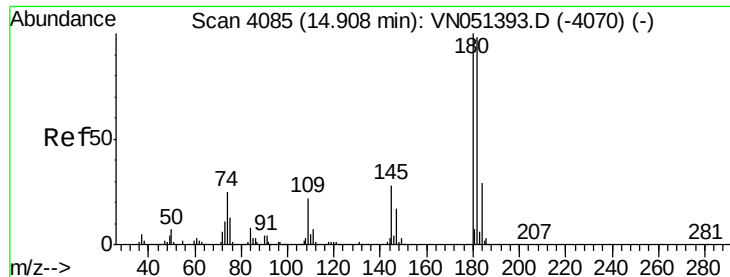
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.788 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN051398.D
 Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	17889		
155	91.4	46.9	140.6	
157	114.4	58.4	175.1	





#93

1,2,4-Trichlorobenzene

Concen: 19.719 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN051398.D

Acq: 22 Sep 2018 15:32

Instrument :

MSVOA_N

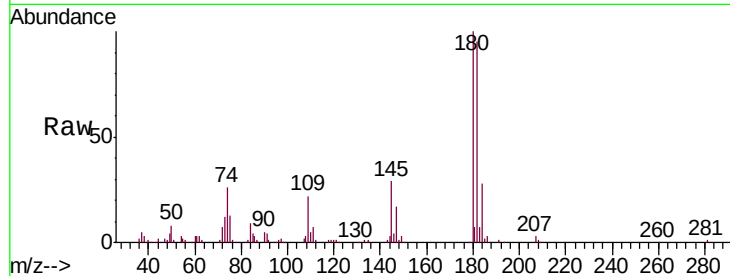
ClientSampleId :

VSTDIC020

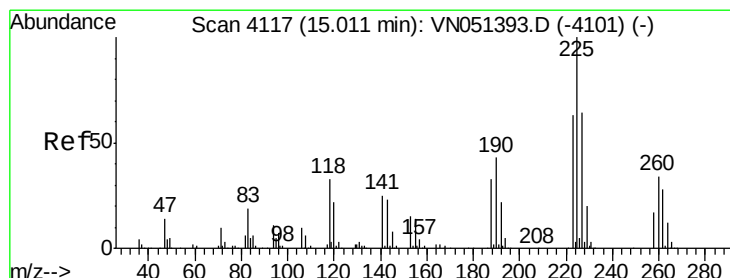
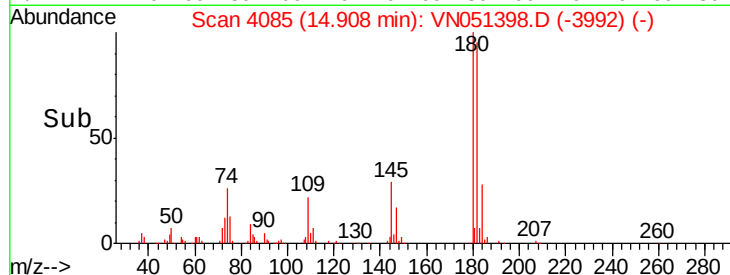
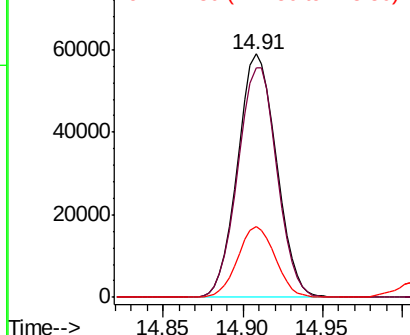
Tgt Ion:	180	Resp:	97142
Ion Ratio	Lower	Upper	
180	100		
182	95.2	48.5	145.6
145	28.1	14.1	42.4

Manual Integrations
APPROVED

MMDadoda
9/24/2018 2:15:23 PM



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 19.690 ug/l

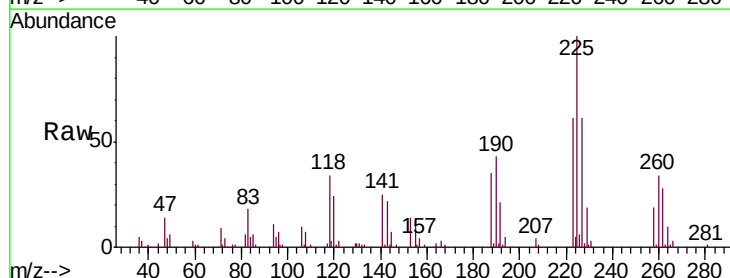
RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

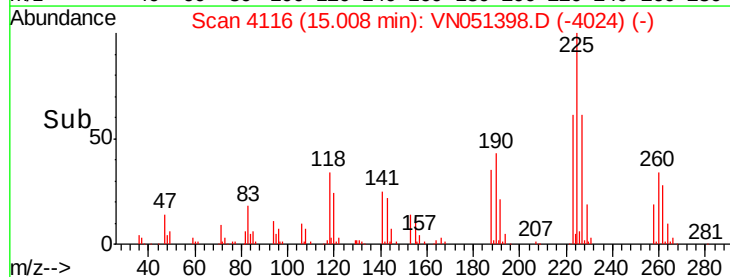
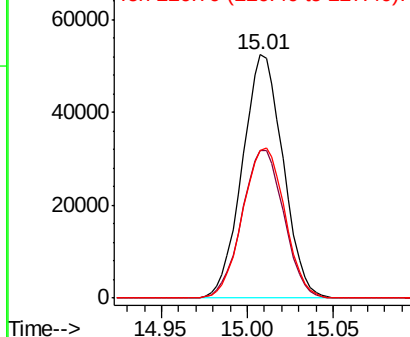
Lab File: VN051398.D

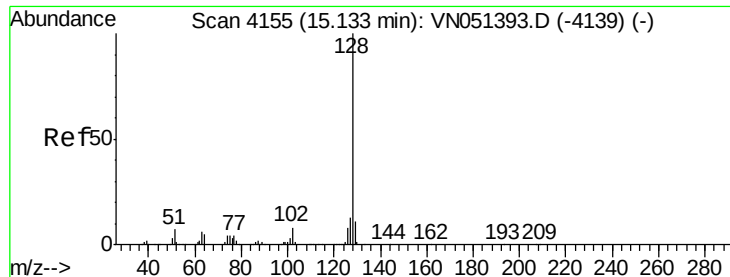
Acq: 22 Sep 2018 15:32

Tgt Ion:	225	Resp:	86024
Ion Ratio	Lower	Upper	
225	100		
223	62.5	31.9	95.9
227	64.0	32.5	97.5



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





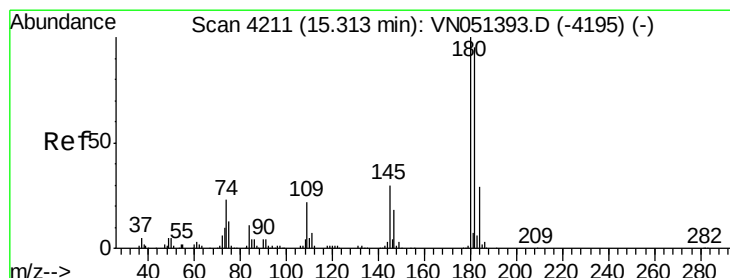
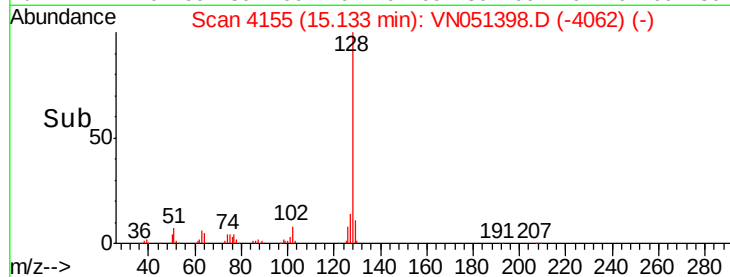
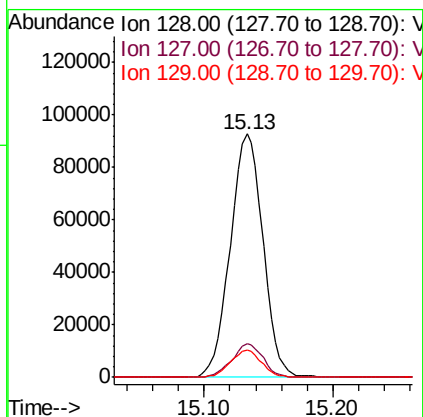
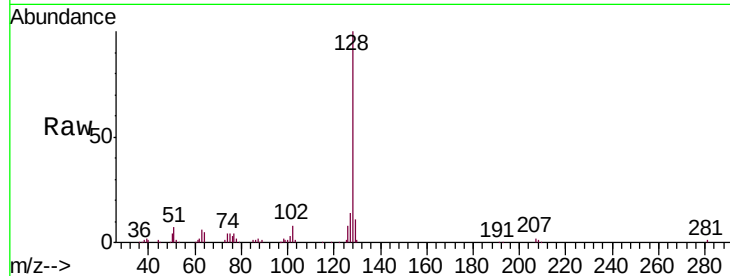
#95
Naphthalene
Concen: 19.498 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.7	8.6	12.8

Manual Integrations
APPROVED

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#96
1,2,3-Trichlorobenzene
Concen: 17.777 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN051398.D
Acq: 22 Sep 2018 15:32

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.2	141.6
145	29.5	14.6	43.8

