

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031619\
 Data File : VN054340.D
 Acq On : 16 Mar 2019 16:46
 Operator : JC/SP
 Sample : VN0316WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBS01

Manual Integrations
 APPROVED

MMDadoda
 3/18/2019 11:30:45 AM

Quant Time: Mar 18 06:02:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1202549	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1881809	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1622947	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	718467	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	684221	53.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.16%	
35) Dibromofluoromethane	7.59	113	628478	51.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.56%	
50) Toluene-d8	10.09	98	2221644	49.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.12%	
62) 4-Bromofluorobenzene	12.40	95	729512	46.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.02%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	250567	21.985	ug/l	99
3) Chloromethane	2.06	50	229463	20.727	ug/l	100
4) Vinyl Chloride	2.19	62	270321	21.363	ug/l	99
5) Bromomethane	2.57	94	180232	20.566	ug/l	98
6) Chloroethane	2.71	64	162855	21.271	ug/l	99
7) Trichlorofluoromethane	3.02	101	355626	21.139	ug/l	99
8) Diethyl Ether	3.41	74	181851	23.720	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.75	101	287044	22.769	ug/l	99
10) Methyl Iodide	3.94	142	382108	22.201	ug/l	100
11) Tert butyl alcohol	4.82	59	82593	94.336	ug/l	99
12) 1,1-Dichloroethene	3.73	96	279869	22.402	ug/l	98
13) Acrolein	3.61	56	77012	92.827	ug/l	97
14) Allyl chloride	4.32	41	330941	20.646	ug/l	100
15) Acrylonitrile	4.99	53	416047	115.686	ug/l	100
16) Acetone	3.82	43	314241	85.937	ug/l	99
17) Carbon Disulfide	4.04	76	546434	17.448	ug/l	99
18) Methyl Acetate	4.33	43	195064	26.367	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	693629	22.399	ug/l	98
20) Methylene Chloride	4.55	84	266309	22.180	ug/l	95
21) trans-1,2-Dichloroethene	5.04	96	255836	21.373	ug/l	99
22) Diisopropyl ether	5.96	45	726706	22.716	ug/l	97
23) Vinyl Acetate	5.90	43	2496910	105.858	ug/l	100
24) 1,1-Dichloroethane	5.85	63	460617	22.424	ug/l	98
25) 2-Butanone	6.85	43	473301	110.280	ug/l	100
26) 2,2-Dichloropropane	6.82	77	312823	17.318	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	300382	22.494	ug/l	98
28) Bromochloromethane	7.19	49	184124	21.926	ug/l	99
29) Tetrahydrofuran	7.22	42	309389	112.119	ug/l	98
30) Chloroform	7.37	83	490247	22.872	ug/l	99
31) Cyclohexane	7.65	56	408935	20.571	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	414752	21.425	ug/l	99
36) 1,1-Dichloropropene	7.79	75	360348	20.793	ug/l	99
37) Ethyl Acetate	6.94	43	208336	20.922	ug/l	99
38) Carbon Tetrachloride	7.77	117	362950	19.971	ug/l	99

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MMDadoda
 3/18/2019 11:30:45 AM

Quant Time: Mar 18 06:02:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	399821	18.751	ug/l	98
40) Benzene	8.04	78	1077443	21.727	ug/l	99
41) Methacrylonitrile	7.18	41	111896	19.681	ug/l	95
42) 1,2-Dichloroethane	8.13	62	365289	21.818	ug/l	100
43) Isopropyl Acetate	8.17	43	342835	19.615	ug/l	99
44) Trichloroethene	8.84	130	320850	20.827	ug/l	99
45) 1,2-Dichloropropane	9.12	63	268589	21.812	ug/l	98
46) Dibromomethane	9.21	93	180246	21.664	ug/l	97
47) Bromodichloromethane	9.40	83	352107	21.110	ug/l	99
48) Methyl methacrylate	9.20	41	188370	21.237	ug/l	99
49) 1,4-Dioxane	9.20	88	54503	434.413	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	1009526	109.143	ug/l	100
52) Toluene	10.16	92	666906	21.209	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	298844	17.029	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	376215	19.356	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	254532	22.169	ug/l	98
56) Ethyl methacrylate	10.43	69	277238	20.251	ug/l	99
57) 1,3-Dichloropropane	10.71	76	406722	21.664	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	533750	100.645	ug/l	98
59) 2-Hexanone	10.75	43	621763	101.023	ug/l	99
60) Dibromochloromethane	10.90	129	264623	20.477	ug/l	97
61) 1,2-Dibromoethane	11.00	107	249835	21.413	ug/l	99
64) Tetrachloroethene	10.63	164	331304	21.114	ug/l	98
65) Chlorobenzene	11.43	112	765017	21.468	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	278326	21.500	ug/l	99
67) Ethyl Benzene	11.51	91	1247237	21.114	ug/l	99
68) m/p-Xylenes	11.62	106	976888	42.311	ug/l	99
69) o-Xylene	11.95	106	487188	21.646	ug/l	98
70) Styrene	11.96	104	735513	20.837	ug/l	98
71) Bromoform	12.13	173	162820	18.074	ug/l	99
73) Isopropylbenzene	12.25	105	1268022	22.060	ug/l	100
74) N-amyl acetate	12.07	43	264103	20.699	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	281773	23.008	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	262890m	24.882	ug/l	
77) Bromobenzene	12.53	156	332950	21.889	ug/l	98
78) n-propylbenzene	12.59	91	1327293	21.280	ug/l	100
79) 2-Chlorotoluene	12.67	91	830859	22.155	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1029161	21.525	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	44250	14.317	ug/l #	79
82) 4-Chlorotoluene	12.77	91	801452	21.402	ug/l	99
83) tert-Butylbenzene	12.99	119	948902	21.562	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1013699	21.611	ug/l	99
85) sec-Butylbenzene	13.17	105	1179842	20.672	ug/l	100
86) p-Isopropyltoluene	13.29	119	1018169	20.335	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	547652	21.367	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	525526	20.872	ug/l	99
89) n-Butylbenzene	13.61	91	706612	18.573	ug/l	100
90) Hexachloroethane	13.87	117	153127	18.469	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	559076	22.313	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	39836	21.020	ug/l	99

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ClientSampleId :
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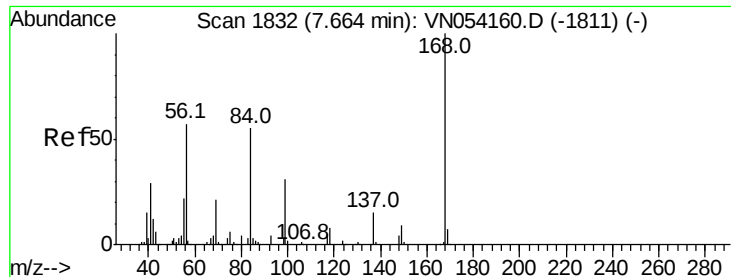
Manual Integrations
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	236601	17.370	ug/l	100
94) Hexachlorobutadiene	15.01	225	163860	17.169	ug/l	98
95) Naphthalene	15.13	128	519858	18.822	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	251437	18.887	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

ClientSampled :

VN0316WBS01

Tot Ion:168 Resp: 1202549

Ion Ratio Lower Upper

168 100

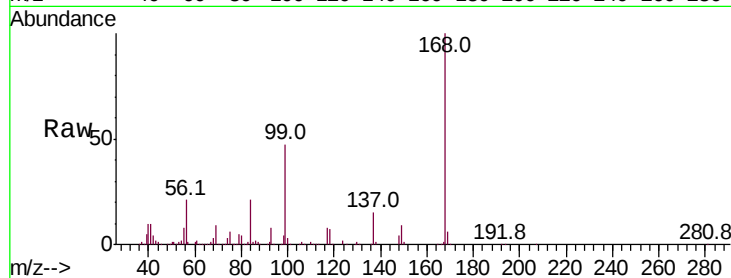
99 46.2 37.1 55.7

Manual Integrations

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3/18/2019 11:30:45 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

500000

400000

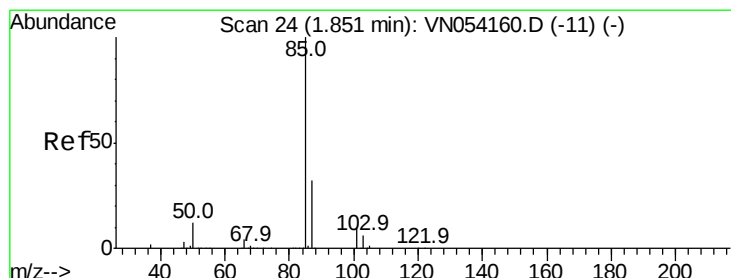
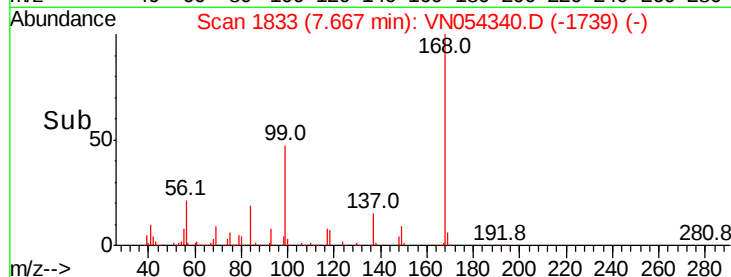
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 21.985 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN054340.D

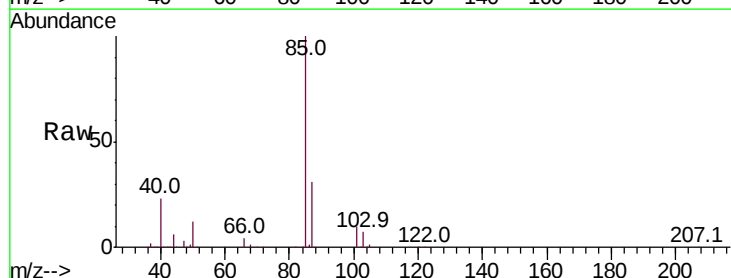
Acq: 16 Mar 2019 16:46

Tgt Ion: 85 Resp: 250567

Ion Ratio Lower Upper

85 100

87 31.4 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

200000

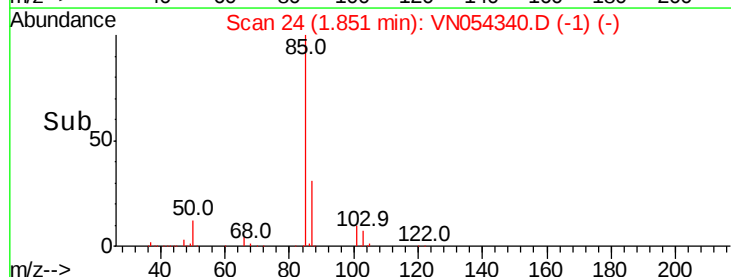
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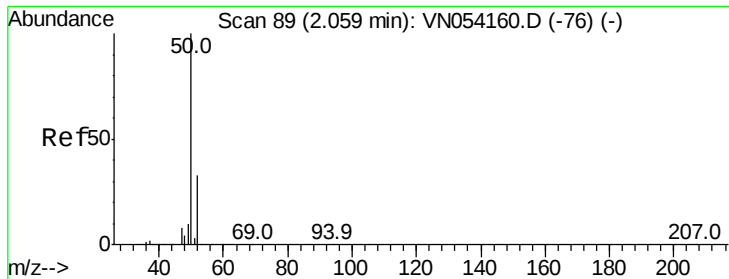
100000

50000

0

Time-->





#3

Chloromethane

Concen: 20.727 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS01

Tot Ion: 50 Resp: 229463

Ion Ratio Lower Upper

50 100

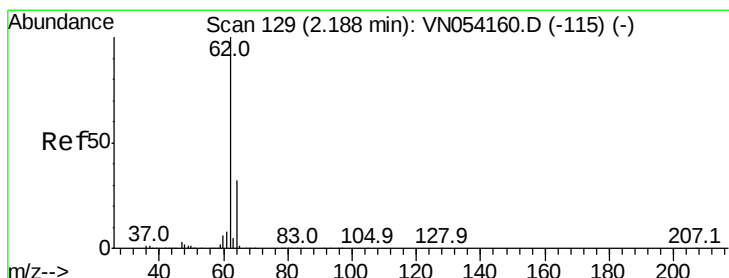
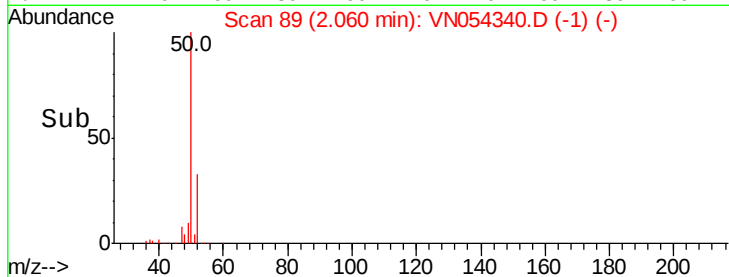
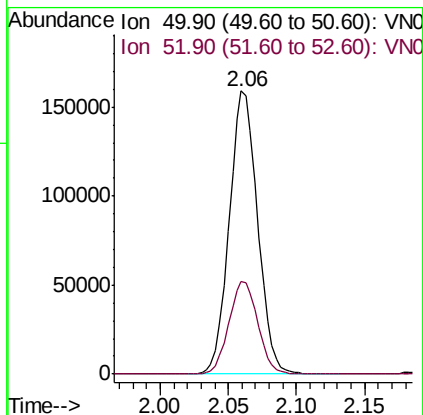
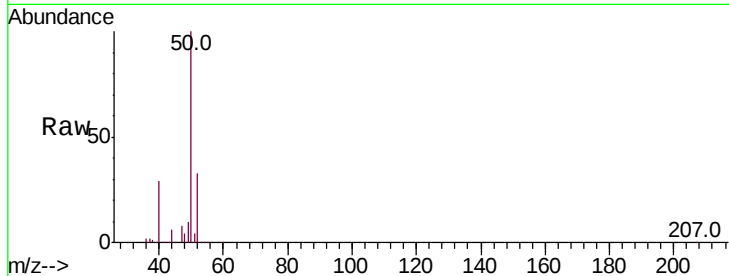
52 32.8 26.4 39.6

Manual Integrations

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3/18/2019 11:30:45 AM



#4

Vinyl Chloride

Concen: 21.363 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054340.D

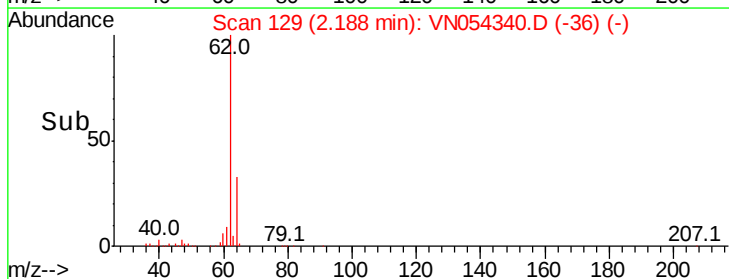
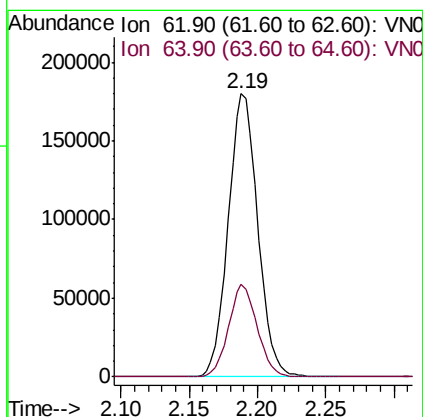
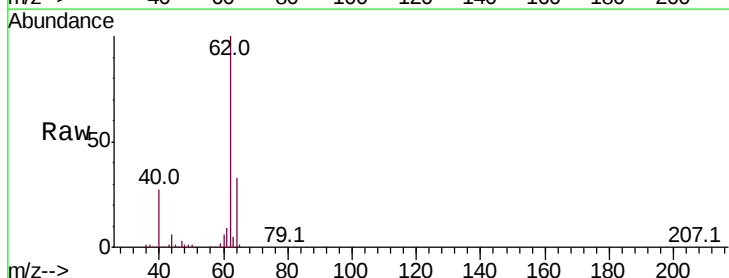
Acq: 16 Mar 2019 16:46

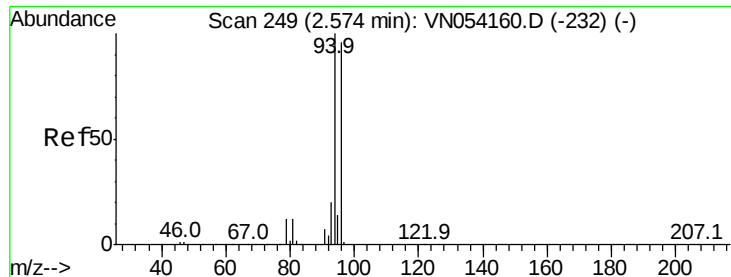
Tgt Ion: 62 Resp: 270321

Ion Ratio Lower Upper

62 100

64 32.6 25.5 38.3





#5

Bromomethane

Concen: 20.566 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

ClientSampled :

VN0316WBS01

Tot Ion: 94 Resp: 180232

Ion Ratio Lower Upper

94 100

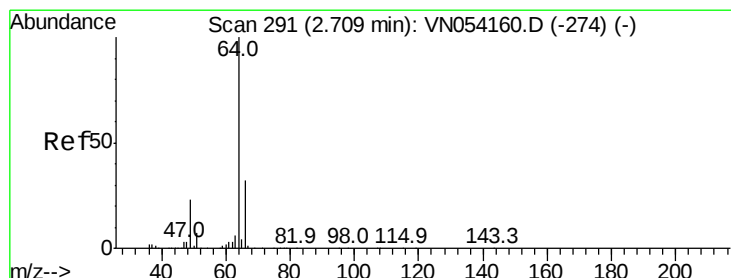
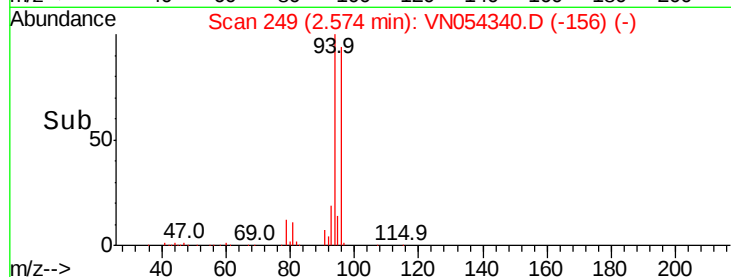
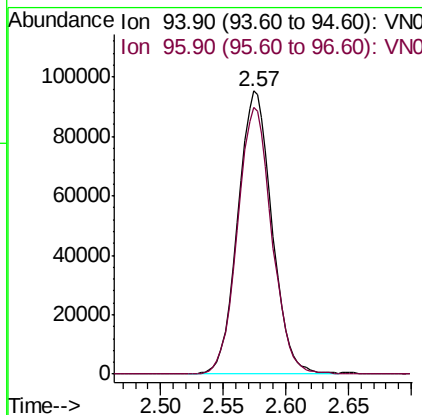
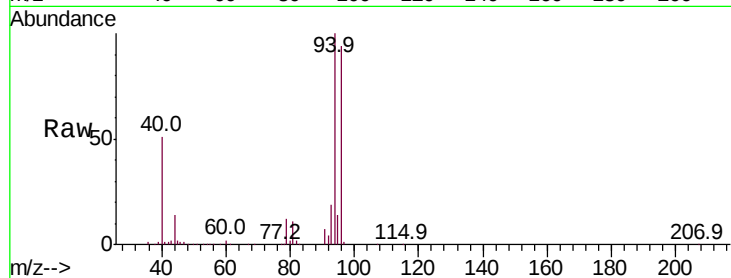
96 94.1 77.0 115.4

Manual Integrations

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3/18/2019 11:30:45 AM



#6

Chloroethane

Concen: 21.271 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054340.D

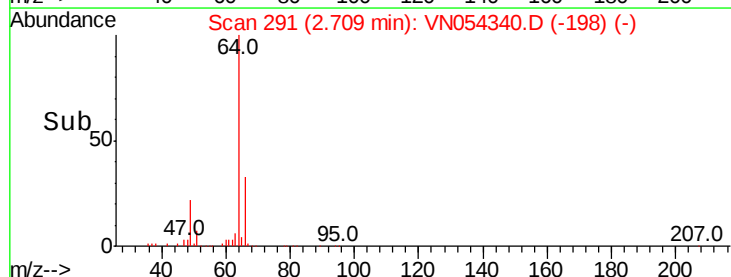
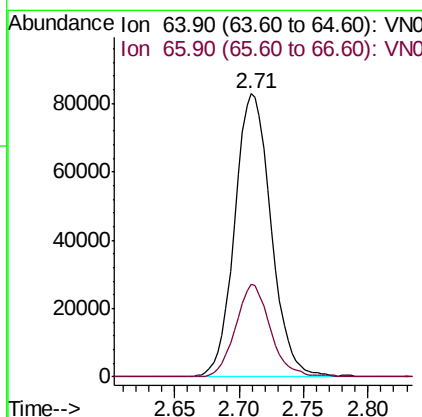
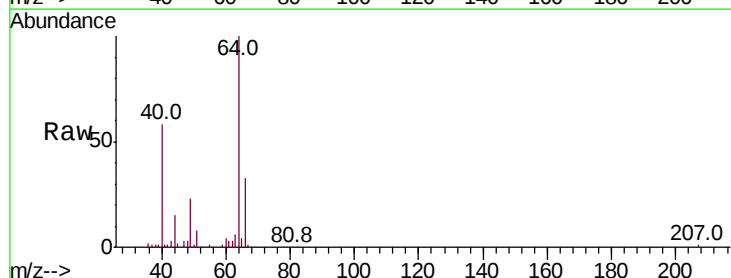
Acq: 16 Mar 2019 16:46

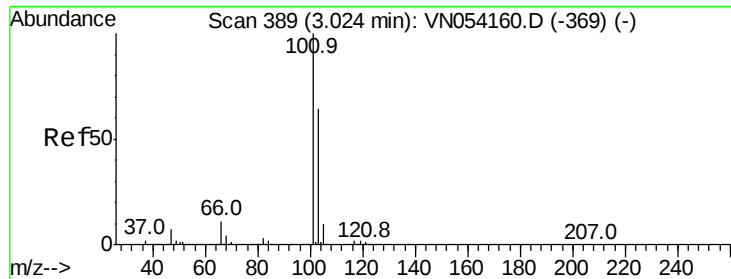
Tgt Ion: 64 Resp: 162855

Ion Ratio Lower Upper

64 100

66 32.8 25.7 38.5





#7

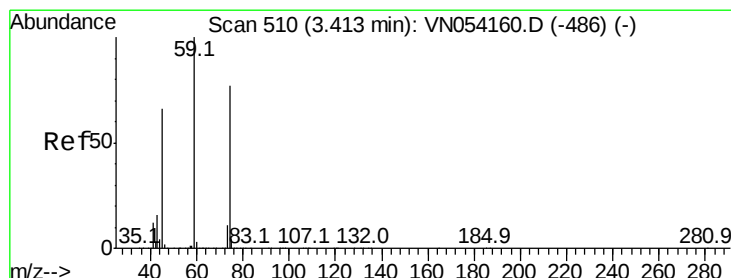
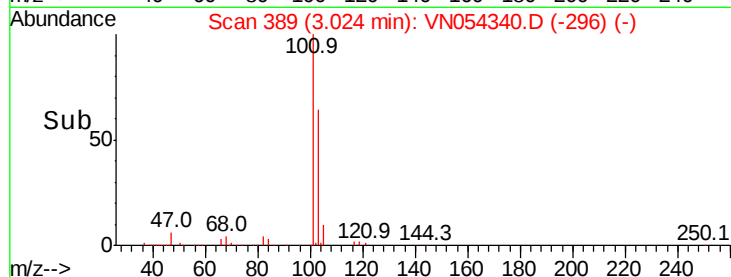
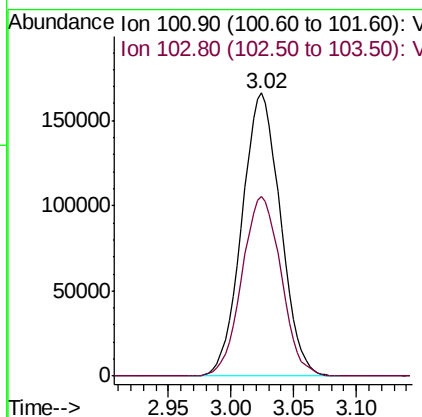
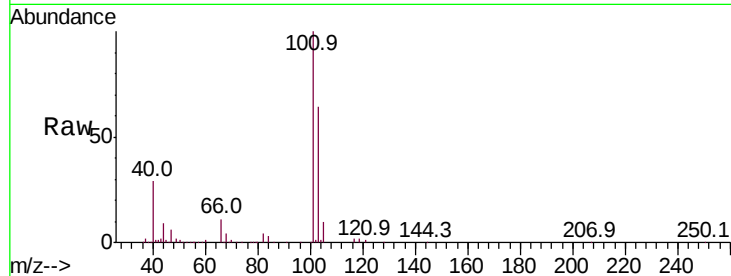
Trichlorofluoromethane
 Concen: 21.139 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN054340.D
 Acq: 16 Mar 2019 16:46

Instrument :
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 ClientSampleId :
 VN0316WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.4	77.2

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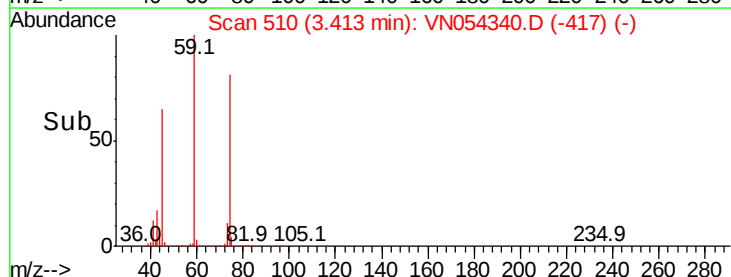
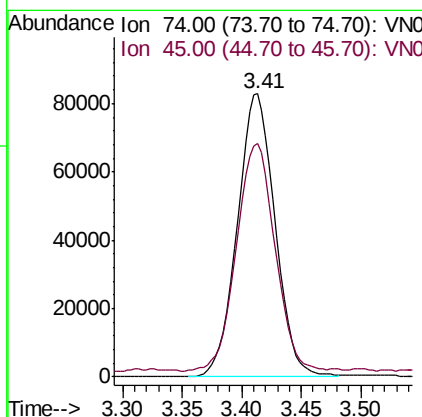
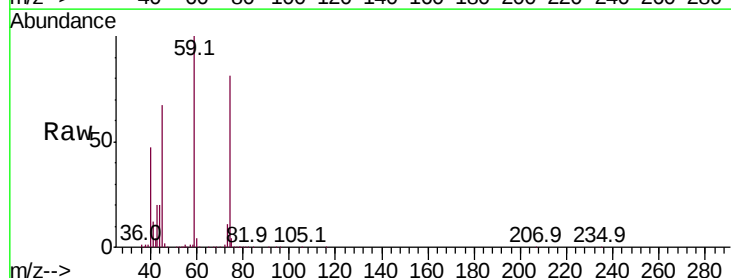
MMDadoda
 3/18/2019 11:30:45 AM

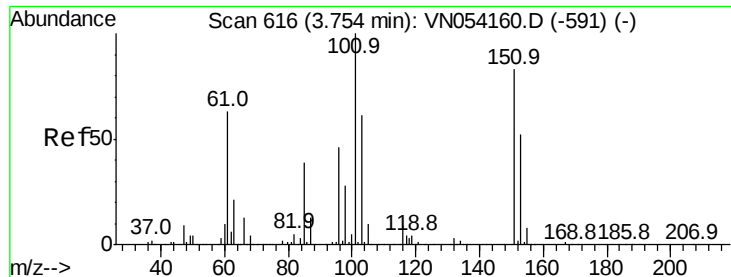


#8

Diethyl Ether
 Concen: 23.720 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN054340.D
 Acq: 16 Mar 2019 16:46

Tgt Ion	Ratio	Lower	Upper
74	100		
45	82.1	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.769 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

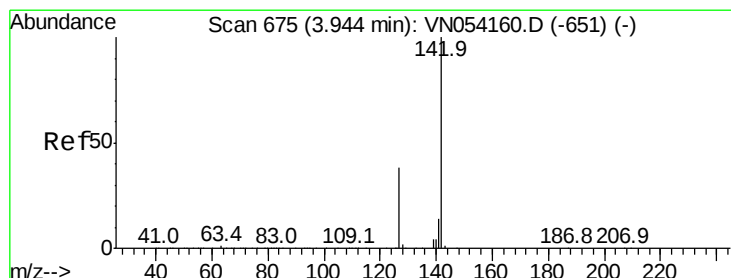
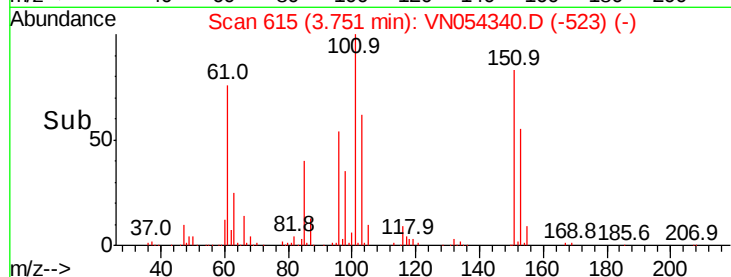
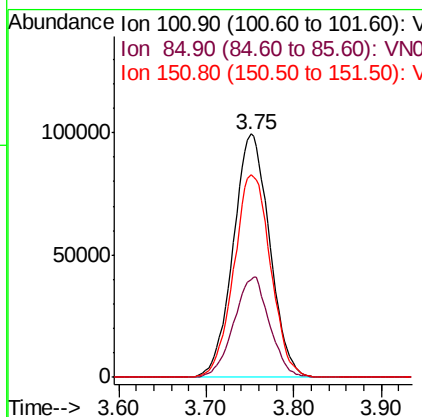
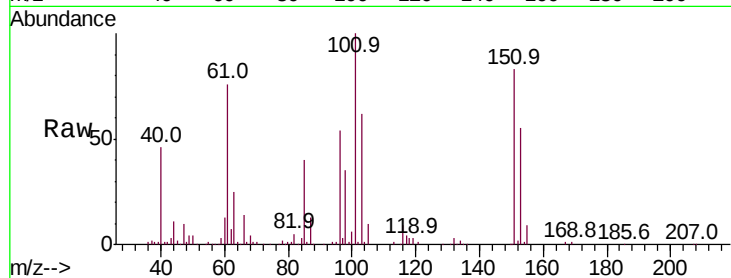
ClientSampled :

VN0316WBS01

Tot Ion:	101	Resp:	287044
Ion Ratio	Lower	Upper	
101	100		
85	40.6	32.4	48.6
151	84.1	68.2	102.2

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#10

Methyl Iodide

Concen: 22.201 ug/l

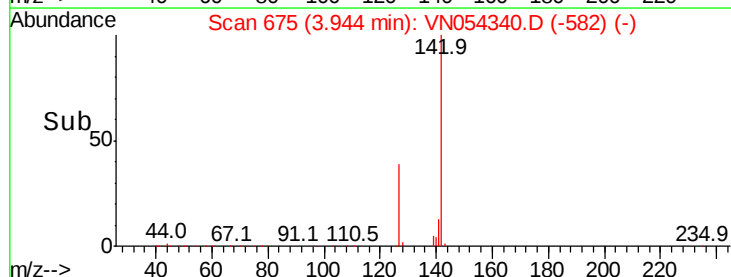
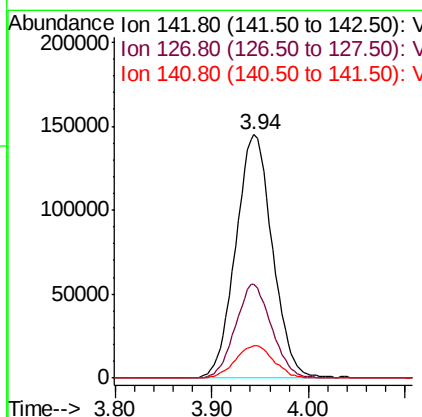
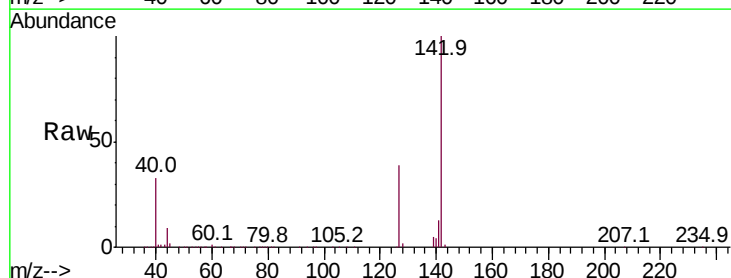
RT: 3.94 min Scan# 675

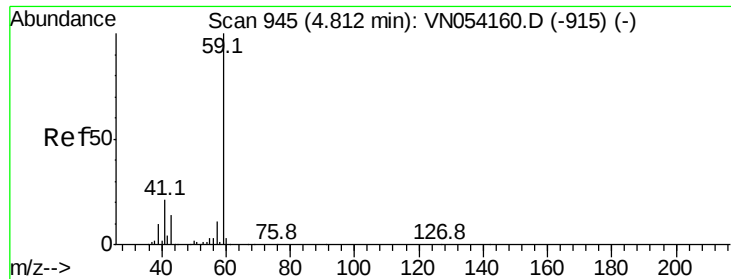
Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Tgt Ion:	142	Resp:	382108
Ion Ratio	Lower	Upper	
142	100		
127	38.1	30.3	45.5
141	13.9	11.2	16.8





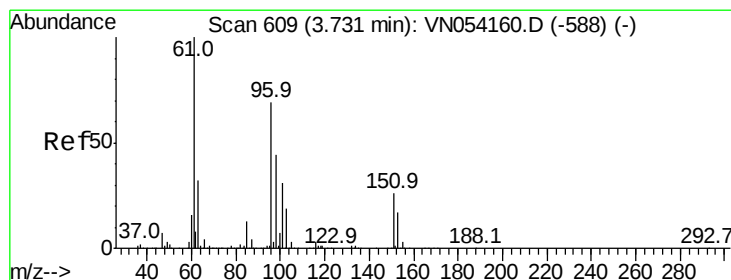
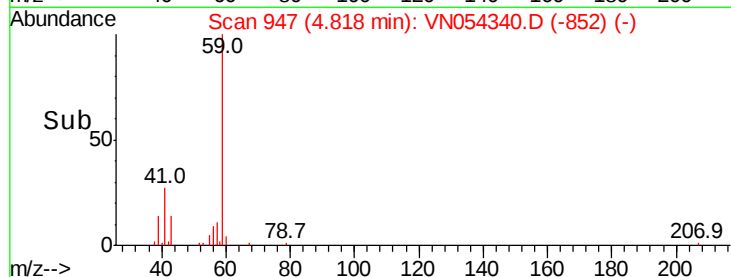
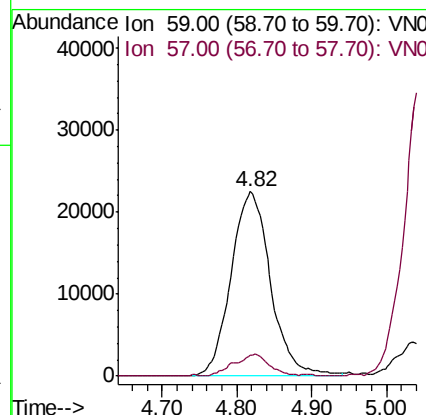
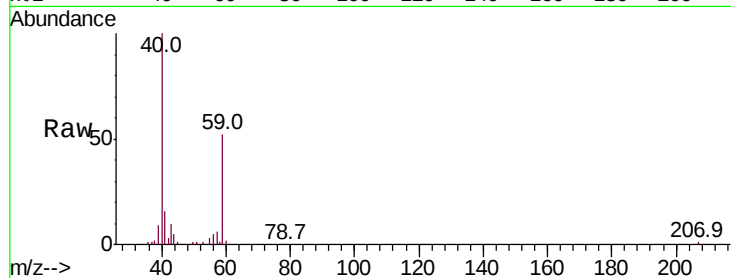
#11
Tert butyl alcohol
Concen: 94.336 ug/l
RT: 4.82 min Scan# 947
Delta R.T. 0.01 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS01

Tot Ion: 59 Resp: 82593
Ion Ratio Lower Upper
59 100
57 10.8 9.0 13.6

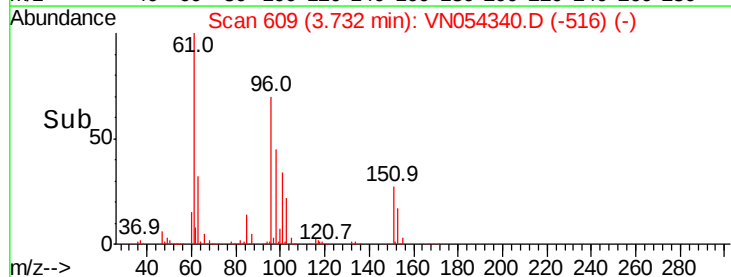
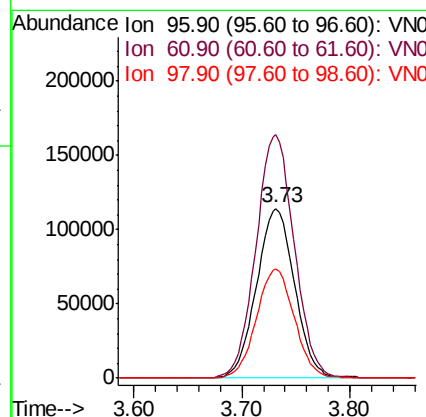
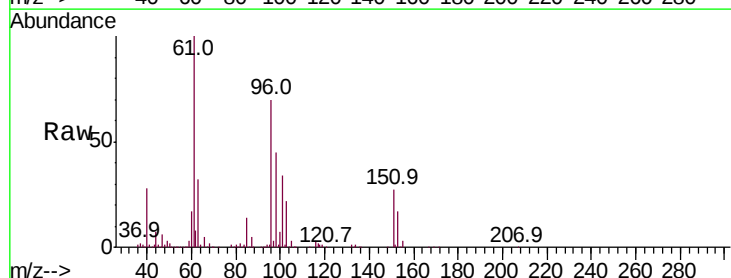
Manual Integrations
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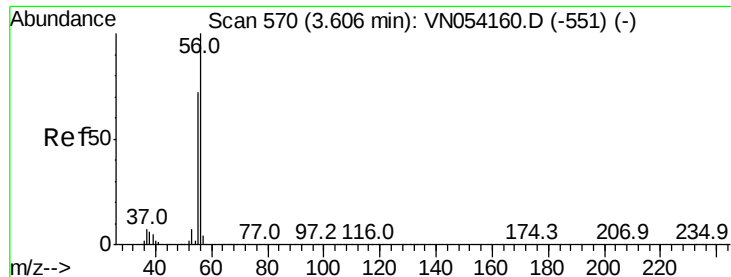
MMDadoda
3/18/2019 11:30:45 AM



#12
1,1-Dichloroethene
Concen: 22.402 ug/l
RT: 3.73 min Scan# 609
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion: 96 Resp: 279869
Ion Ratio Lower Upper
96 100
61 143.3 116.5 174.7
98 64.4 51.0 76.4





#13

Acrolein

Concen: 92.827 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS01

Tot Ion: 56 Resp: 77012

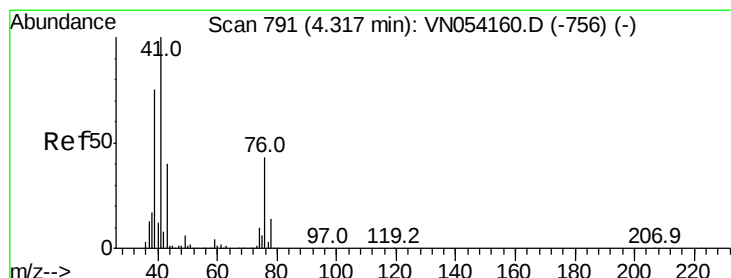
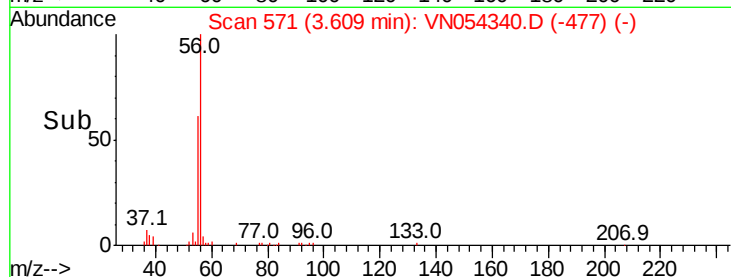
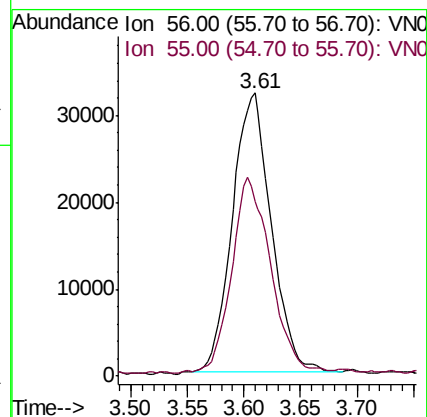
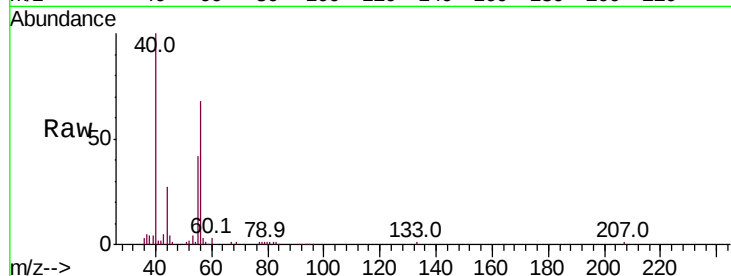
Ion Ratio Lower Upper

56 100

55 68.1 56.7 85.1

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#14

Allyl chloride

Concen: 20.646 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

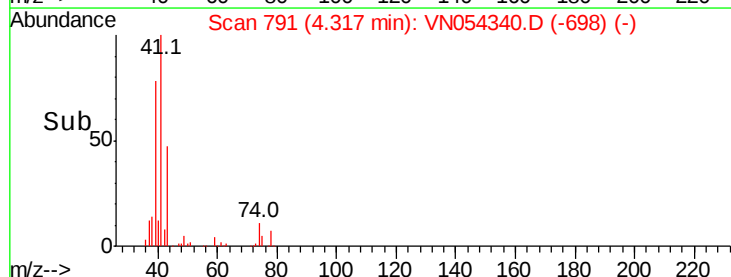
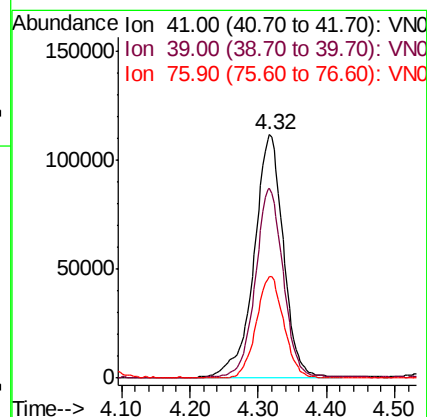
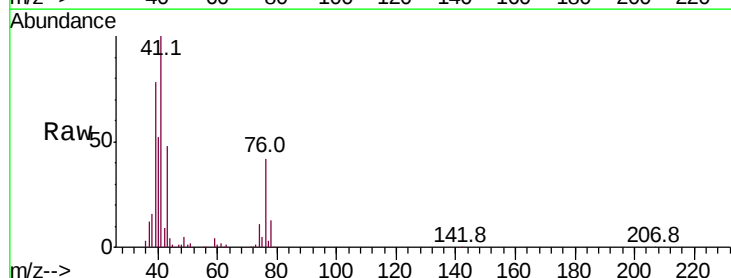
Tgt Ion: 41 Resp: 330941

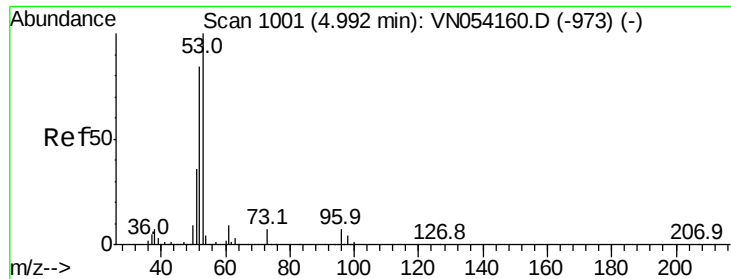
Ion Ratio Lower Upper

41 100

39 73.2 58.2 87.4

76 39.6 31.7 47.5





#15

Acrylonitrile

Concen: 115.686 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

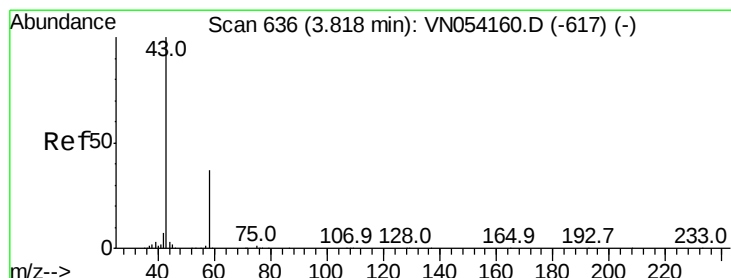
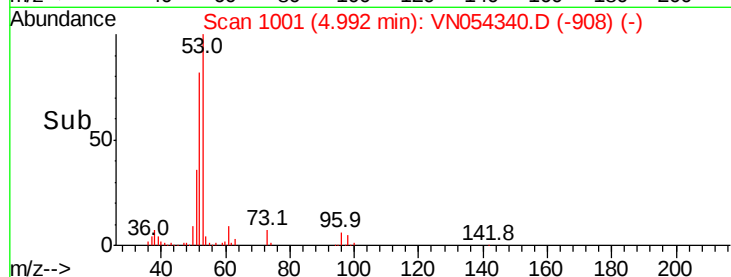
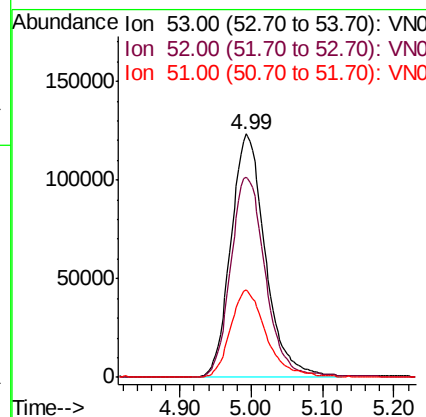
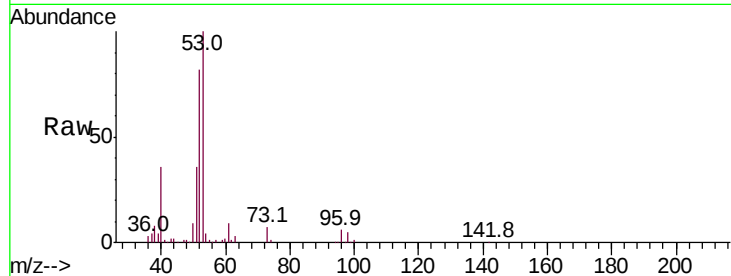
ClientSampleId :

VN0316WBS01

Tot Ion:	53	Resp:	416047
Ion Ratio	Lower	Upper	
53	100		
52	82.8	66.4	99.6
51	37.2	29.6	44.4

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#16

Acetone

Concen: 85.937 ug/l

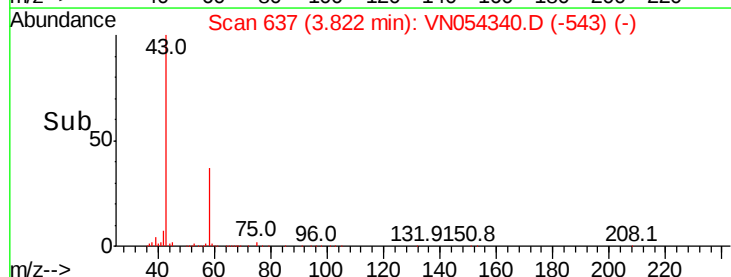
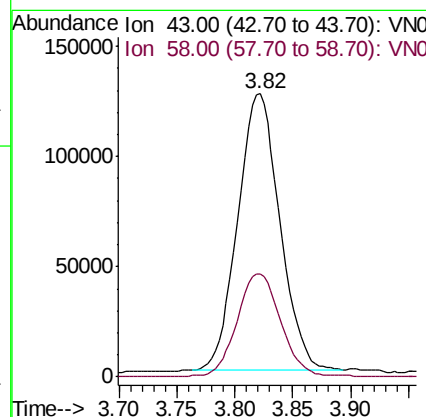
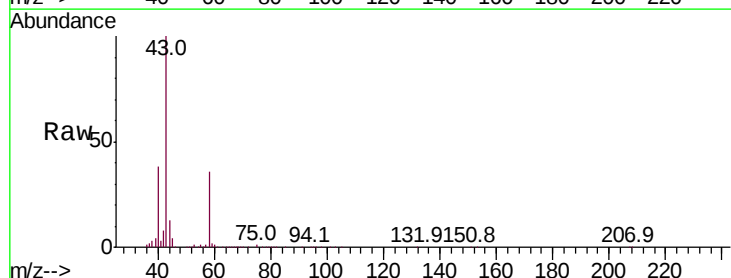
RT: 3.82 min Scan# 637

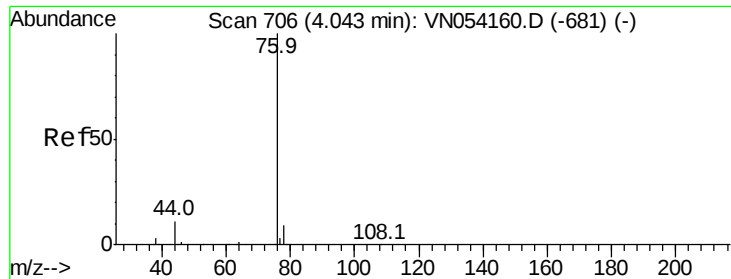
Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Tgt Ion:	43	Resp:	314241
Ion Ratio	Lower	Upper	
43	100		
58	36.8	29.9	44.9





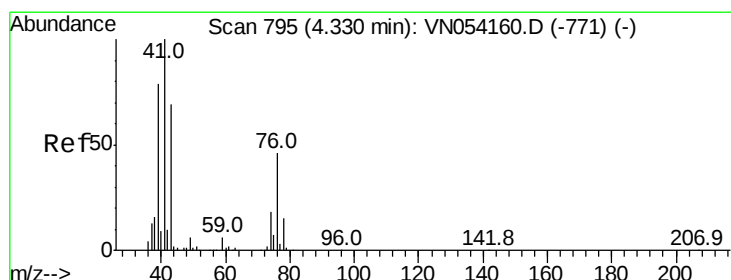
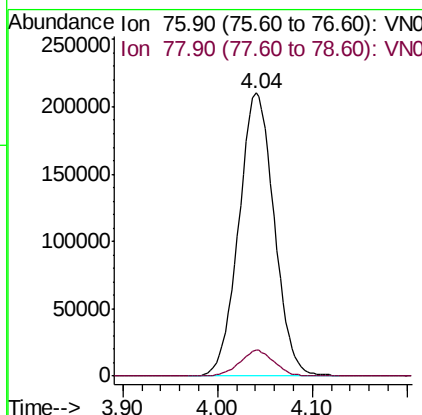
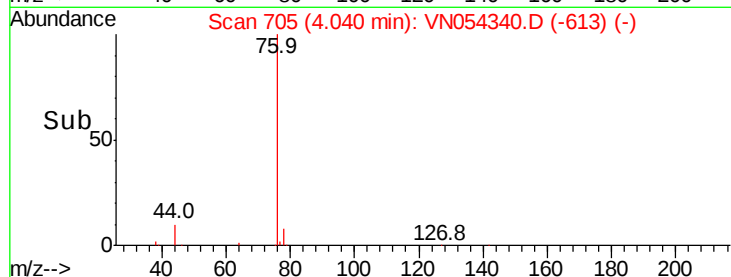
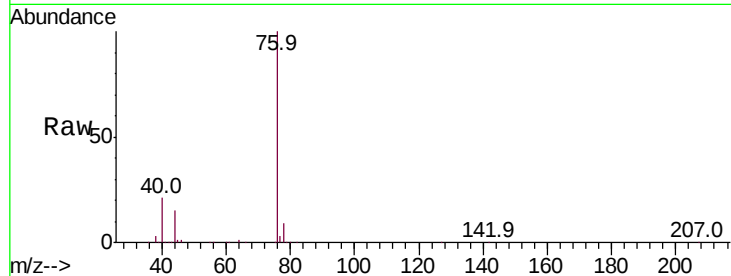
#17
Carbon Disulfide
Concen: 17.448 ug/l
RT: 4.04 min Scan# 705
Delta R.T. -0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS01

Tot Ion: 76 Resp: 546434
Ion Ratio Lower Upper
76 100
78 9.1 7.5 11.3

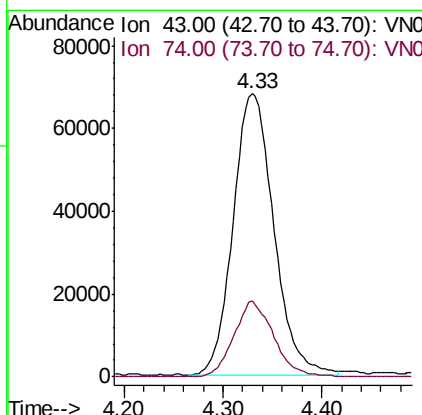
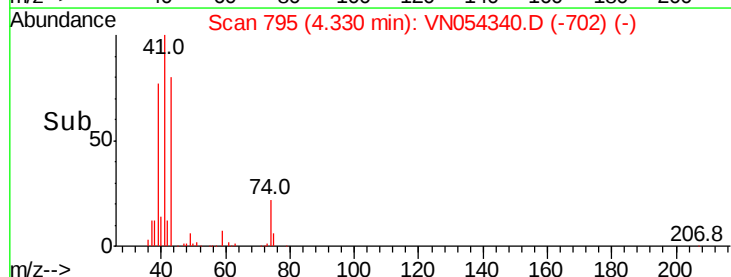
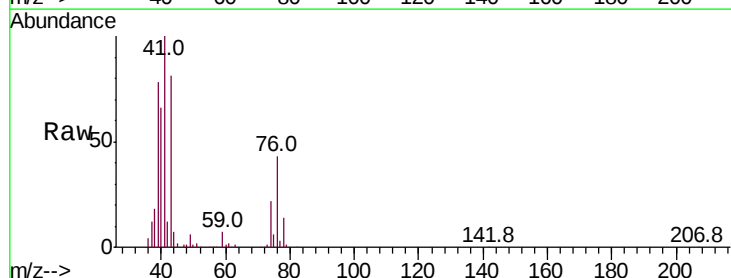
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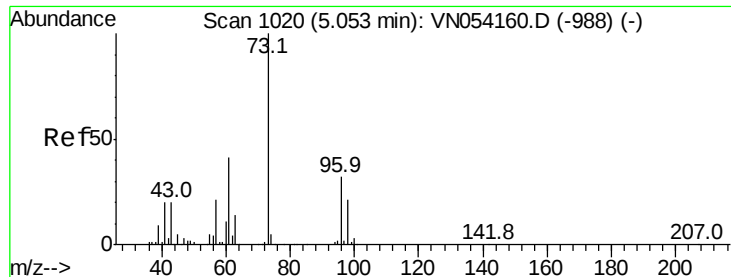
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#18
Methyl Acetate
Concen: 26.367 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion: 43 Resp: 195064
Ion Ratio Lower Upper
43 100
74 26.3 20.8 31.2





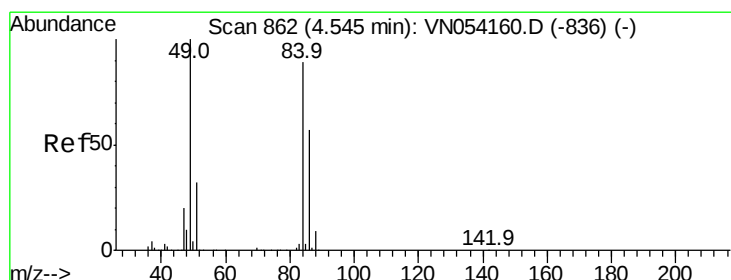
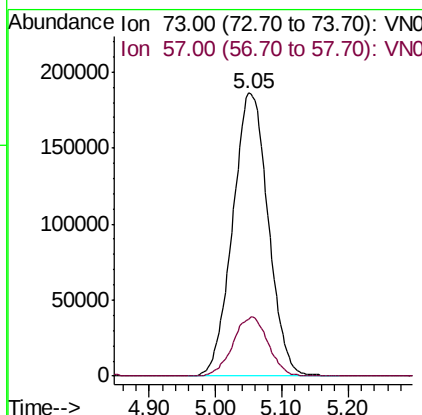
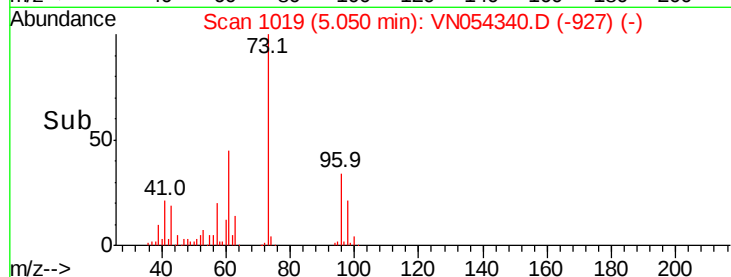
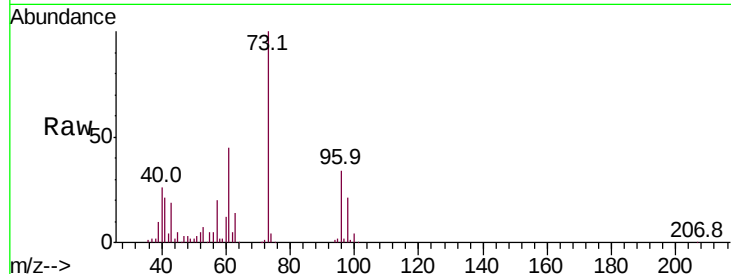
#19
Methvl tert-butvl Ether
Concen: 22.399 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS01

Tot Ion: 73 Resp: 693629
Ion Ratio Lower Upper
73 100
57 20.1 16.8 25.2

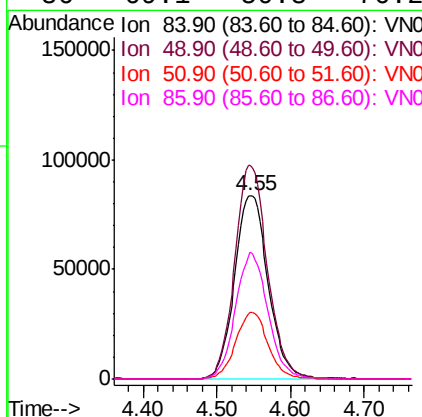
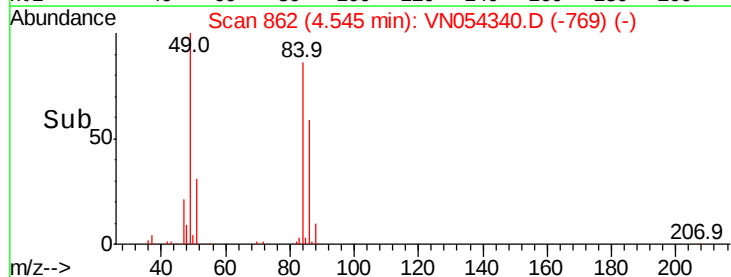
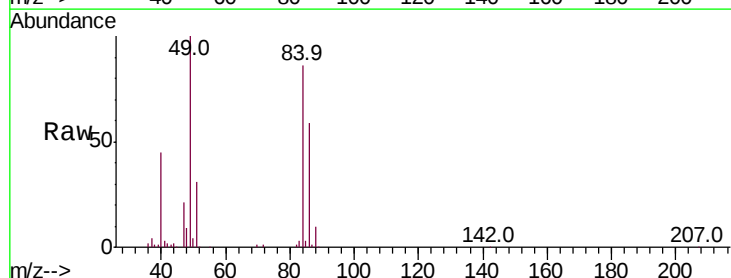
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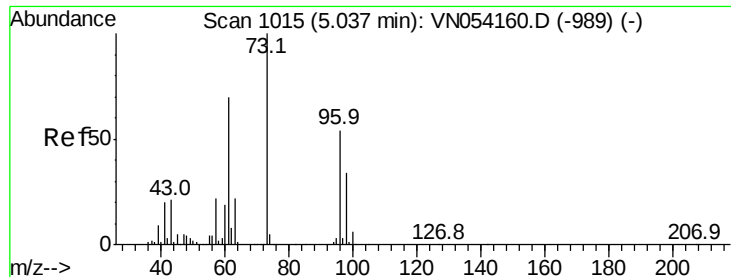
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#20
Methylene Chloride
Concen: 22.180 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion: 84 Resp: 266309
Ion Ratio Lower Upper
84 100
49 116.3 89.7 134.5
51 36.3 28.2 42.4
86 69.1 50.8 76.2





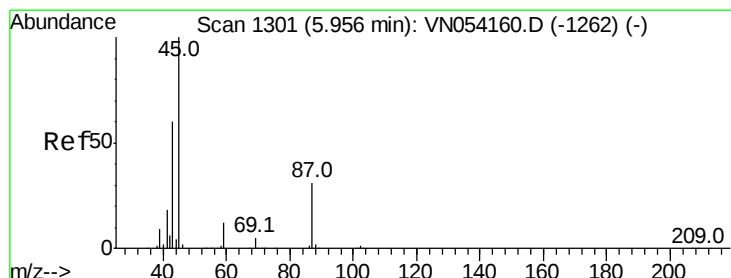
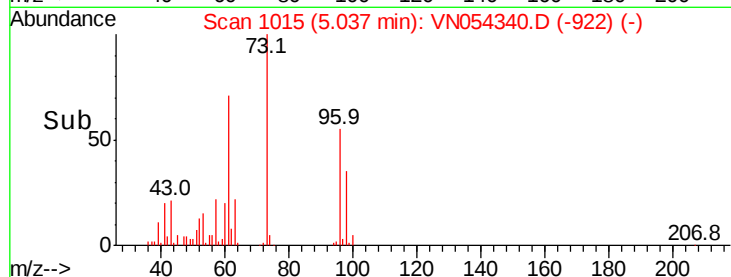
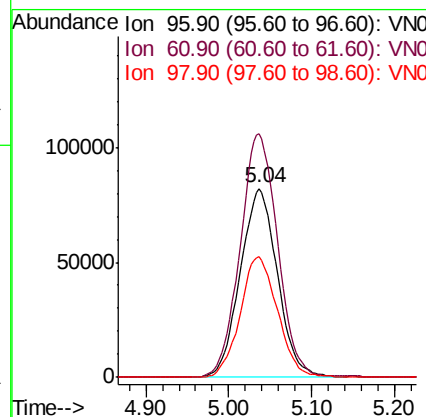
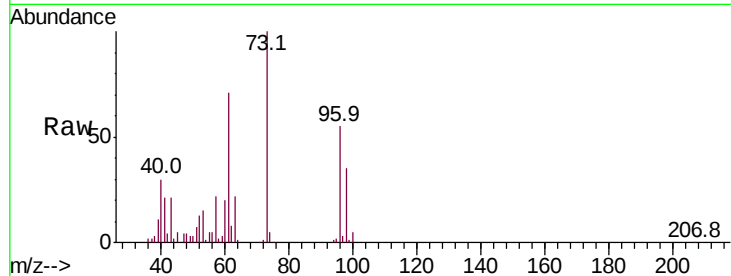
#21
trans-1,2-Dichloroethene
Concen: 21.373 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS01

Tot Ion: 96 Resp: 255836
Ion Ratio Lower Upper
96 100
61 129.1 102.8 154.2
98 63.9 50.0 75.0

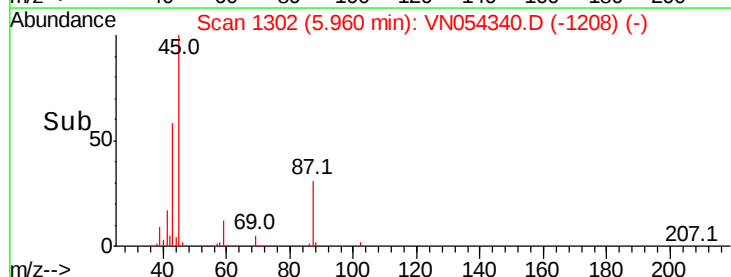
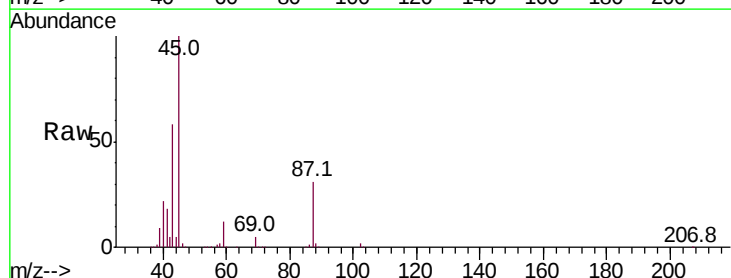
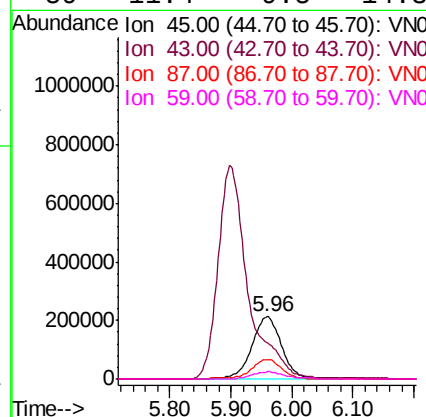
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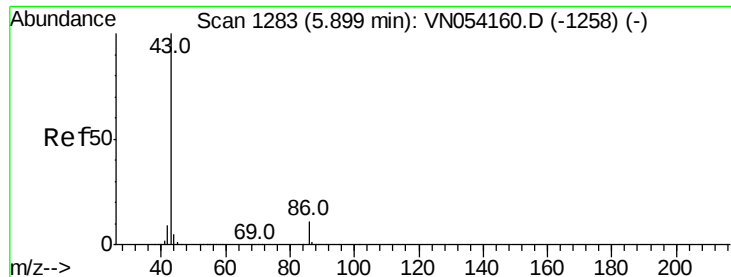
MMDadoda
3/18/2019 11:30:45 AM



#22
Diisopropyl ether
Concen: 22.716 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion: 45 Resp: 726706
Ion Ratio Lower Upper
45 100
43 57.4 48.2 72.2
87 30.6 24.9 37.3
59 11.4 9.5 14.3





#23

Vinyl Acetate

Concen: 105.858 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS01

Tot Ion: 43 Resp: 2496910

Ion Ratio Lower Upper

43 100

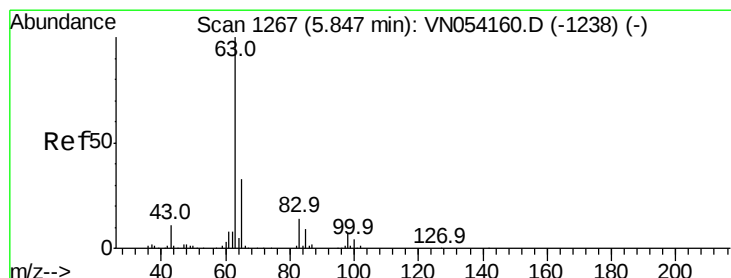
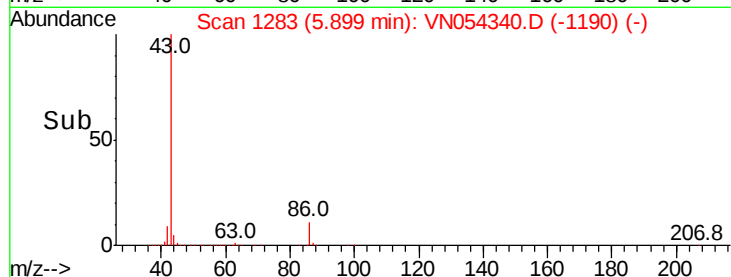
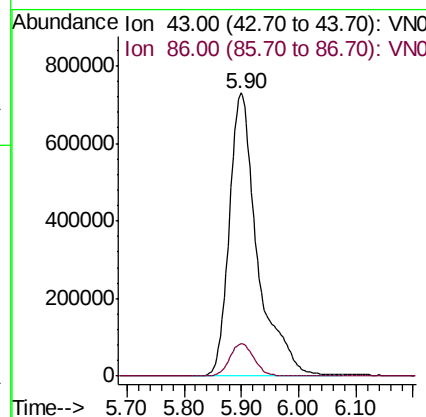
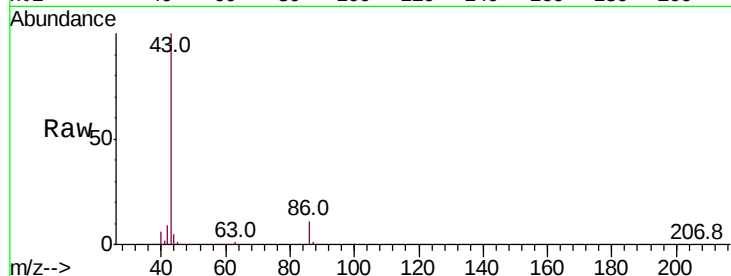
86 11.4 9.1 13.7

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 22.424 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

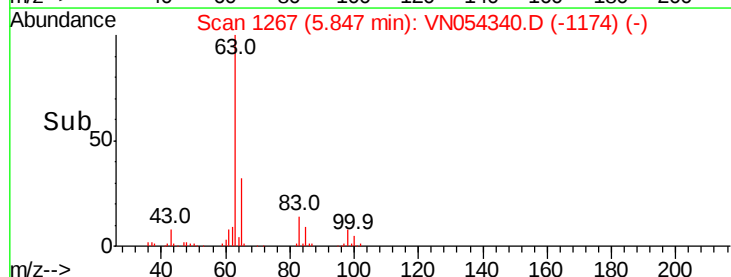
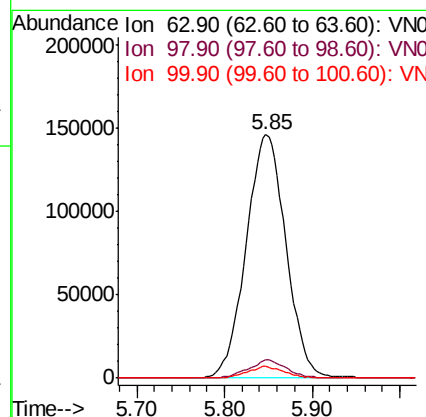
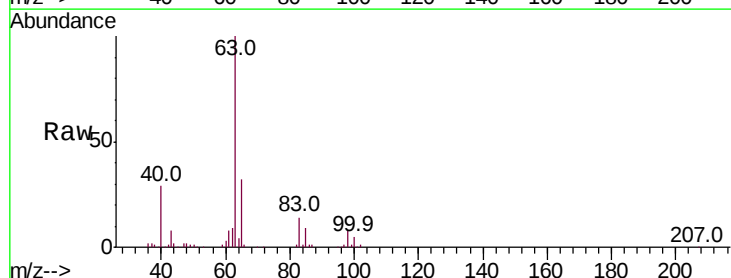
Tgt Ion: 63 Resp: 460617

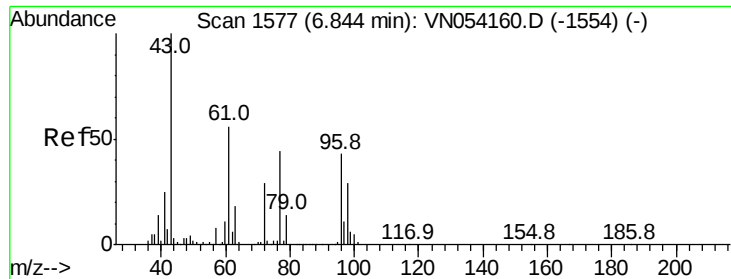
Ion Ratio Lower Upper

63 100

98 7.8 3.5 10.5

100 4.7 2.0 6.0





#25

2-Butanone

Concen: 110.280 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS01

Tot Ion: 43 Resp: 473301

Ion Ratio Lower Upper

43 100

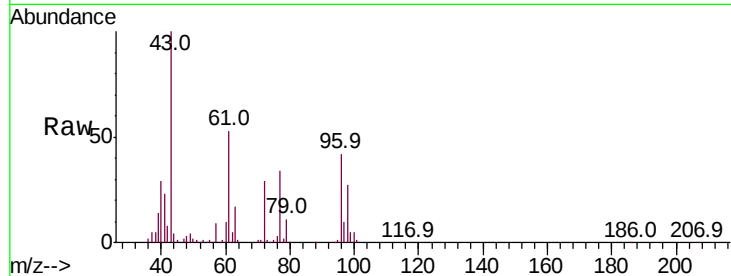
72 29.0 23.0 34.6

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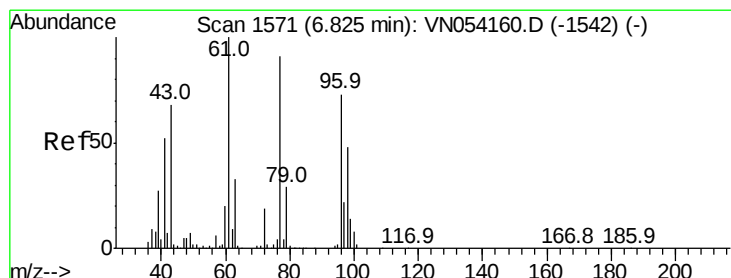
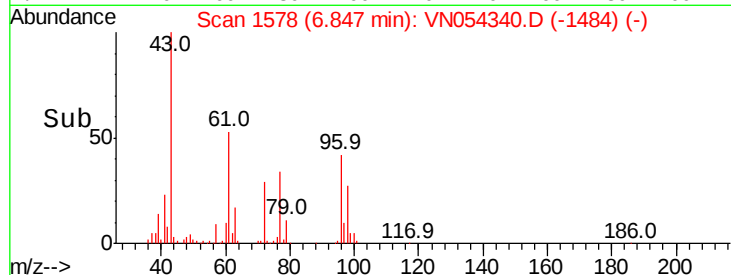
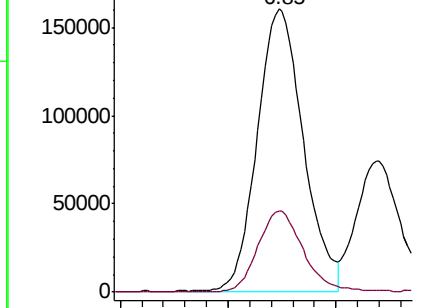
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO



#26

2,2-Dichloropropane

Concen: 17.318 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN054340.D

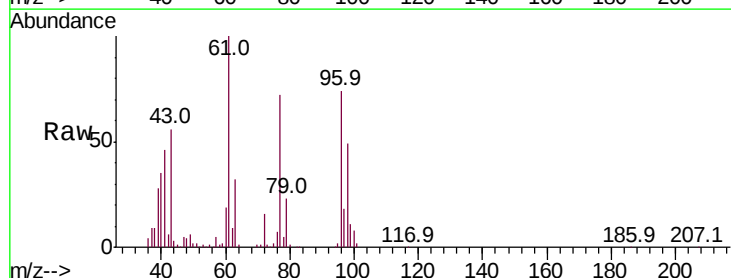
Acq: 16 Mar 2019 16:46

Tgt Ion: 77 Resp: 312823

Ion Ratio Lower Upper

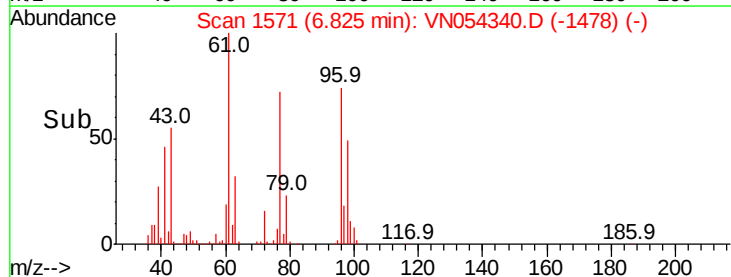
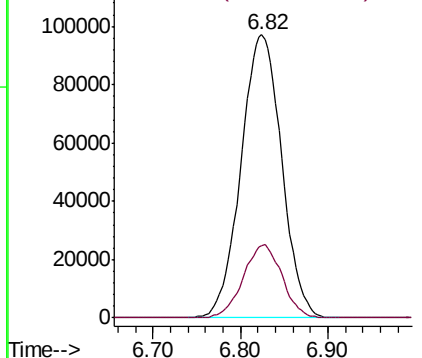
77 100

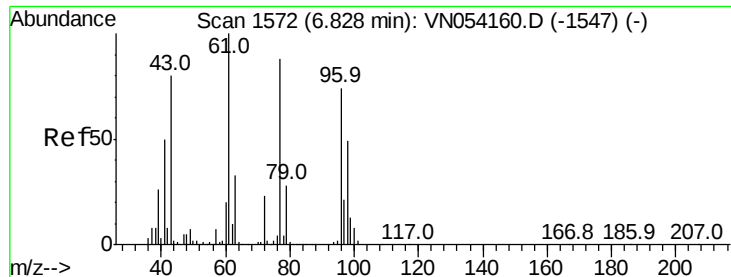
97 24.7 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VNO

Ion 96.90 (96.60 to 97.60): VNO





#27

cis-1,2-Dichloroethene

Concen: 22.494 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

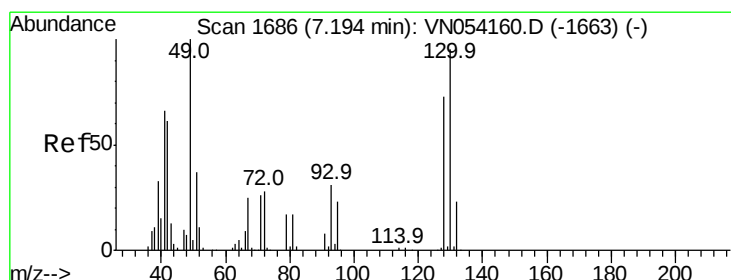
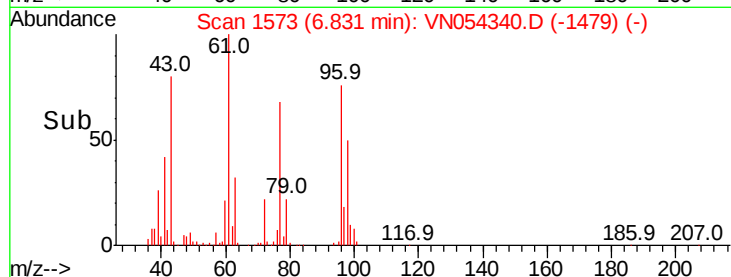
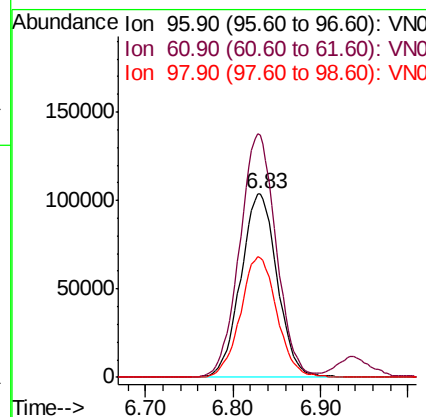
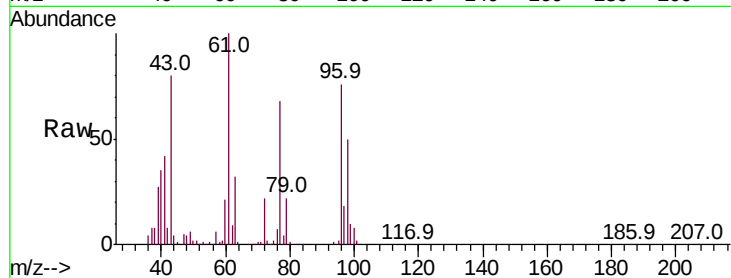
ClientSampleId :

VN0316WBS01

Tot Ion:	96	Resp:	300382
Ion Ratio	Lower	Upper	
96	100		
61	132.8	0.0	273.0
98	65.5	0.0	130.6

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3/18/2019 11:30:45 AM



#28

Bromochloromethane

Concen: 21.926 ug/l

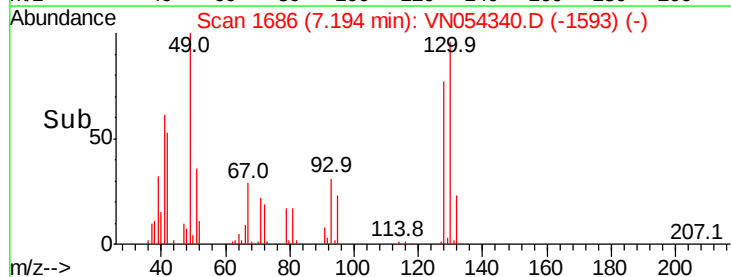
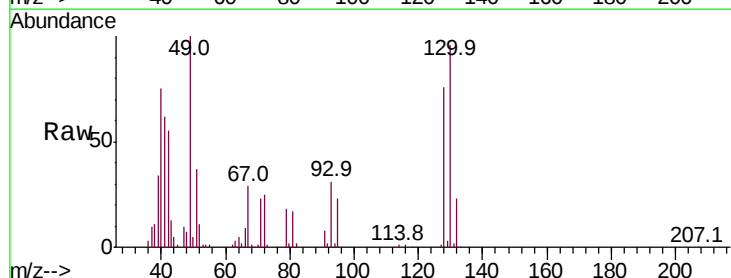
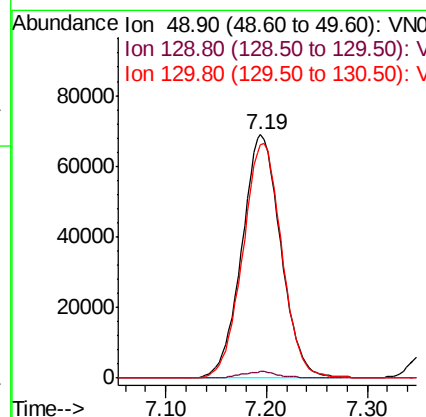
RT: 7.19 min Scan# 1686

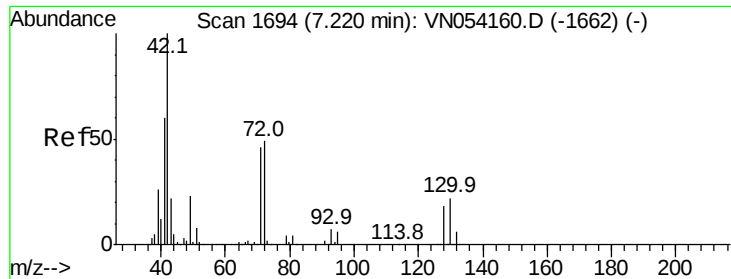
Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Tgt Ion:	49	Resp:	184124
Ion Ratio	Lower	Upper	
49	100		
129	2.5	0.0	4.6
130	96.6	76.7	115.1





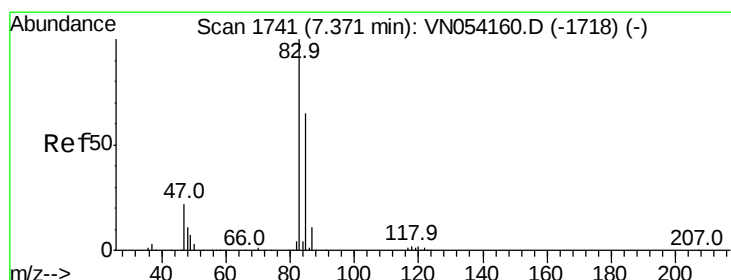
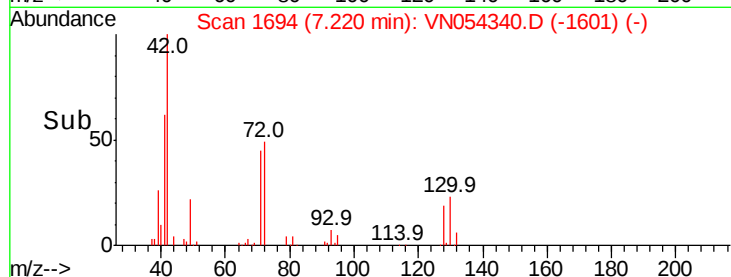
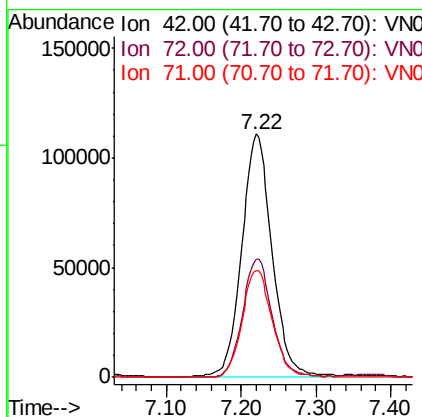
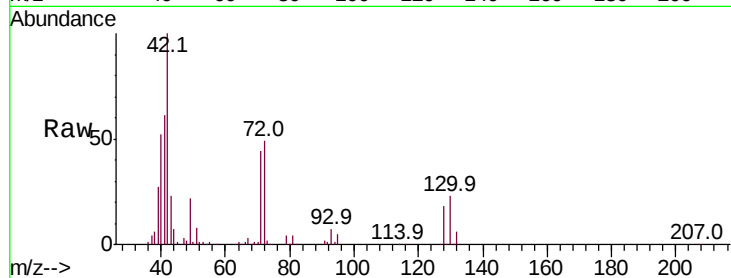
#29
Tetrahydrofuran
Concen: 112.119 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS01

Tot Ion	Ratio	Resp	Lower	Upper
42	100			
72	48.4		37.8	56.6
71	44.3		36.2	54.2

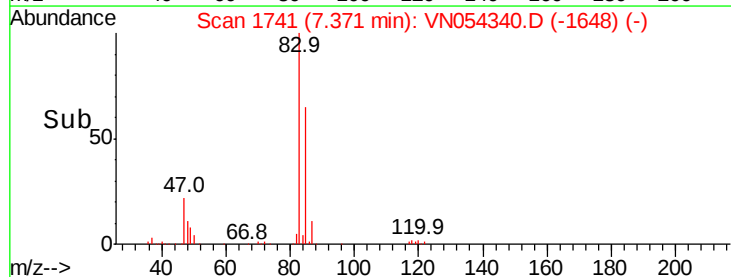
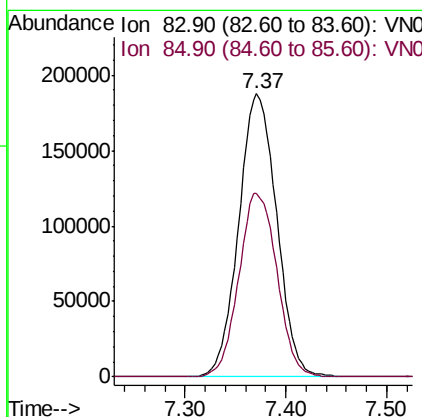
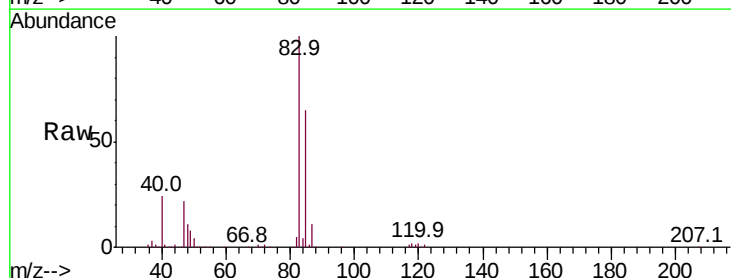
Manual Integrations
APPROVED

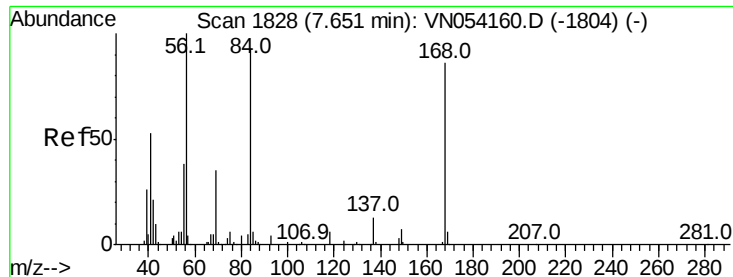
MMDadoda
3/18/2019 11:30:45 AM



#30
Chloroform
Concen: 22.872 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
85	64.9		52.2	78.4





#31

Cyclohexane

Concen: 20.571 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

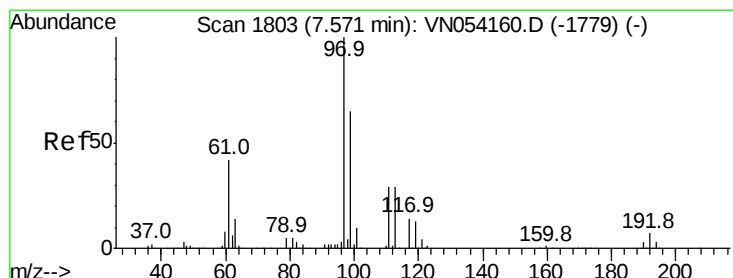
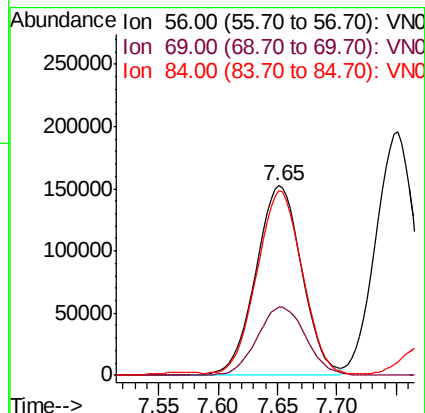
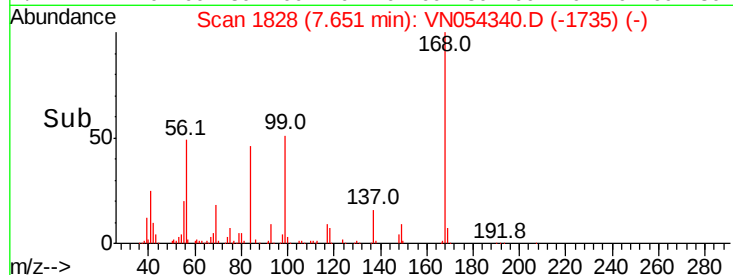
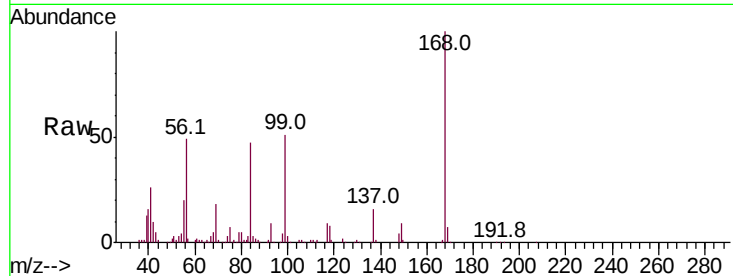
ClientSampleId :

VN0316WBS01

Tot Ion:	56	Resp:	408935
Ion Ratio	Lower	Upper	
56	100		
69	36.0	27.8	41.6
84	95.7	74.6	111.8

Manual Integrations
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MMDadoda
3/18/2019 11:30:45 AM



#32

1,1,1-Trichloroethane

Concen: 21.425 ug/l

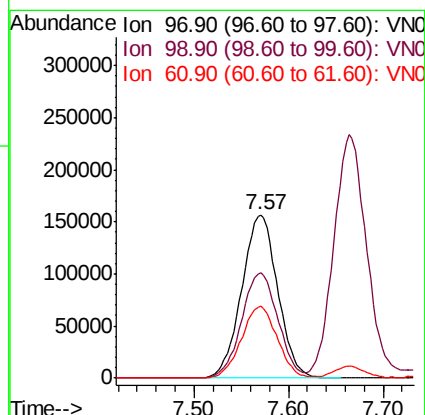
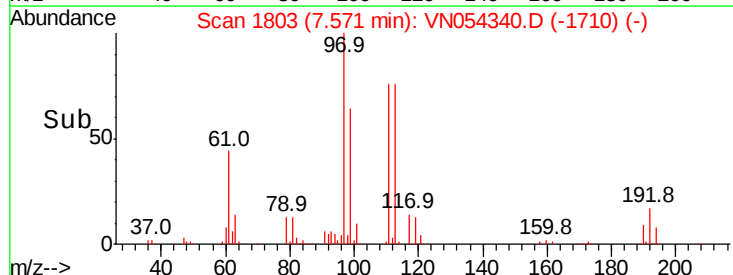
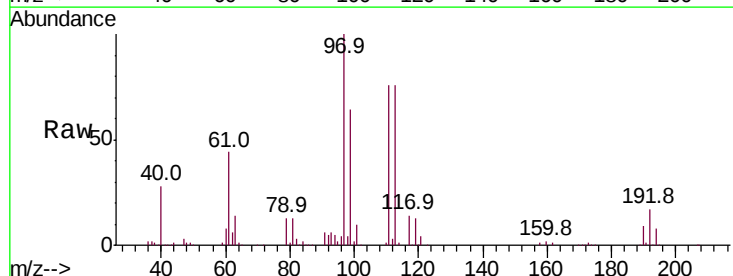
RT: 7.57 min Scan# 1803

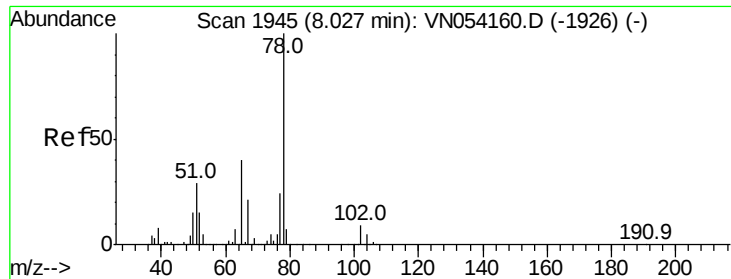
Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Tgt Ion:	97	Resp:	414752
Ion Ratio	Lower	Upper	
97	100		
99	64.6	51.5	77.3
61	43.8	33.6	50.4





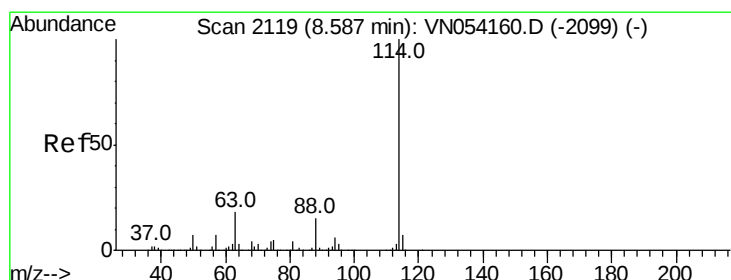
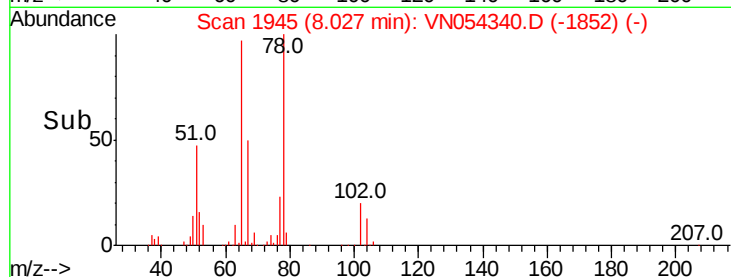
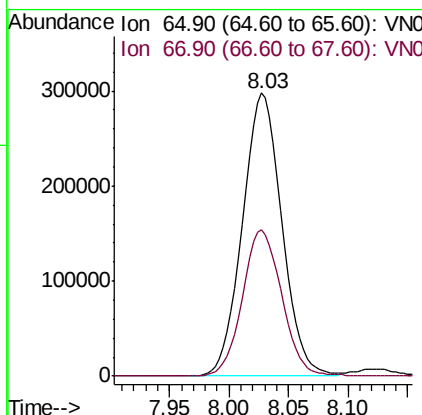
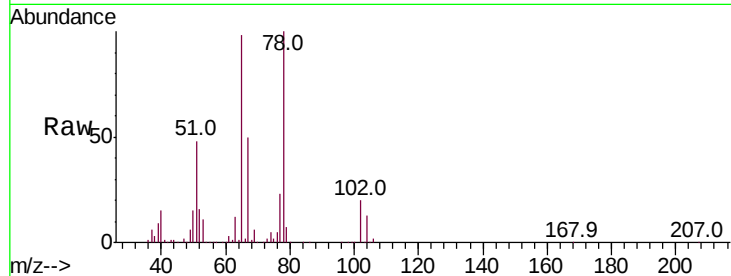
#33
 1,2-Dichloroethane-d4
 Concen: 53.576 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054340.D
 Acq: 16 Mar 2019 16:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	104.6

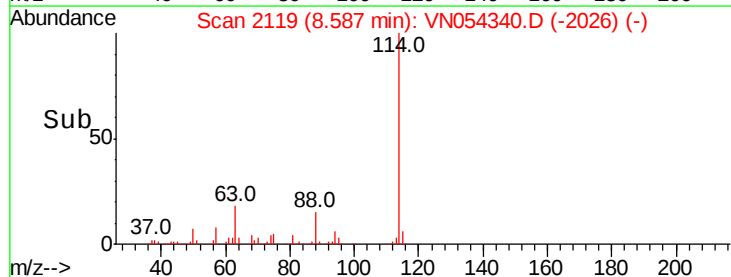
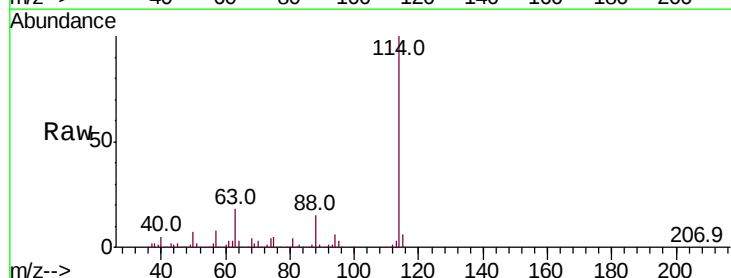
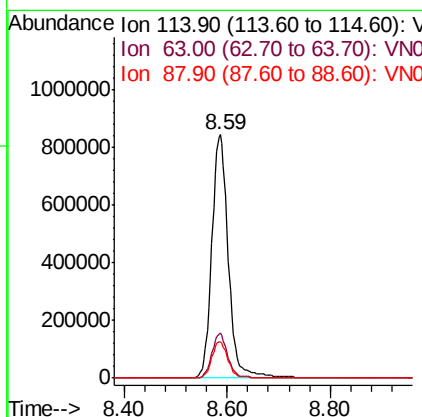
Manual Integrations
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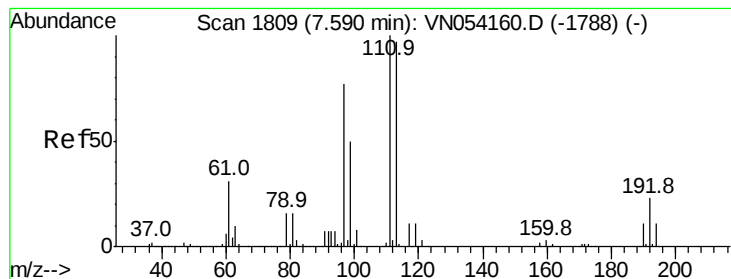
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 3/18/2019 11:30:45 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054340.D
 Acq: 16 Mar 2019 16:46

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.3	0.0	35.2
88	14.9	0.0	30.2





#35

Dibromofluoromethane

Concen: 51.782 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS01

Tot Ion:113 Resp: 628478

Ion Ratio Lower Upper

113 100

111 101.8 82.2 123.4

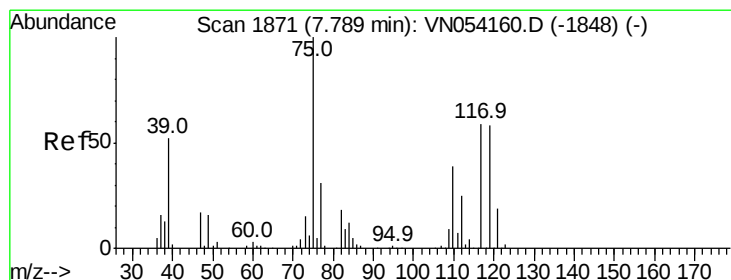
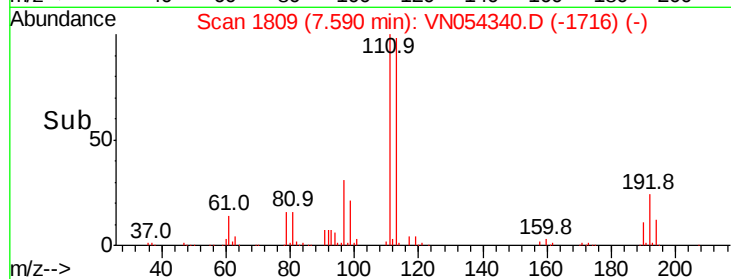
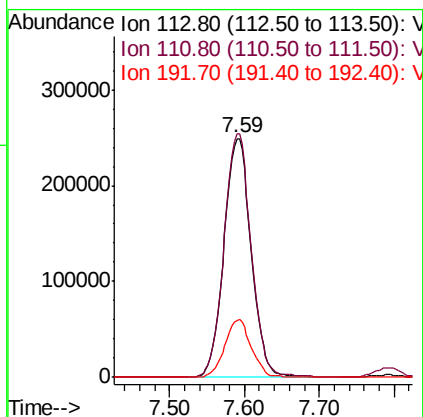
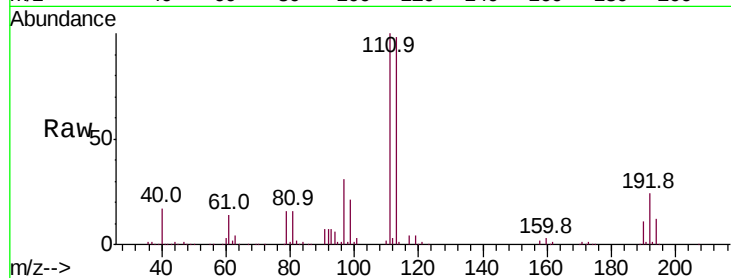
192 23.5 19.2 28.8

Manual Integrations

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MMDadoda

3/18/2019 11:30:45 AM



#36

1,1-Dichloropropene

Concen: 20.793 ug/l

RT: 7.79 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

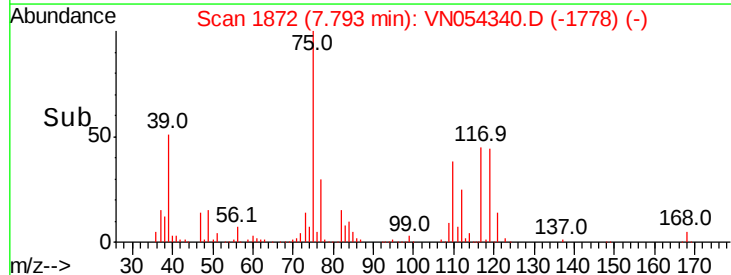
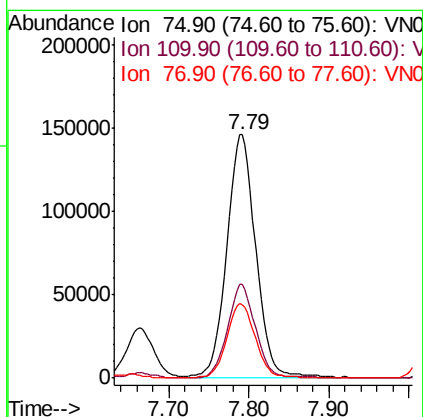
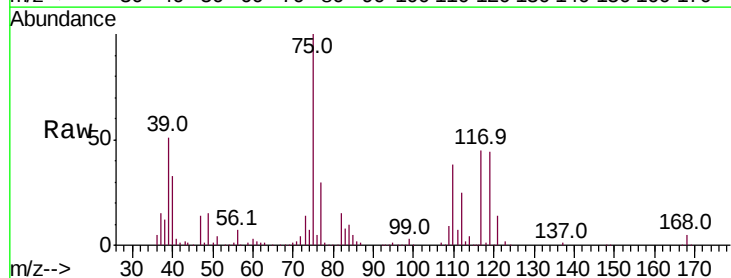
Tgt Ion: 75 Resp: 360348

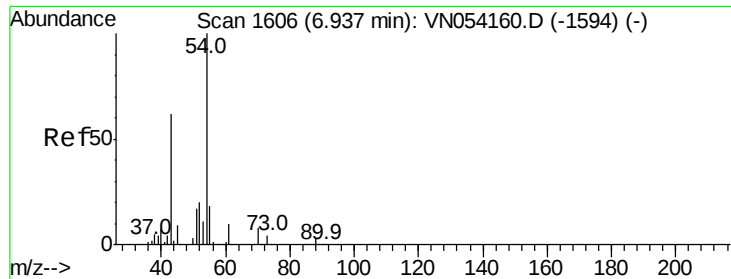
Ion Ratio Lower Upper

75 100

110 37.4 19.1 57.5

77 30.6 25.0 37.4





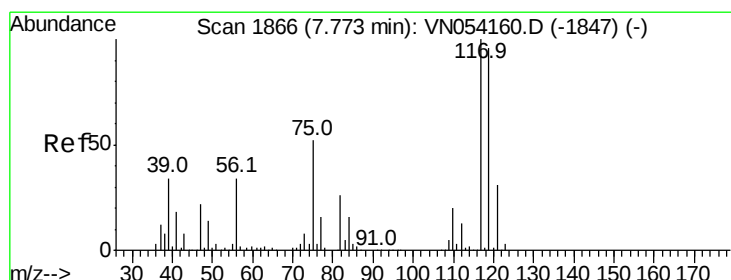
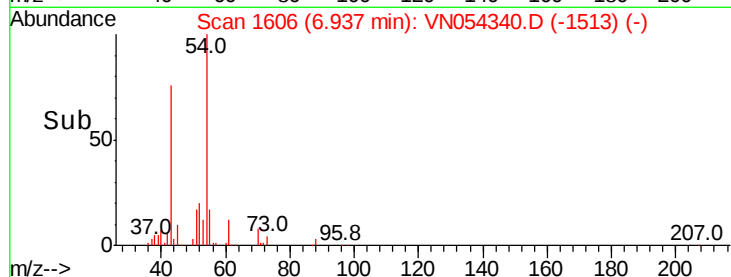
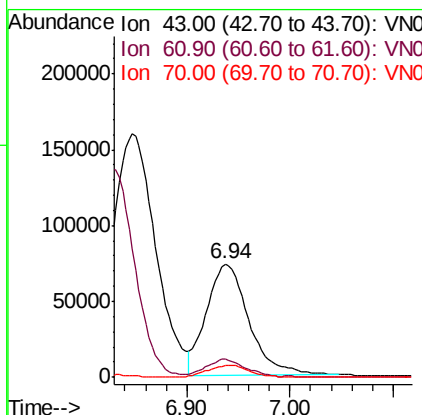
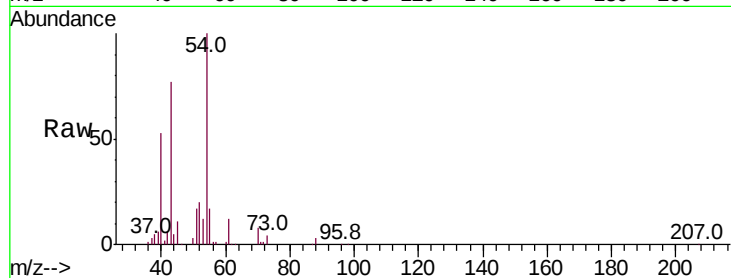
#37
Ethyl Acetate
Concen: 20.922 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampled :
VN0316WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.1	11.8	17.6
70	10.7	8.4	12.6

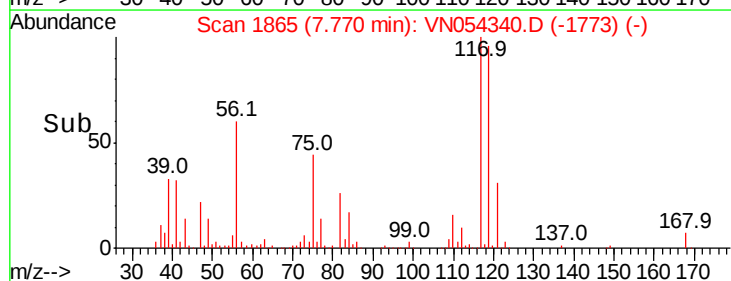
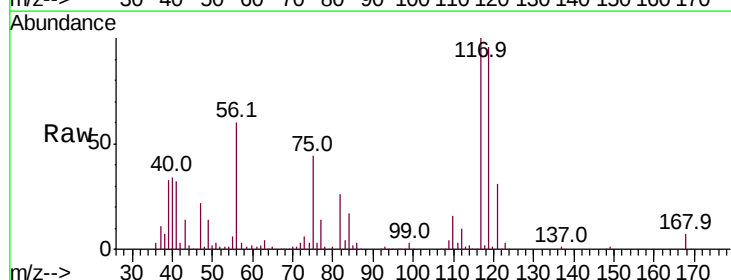
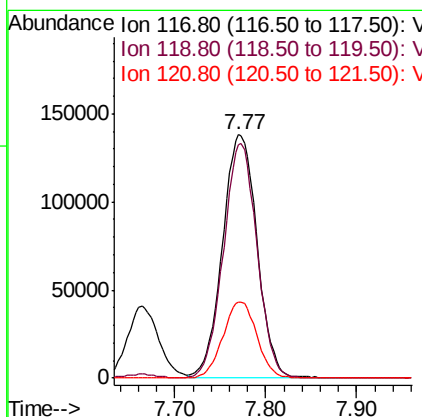
Manual Integrations
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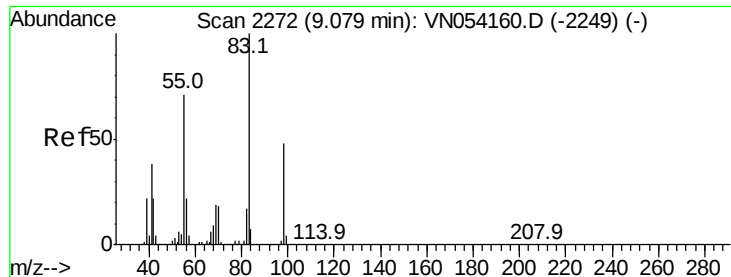
MMDadoda
3/18/2019 11:30:45 AM



#38
Carbon Tetrachloride
Concen: 19.971 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.3	114.5
121	31.2	24.6	36.8





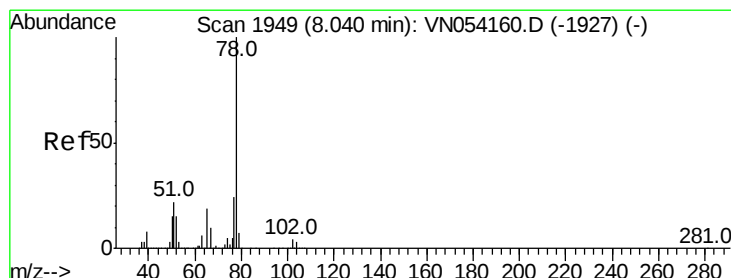
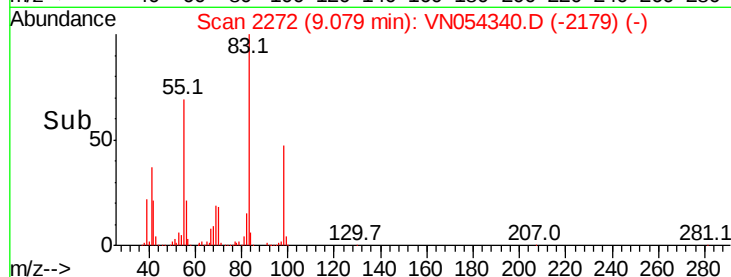
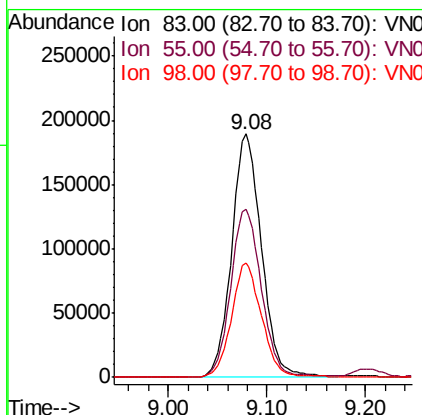
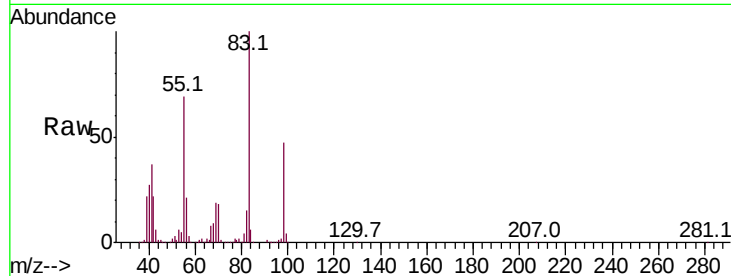
#39
Methvlcvclohexane
Concen: 18.751 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	68.8	56.6	84.8
98	47.1	38.4	57.6

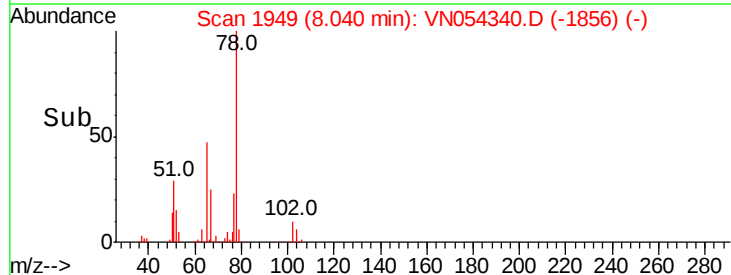
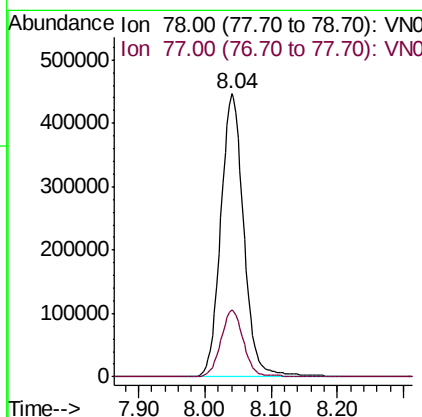
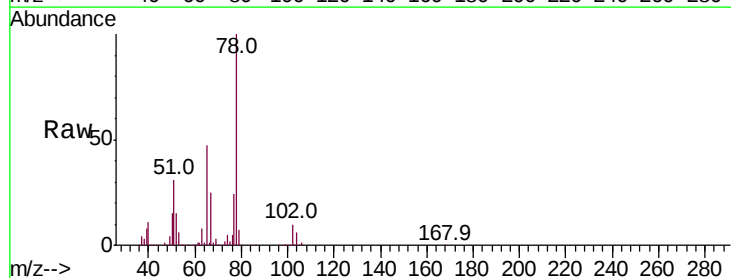
Manual Integrations
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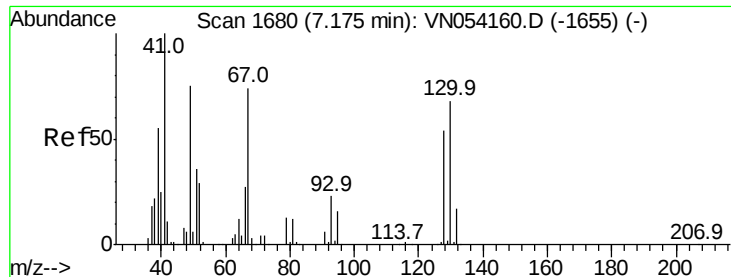
MMDadoda
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#40
Benzene
Concen: 21.727 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.1	28.7





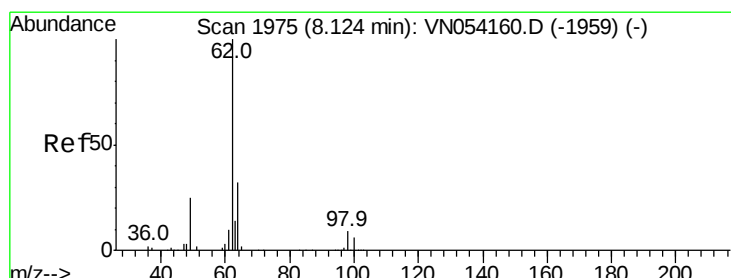
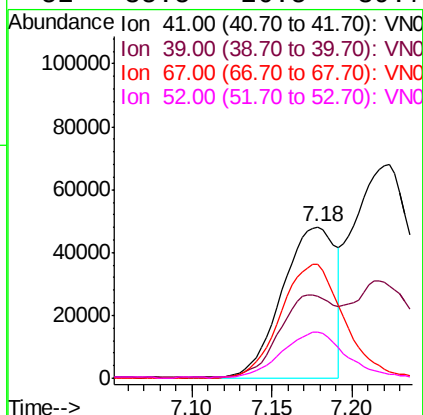
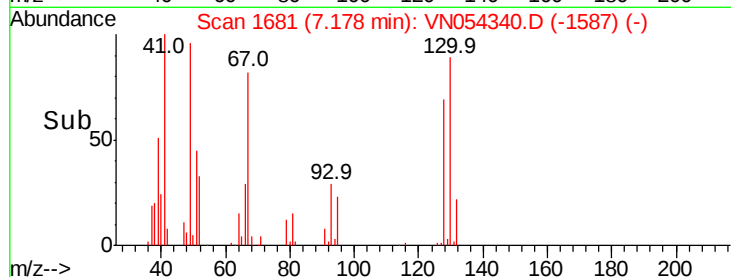
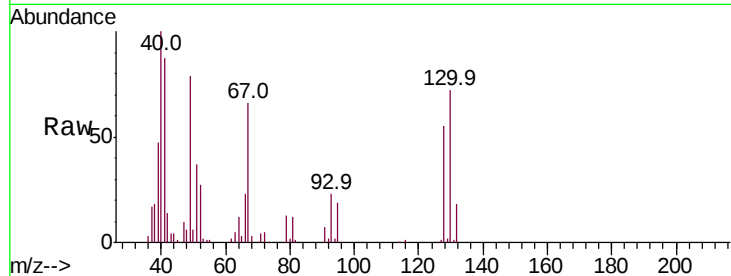
#41
Methacrylonitrile
Concen: 19.681 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	55.1	46.8	70.2	
67	89.4	67.0	100.4	
52	35.5	26.5	39.7	

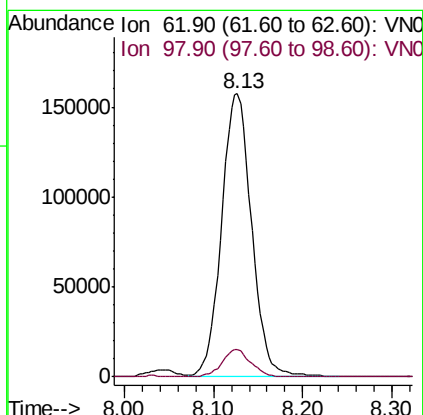
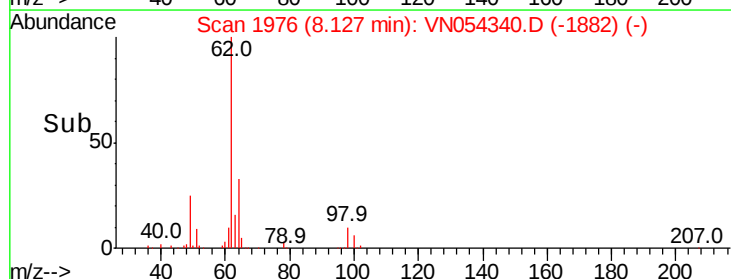
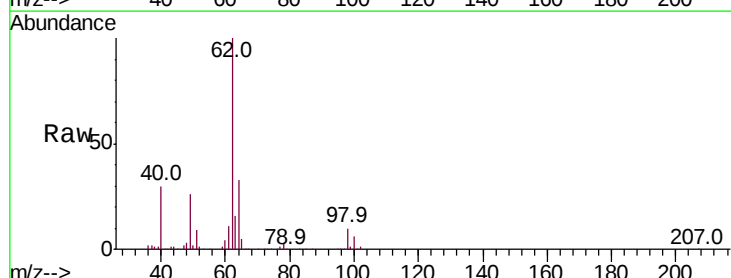
Manual Integrations
APPROVED

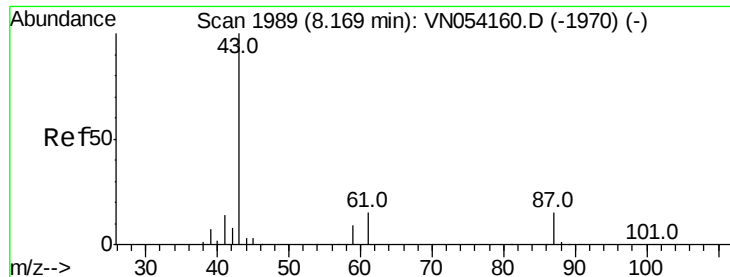
MMDadoda
3/18/2019 11:30:45 AM



#42
1,2-Dichloroethane
Concen: 21.818 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.4	0.0	18.4	





#43

Isopropyl Acetate

Concen: 19.615 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

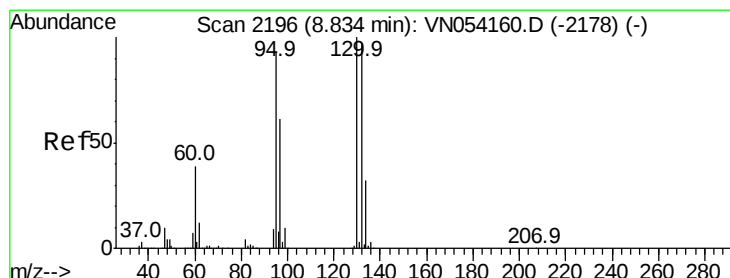
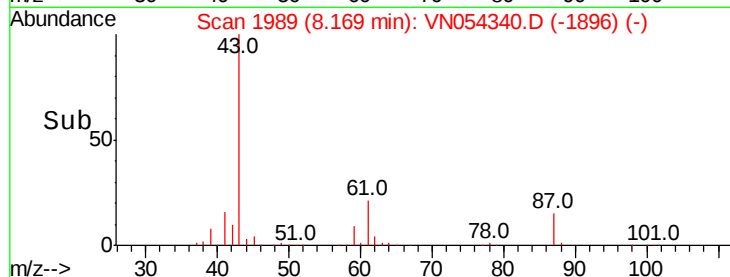
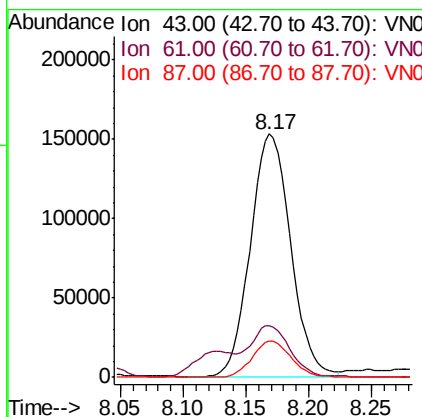
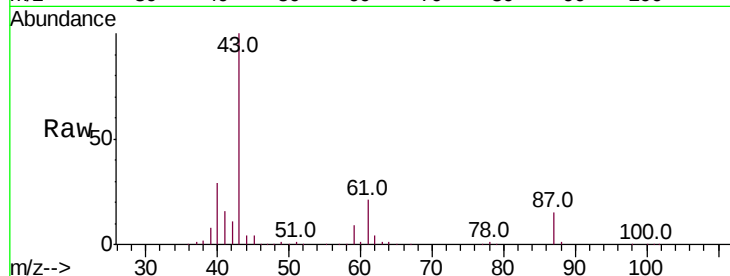
ClientSampled :

VN0316WBS01

Tot Ion:	43	Resp:	342835
Ion Ratio	Lower	Upper	
43	100		
61	20.2	15.8	23.8
87	14.5	12.0	18.0

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#44

Trichloroethene

Concen: 20.827 ug/l

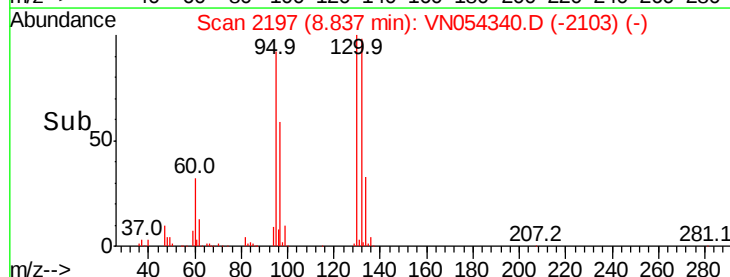
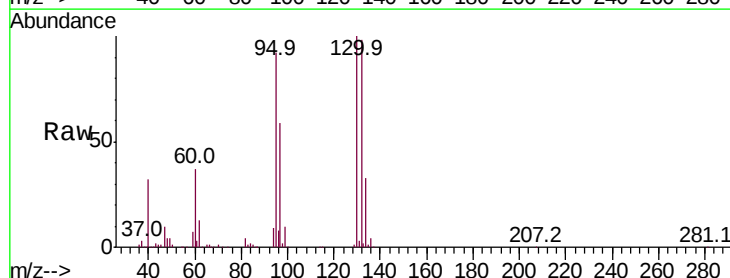
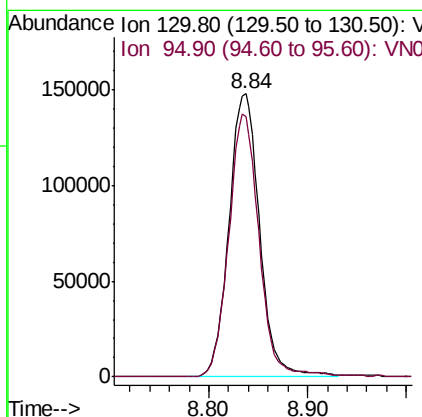
RT: 8.84 min Scan# 2197

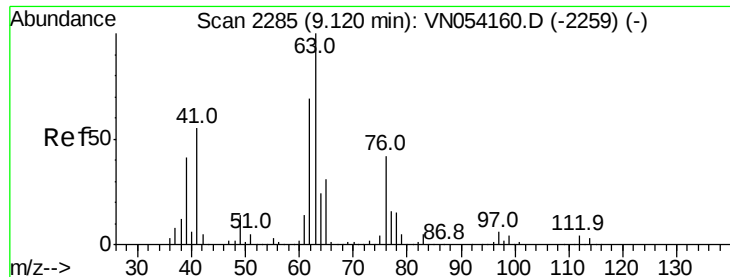
Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Tgt Ion:	130	Resp:	320850
Ion Ratio	Lower	Upper	
130	100		
95	92.0	0.0	185.2





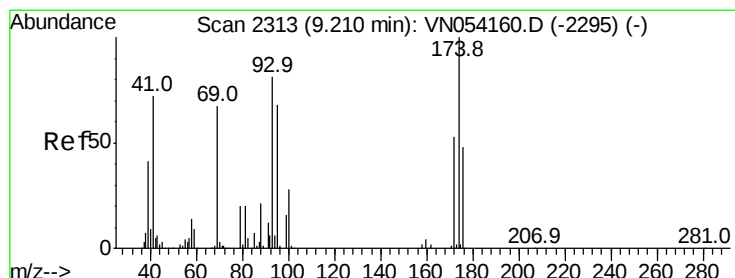
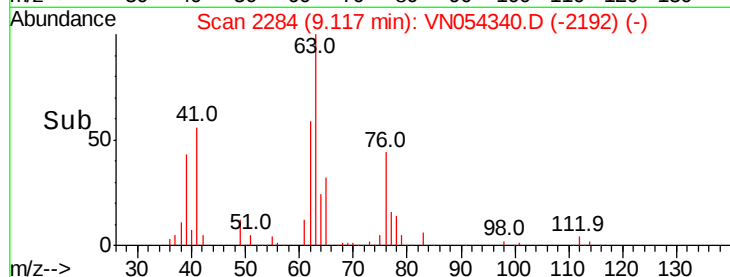
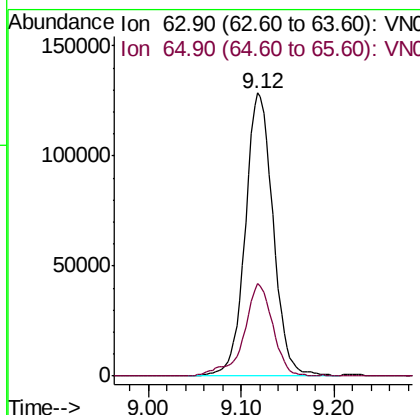
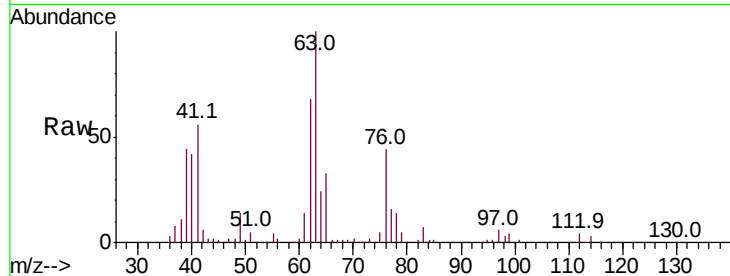
#45
 1,2-Dichloropropane
 Concen: 21.812 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN054340.D
 Acq: 16 Mar 2019 16:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBS01

Tot Ion: 63 Resp: 268589
 Ion Ratio Lower Upper
 63 100
 65 32.5 25.0 37.6

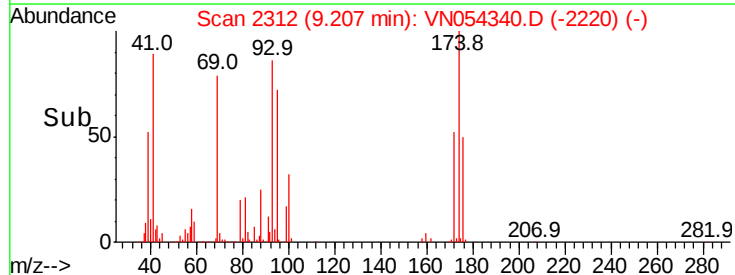
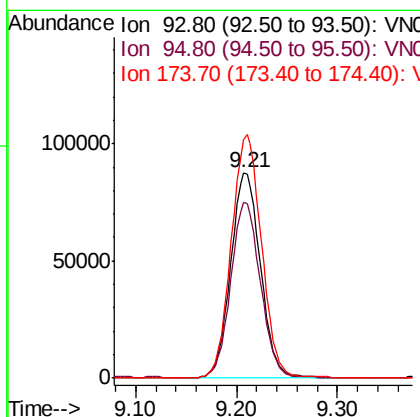
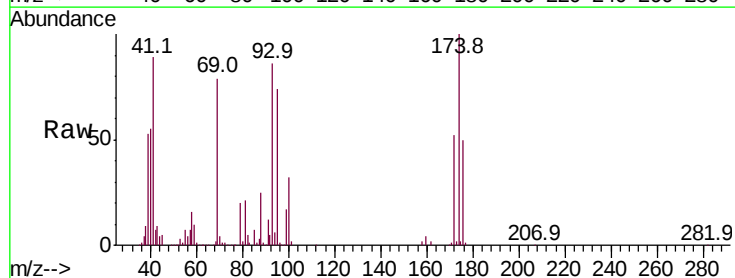
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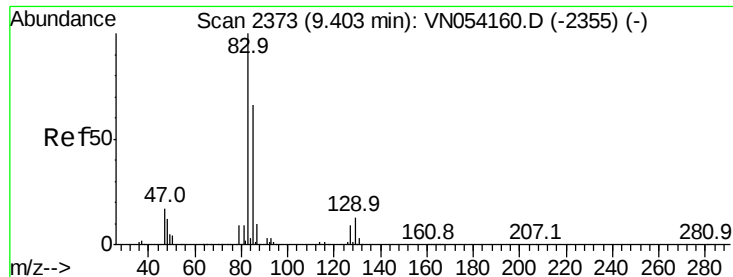
MMDadoda
 3/18/2019 11:30:45 AM



#46
 Dibromomethane
 Concen: 21.664 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN054340.D
 Acq: 16 Mar 2019 16:46

Tgt Ion: 93 Resp: 180246
 Ion Ratio Lower Upper
 93 100
 95 85.9 66.7 100.1
 174 119.7 98.5 147.7





#47

Bromodichloromethane

Concen: 21.110 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

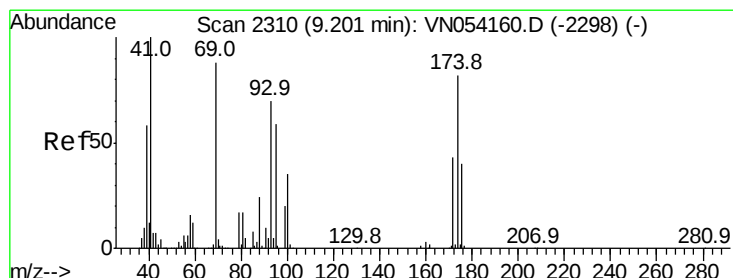
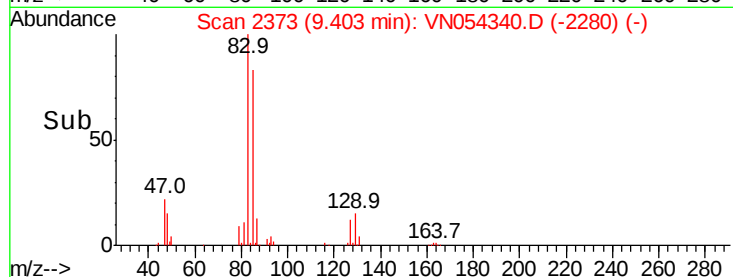
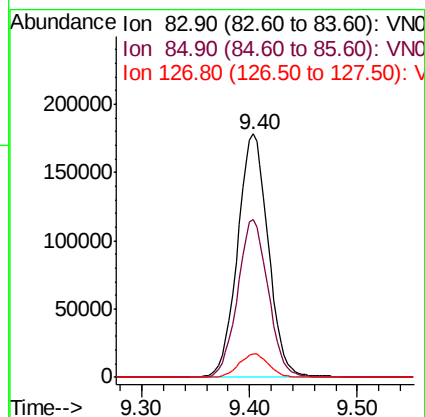
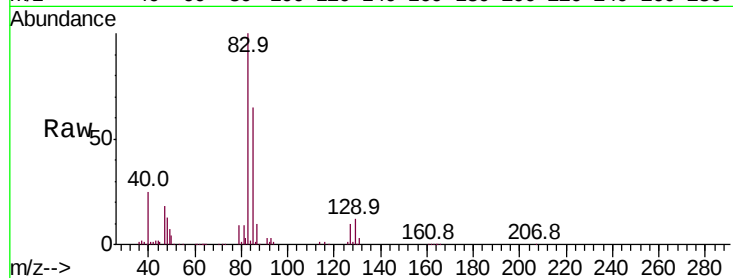
ClientSampleId :

VN0316WBS01

Tot Ion:	83	Resp:	352107
Ion Ratio	Lower	Upper	
83	100		
85	64.9	52.8	79.2
127	9.7	7.4	11.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 21.237 ug/l

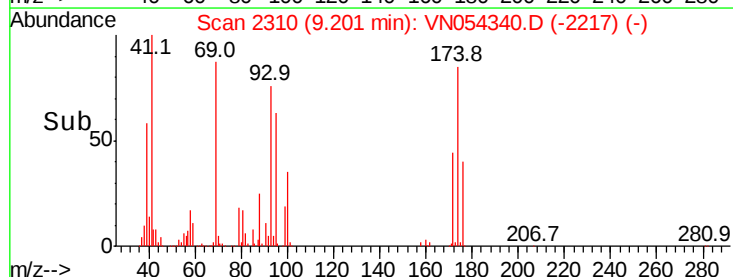
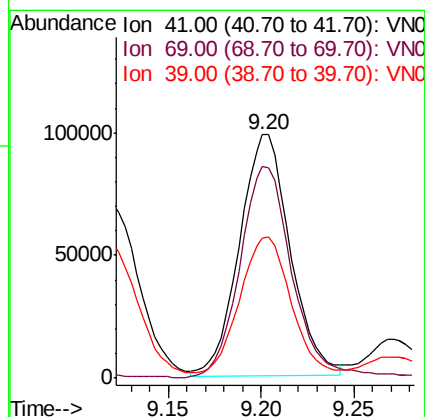
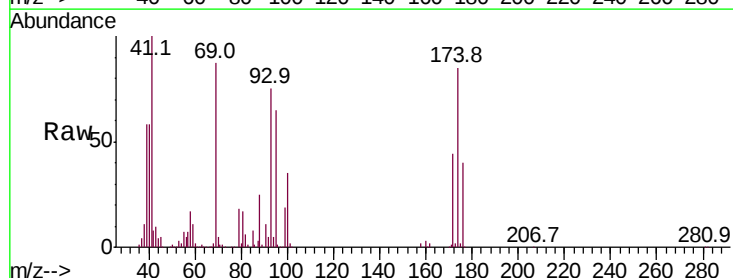
RT: 9.20 min Scan# 2310

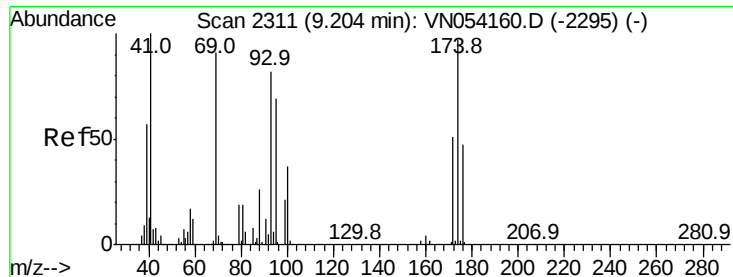
Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Tgt Ion:	41	Resp:	188370
Ion Ratio	Lower	Upper	
41	100		
69	89.7	72.6	108.8
39	58.8	47.5	71.3





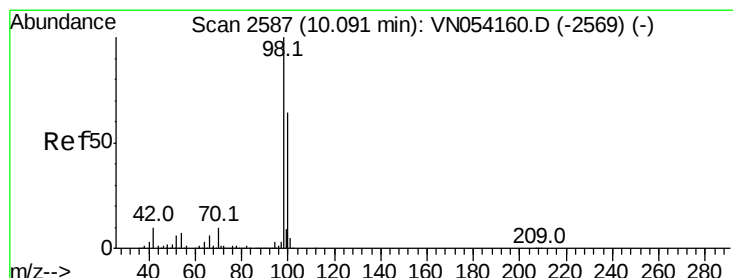
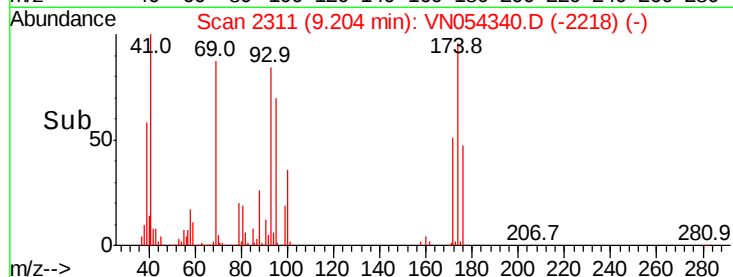
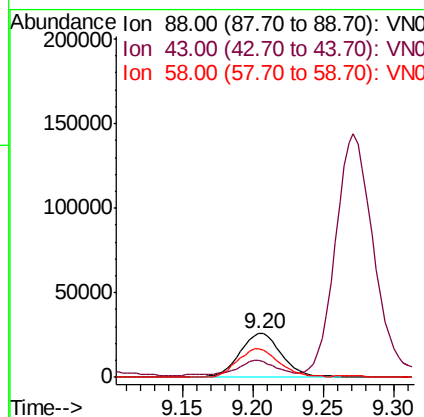
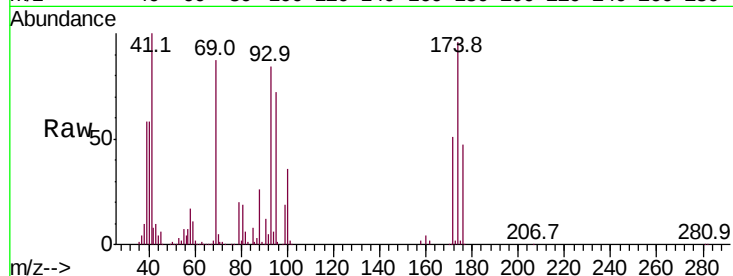
#49
1,4-Dioxane
Concen: 434.413 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.2	24.1	36.1
58	64.7	50.8	76.2

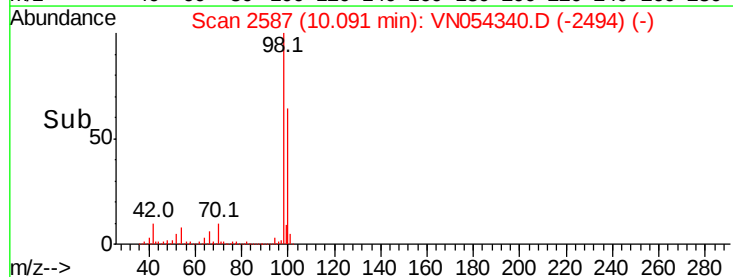
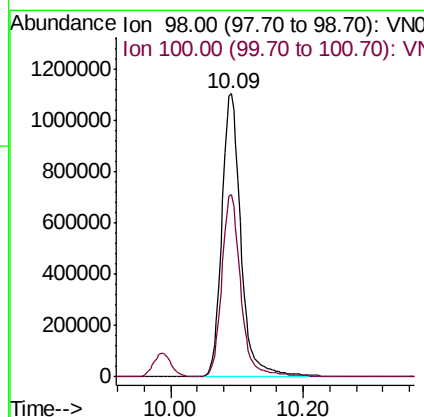
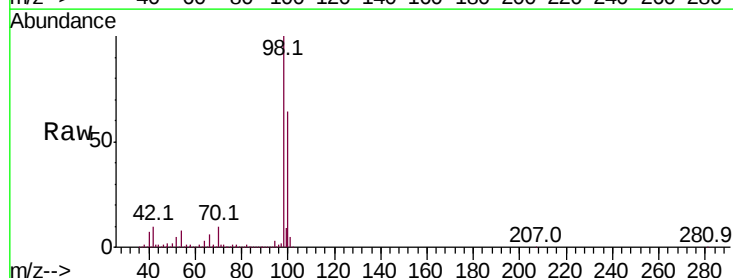
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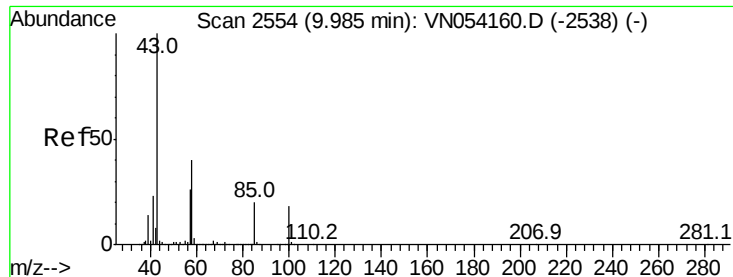
MMDadoda
3/18/2019 11:30:45 AM



#50
Toluene-d8
Concen: 49.564 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 109.143 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS01

Tot Ion: 43 Resp: 1009526

Ion Ratio Lower Upper

43 100

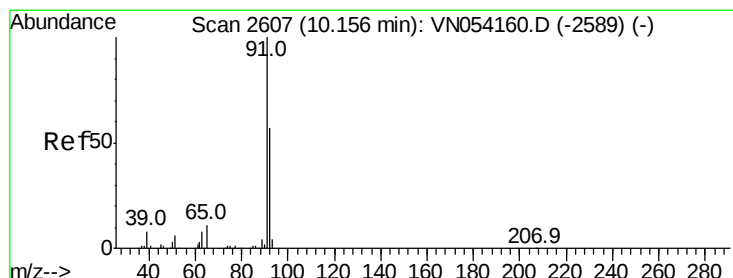
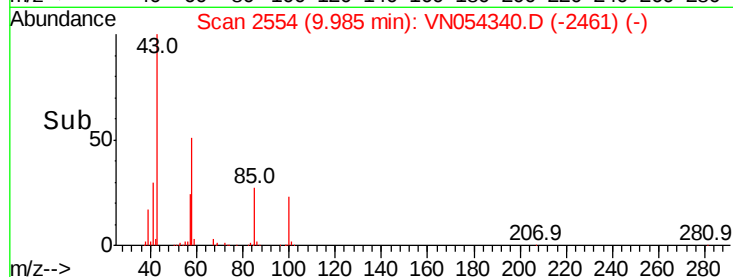
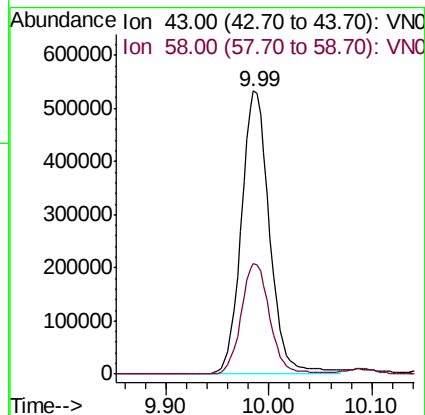
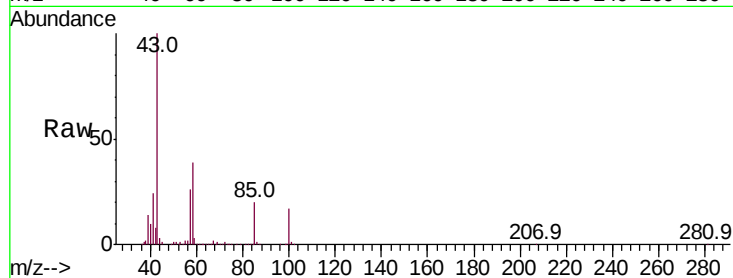
58 39.9 31.8 47.6

Manual Integrations

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#52

Toluene

Concen: 21.209 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054340.D

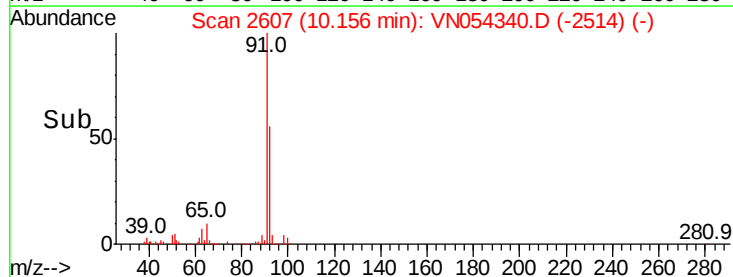
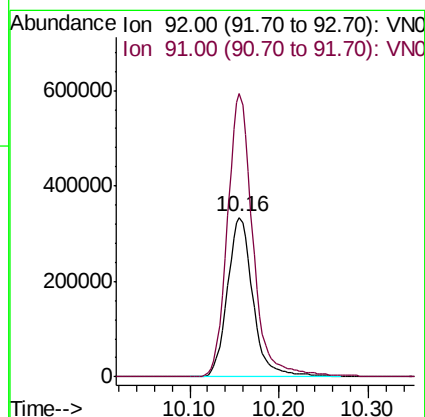
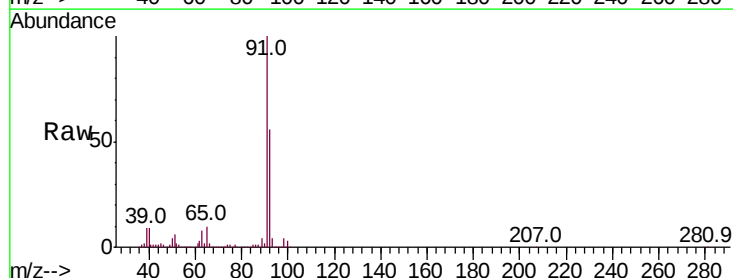
Acq: 16 Mar 2019 16:46

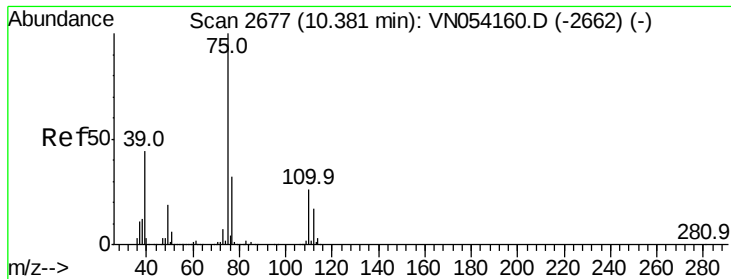
Tgt Ion: 92 Resp: 666906

Ion Ratio Lower Upper

92 100

91 176.4 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 17.029 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS01

Tot Ion: 75 Resp: 298844

Ion Ratio Lower Upper

75 100

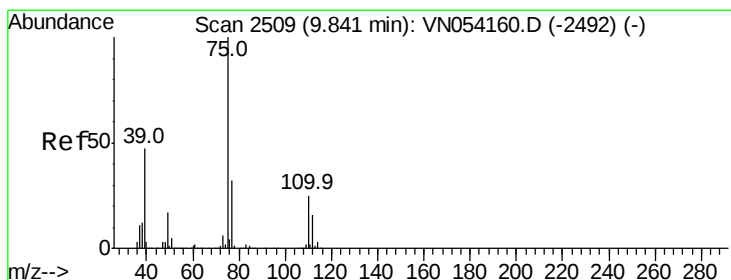
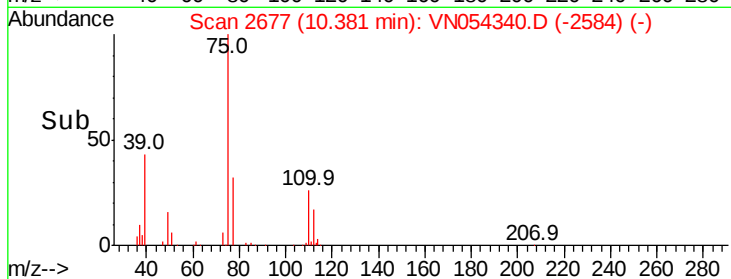
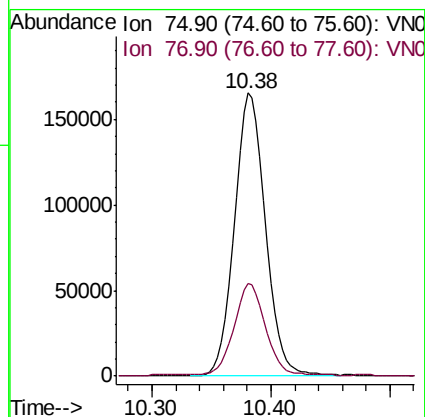
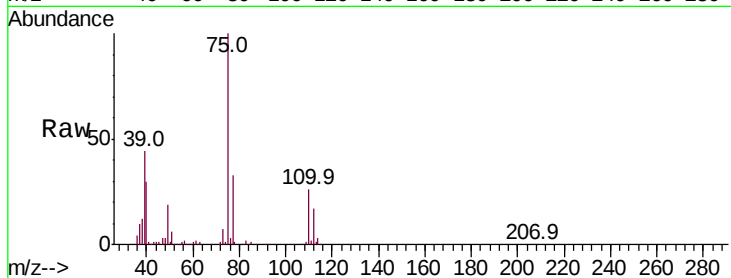
77 32.4 25.8 38.8

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 19.356 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

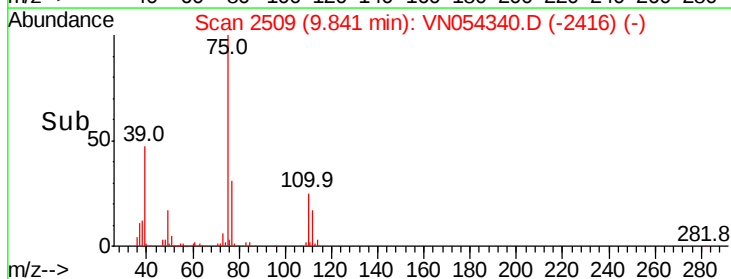
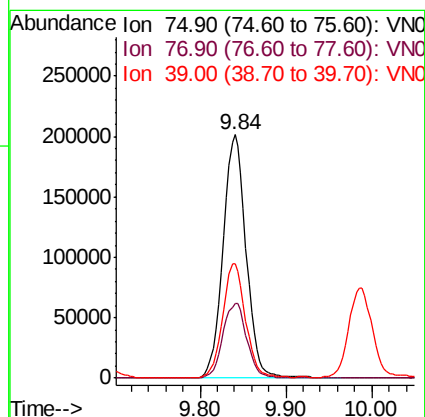
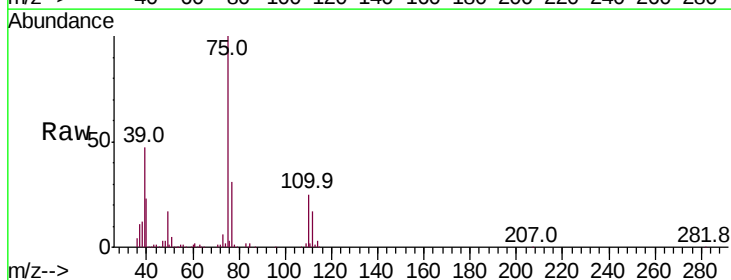
Tgt Ion: 75 Resp: 376215

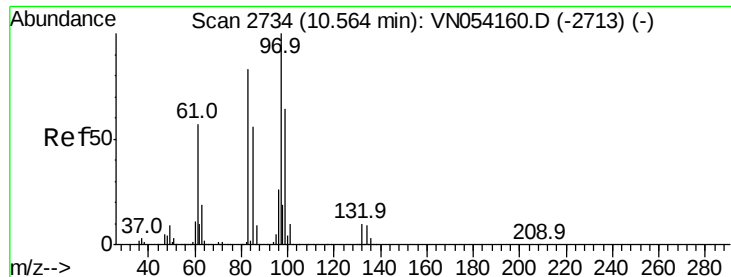
Ion Ratio Lower Upper

75 100

77 30.8 25.4 38.0

39 46.8 37.2 55.8





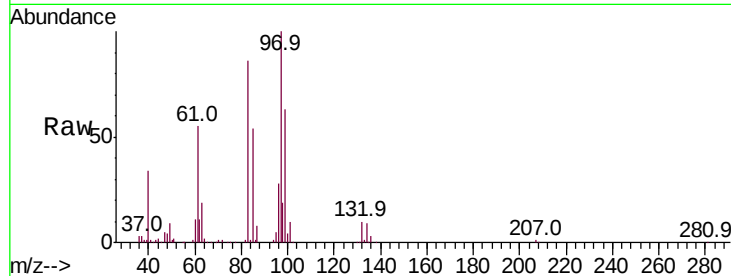
#55
 1,1,2-Trichloroethane
 Concen: 22.169 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN054340.D
 Acq: 16 Mar 2019 16:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBS01

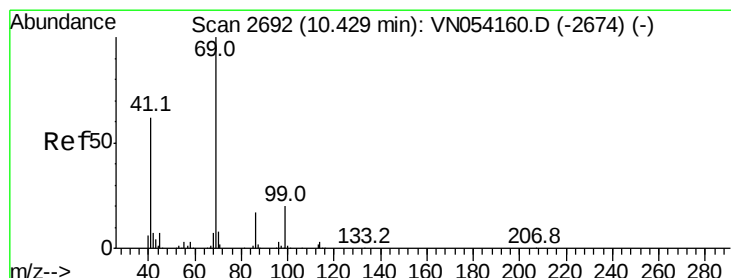
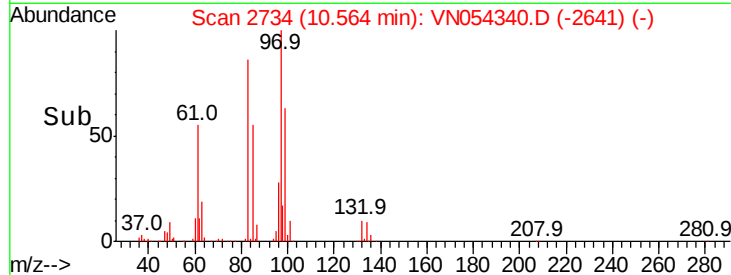
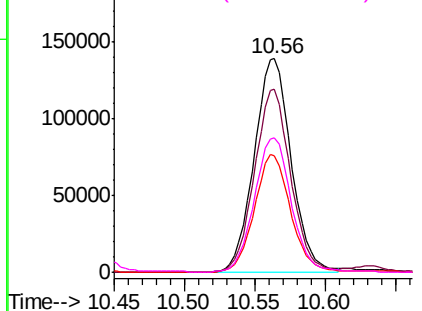
Tot Ion:	97	Resp:	254532
Ion	Ratio	Lower	Upper
97	100		
83	85.5	66.6	100.0
85	54.5	44.4	66.6
99	62.8	50.8	76.2

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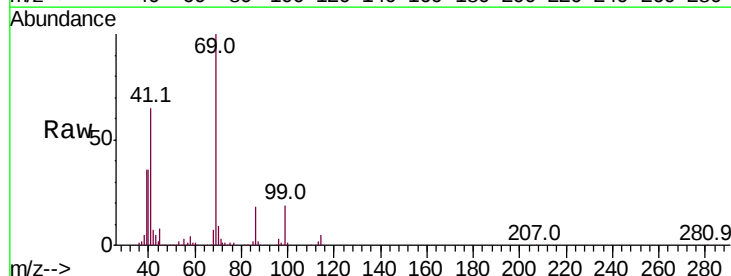


Abundance Ion 96.90 (96.60 to 97.60): VN0
 Ion 82.90 (82.60 to 83.60): VN0
 Ion 84.90 (84.60 to 85.60): VN0
 Ion 98.90 (98.60 to 99.60): VN0

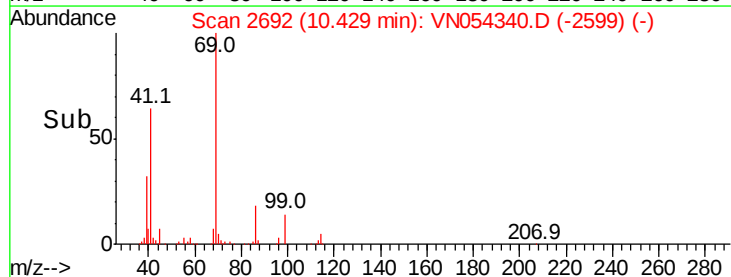
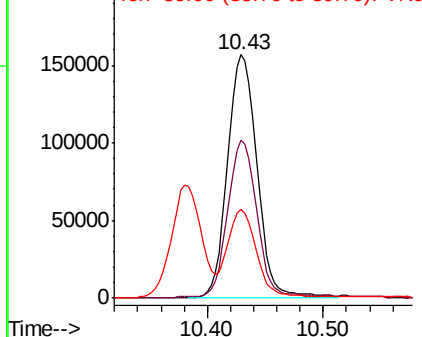


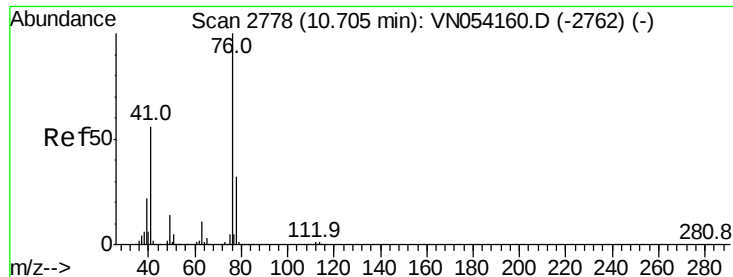
#56
 Ethyl methacrylate
 Concen: 20.251 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN054340.D
 Acq: 16 Mar 2019 16:46

Tgt Ion:	69	Resp:	277238
Ion	Ratio	Lower	Upper
69	100		
41	62.2	49.4	74.2
39	34.6	28.3	42.5



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





#57

1,3-Dichloropropane

Concen: 21.664 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS01

Tot Ion: 76 Resp: 406722

Ion Ratio Lower Upper

76 100

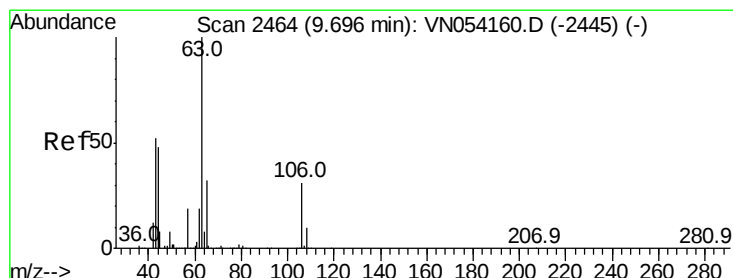
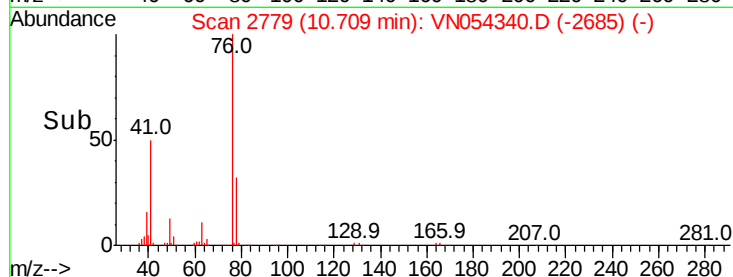
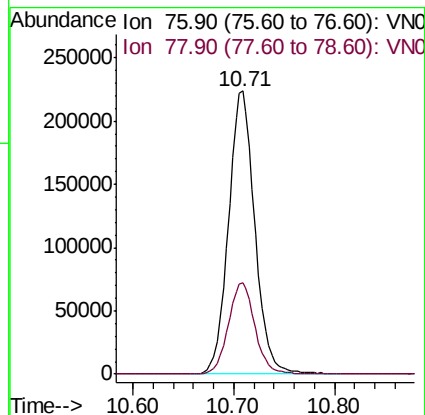
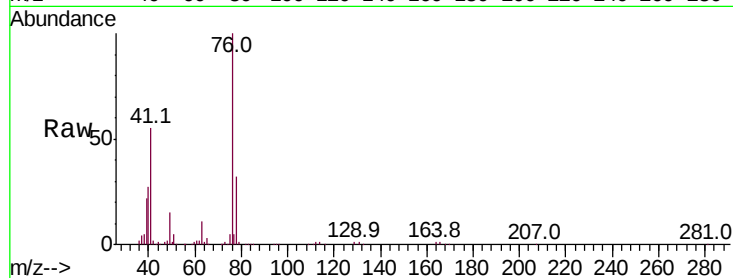
78 32.7 25.7 38.5

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 100.645 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054340.D

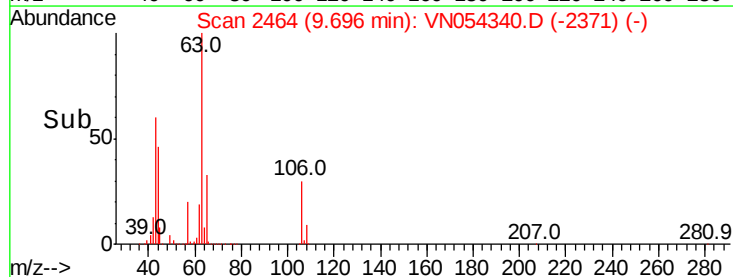
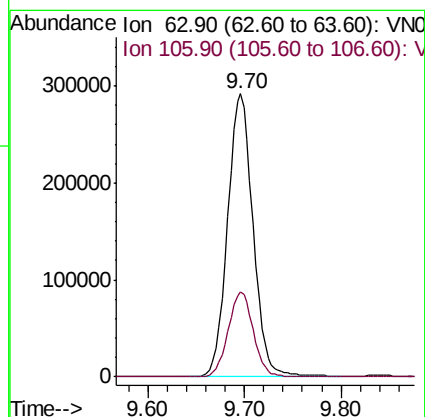
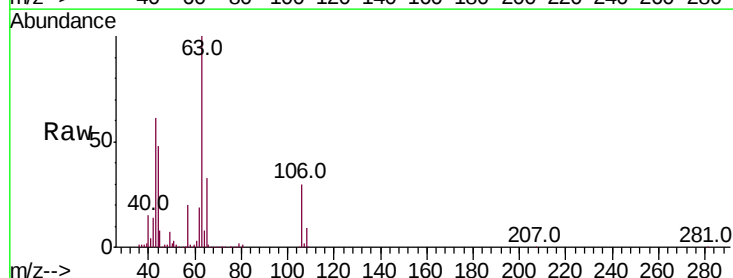
Acq: 16 Mar 2019 16:46

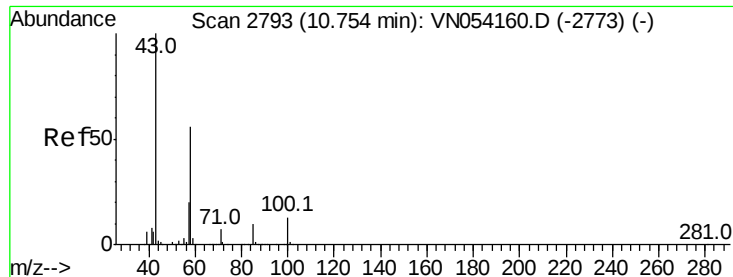
Tgt Ion: 63 Resp: 533750

Ion Ratio Lower Upper

63 100

106 29.5 24.4 36.6





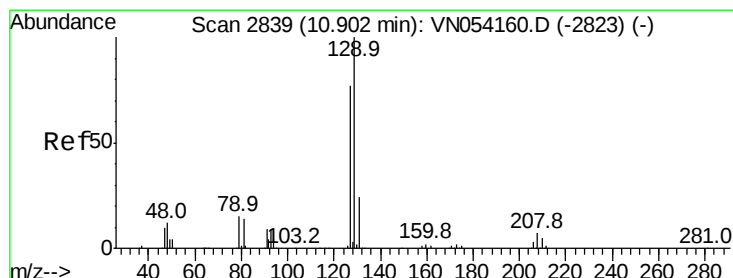
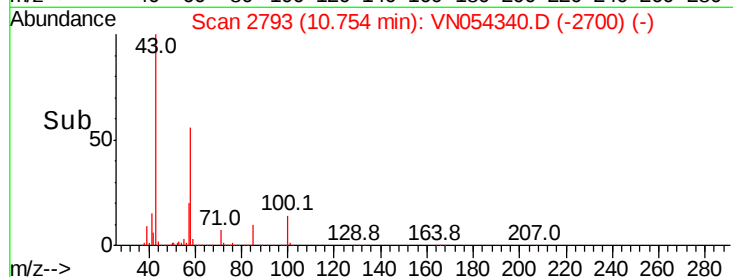
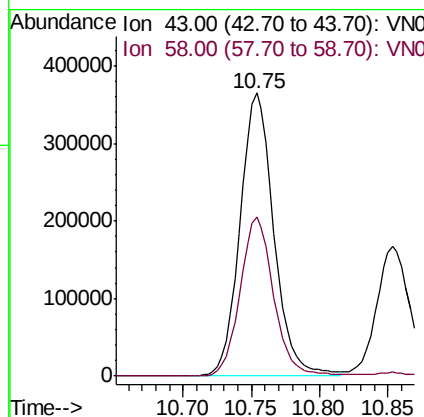
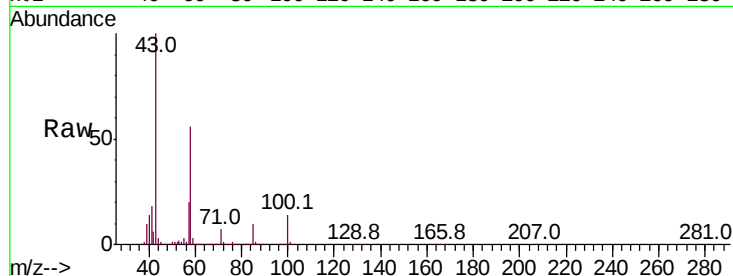
#59
2-Hexanone
Concen: 101.023 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampled :
VN0316WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.5	28.0	83.9

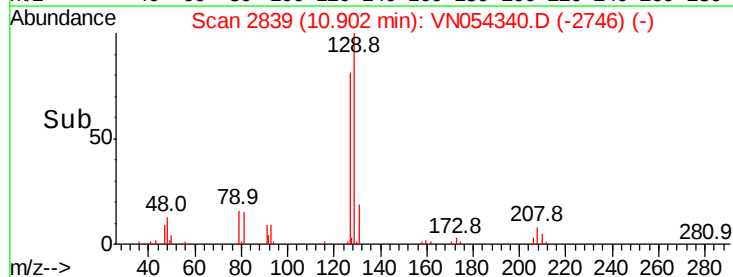
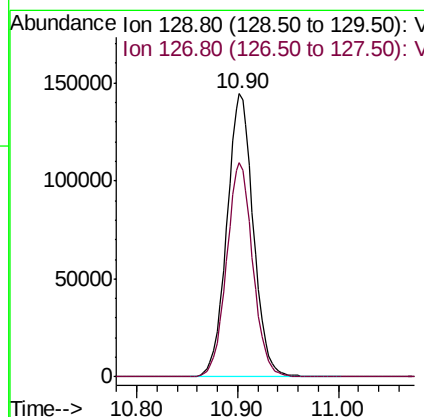
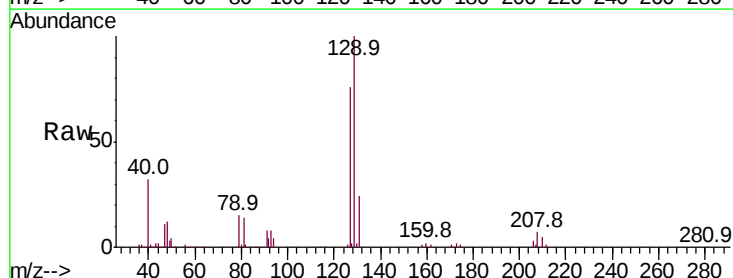
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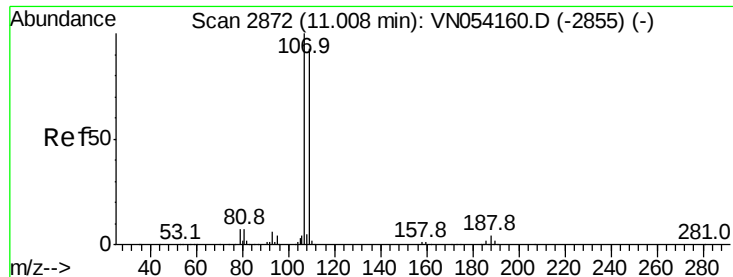
MMDadoda
3/18/2019 11:30:45 AM



#60
Dibromochloromethane
Concen: 20.477 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion	Ratio	Lower	Upper
129	100		
127	74.7	38.6	115.8





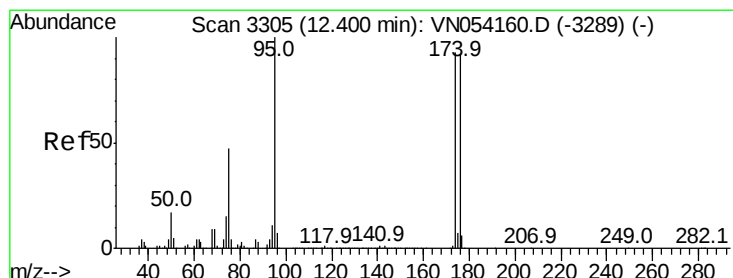
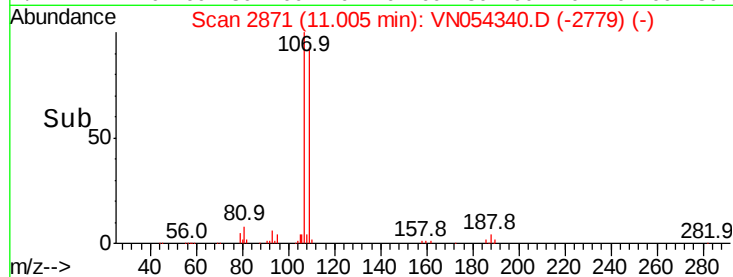
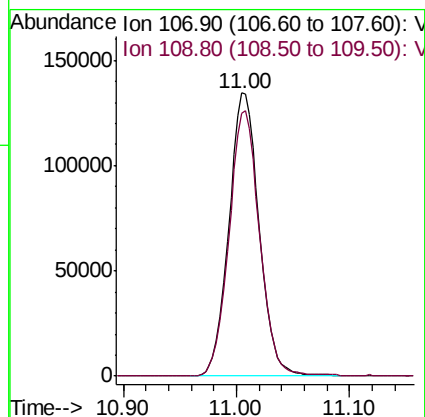
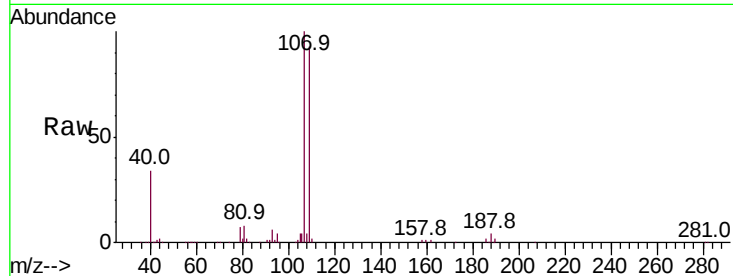
#61
1,2-Dibromoethane
Concen: 21.413 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. -0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.4	75.9	113.9

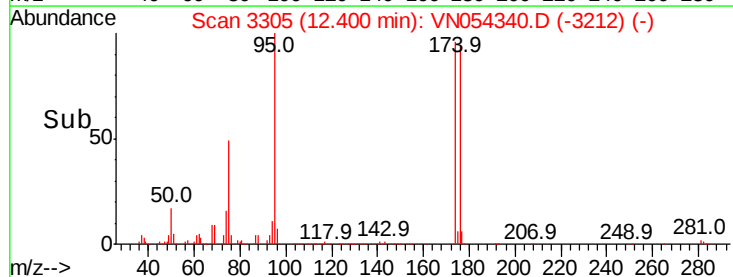
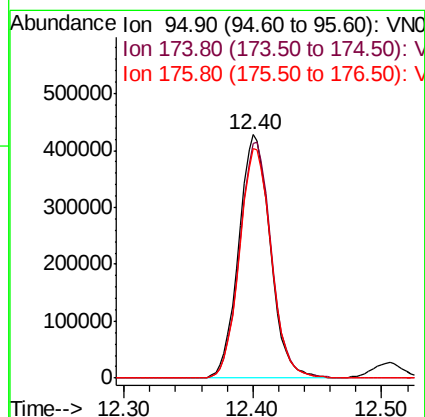
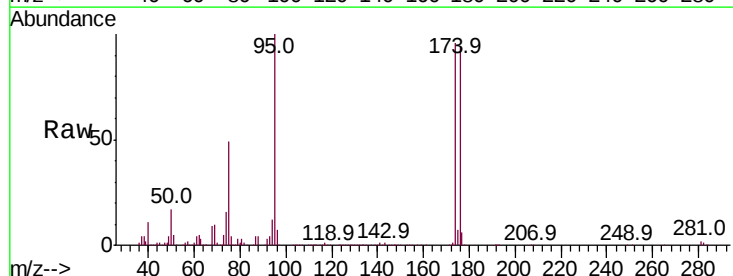
Manual Integrations
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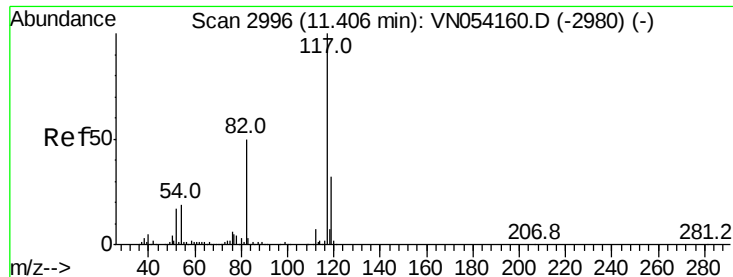
MMDadoda
3/18/2019 11:30:45 AM



#62
4-Bromofluorobenzene
Concen: 46.514 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion	Ratio	Lower	Upper
95	100		
174	97.5	0.0	191.0
176	94.8	0.0	187.4





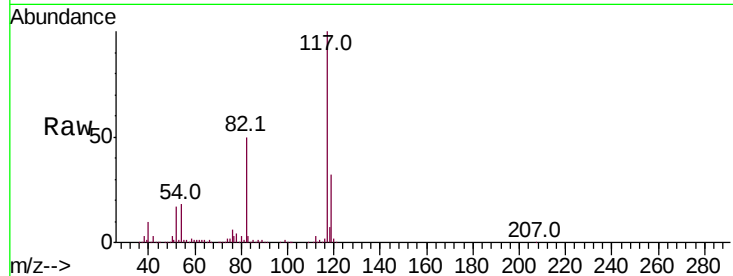
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.0	40.0	60.0
119	32.2	25.8	38.6

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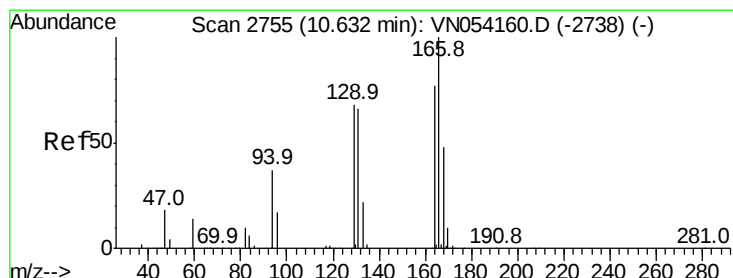
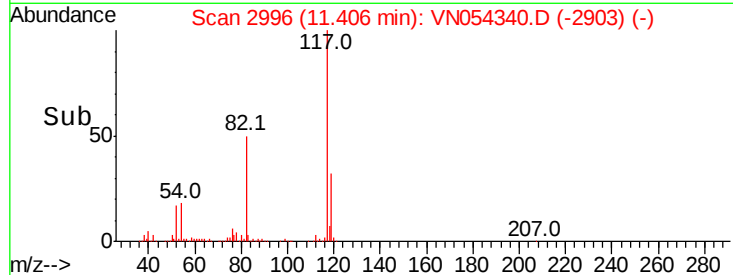
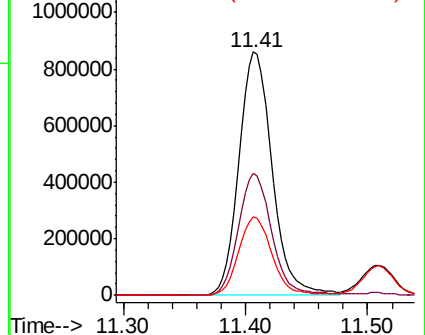


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 21.114 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.1	103.9	155.9
129	86.7	71.1	106.7
131	86.2	68.2	102.4

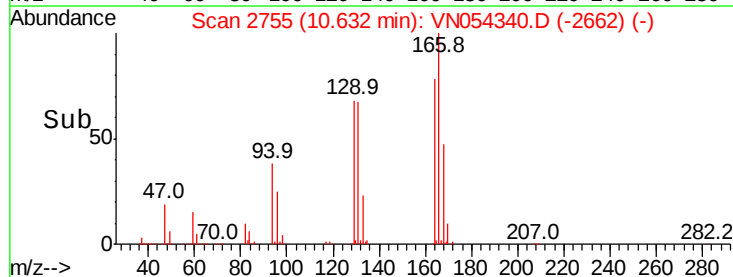
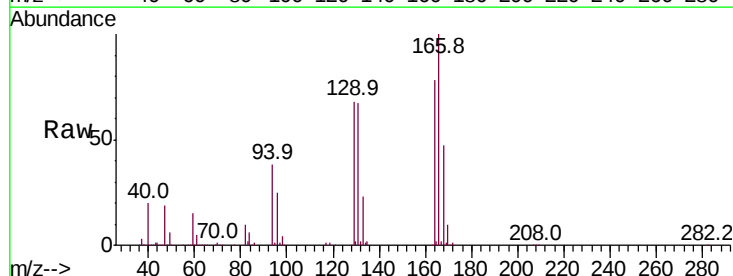
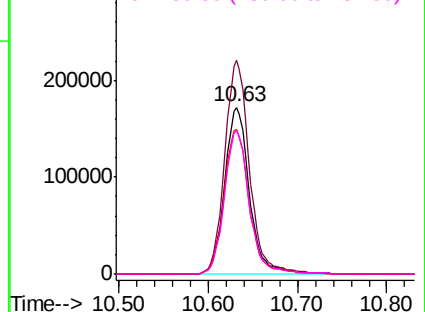
Abundance

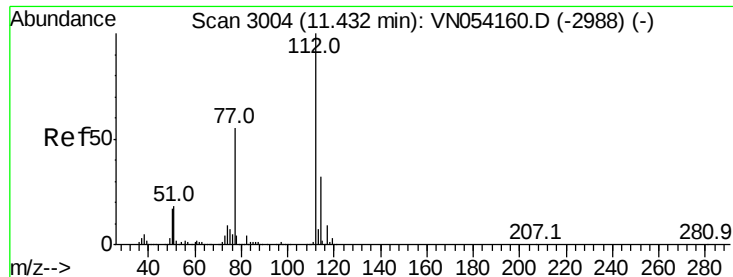
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 21.468 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS01

Tot Ion:112 Resp: 765017

Ion Ratio Lower Upper

112 100

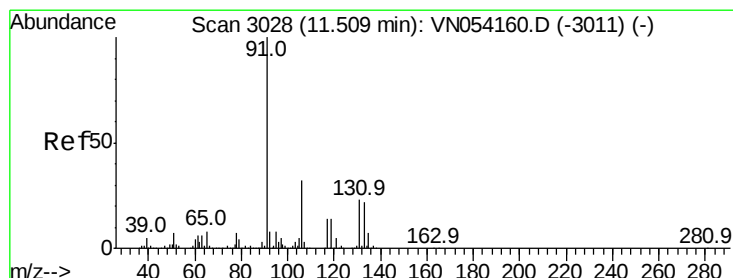
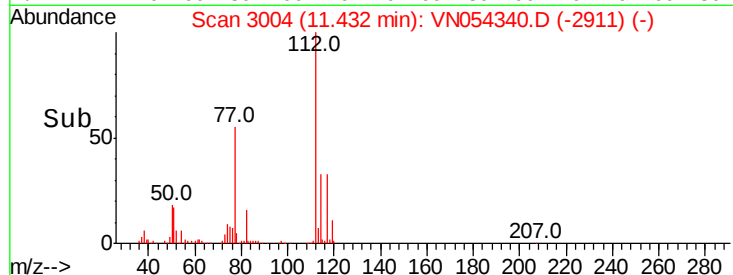
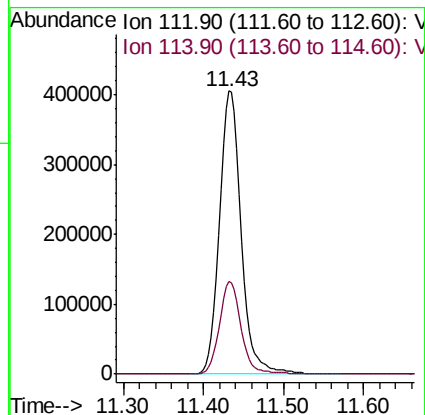
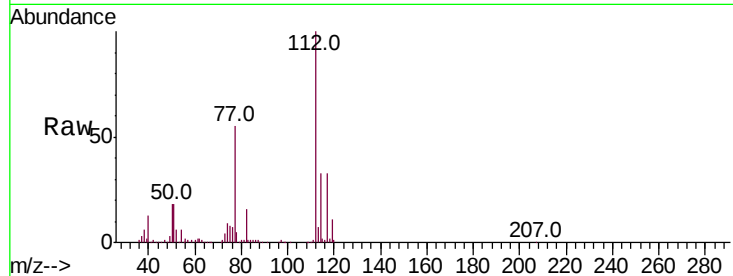
114 32.5 25.9 38.9

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#66

1,1,1,2-Tetrachloroethane

Concen: 21.500 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

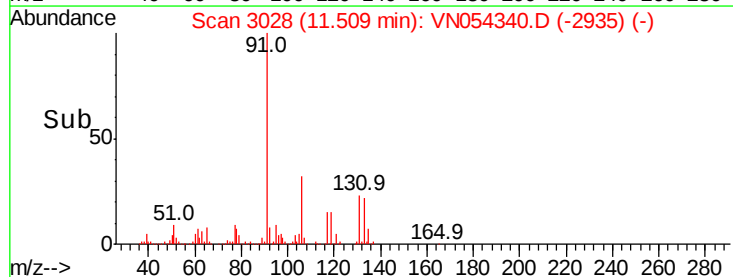
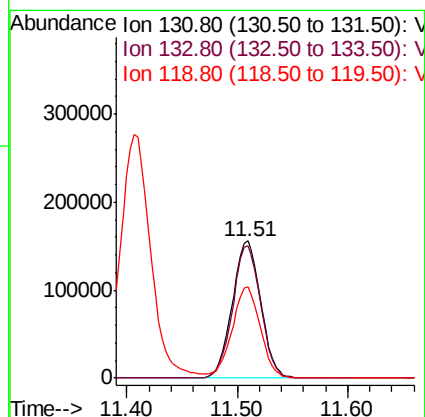
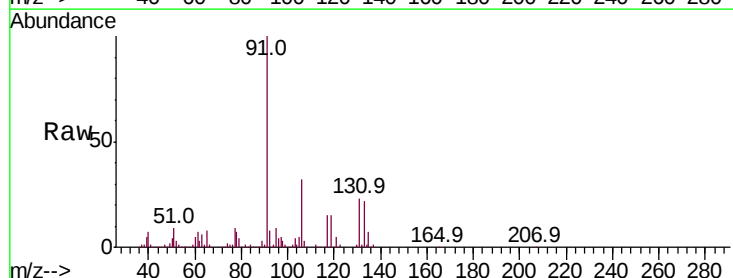
Tgt Ion:131 Resp: 278326

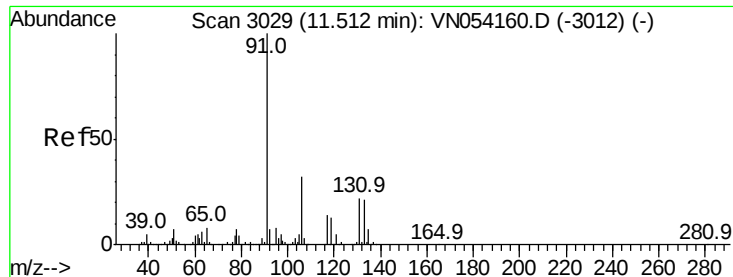
Ion Ratio Lower Upper

131 100

133 95.1 47.6 142.9

119 66.6 32.4 97.0





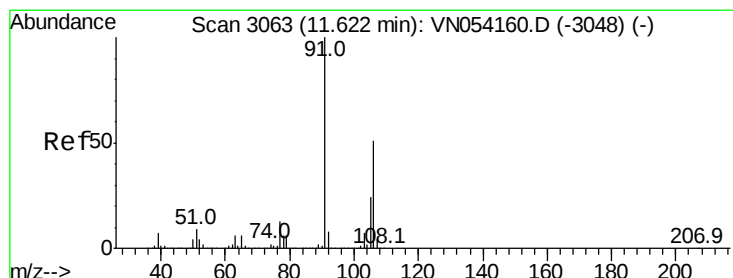
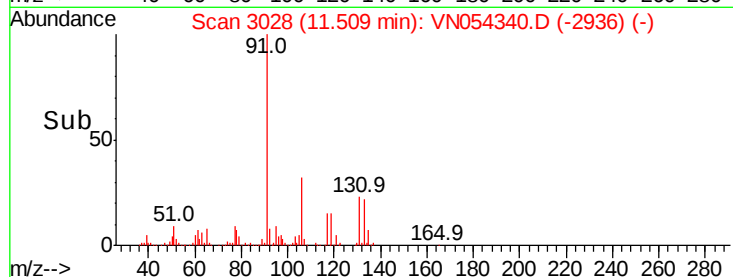
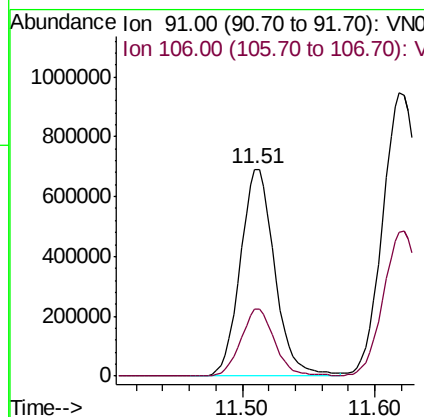
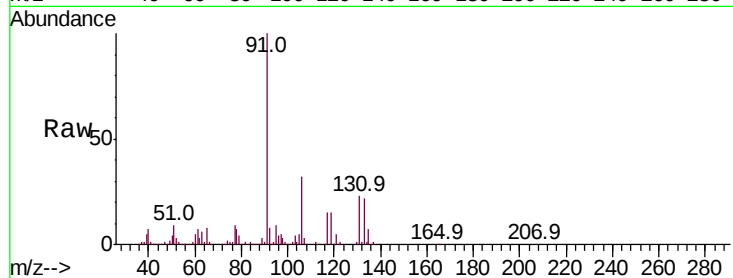
#67
Ethyl Benzene
Concen: 21.114 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampled :
VN0316WBS01

Tot Ion: 91 Resp: 1247237
Ion Ratio Lower Upper
91 100
106 32.3 25.5 38.3

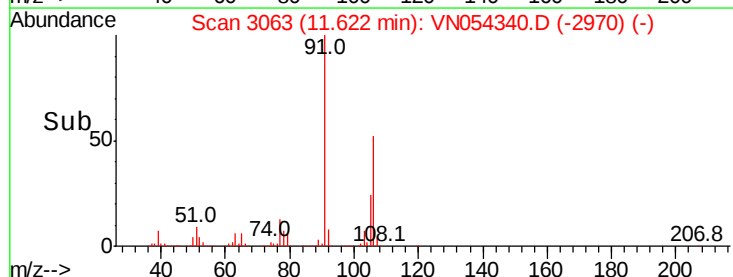
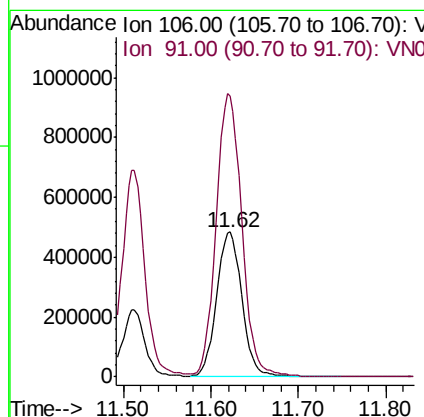
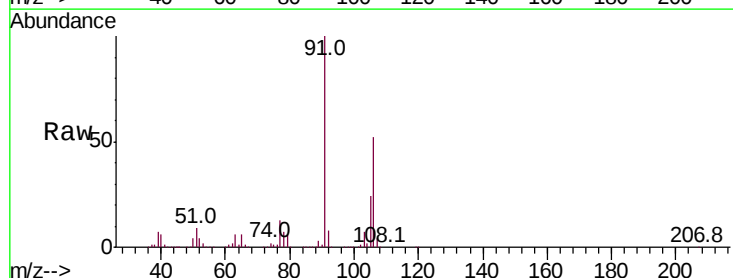
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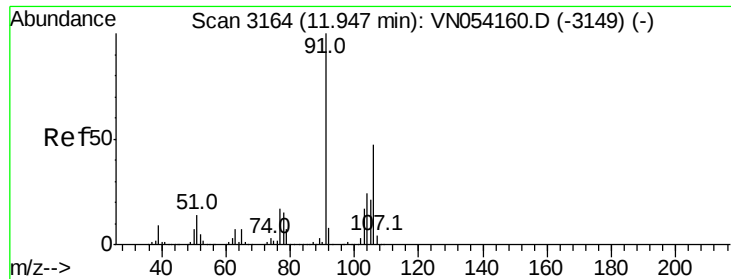
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#68
m/p-Xylenes
Concen: 42.311 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion: 106 Resp: 976888
Ion Ratio Lower Upper
106 100
91 198.0 159.4 239.2





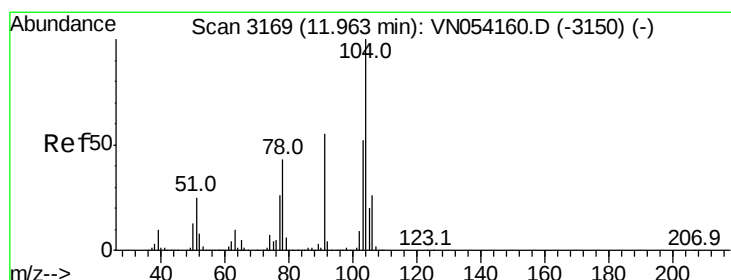
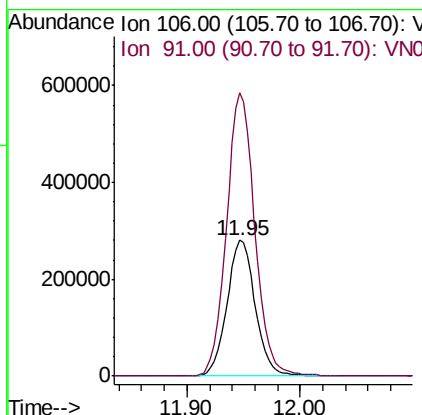
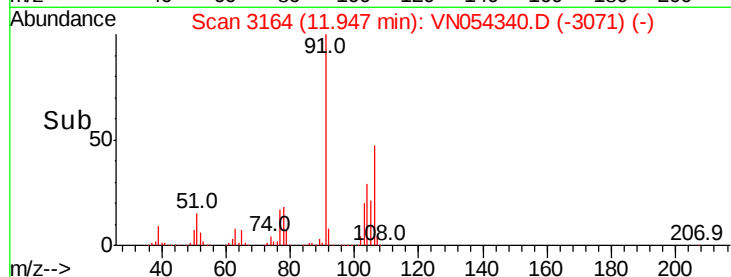
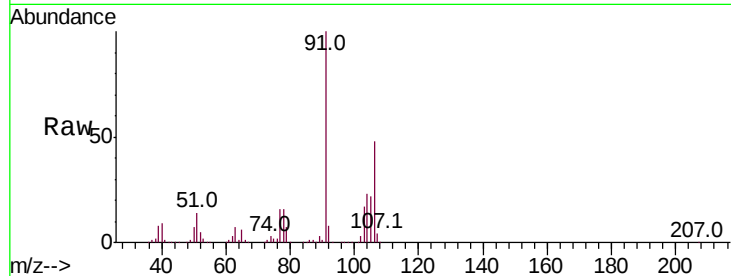
#69
o-Xylene
Concen: 21.646 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS01

Tot Ion:106 Resp: 487188
Ion Ratio Lower Upper
106 100
91 208.9 105.7 317.1

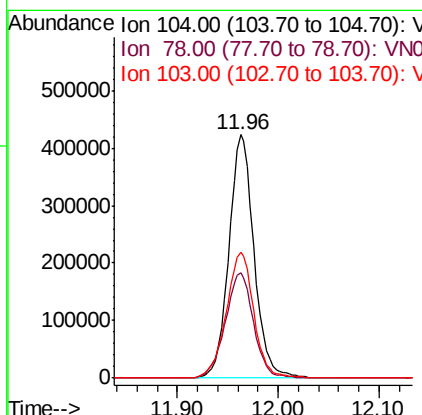
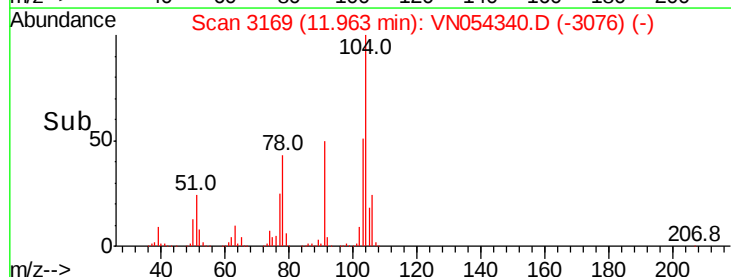
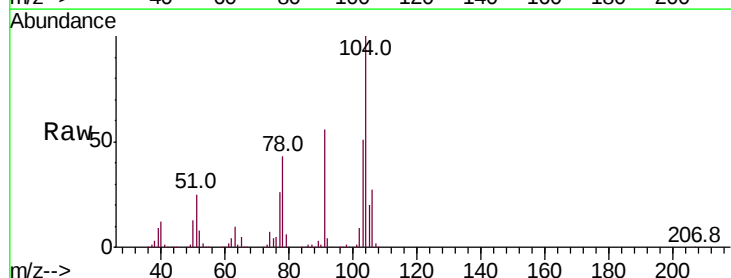
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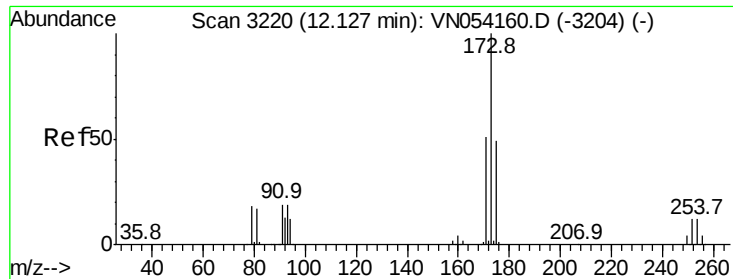
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#70
Styrene
Concen: 20.837 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion:104 Resp: 735513
Ion Ratio Lower Upper
104 100
78 48.7 38.2 57.2
103 56.7 44.4 66.6





#71

Bromoform

Concen: 18.074 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

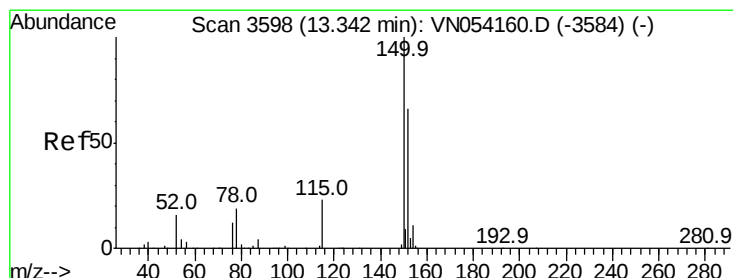
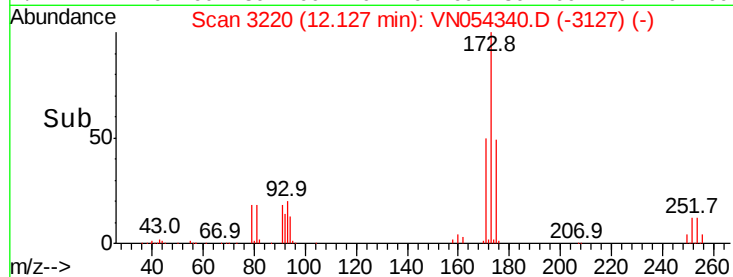
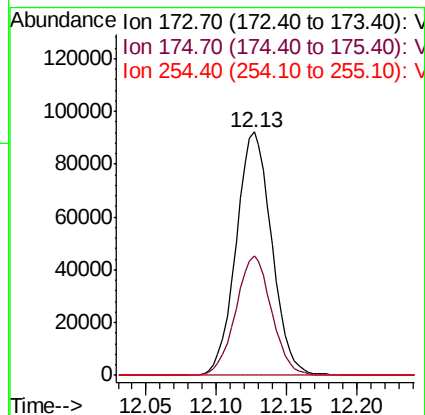
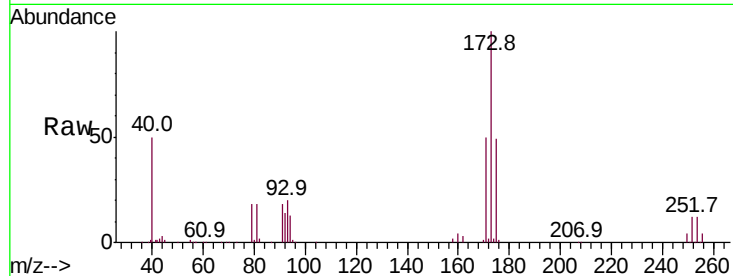
ClientSampleId :

VN0316WBS01

Tot Ion:	173	Resp:	162820
Ion Ratio	Lower	Upper	
173	100		
175	49.4	24.4	73.2
254	0.1	0.1	0.1

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

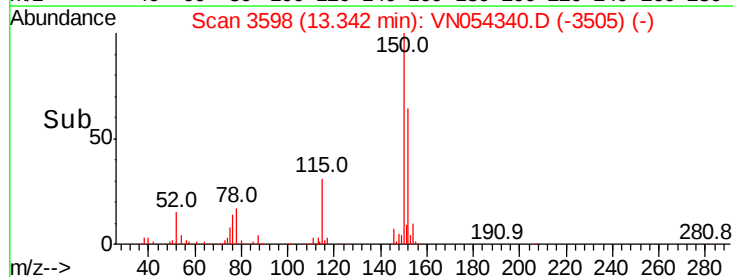
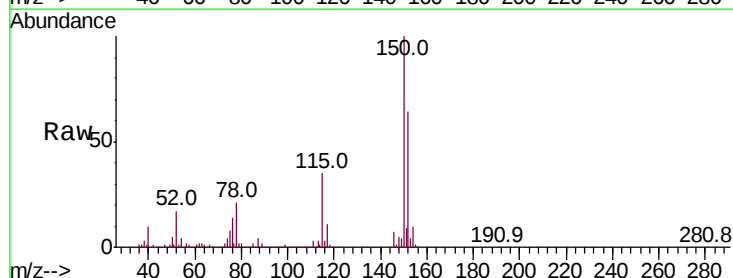
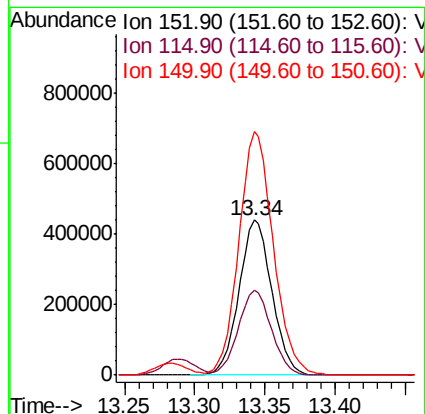
RT: 13.34 min Scan# 3598

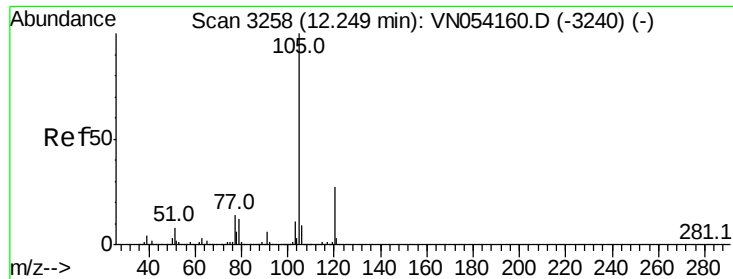
Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Tgt Ion:	152	Resp:	718467
Ion Ratio	Lower	Upper	
152	100		
115	55.0	27.2	81.6
150	164.4	0.0	349.2





#73

Isopropylbenzene

Concen: 22.060 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS01

Tot Ion:105 Resp: 1268022

Ion Ratio Lower Upper

105 100

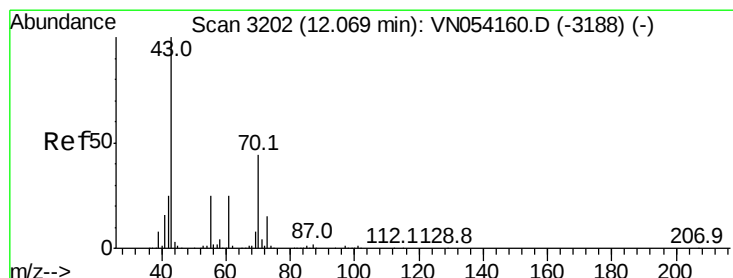
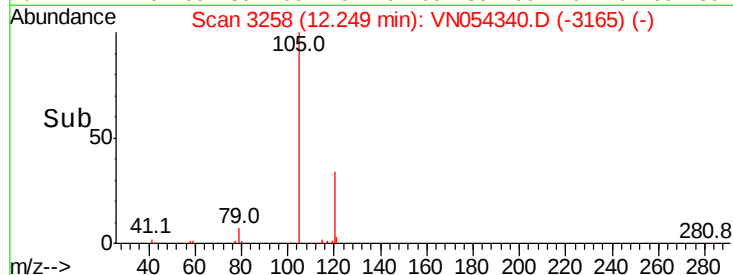
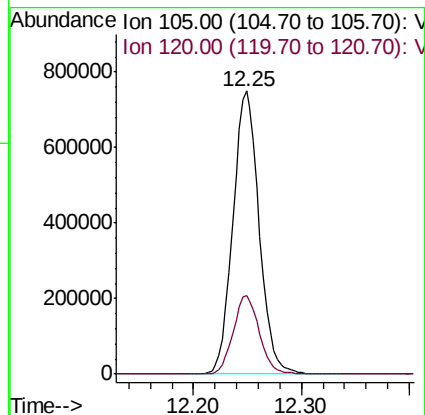
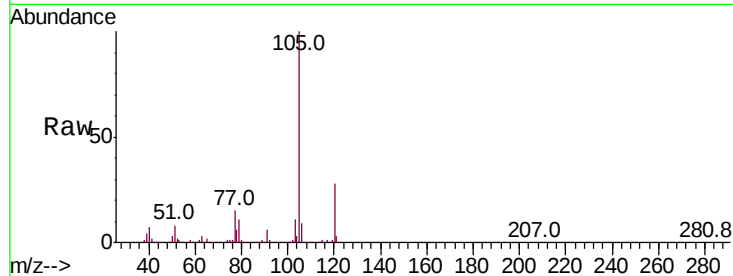
120 27.6 13.8 41.3

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#74

N-ethyl acetate

Concen: 20.699 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Tgt Ion: 43 Resp: 264103

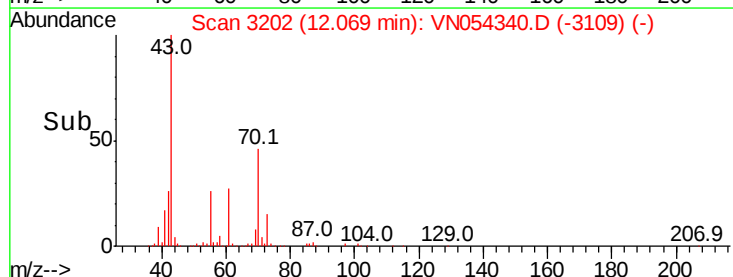
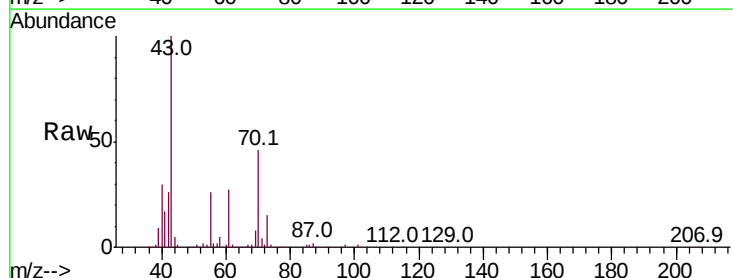
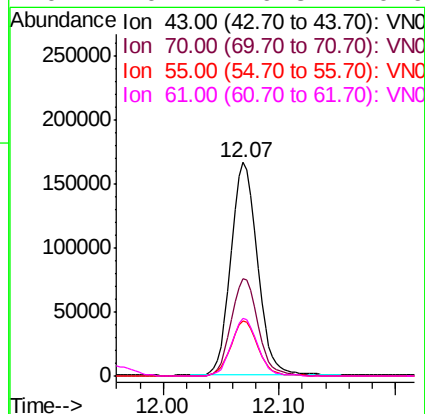
Ion Ratio Lower Upper

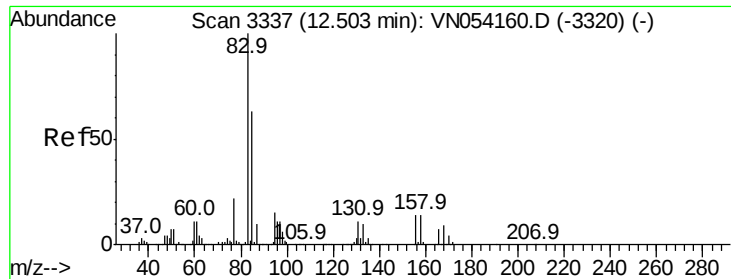
43 100

70 46.0 35.4 53.0

55 26.5 19.8 29.6

61 26.4 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 23.008 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS01

Tot Ion: 83 Resp: 281773

Ion Ratio Lower Upper

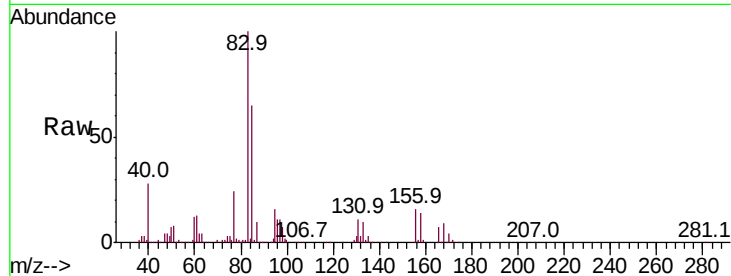
83 100

131 11.5 5.8 17.4

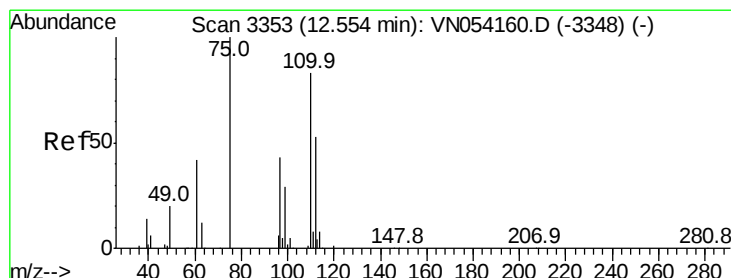
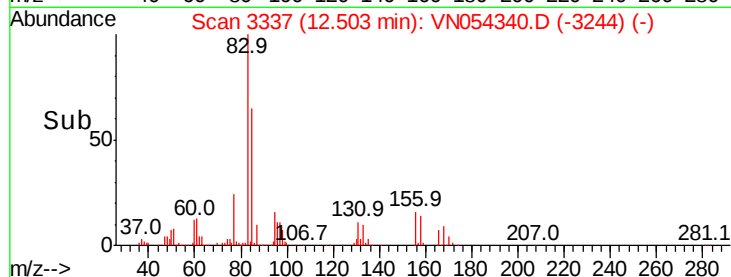
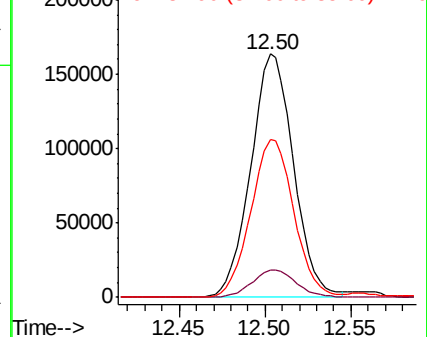
85 65.4 32.2 96.6

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Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 24.882 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN054340.D

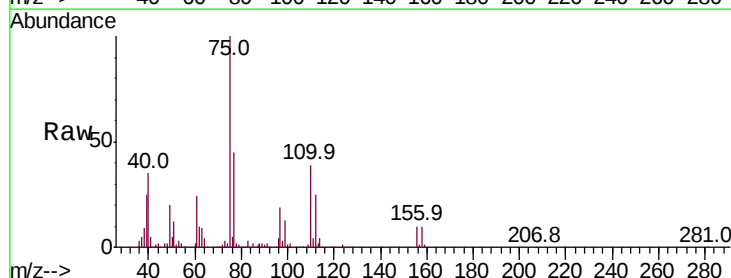
Acq: 16 Mar 2019 16:46

Tgt Ion: 75 Resp: 262890

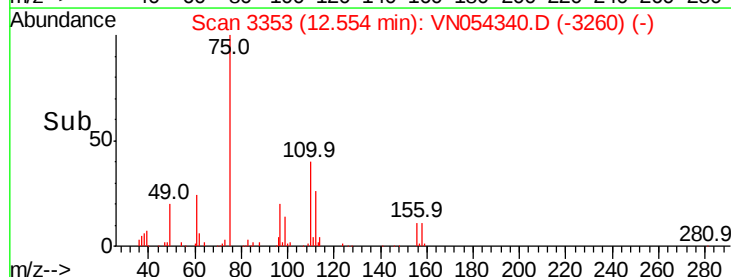
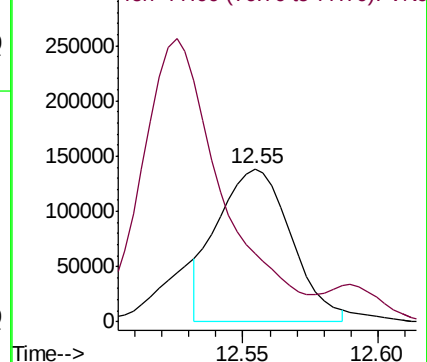
Ion Ratio Lower Upper

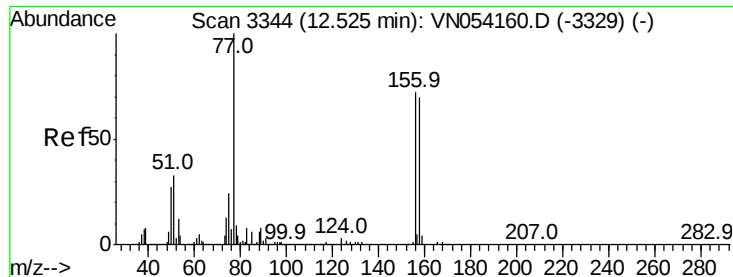
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 21.889 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

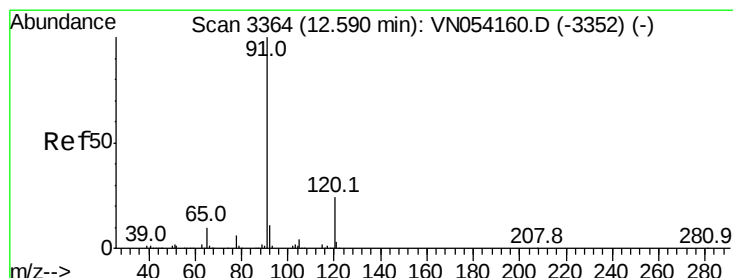
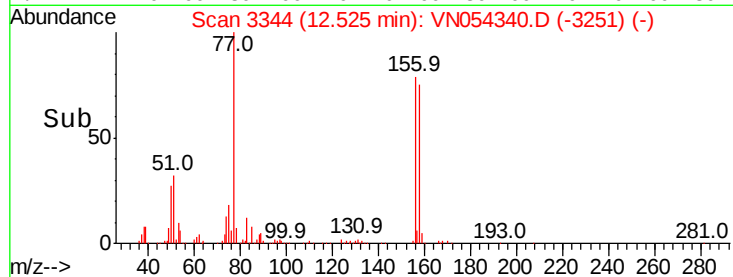
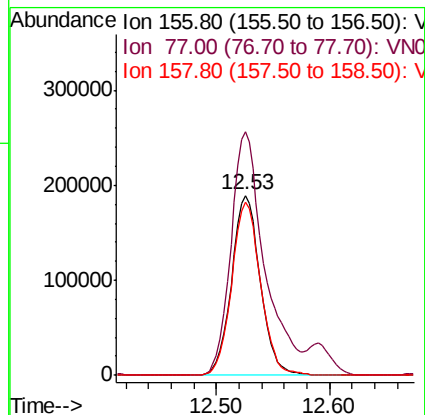
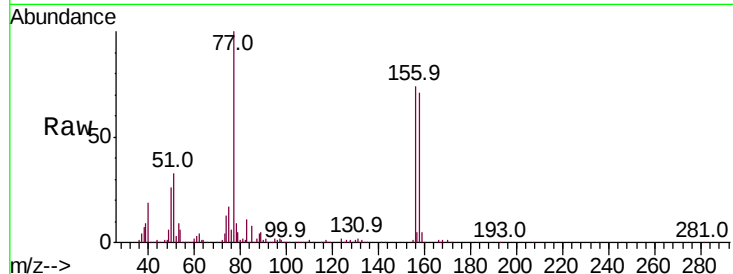
ClientSampleId :

VN0316WBS01

Tot Ion:	156	Resp:	332950
Ion Ratio	Lower	Upper	
156	100		
77	158.6	81.5	244.4
158	97.3	49.0	147.2

Manual Integrations
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#78

n-propylbenzene

Concen: 21.280 ug/l

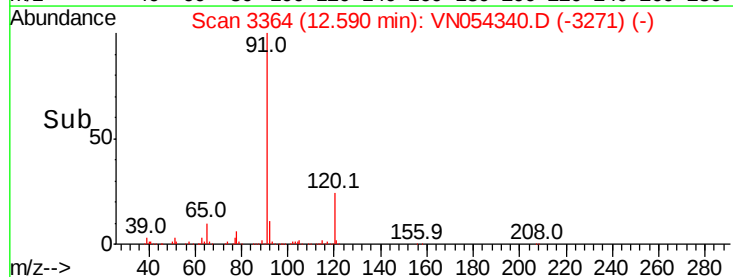
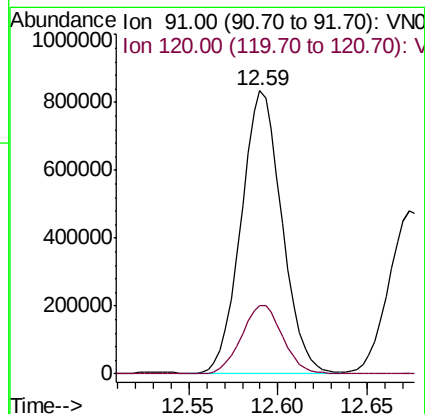
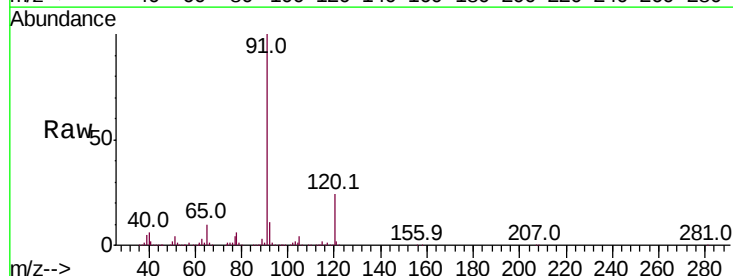
RT: 12.59 min Scan# 3364

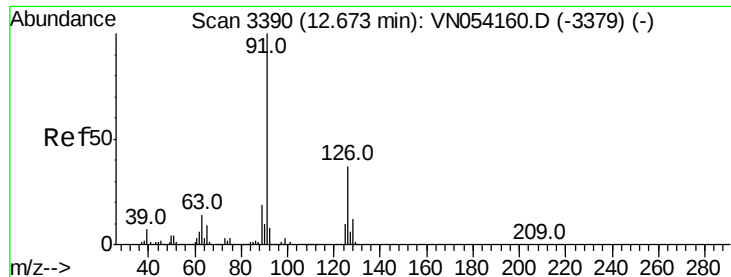
Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Tgt Ion:	91	Resp:	1327293
Ion Ratio	Lower	Upper	
91	100		
120	24.7	12.3	36.9





#79

2-Chlorotoluene

Concen: 22.155 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS01

Tot Ion: 91 Resp: 830859

Ion Ratio Lower Upper

91 100

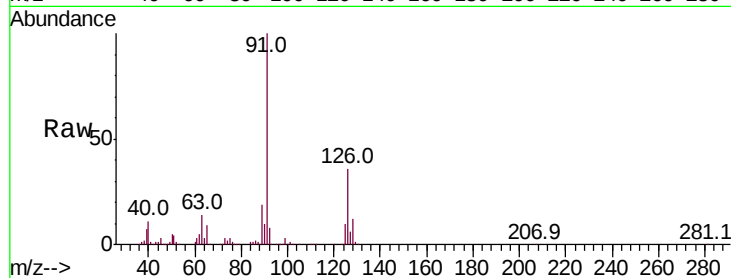
126 37.0 18.7 56.1

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN054160.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN054160.D (-3379) (-)

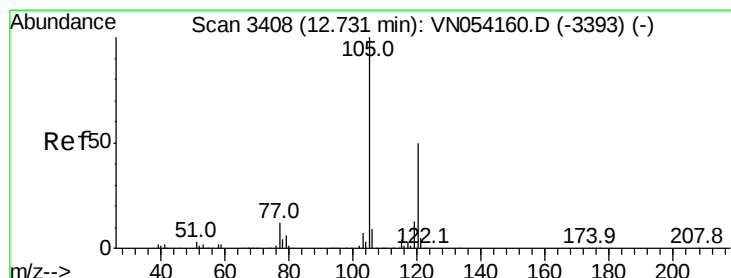
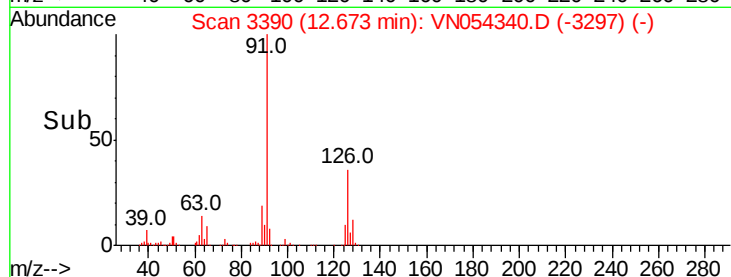
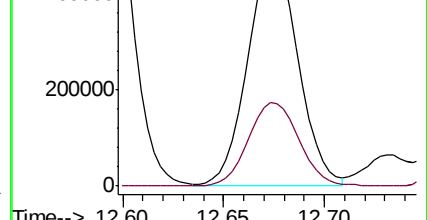
600000

400000

200000

0

12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 21.525 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054340.D

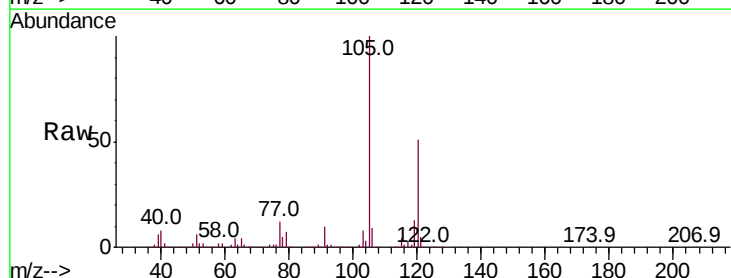
Acq: 16 Mar 2019 16:46

Tgt Ion: 105 Resp: 1029161

Ion Ratio Lower Upper

105 100

120 49.9 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054160.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN054160.D (-3393) (-)

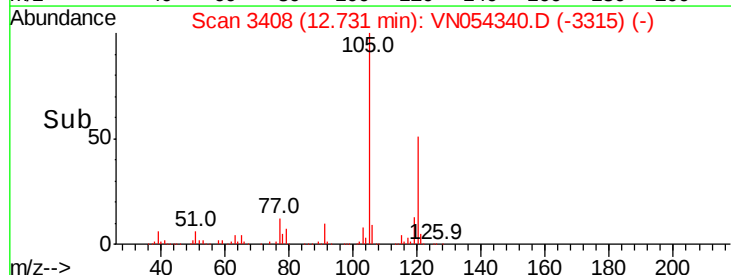
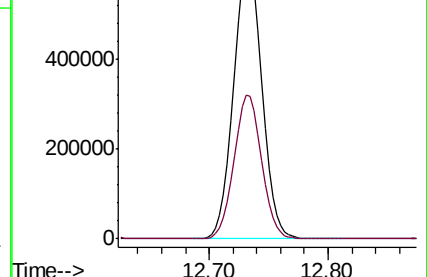
600000

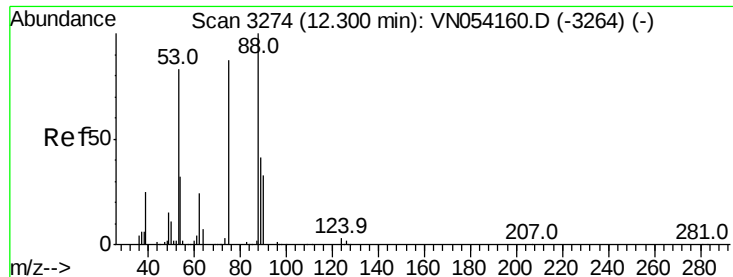
400000

200000

0

12.70 12.80





#81

trans-1,4-Dichloro-2-butene

Concen: 14.317 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

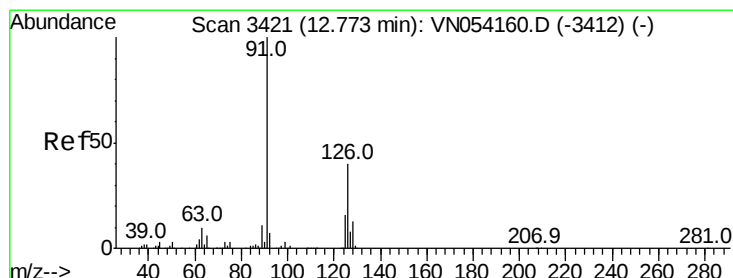
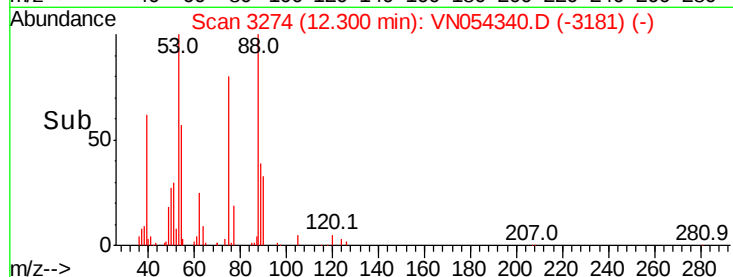
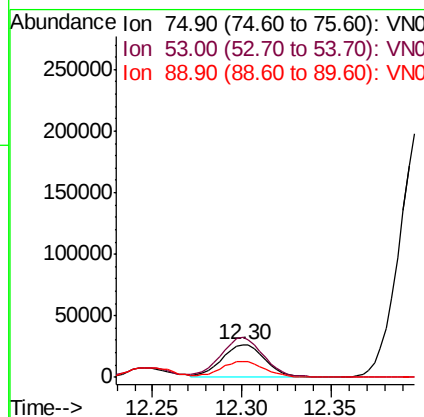
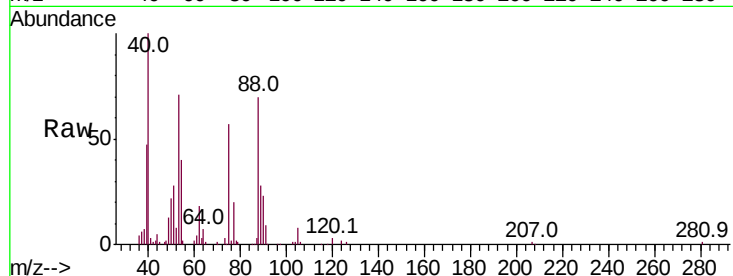
ClientSampleId :

VN0316WBS01

Tot Ion:	75	Resp:	44250
Ion Ratio	Lower	Upper	
75	100		
53	125.6	76.2	114.2#
89	50.4	39.2	58.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 21.402 ug/l

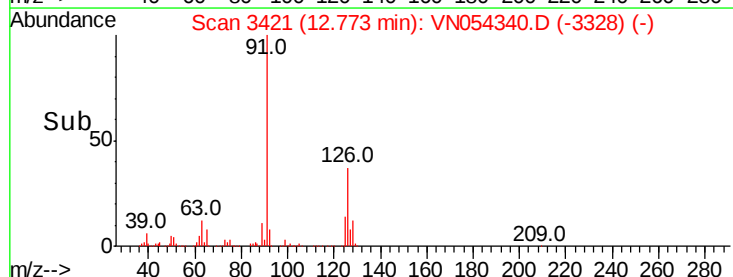
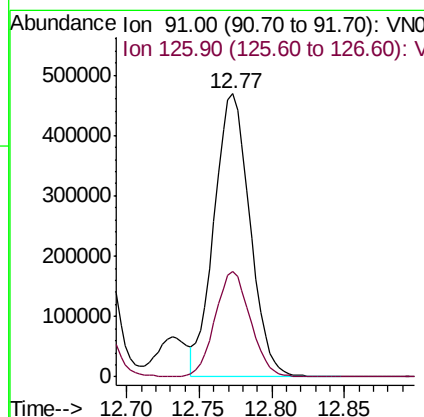
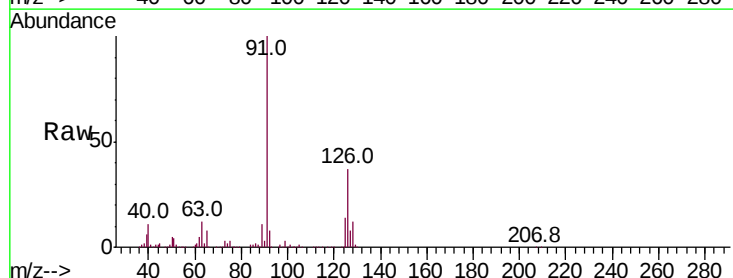
RT: 12.77 min Scan# 3421

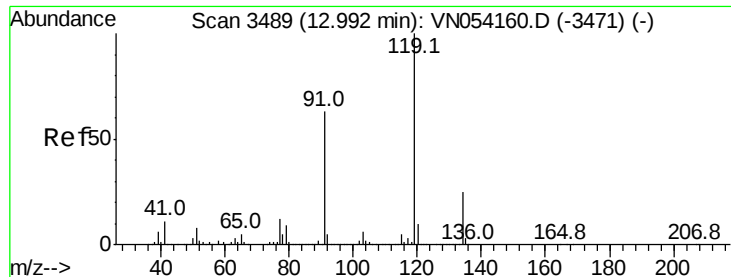
Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Tgt Ion:	91	Resp:	801452
Ion Ratio	Lower	Upper	
91	100		
126	36.8	18.1	54.1





#83

tert-Butylbenzene

Concen: 21.562 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

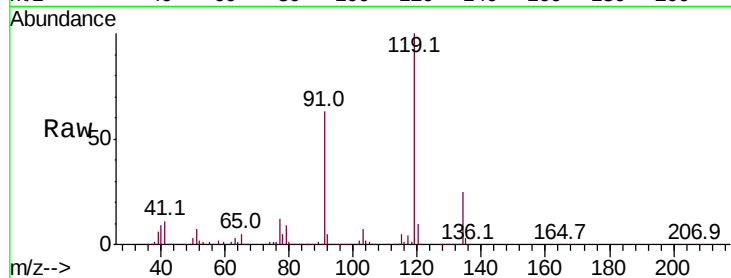
ClientSampleId :

VN0316WBS01

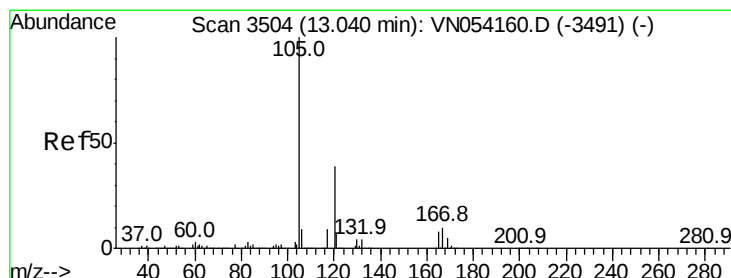
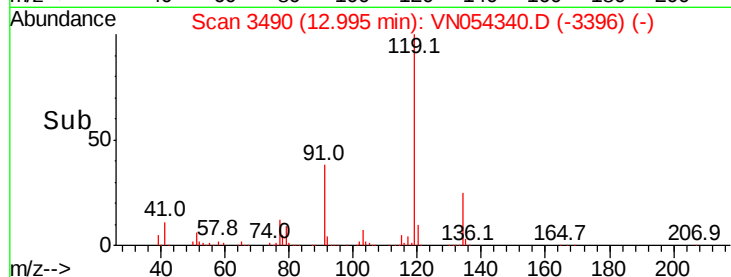
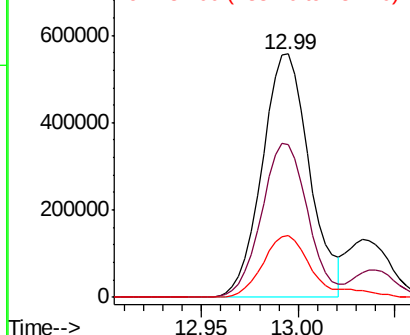
Tot Ion:	119	Resp:	948902
Ion Ratio	Lower	Upper	
119	100		
91	61.4	30.9	92.8
134	26.9	13.2	39.6

Manual Integrations
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Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 21.611 ug/l

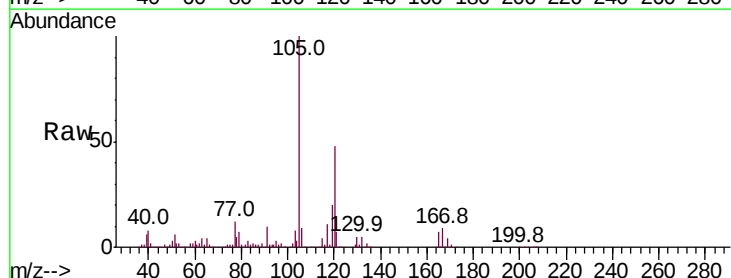
RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

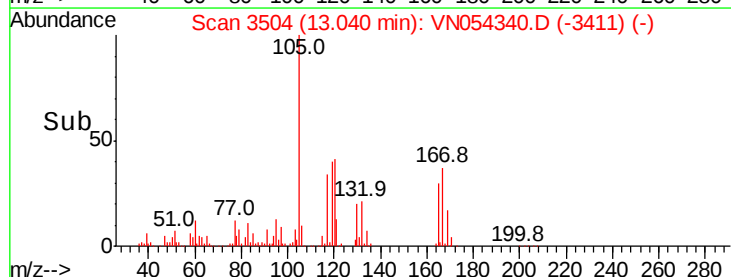
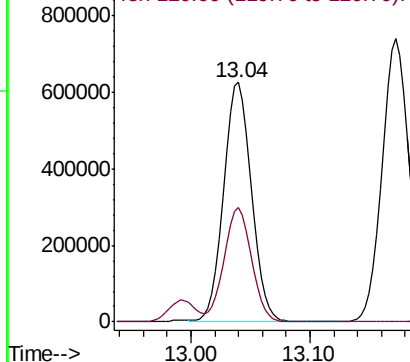
Lab File: VN054340.D

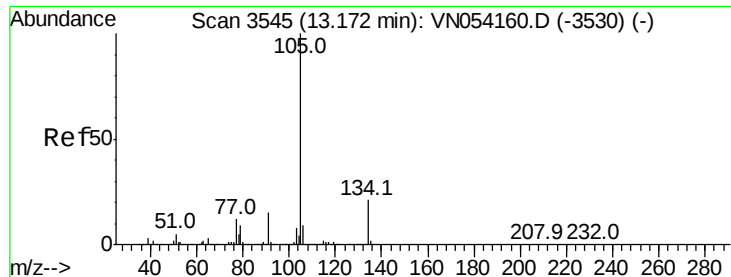
Acq: 16 Mar 2019 16:46

Tgt Ion:	105	Resp:	1013699
Ion Ratio	Lower	Upper	
105	100		
120	47.2	23.4	70.3



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





#85

sec-Butylbenzene

Concen: 20.672 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS01

Tot Ion:105 Resp: 1179842

Ion Ratio Lower Upper

105 100

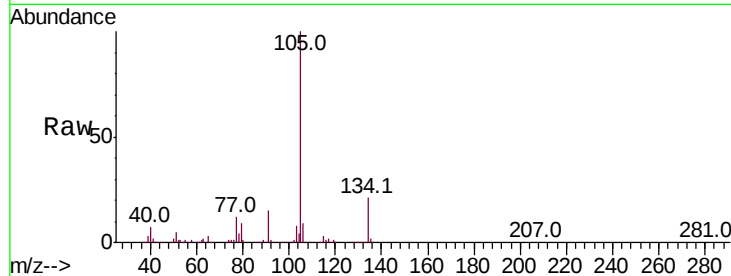
134 21.3 10.7 32.1

Manual Integrations

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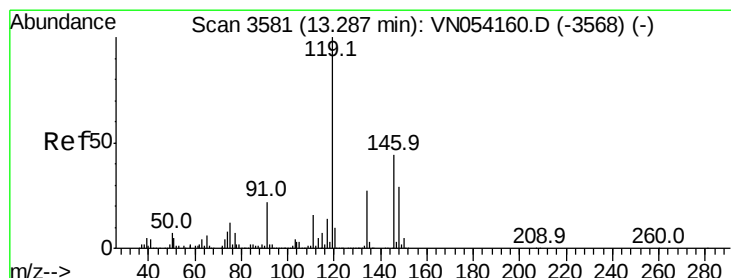
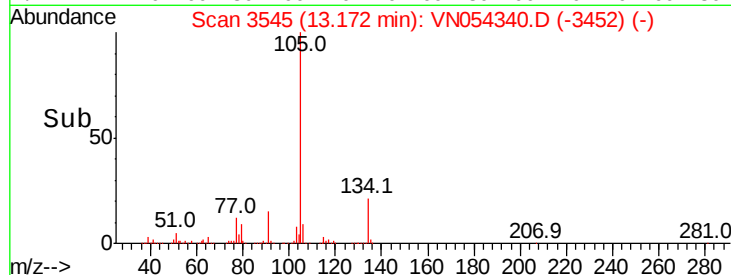
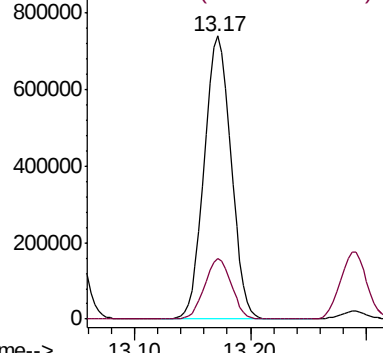
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.335 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

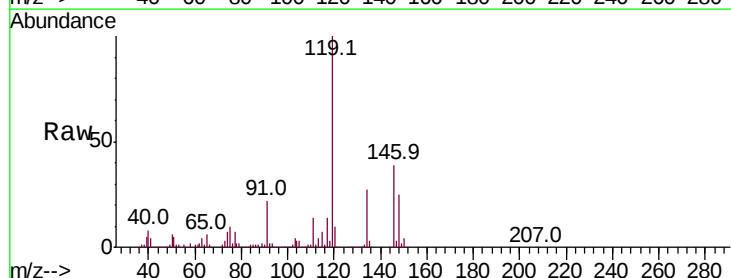
Tgt Ion:119 Resp: 1018169

Ion Ratio Lower Upper

119 100

134 27.4 13.6 40.8

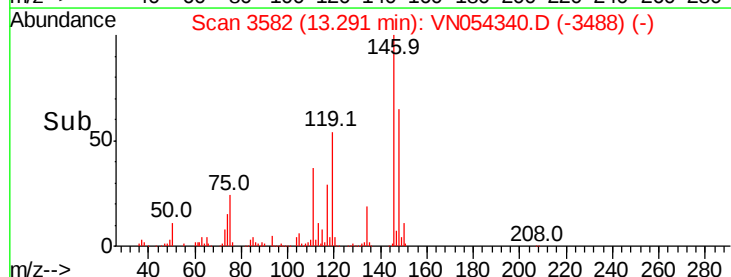
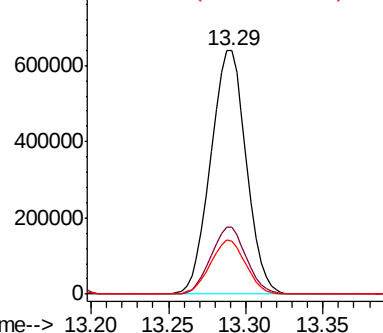
91 22.1 11.1 33.3

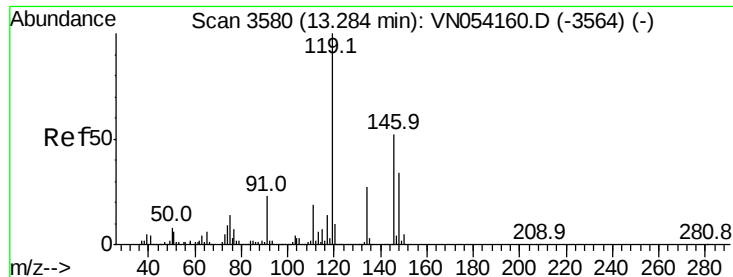


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 21.367 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN054340.D

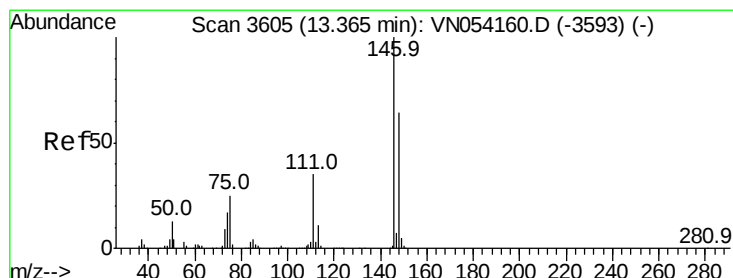
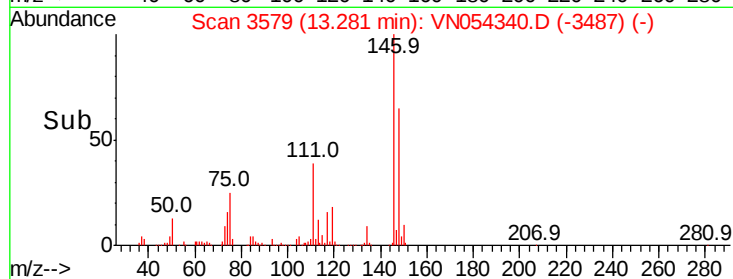
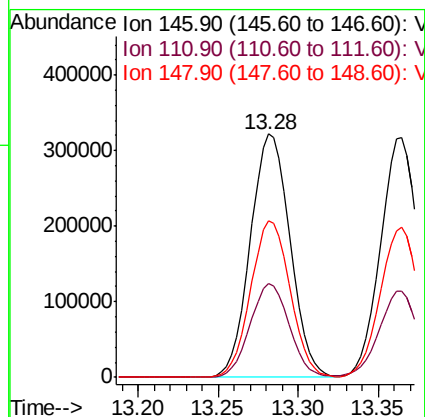
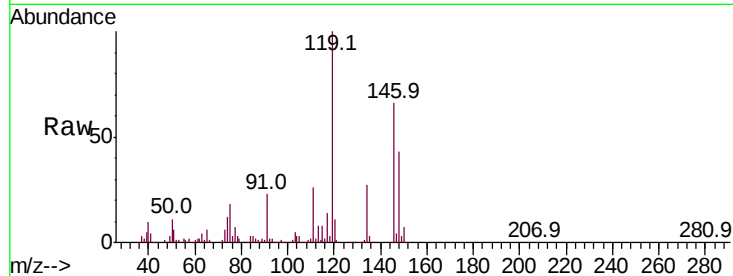
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	18.8	56.3
148	64.1	32.2	96.6

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 20.872 ug/l

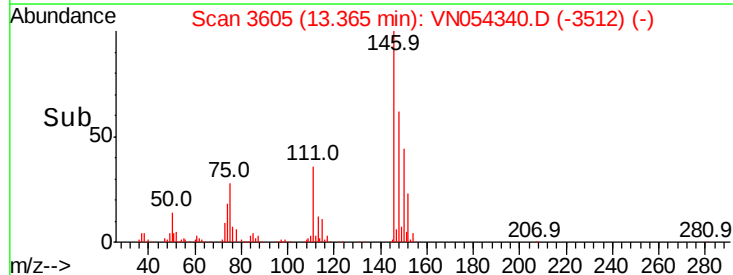
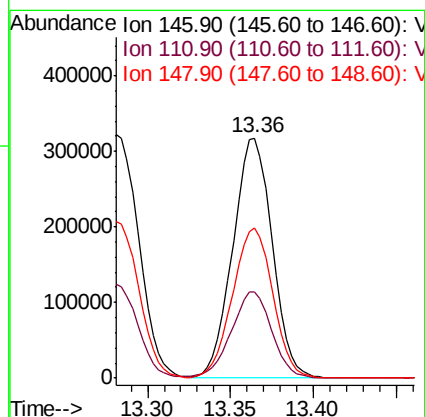
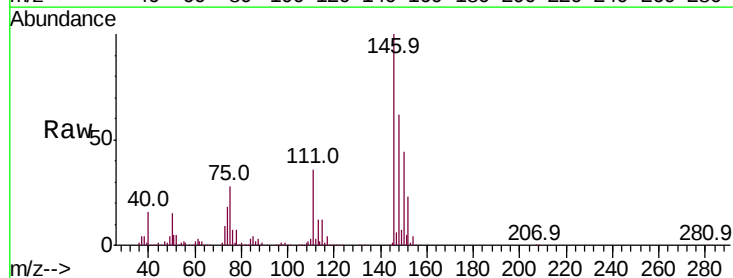
RT: 13.36 min Scan# 3605

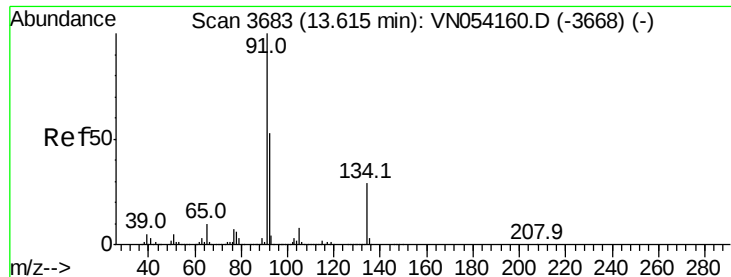
Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.9	18.1	54.1
148	64.0	32.0	96.0





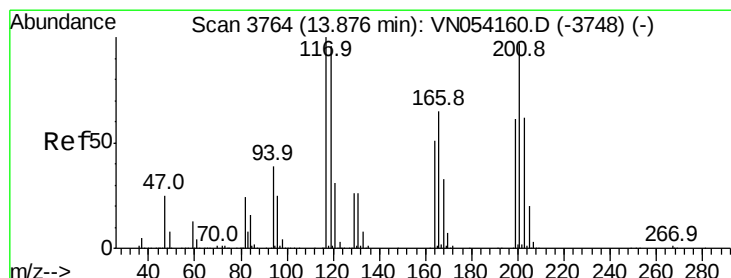
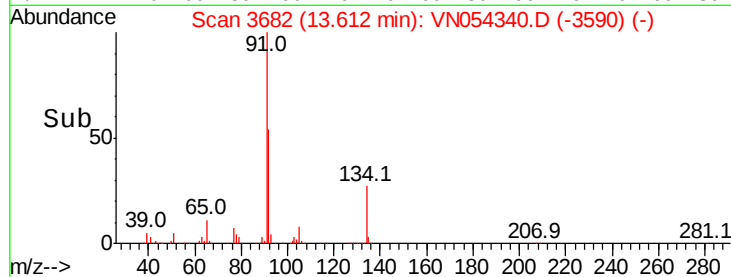
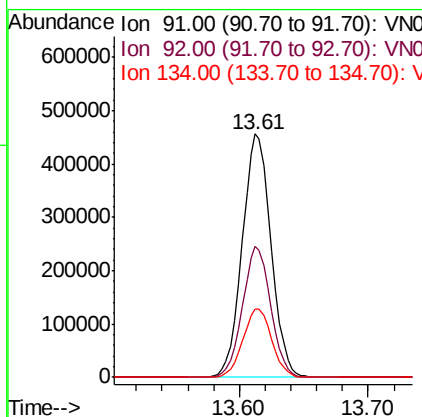
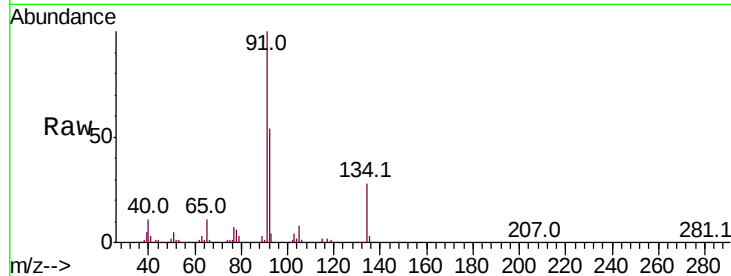
#89
n-Butylbenzene
Concen: 18.573 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.2	78.6
134	28.3	14.3	42.9

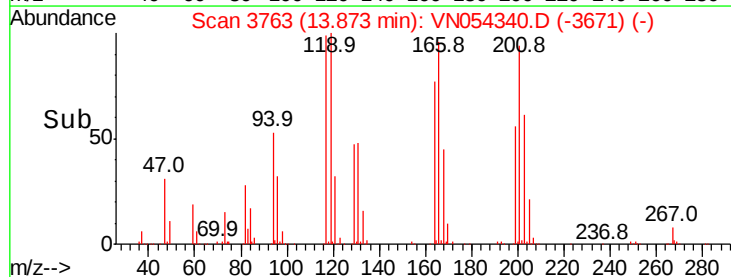
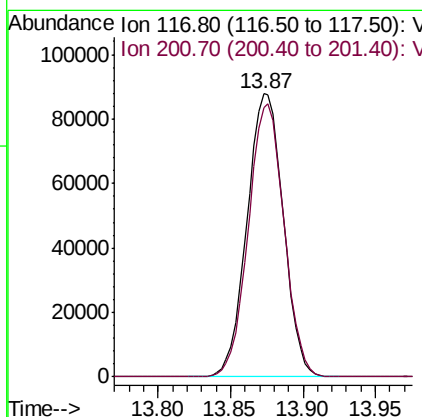
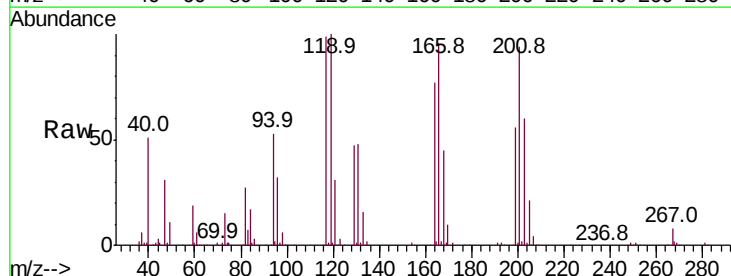
Manual Integrations
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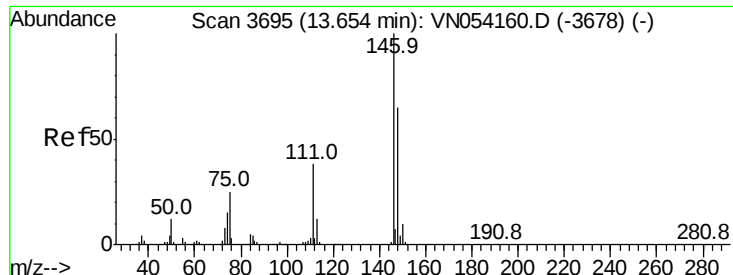
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3/18/2019 11:30:45 AM



#90
Hexachloroethane
Concen: 18.469 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion	Ratio	Lower	Upper
117	100		
201	94.7	48.1	144.4





#91

1,2-Dichlorobenzene

Concen: 22.313 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

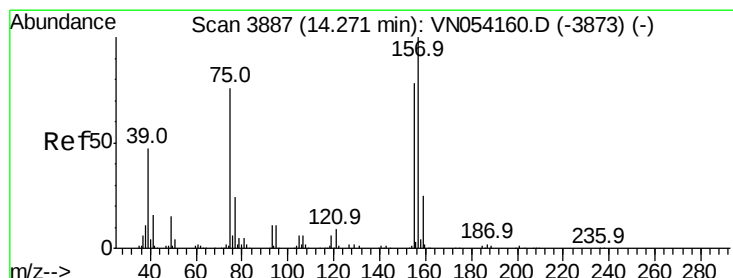
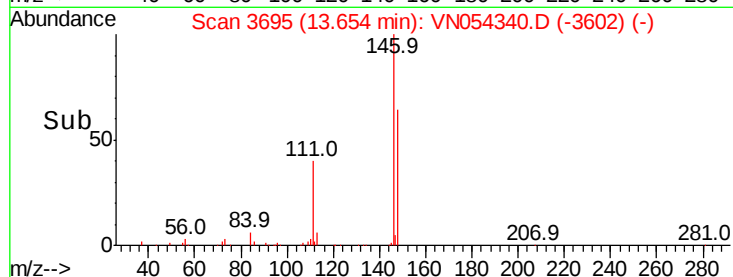
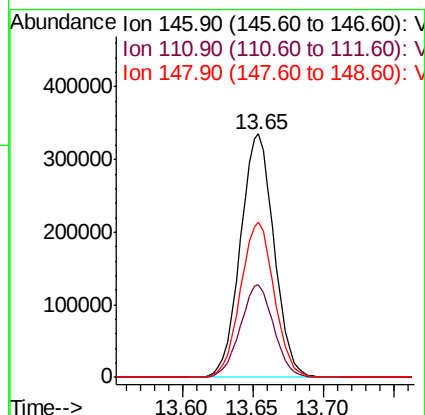
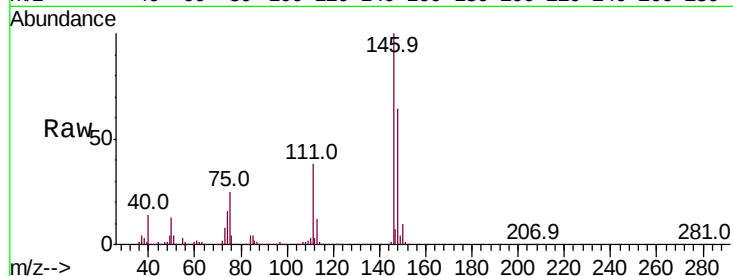
ClientSampled :

VN0316WBS01

Tot Ion:	146	Resp:	559076
Ion Ratio	Lower	Upper	
146	100		
111	37.9	19.1	57.3
148	63.9	32.4	97.0

Manual Integrations
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3/18/2019 11:30:45 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.020 ug/l

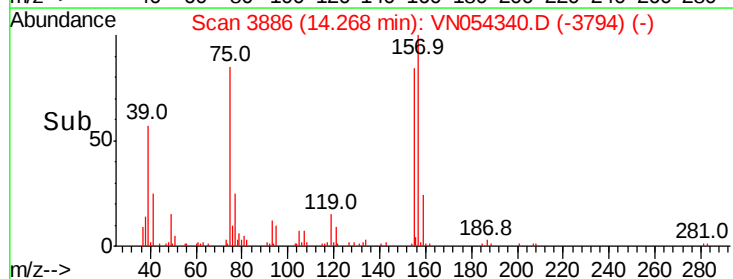
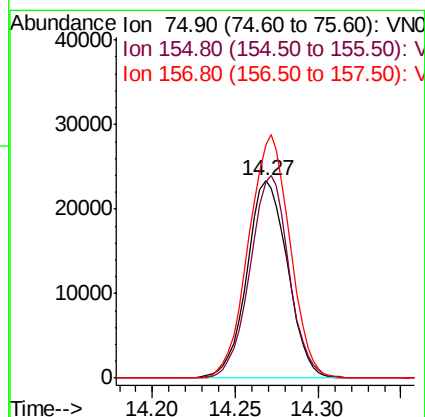
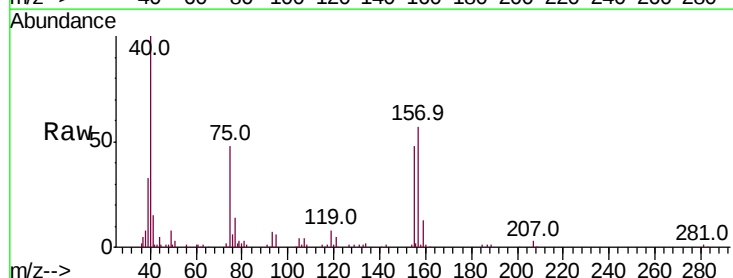
RT: 14.27 min Scan# 3886

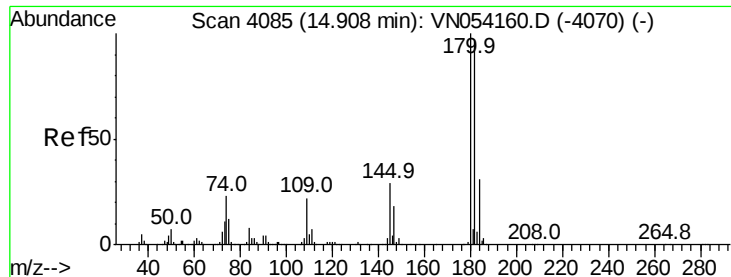
Delta R.T. -0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Tgt Ion:	75	Resp:	39836
Ion Ratio	Lower	Upper	
75	100		
155	98.8	50.1	150.3
157	125.5	63.1	189.3





#93

1,2,4-Trichlorobenzene

Concen: 17.370 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054340.D

Acq: 16 Mar 2019 16:46

Instrument :

MSVOA_N

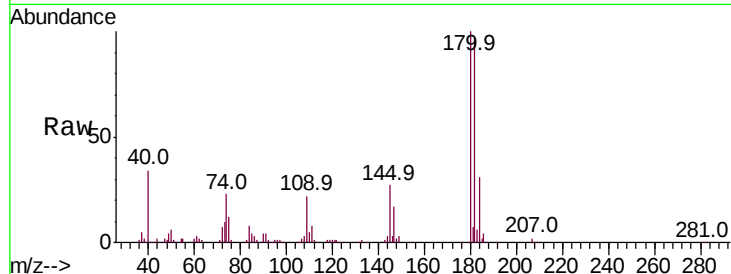
ClientSampleId :

VN0316WBS01

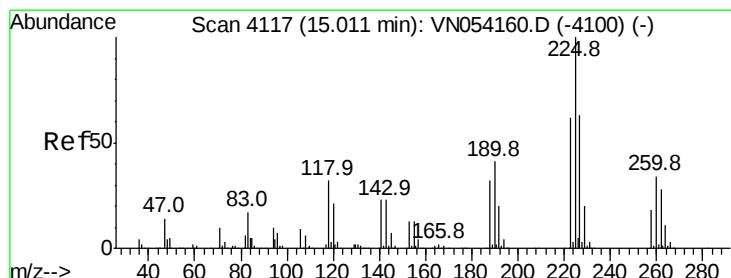
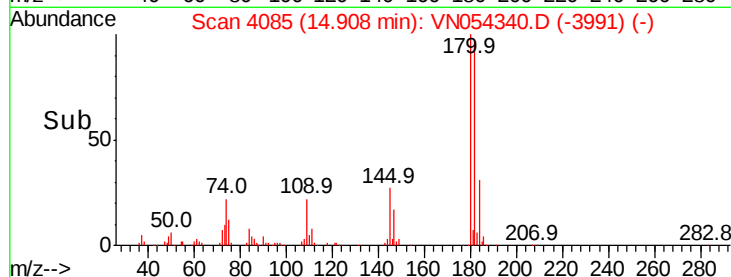
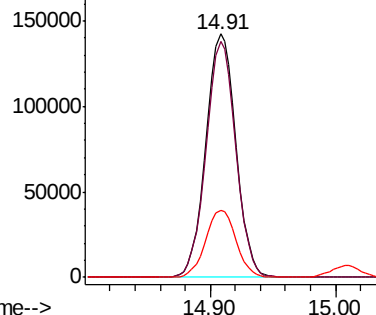
Tot Ion:	180	Resp:	236601
Ion Ratio	Lower	Upper	
180	100		
182	95.8	48.0	144.2
145	27.9	14.2	42.8

Manual Integrations
APPROVED

MMDadoda
3/18/2019 11:30:45 AM



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: 17.169 ug/l

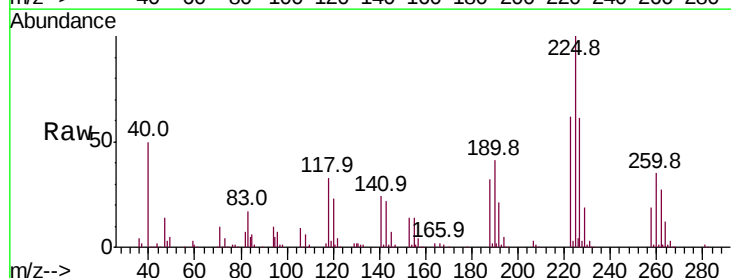
RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

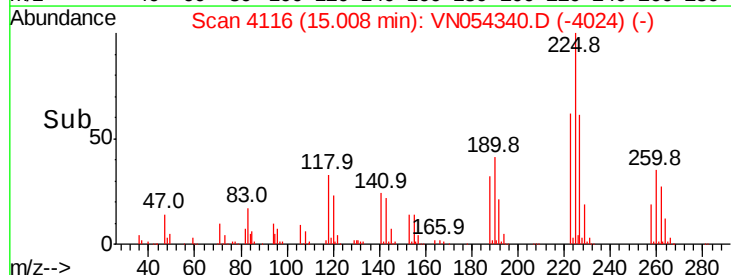
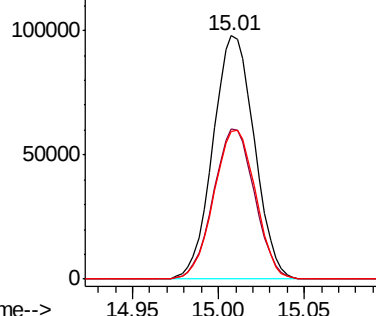
Lab File: VN054340.D

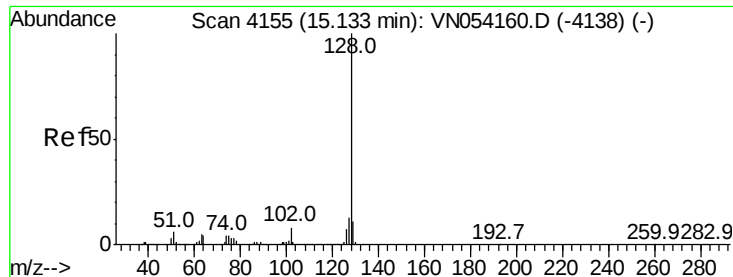
Acq: 16 Mar 2019 16:46

Tgt Ion:	225	Resp:	163860
Ion Ratio	Lower	Upper	
225	100		
223	61.6	31.1	93.5
227	61.7	31.9	95.9



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





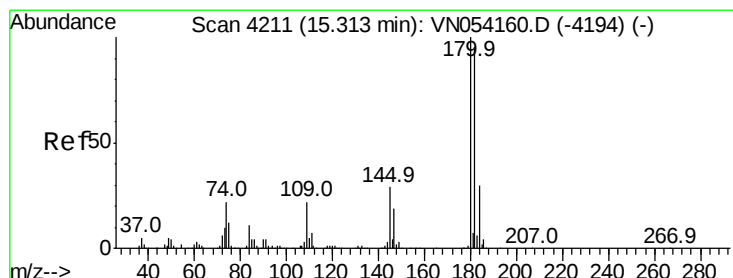
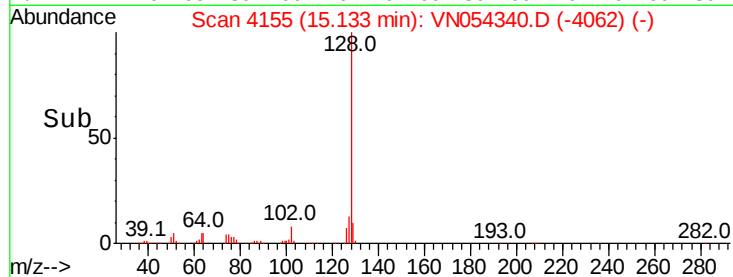
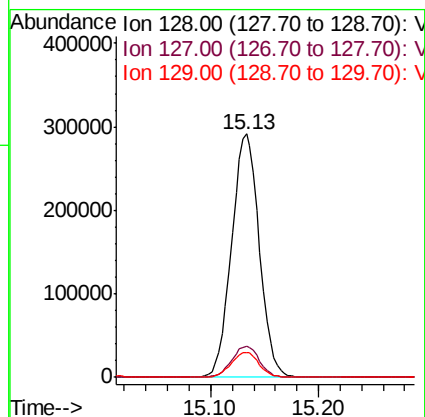
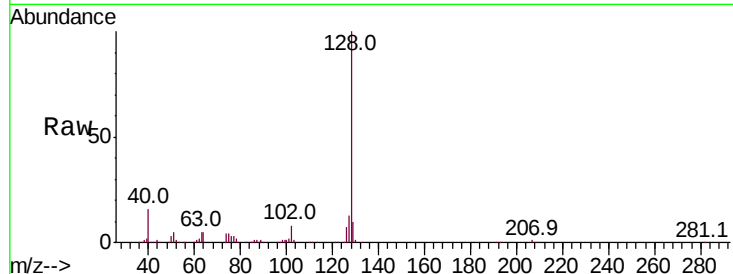
#95
Naphthalene
Concen: 18.822 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100			
127	12.7	10.1	15.1	
129	10.5	8.7	13.1	

Manual Integrations
APPROVED

MMDadoda
3/18/2019 11:30:45 AM



#96
1,2,3-Trichlorobenzene
Concen: 18.887 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN054340.D
Acq: 16 Mar 2019 16:46

Tgt Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.3	47.5	142.6	
145	30.0	14.8	44.3	

