

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055736.D
 Acq On : 22 May 2019 23:12
 Operator : JC/SP
 Sample : VN0522WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0522WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 12:30:00 PM

Quant Time: May 23 06:48:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	57833	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	314509	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	271268	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	113402	30.00	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.00%
60) 4-Bromofluorobenzene	12.40	95	124070	29.40	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.00%
63) Toluene-d8	10.09	98	377381	30.44	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	47702	18.812	ug/l 98
3) Chloromethane	2.06	50	71192	19.738	ug/l 97
4) Vinyl Chloride	2.19	62	74591	20.263	ug/l 100
5) Bromomethane	2.54	94	46874	21.749	ug/l 99
6) Chloroethane	2.69	64	46106	21.440	ug/l 96
7) Trichlorofluoromethane	3.01	101	93974	20.348	ug/l 99
8) Diethyl Ether	3.40	74	42869	21.116	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	57621	19.746	ug/l 99
10) 1,1-Dichloroethene	3.72	96	62410	20.445	ug/l 97
11) Methyl Iodide	3.94	142	84187	19.332	ug/l 99
12) Methyl Acetate	4.33	43	72716	19.477	ug/l 100
13) Acrolein	3.60	56	46901	90.411	ug/l 100
14) Acrylonitrile	4.99	53	170436	100.132	ug/l 99
15) Acetone	3.82	58	46247	87.486	ug/l 95
16) Carbon Disulfide	4.04	76	176467	20.163	ug/l 98
17) Allyl chloride	4.31	41	107064	19.474	ug/l 99
18) Methylene Chloride	4.55	84	71019	20.314	ug/l 98
19) trans-1,2-Dichloroethene	5.03	96	66336	20.201	ug/l 99
20) Diisopropyl ether	5.96	45	214053	20.070	ug/l 97
21) 1,1-Dichloroethane	5.84	63	120902	20.058	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	77948	20.353	ug/l 96
23) tert-Butyl Alcohol	4.81	59	72053	96.388	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	210881	20.360	ug/l 99
25) Chloroform	7.37	83	124223	20.866	ug/l 99
26) Cyclohexane	7.65	56	108741	19.555	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	88665	20.138	ug/l 99
30) 2-Butanone	6.84	43	222889	94.978	ug/l 99
31) 2,2-Dichloropropane	6.82	77	90242	17.613	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	108329	20.758	ug/l 99
33) Carbon Tetrachloride	7.77	117	96021	20.569	ug/l 99
34) Benzene	8.04	78	280848	20.661	ug/l 99
35) Methacrylonitrile	7.18	41	46071	21.270	ug/l 90
36) 1,2-Dichloroethane	8.12	62	90970	20.479	ug/l 100
37) Trichloroethene	8.83	130	76430	20.152	ug/l 99
38) Methylcyclohexane	9.08	83	105560	18.923	ug/l 99
39) 1,2-Dichloropropane	9.12	63	72265	19.776	ug/l 95
40) Dibromomethane	9.21	93	49219	20.859	ug/l 95

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 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
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 VN0522WBSD01

Manual Integrations
 APPROVED

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 5/23/2019 12:30:00 PM

Quant Time: May 23 06:48:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	99113	20.494	ug/l	98
42) Vinyl Acetate	5.90	43	915298	100.457	ug/l	99
43) Ethyl Acetate	6.93	43	90994	19.726	ug/l #	100
44) Isopropyl Acetate	8.17	43	150266	19.672	ug/l #	87
45) 1,4-Dioxane	9.21	88	28441	395.781	ug/l	97
46) Methyl methacrylate	9.20	41	69616	19.534	ug/l	98
47) n-amyl Acetate	12.07	43	119969	18.989	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	103034	19.301	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	114546	19.603	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	70139	20.418	ug/l	98
51) Ethyl methacrylate	10.43	69	110747	20.002	ug/l	100
52) 1,3-Dichloropropane	10.71	76	113076	19.970	ug/l	99
53) Dibromochloromethane	10.90	129	81620	20.113	ug/l	98
54) 1,2-Dibromoethane	11.01	107	72852	20.495	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	201277	93.429	ug/l	99
56) Bromoform	12.13	173	63419	19.052	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	455231	101.371	ug/l	99
59) 2-Hexanone	10.75	43	312982	97.488	ug/l	99
61) Tetrachloroethene	10.63	164	76306	20.780	ug/l	96
62) Toluene	10.16	91	305410	20.936	ug/l	99
64) Chlorobenzene	11.43	112	182644	20.640	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	74399	20.867	ug/l	99
66) Ethyl Benzene	11.51	91	326074	20.458	ug/l	100
67) m/p-Xylenes	11.62	106	248104	40.977	ug/l	99
68) o-Xylene	11.95	106	124343	20.753	ug/l	98
69) Styrene	11.96	104	199770	20.209	ug/l	99
70) Isopropylbenzene	12.25	105	321801	20.527	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	98014	20.316	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	88602m	21.338	ug/l	
73) Bromobenzene	12.53	156	81261	19.594	ug/l	98
74) n-propylbenzene	12.59	91	334102	19.761	ug/l	100
75) 2-Chlorotoluene	12.68	91	208958	20.232	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	260741	20.122	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	29370	17.807	ug/l	97
78) 4-Chlorotoluene	12.77	91	193152	19.733	ug/l	99
79) tert-butylbenzene	12.99	119	234735	20.605	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	258011	20.058	ug/l	98
81) sec-Butylbenzene	13.17	105	287880	19.889	ug/l	100
82) p-Isopropyltoluene	13.29	119	263341	19.769	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	124611	19.167	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	117142	18.920	ug/l	98
85) n-Butylbenzene	13.61	91	194525	18.771	ug/l	99
86) Hexachloroethane	13.87	117	52365	19.986	ug/l	93
87) 1,2-Dichlorobenzene	13.65	146	128719	19.662	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	17527	19.168	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	57663	16.318	ug/l	99
90) Hexachlorobutadiene	15.01	225	45986	17.441	ug/l	99
91) Naphthalene	15.13	128	165820	17.174	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	62555	16.938	ug/l	97

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Manual Integrations
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 23 05:54:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

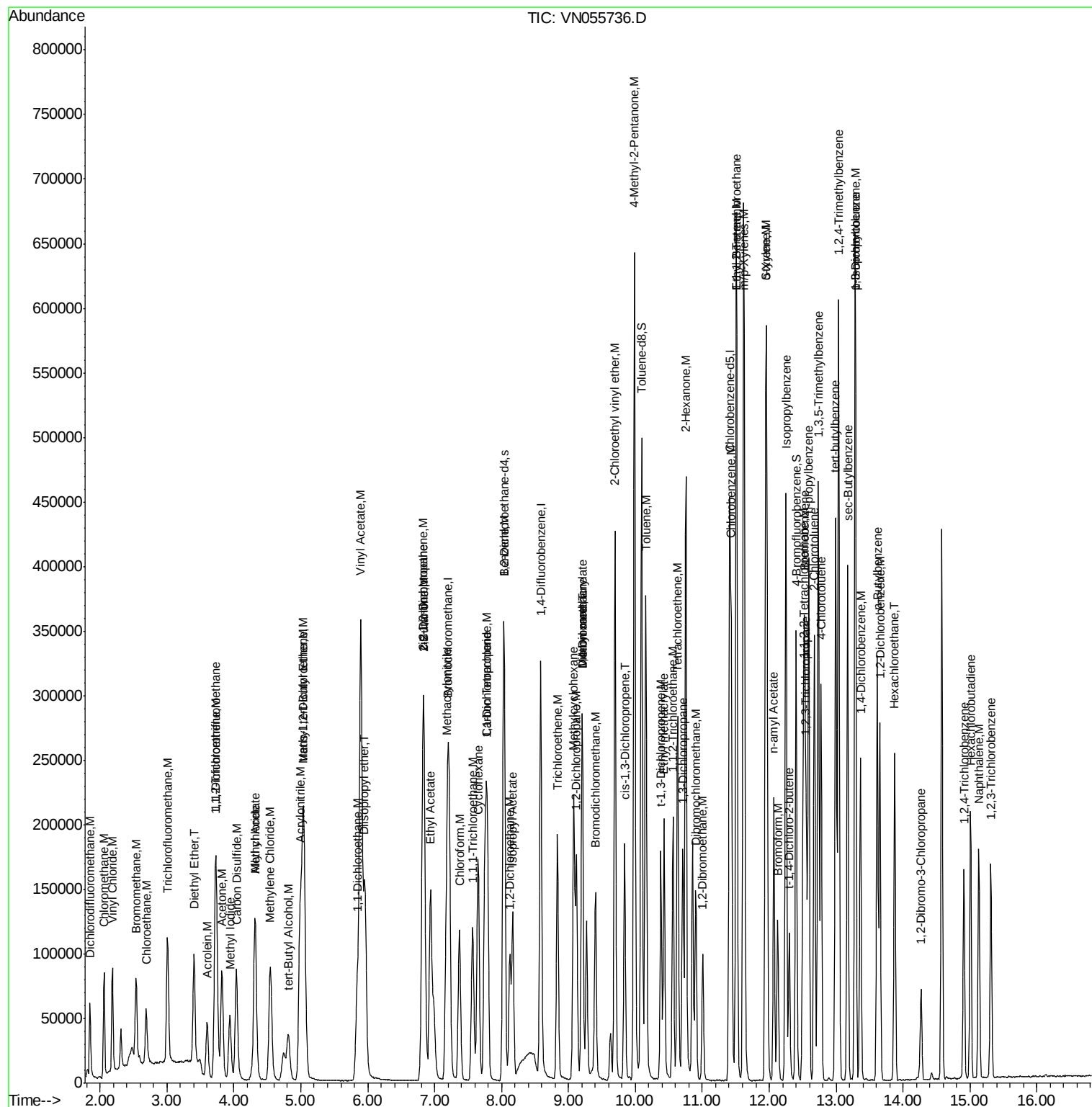
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Data File : VN055736.D
Acq On : 22 May 2019 23:12
Operator : JC/SP
Sample : VN0522WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 18 Sample Multiplier: 1

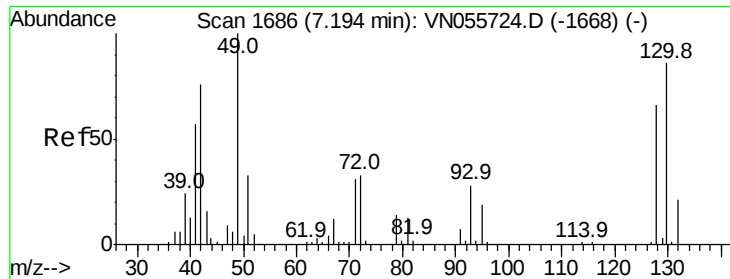
Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Manual Integrations
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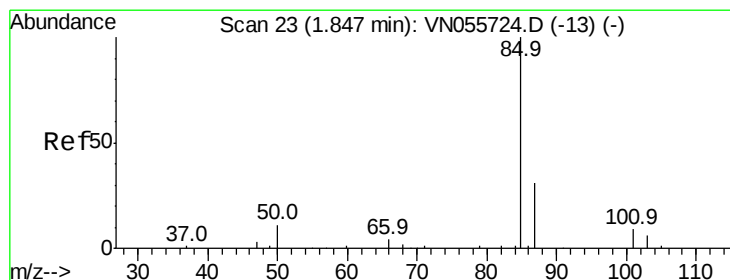
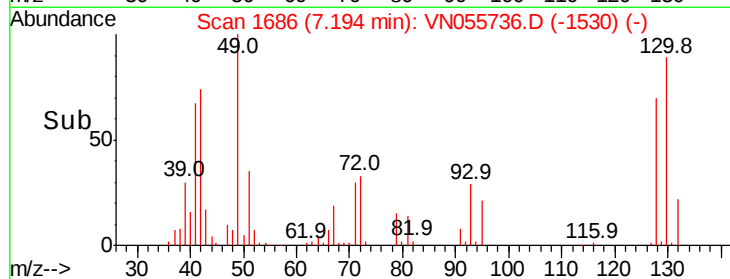
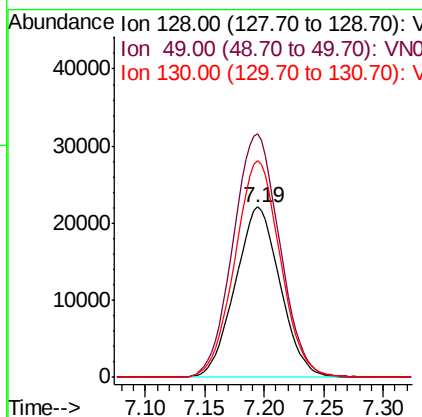
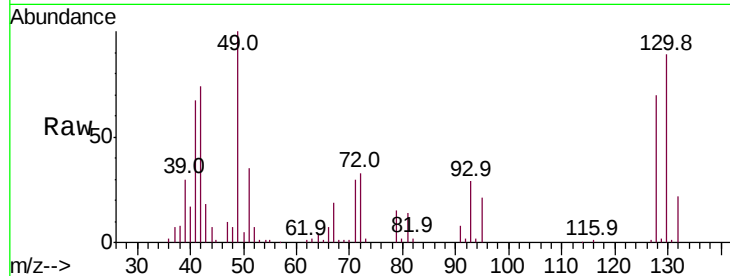
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0522WBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
49	148.2	0.0	383.2
130	128.6	0.0	326.3

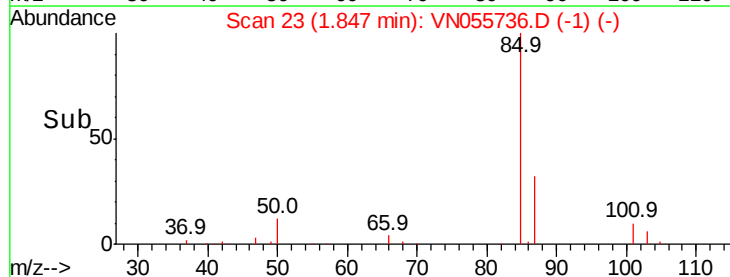
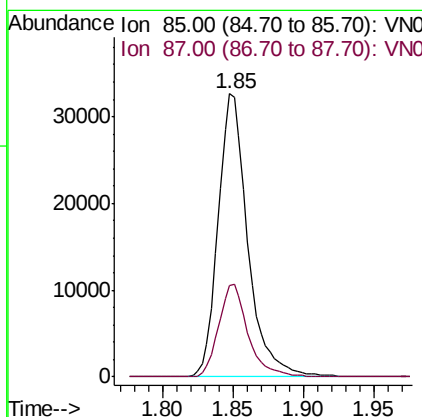
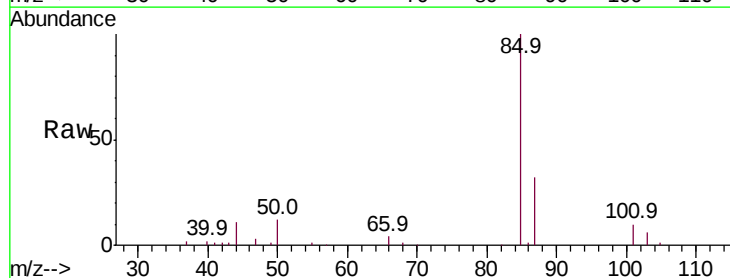
Manual Integrations
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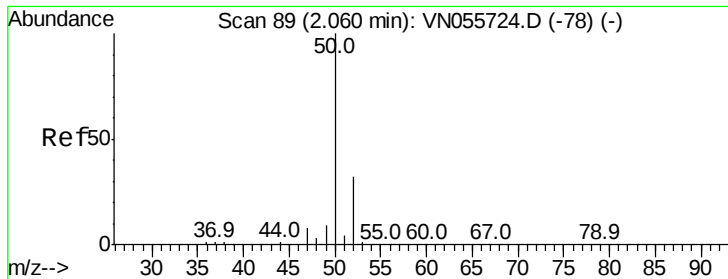
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 5/23/2019 12:30:00 PM



#2
 Dichlorodifluoromethane
 Concen: 18.812 ug/l
 RT: 1.85 min Scan# 23
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.5	15.7	47.0





#3

Chloromethane

Concen: 19.738 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0522WBSD01

Tot Ion: 50 Resp: 71192

Ion Ratio Lower Upper

50 100

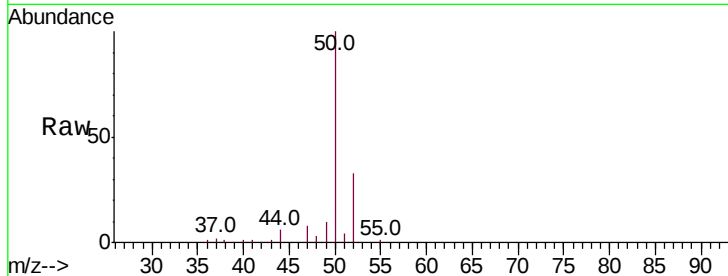
52 33.5 25.4 38.2

Manual Integrations

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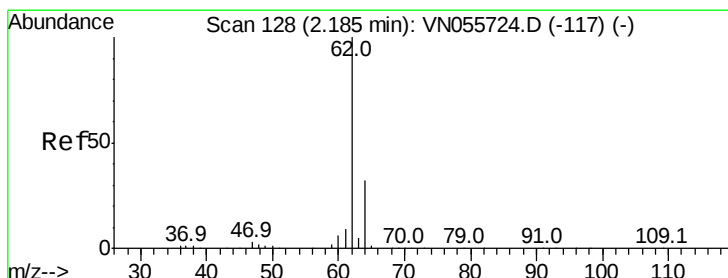
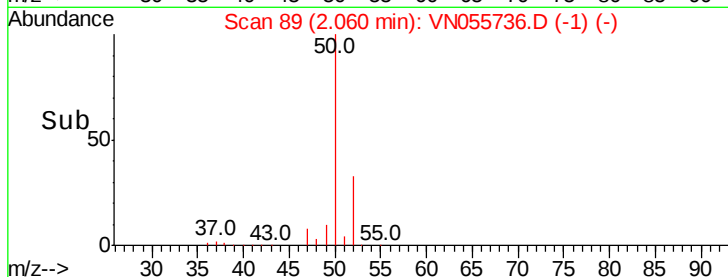
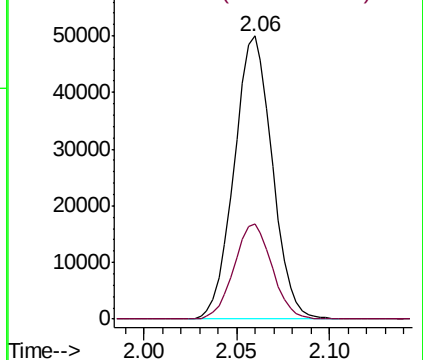
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Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 20.263 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN055736.D

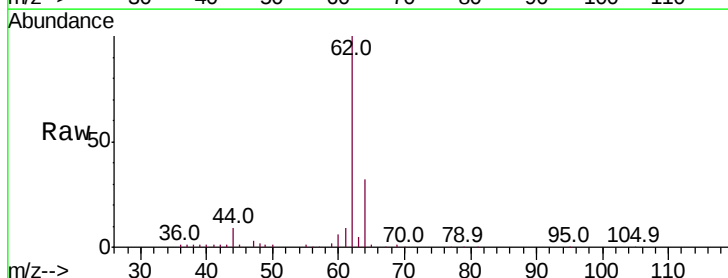
Acq: 22 May 2019 23:12

Tgt Ion: 62 Resp: 74591

Ion Ratio Lower Upper

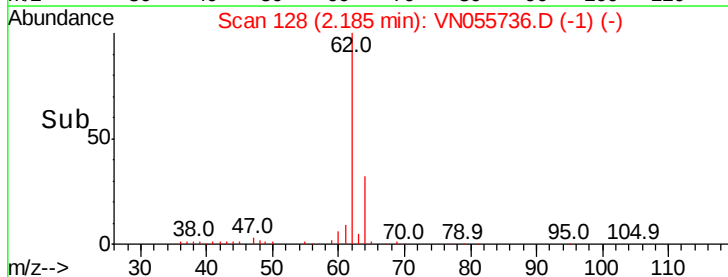
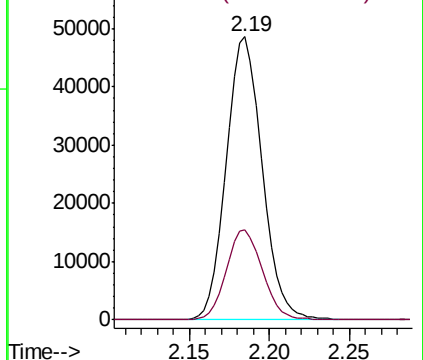
62 100

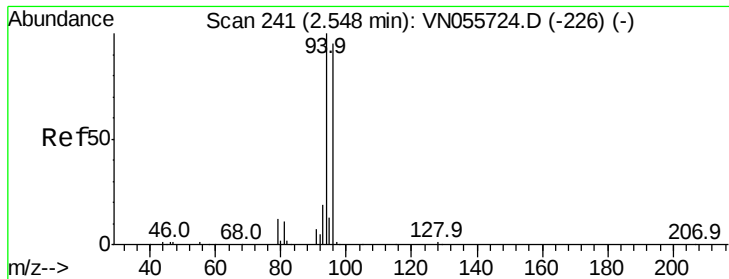
64 31.9 25.7 38.5



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 21.749 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.01 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0522WBSD01

Tot Ion: 94 Resp: 46874

Ion Ratio Lower Upper

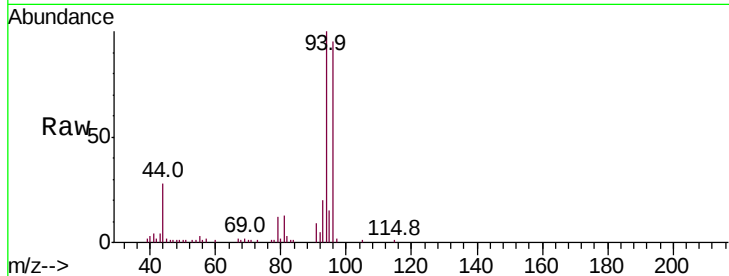
94 100

96 94.2 75.8 113.8

Manual Integrations
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Abundance Ion 94.00 (93.70 to 94.70): VN055724.D (-226) (-)

Ion 96.00 (95.70 to 96.70): VN055724.D (-226) (-)

25000

20000

15000

10000

5000

0

2.45

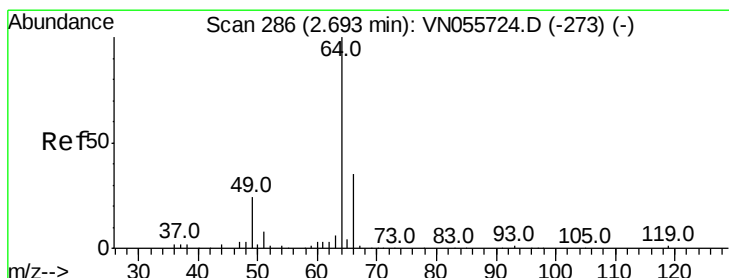
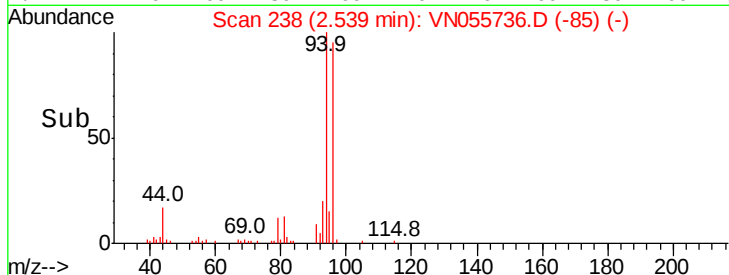
2.50

2.54

2.55

2.60

Time-->



#6

Chloroethane

Concen: 21.440 ug/l

RT: 2.69 min Scan# 285

Delta R.T. -0.00 min

Lab File: VN055736.D

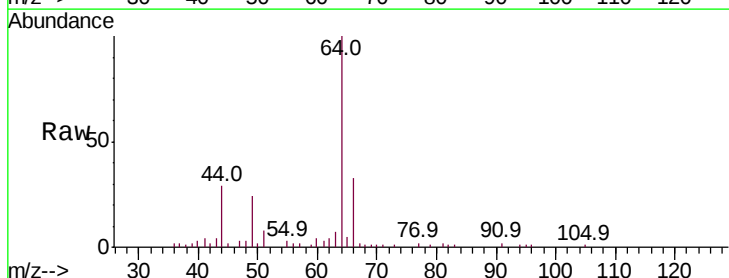
Acq: 22 May 2019 23:12

Tgt Ion: 64 Resp: 46106

Ion Ratio Lower Upper

64 100

66 32.7 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VN055724.D (-273) (-)

Ion 66.00 (65.70 to 66.70): VN055724.D (-273) (-)

25000

20000

15000

10000

5000

0

2.60

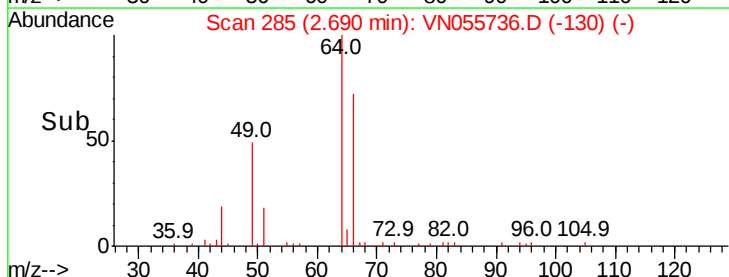
2.65

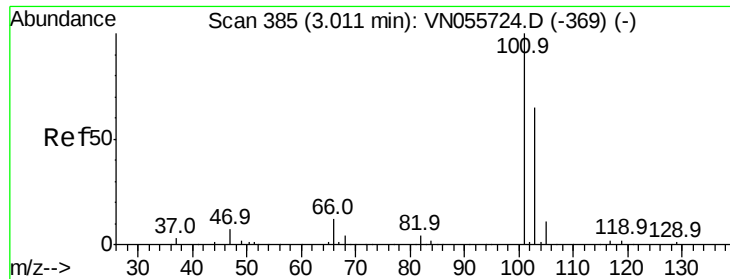
2.69

2.75

2.80

Time-->





#7

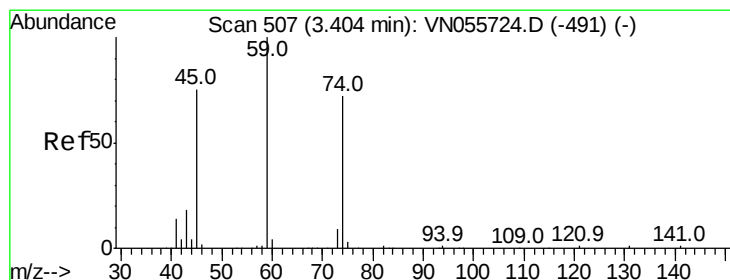
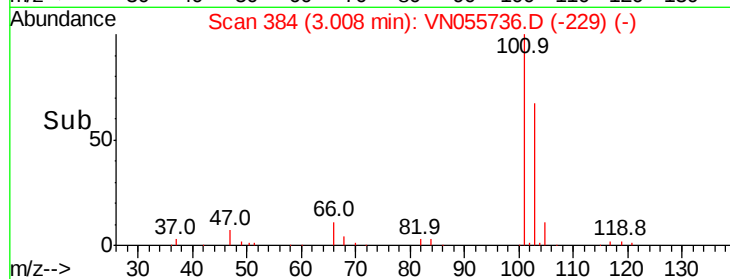
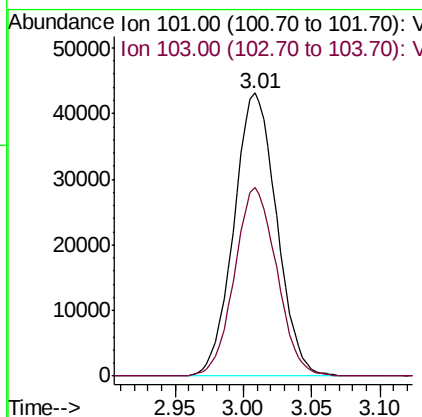
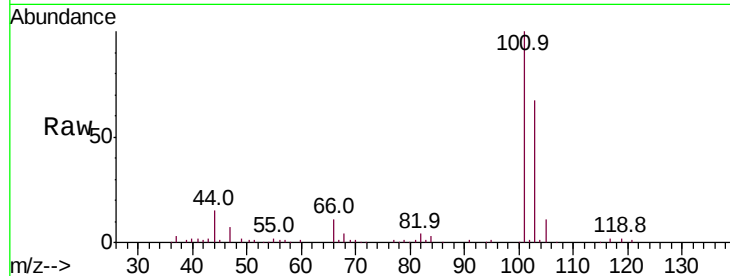
Trichlorofluoromethane
 Concen: 20.348 ug/l
 RT: 3.01 min Scan# 384
 Delta R.T. -0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0522WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.6	52.6	78.8

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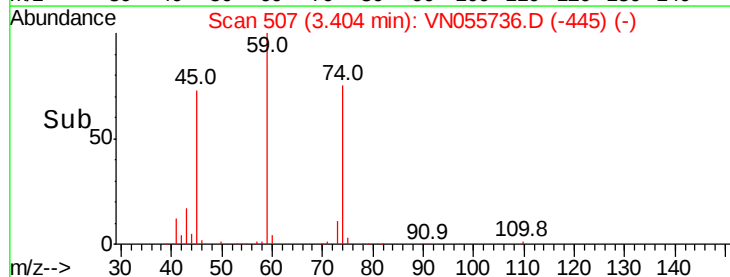
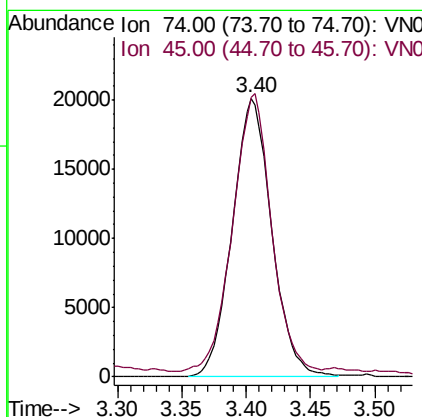
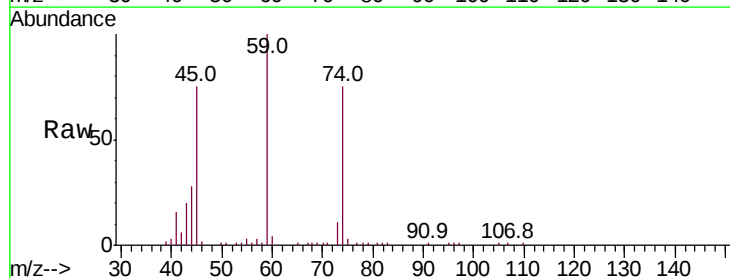
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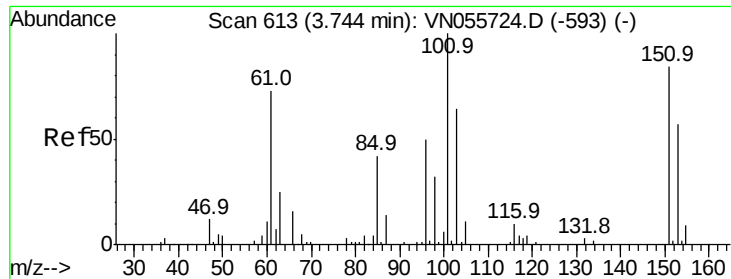


#8

Diethyl Ether
 Concen: 21.116 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.5	20.4	184.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.746 ug/l

RT: 3.74 min Scan# 612

Delta R.T. -0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

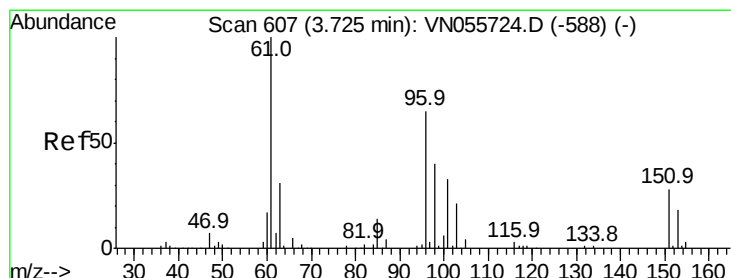
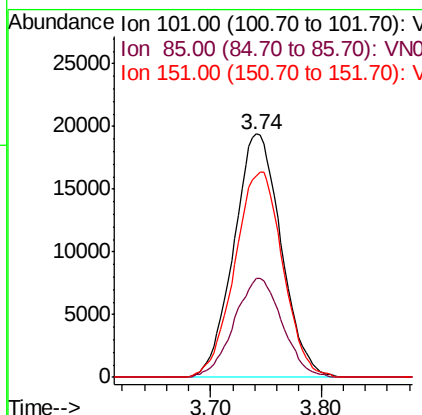
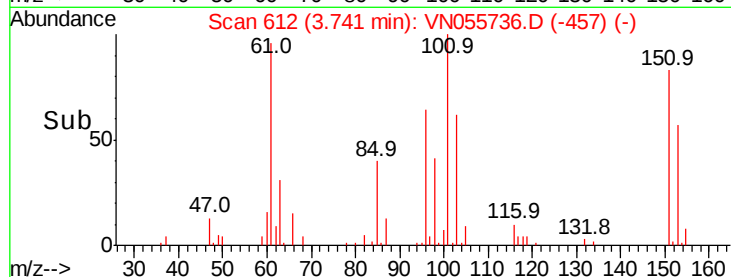
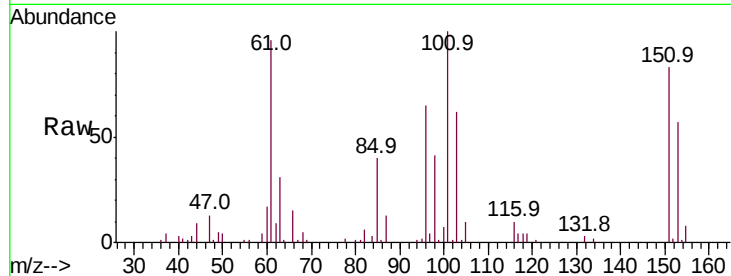
ClientSampleId :

VN0522WBSD01

Tot Ion:	101	Resp:	57621
Ion Ratio	Lower	Upper	
101	100		
85	41.3	0.0	86.6
151	85.9	0.0	172.2

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5/23/2019 12:30:00 PM



#10

1,1-Dichloroethene

Concen: 20.445 ug/l

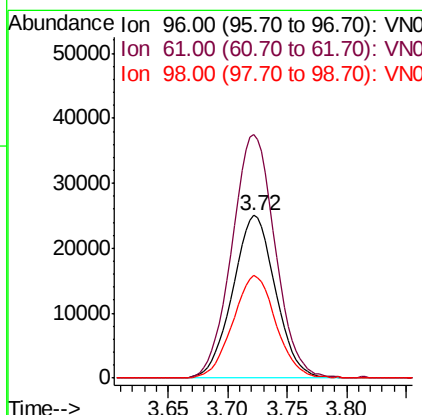
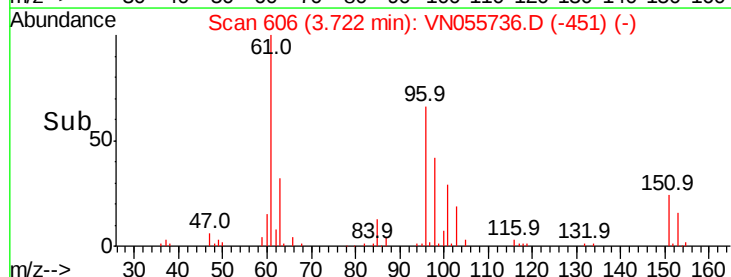
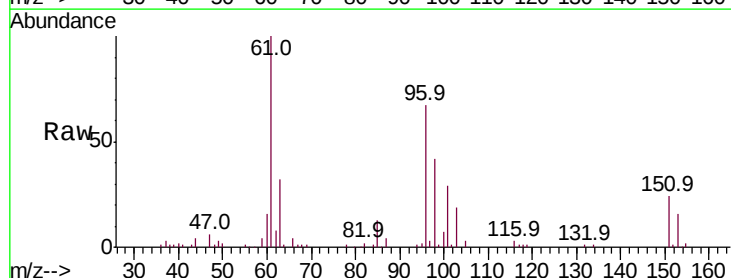
RT: 3.72 min Scan# 606

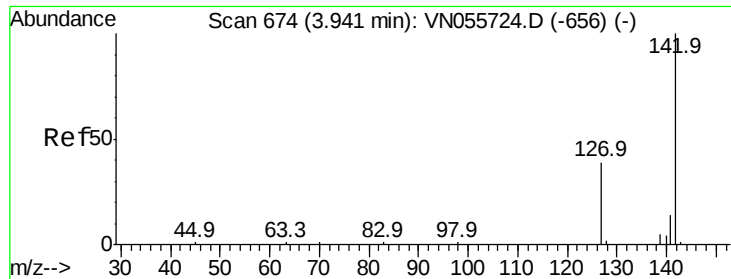
Delta R.T. -0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Tgt Ion:	96	Resp:	62410
Ion Ratio	Lower	Upper	
96	100		
61	148.8	123.7	185.5
98	62.9	50.0	75.0





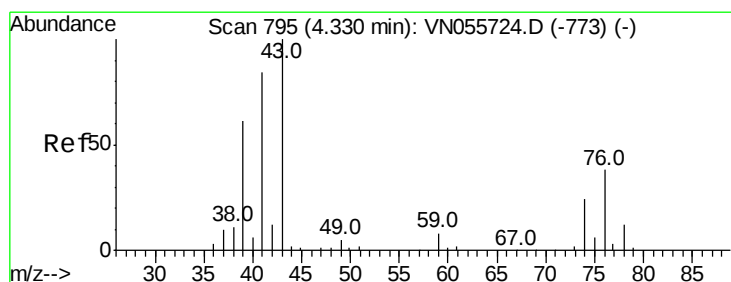
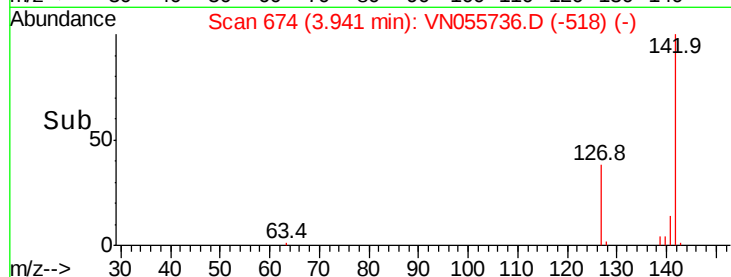
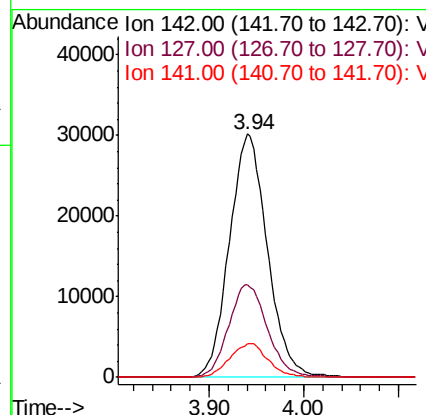
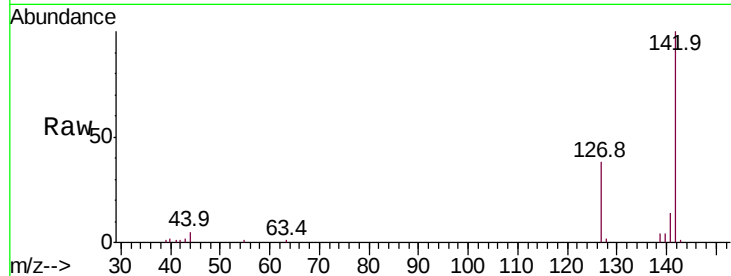
#11
Methyl Iodide
Concen: 19.332 ug/l
RT: 3.94 min Scan# 674
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Tot Ion	Ratio	Lower	Upper
142	100		
127	38.0	19.6	58.7
141	13.7	6.9	20.6

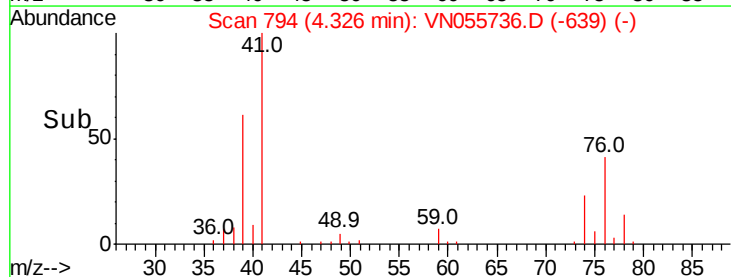
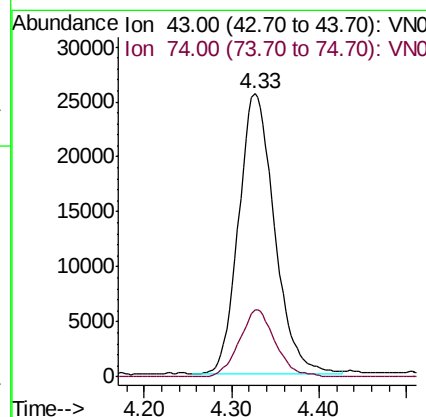
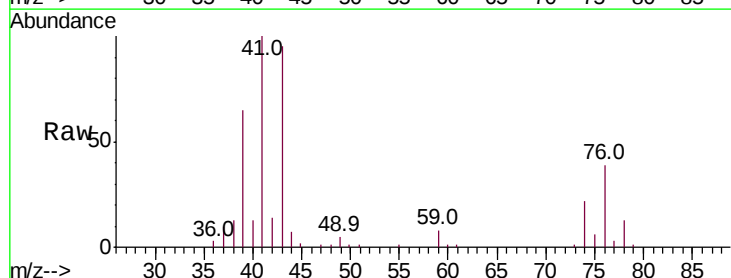
Manual Integrations
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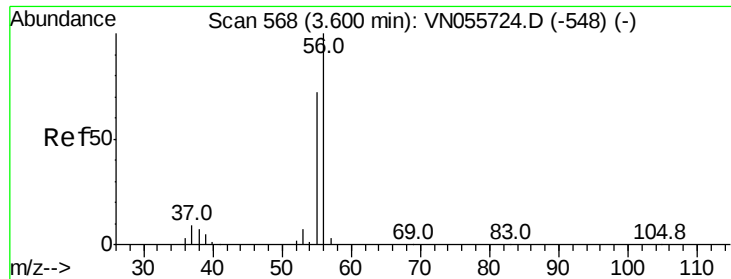
MMDadoda
5/23/2019 12:30:00 PM



#12
Methyl Acetate
Concen: 19.477 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.8	19.2	28.8





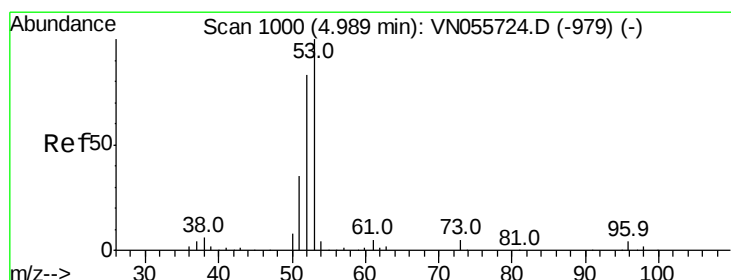
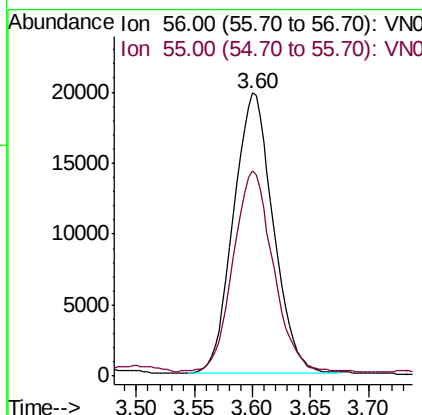
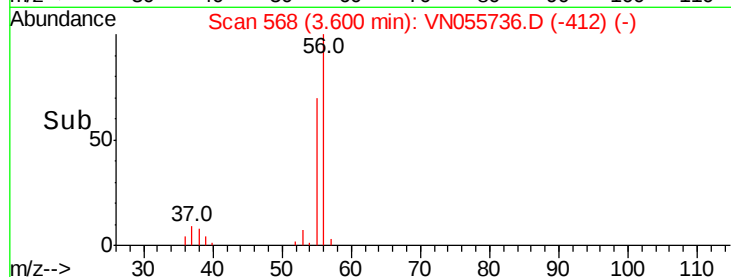
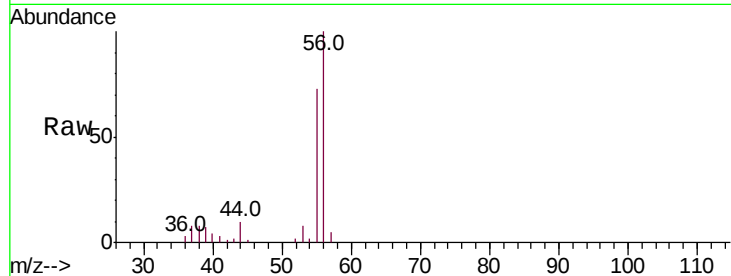
#13
Acrolein
Concen: 90.411 ug/l
RT: 3.60 min Scan# 568
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Tot Ion: 56 Resp: 46901
Ion Ratio Lower Upper
56 100
55 71.2 57.0 85.6

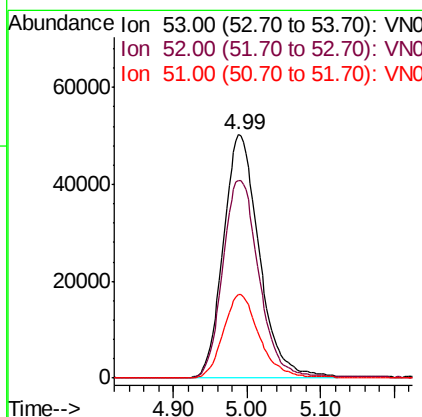
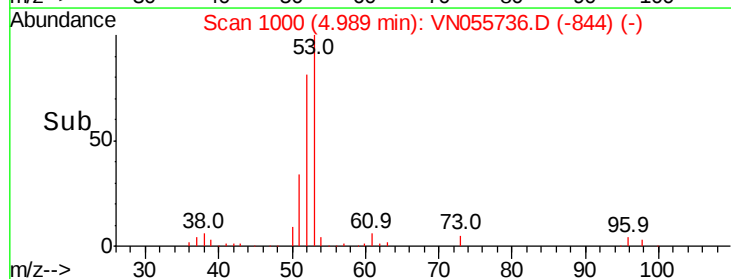
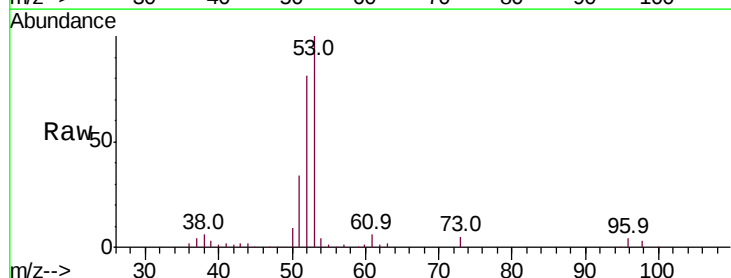
Manual Integrations
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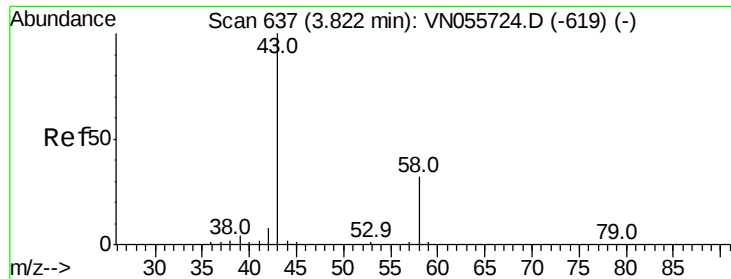
MMDadoda
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#14
Acrylonitrile
Concen: 100.132 ug/l
RT: 4.99 min Scan# 1000
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Tgt Ion: 53 Resp: 170436
Ion Ratio Lower Upper
53 100
52 81.7 41.1 123.4
51 34.6 17.5 52.6





#15

Acetone

Concen: 87.486 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0522WBSD01

Tot Ion: 58 Resp: 46247

Ion Ratio Lower Upper

58 100

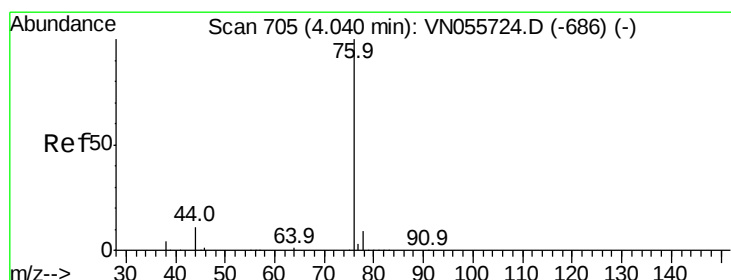
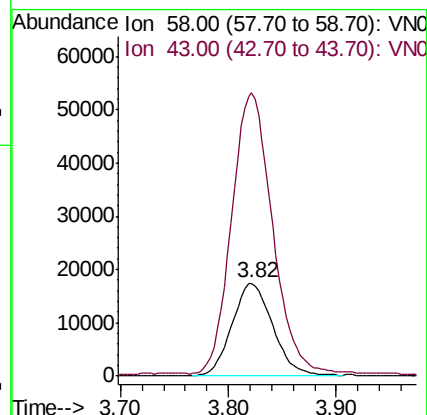
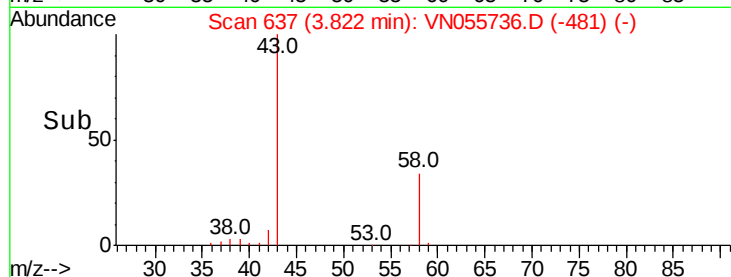
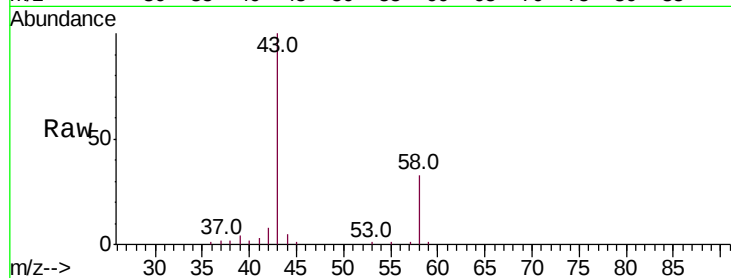
43 301.0 248.8 373.2

Manual Integrations

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#16

Carbon Disulfide

Concen: 20.163 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN055736.D

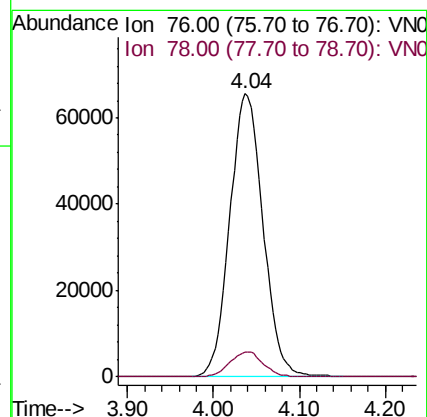
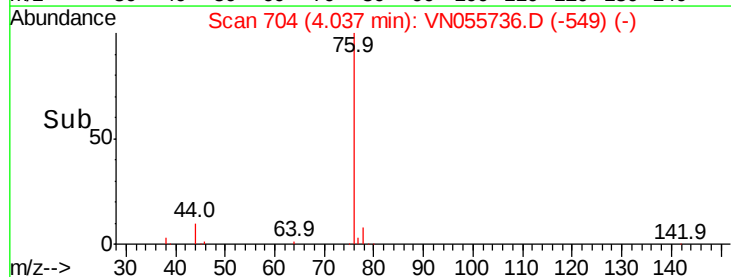
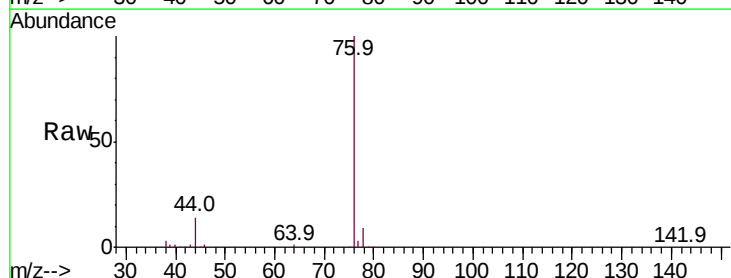
Acq: 22 May 2019 23:12

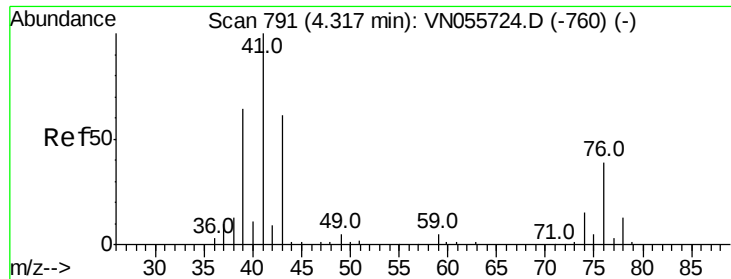
Tgt Ion: 76 Resp: 176467

Ion Ratio Lower Upper

76 100

78 8.6 7.4 11.0





#17

Allvl chloride

Concen: 19.474 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

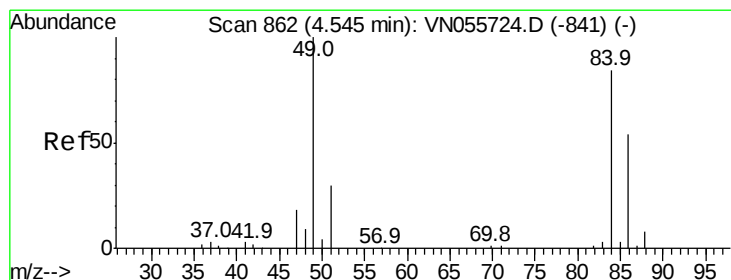
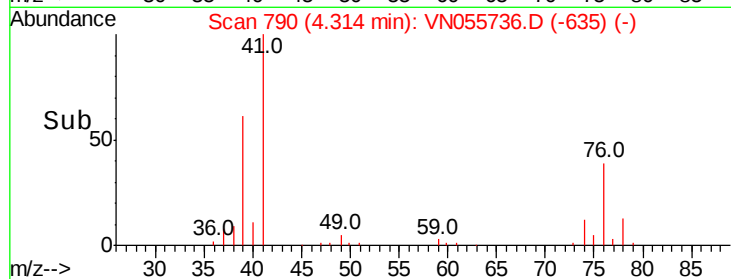
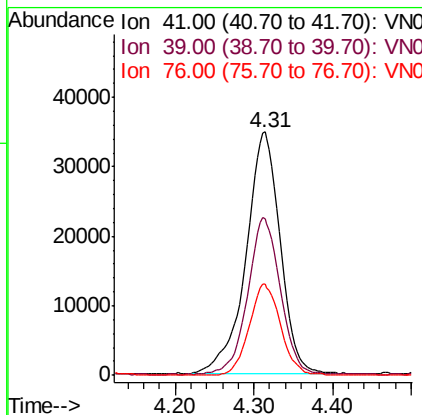
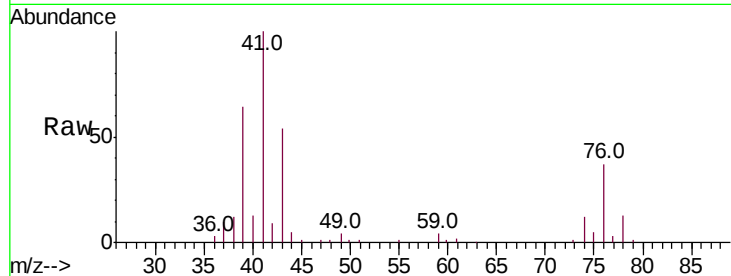
ClientSampleId :

VN0522WBSD01

Tot Ion:	41	Resp:	107064
Ion Ratio	Lower	Upper	
41	100		
39	64.0	31.8	95.3
76	37.5	19.3	57.9

Manual Integrations
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#18

Methylene Chloride

Concen: 20.314 ug/l

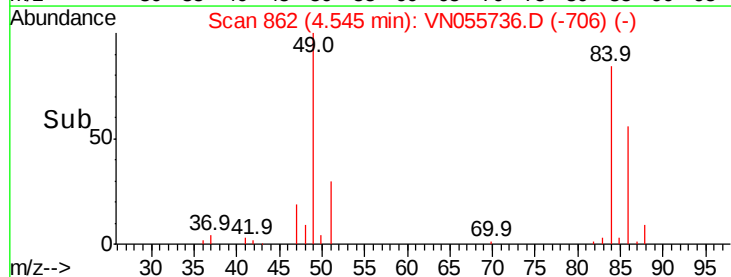
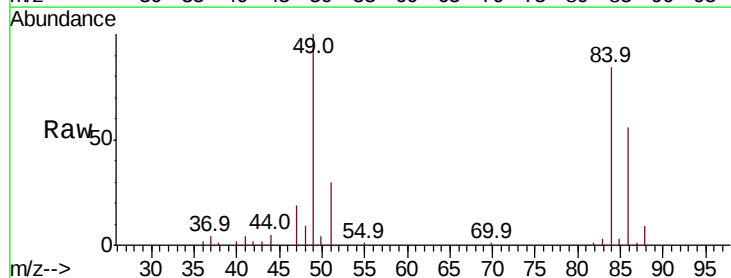
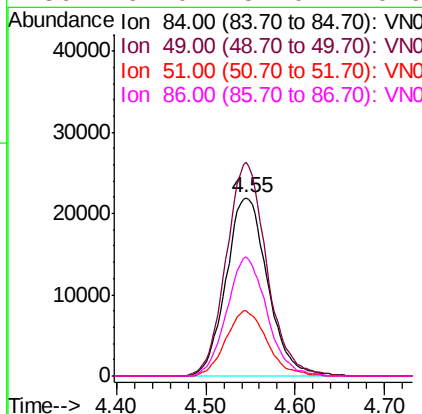
RT: 4.55 min Scan# 862

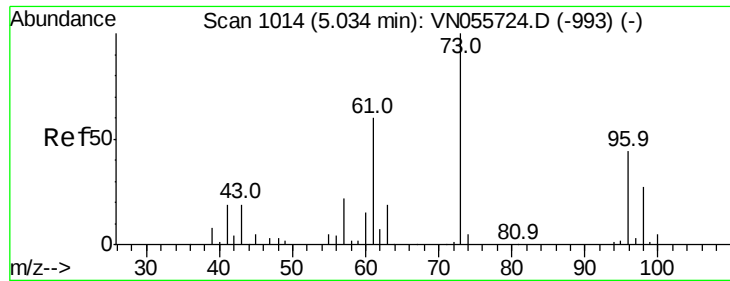
Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Tgt Ion:	84	Resp:	71019
Ion Ratio	Lower	Upper	
84	100		
49	118.9	94.7	142.1
51	36.3	28.6	43.0
86	67.0	51.0	76.6





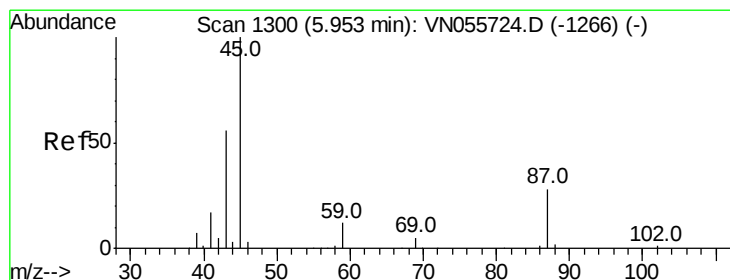
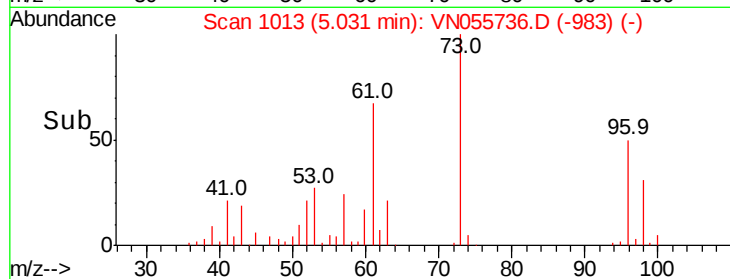
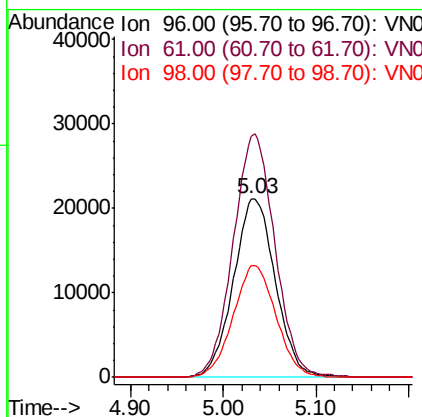
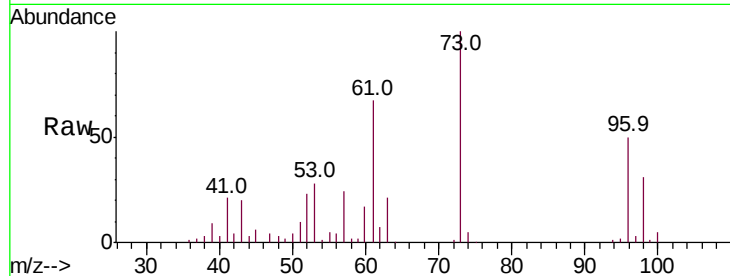
#19
trans-1,2-Dichloroethene
Concen: 20.201 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.1	108.5	162.7
98	62.7	49.4	74.2

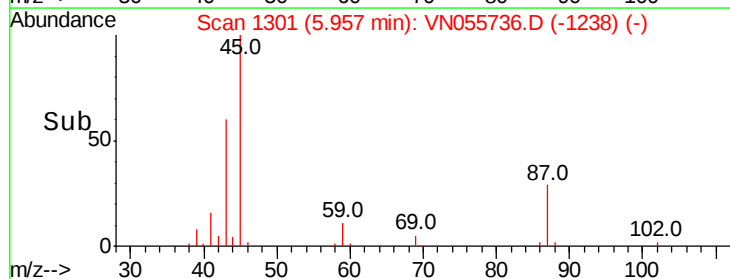
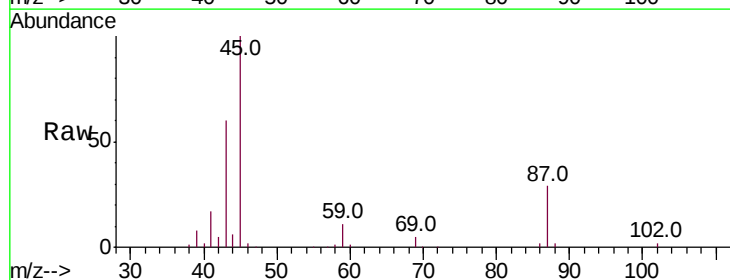
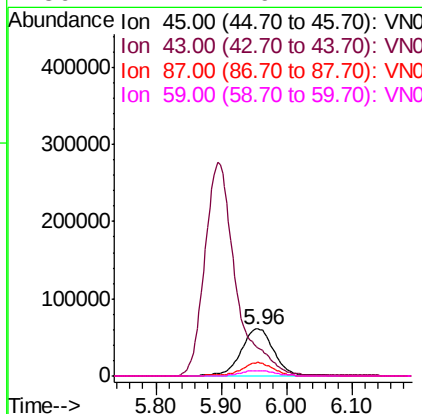
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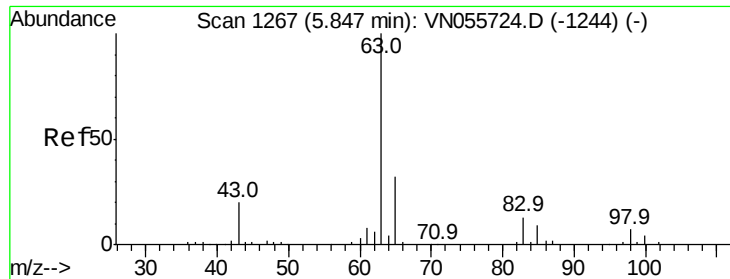
MMDadoda
5/23/2019 12:30:00 PM



#20
Diisopropyl ether
Concen: 20.070 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.7	48.6	73.0
87	28.6	22.6	34.0
59	11.4	9.4	14.2





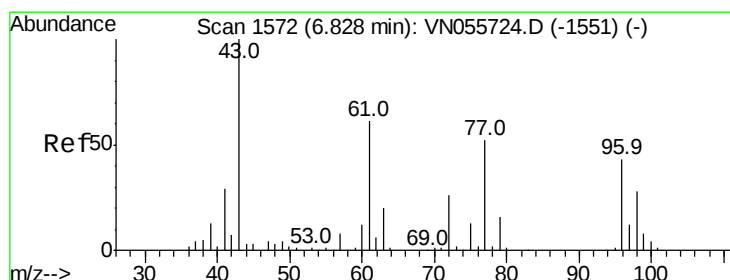
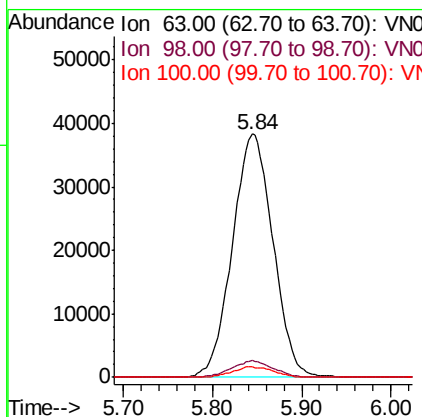
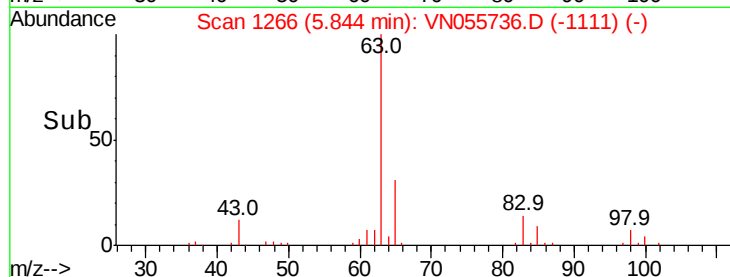
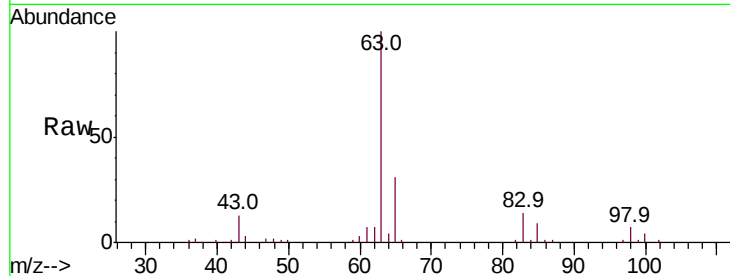
#21
 1,1-Dichloroethane
 Concen: 20.058 ug/l
 RT: 5.84 min Scan# 1266
 Delta R.T. -0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0522WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
63	100			
98	6.9	3.4	10.2	
100	4.2	2.2	6.6	

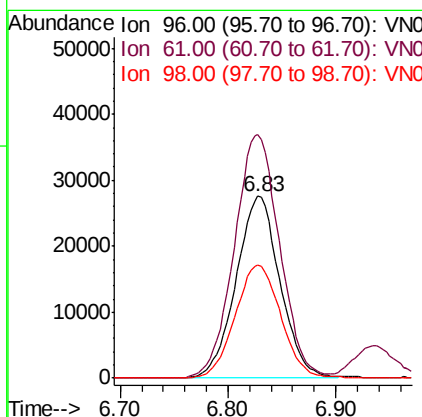
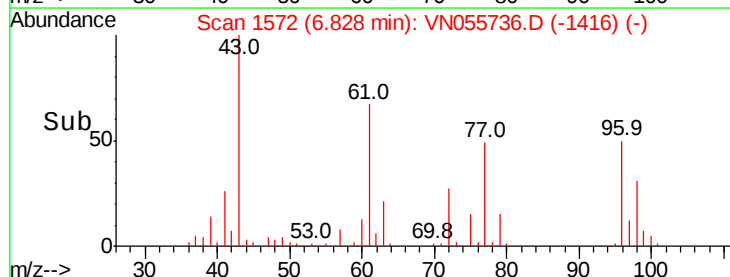
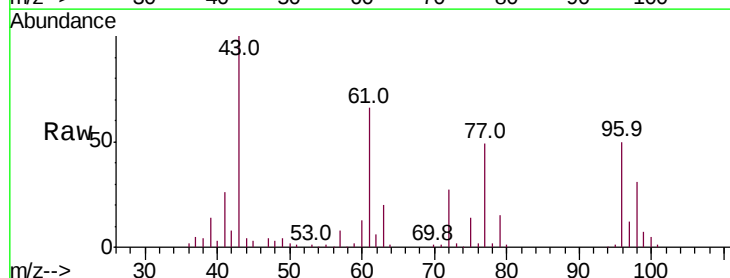
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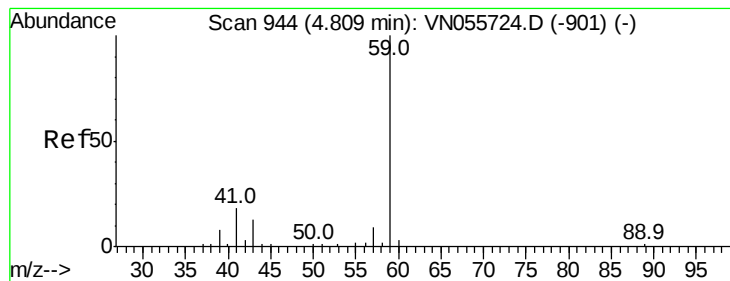
MMDadoda
 5/23/2019 12:30:00 PM



#22
 cis-1,2-Dichloroethene
 Concen: 20.353 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	138.4	115.7	173.5	
98	64.6	51.5	77.3	





#23

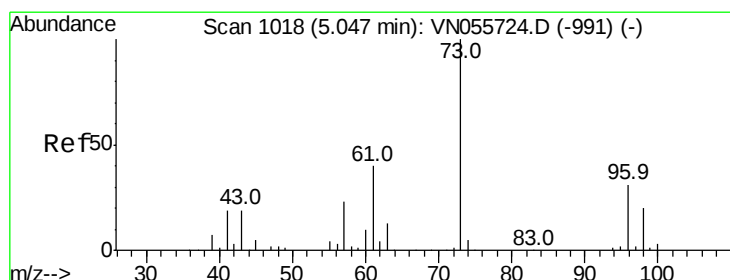
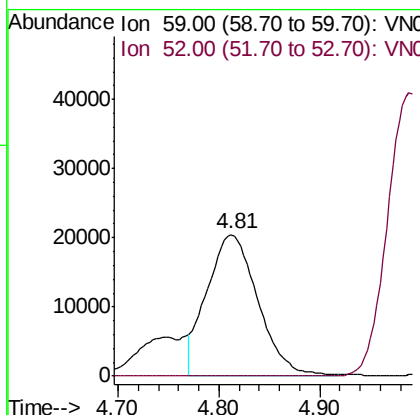
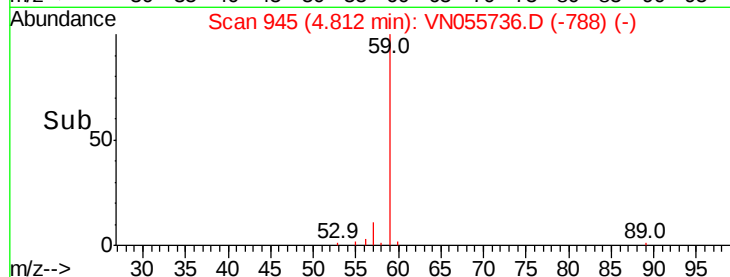
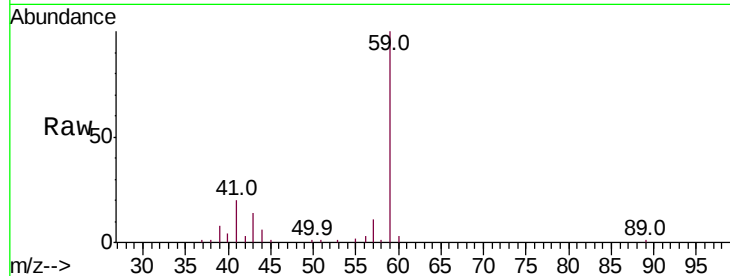
tert-Butyl Alcohol
 Concen: 96.388 ug/l
 RT: 4.81 min Scan# 945
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0522WBSD01

Tot Ion	59	Ratio	Lower	Upper
59	100			
52	0.0	0.0	0.0	0.0

Manual Integrations
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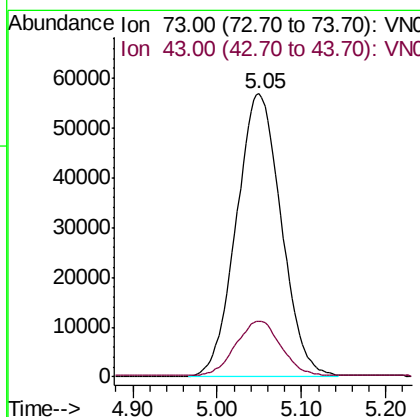
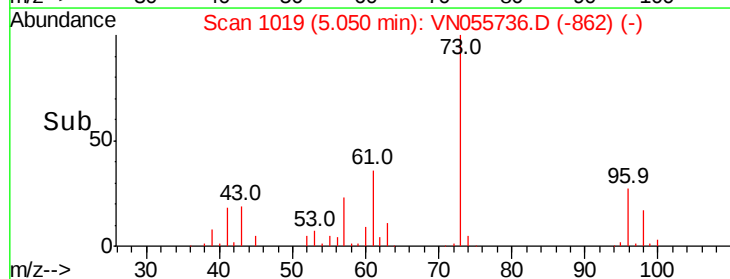
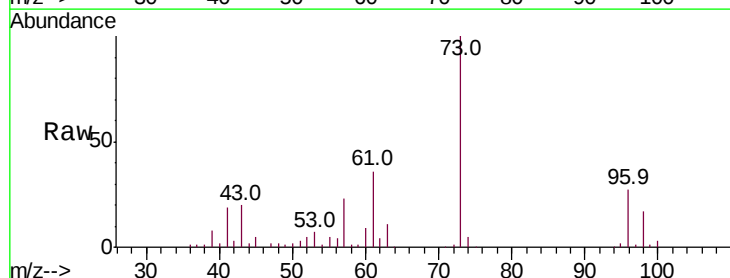
MMDadoda
 5/23/2019 12:30:00 PM

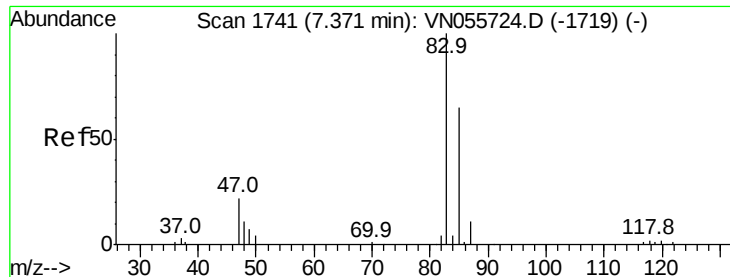


#24

Methyl tert-Butyl Ether
 Concen: 20.360 ug/l
 RT: 5.05 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Tgt Ion	73	Ratio	Lower	Upper
73	100			
43	19.2	15.7	23.5	





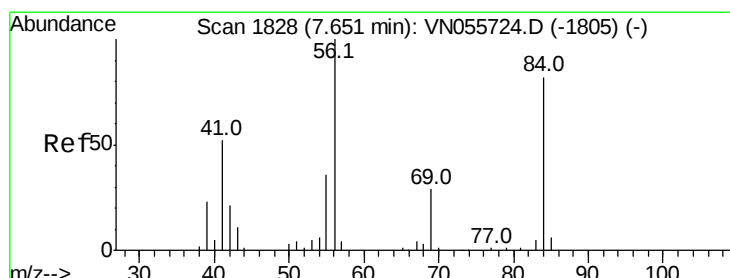
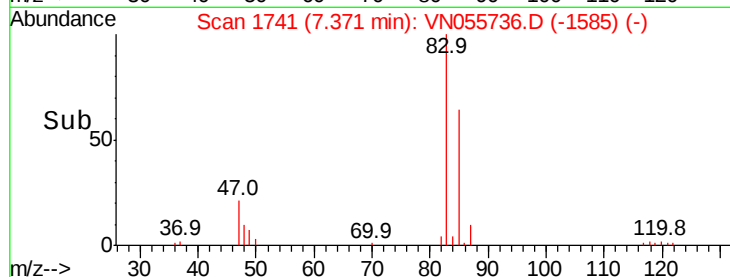
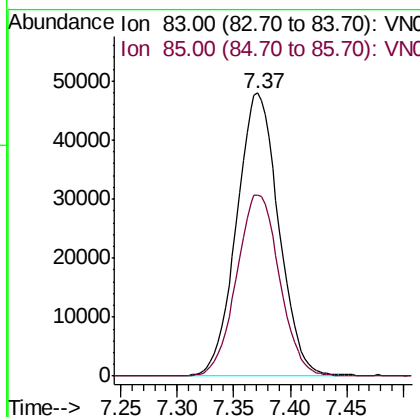
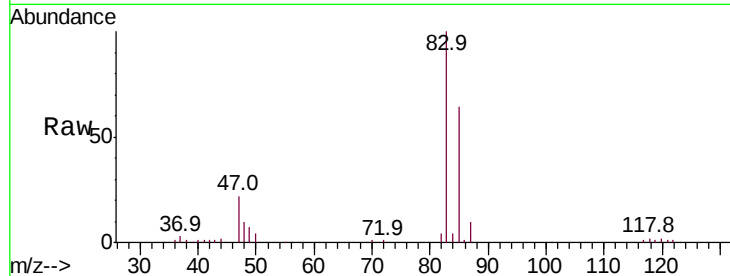
#25
Chloroform
Concen: 20.866 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Tot Ion: 83 Resp: 124223
Ion Ratio Lower Upper
83 100
85 64.1 51.7 77.5

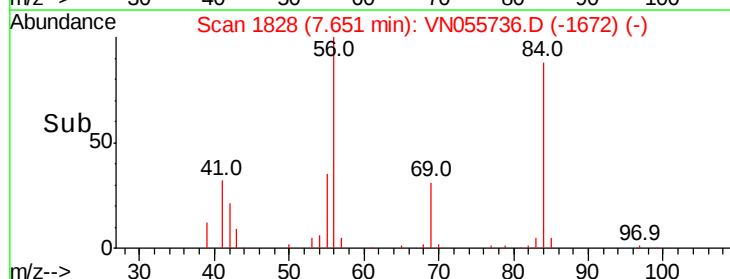
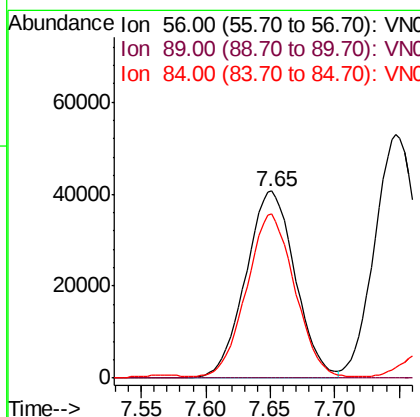
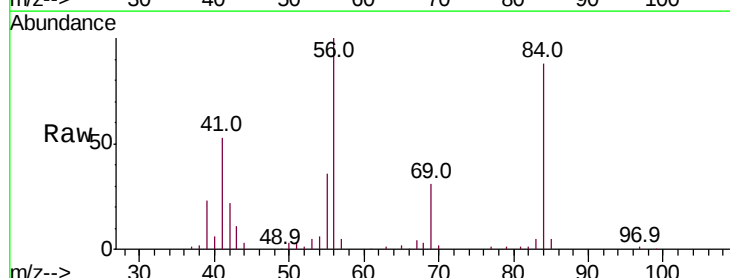
Manual Integrations
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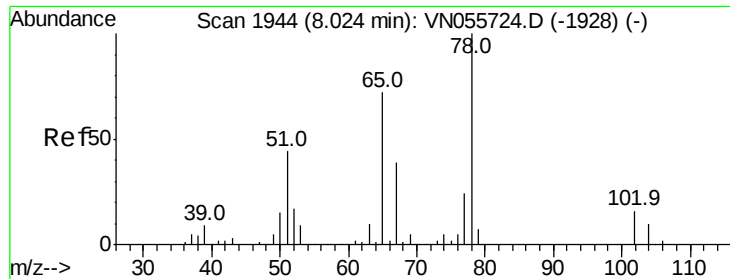
MMDadoda
5/23/2019 12:30:00 PM



#26
Cyclohexane
Concen: 19.555 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Tgt Ion: 56 Resp: 108741
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 86.1 67.2 100.8





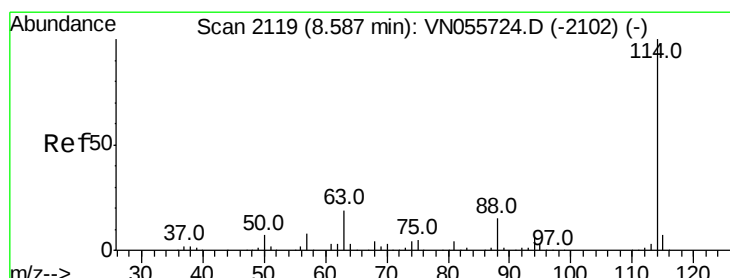
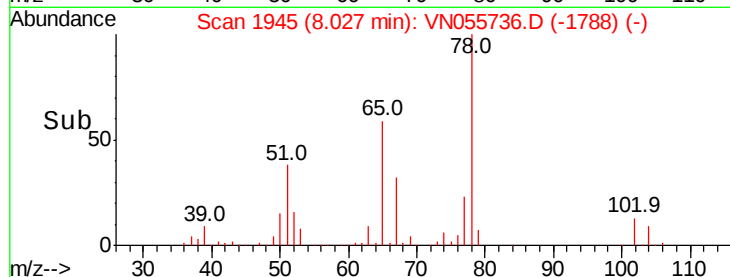
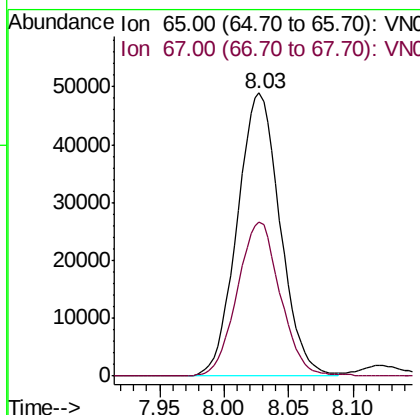
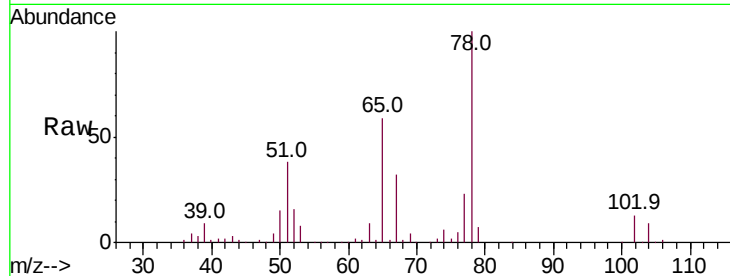
#27
 1,2-Dichloroethane-d4
 Concen: 29.999 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0522WBSD01

Tot Ion: 65 Resp: 113402
 Ion Ratio Lower Upper
 65 100
 67 54.3 43.5 65.3

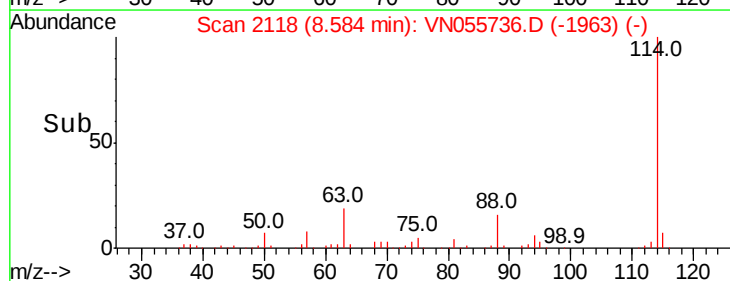
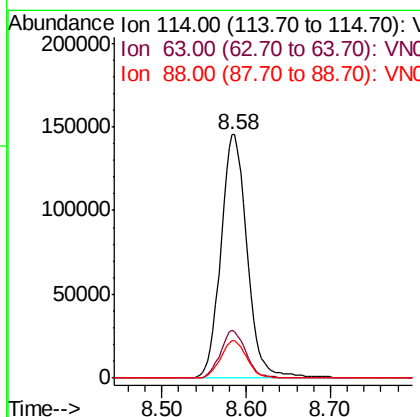
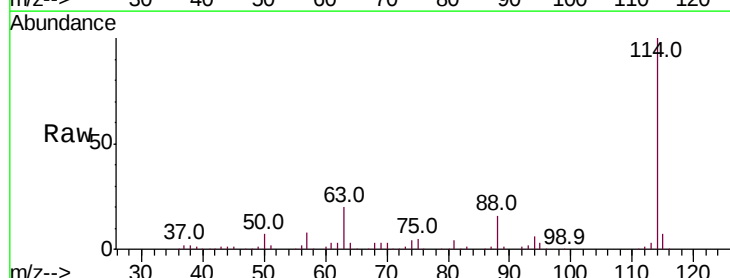
Manual Integrations
 APPROVED

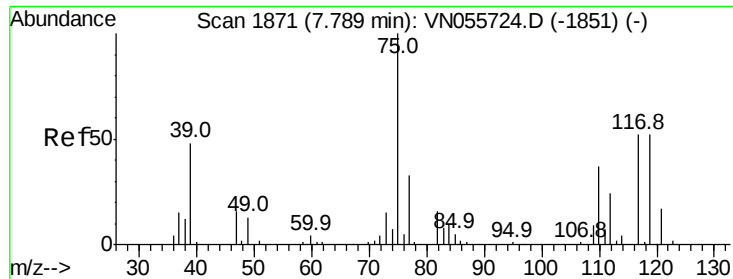
MMDadoda
 5/23/2019 12:30:00 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Tgt Ion: 114 Resp: 314509
 Ion Ratio Lower Upper
 114 100
 63 19.0 15.6 23.4
 88 15.2 12.3 18.5





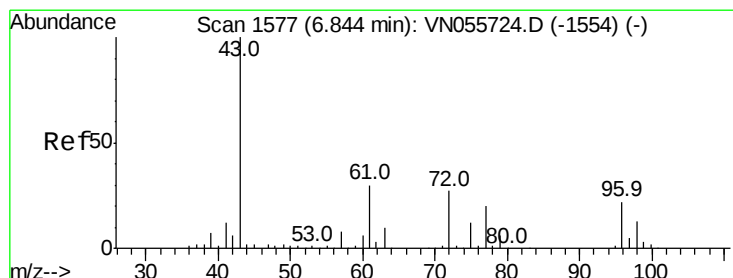
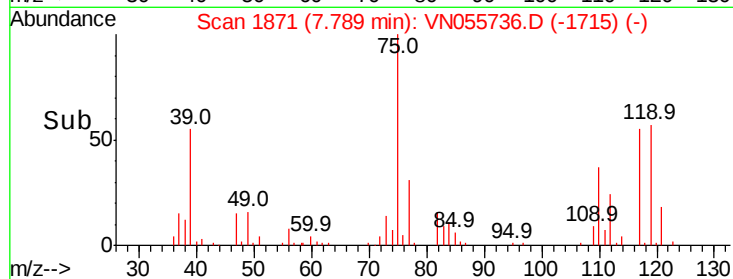
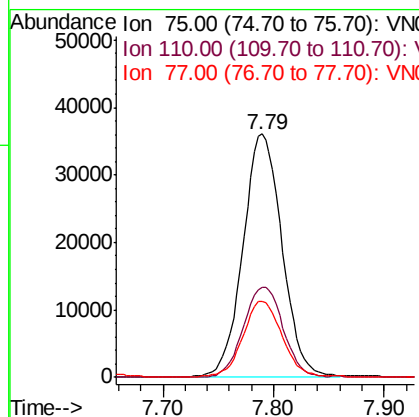
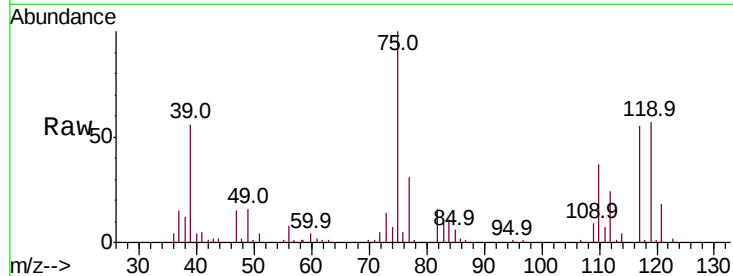
#29
 1,1-Dichloropropene
 Concen: 20.138 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0522WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.6	0.0	74.8	
77	31.6	0.0	65.2	

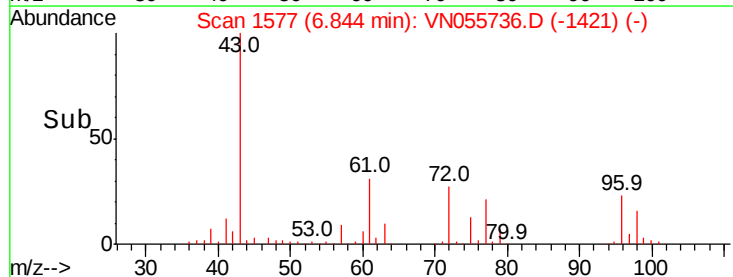
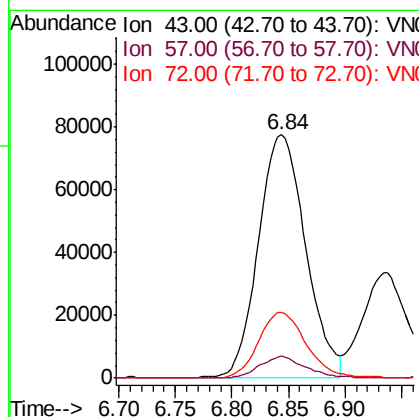
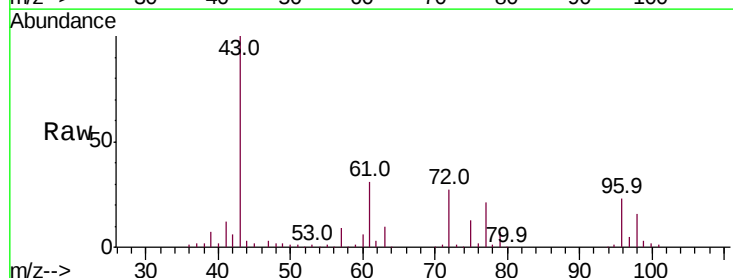
Manual Integrations
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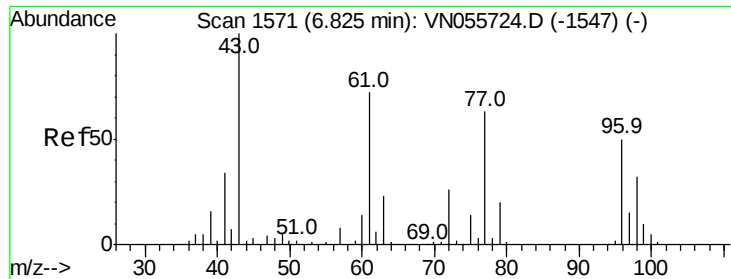
MMDadoda
 5/23/2019 12:30:00 PM



#30
 2-Butanone
 Concen: 94.978 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
57	8.7	6.6	10.0	
72	27.5	21.7	32.5	





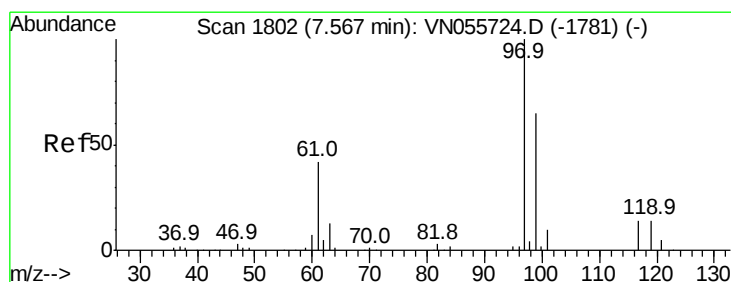
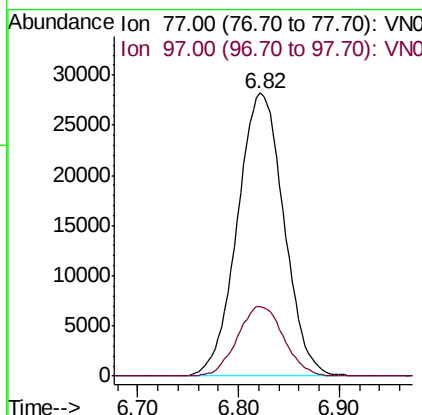
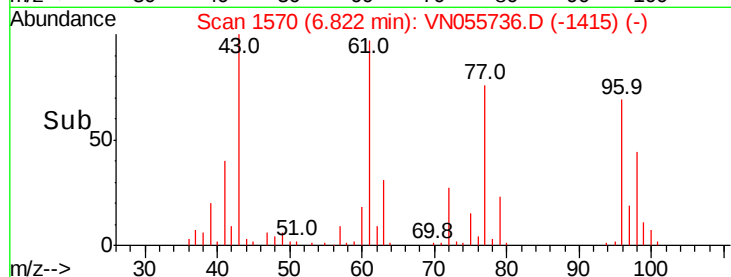
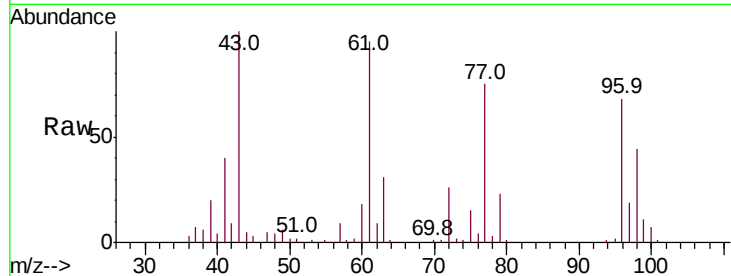
#31
 2,2-Dichloropropane
 Concen: 17.613 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0522WBSD01

Tot Ion: 77 Resp: 90242
 Ion Ratio Lower Upper
 77 100
 97 24.5 19.2 28.8

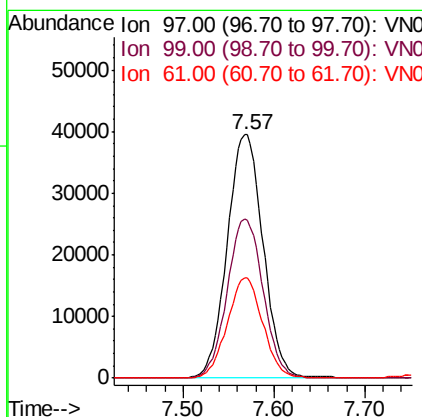
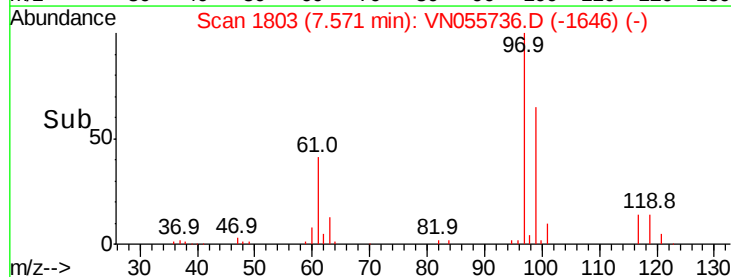
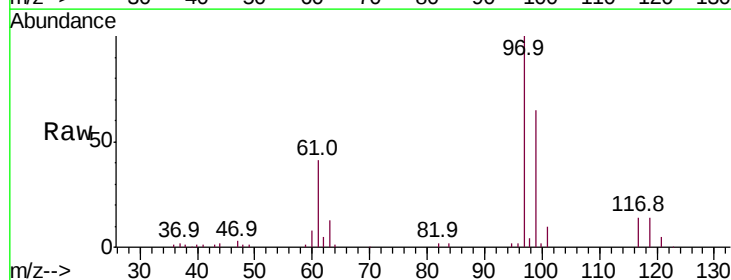
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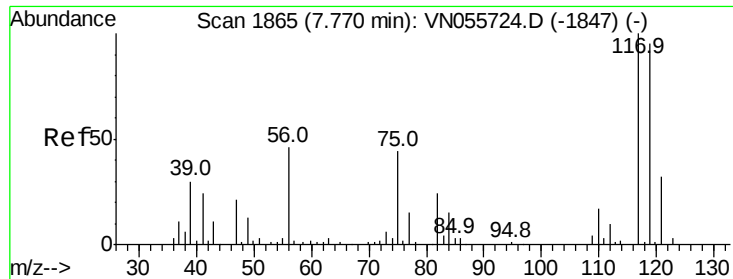
MMDadoda
 5/23/2019 12:30:00 PM



#32
 1,1,1-Trichloroethane
 Concen: 20.758 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Tgt Ion: 97 Resp: 108329
 Ion Ratio Lower Upper
 97 100
 99 65.2 51.7 77.5
 61 40.4 33.1 49.7





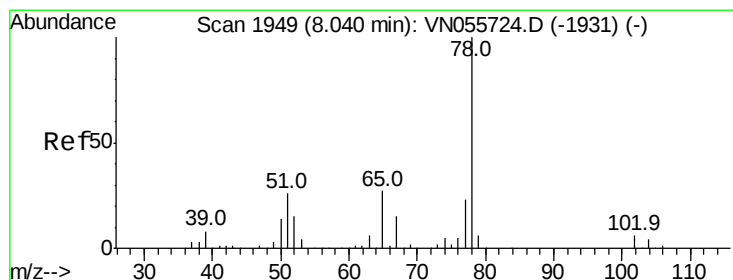
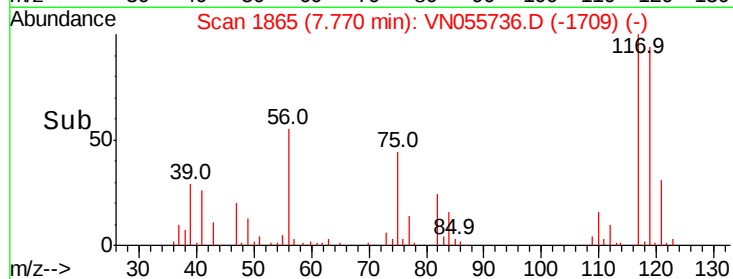
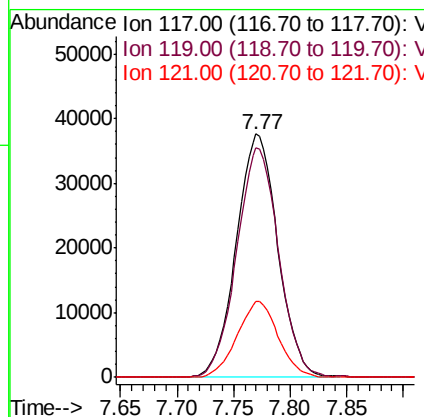
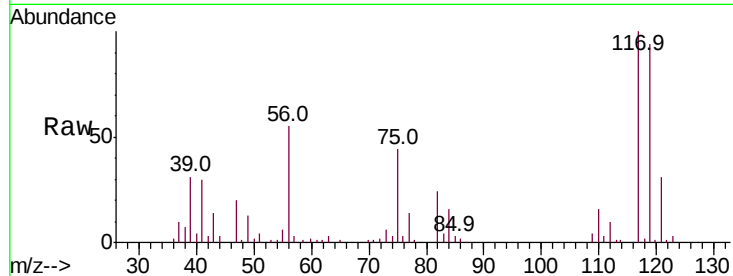
#33
Carbon Tetrachloride
Concen: 20.569 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Instrument :
MSVOA_N
ClientSampleID :
VN0522WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.4	75.8	113.8
121	30.9	25.4	38.0

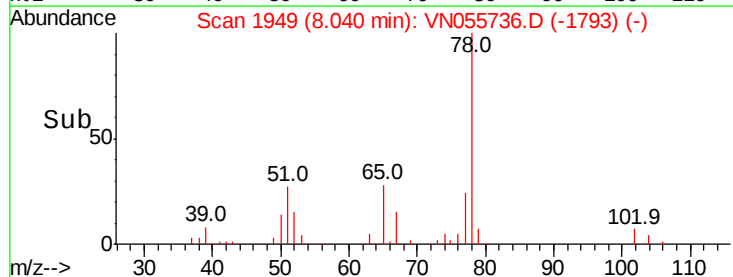
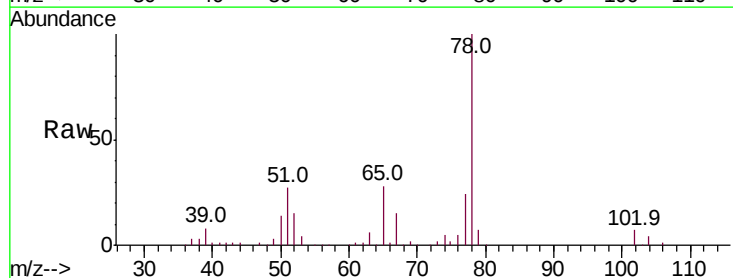
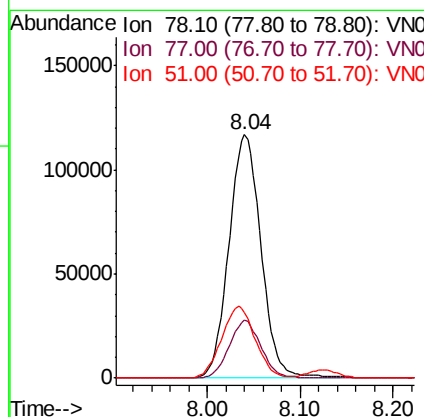
Manual Integrations
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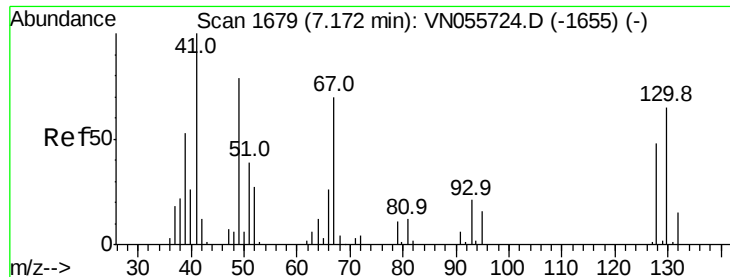
MMDadoda
5/23/2019 12:30:00 PM



#34
Benzene
Concen: 20.661 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.8	28.2
51	26.5	20.6	31.0





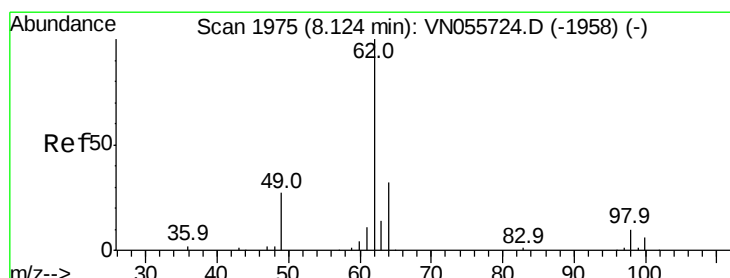
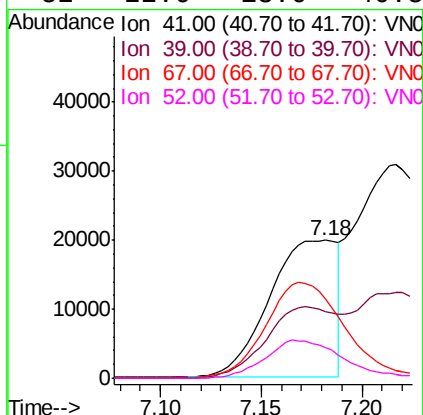
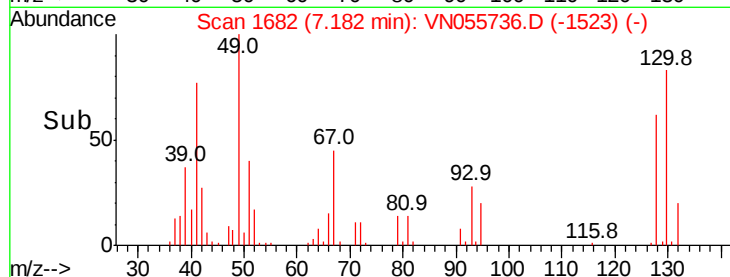
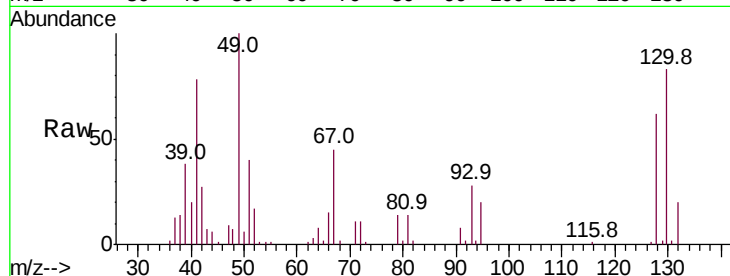
#35
Methacrylonitrile
Concen: 21.270 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.01 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	48.9	26.7	80.1	
67	58.3	34.9	104.7	
52	22.6	13.6	40.8	

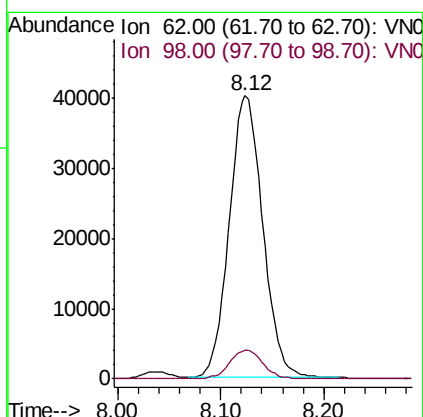
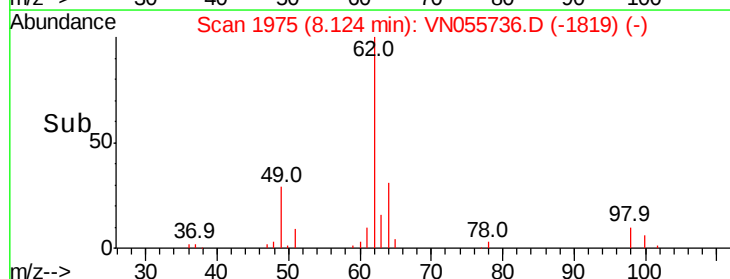
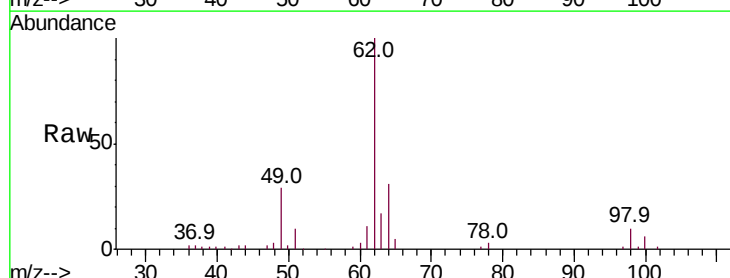
Manual Integrations
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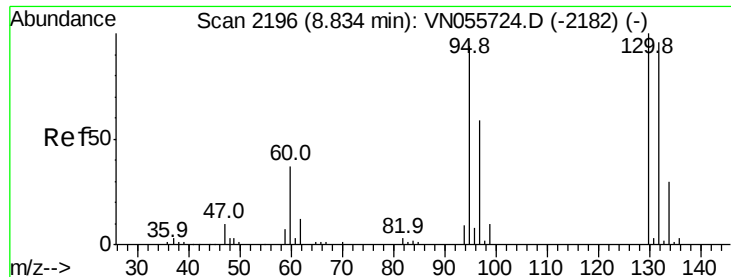
MMDadoda
5/23/2019 12:30:00 PM



#36
1,2-Dichloroethane
Concen: 20.479 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.1	8.2	12.2	





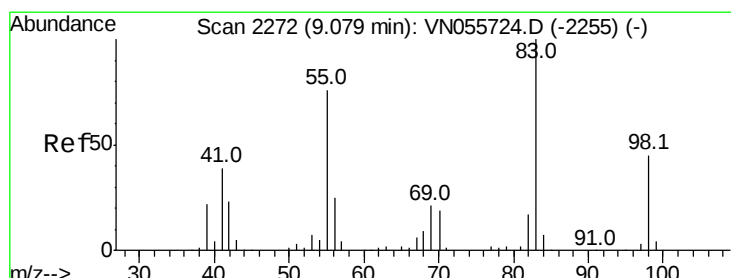
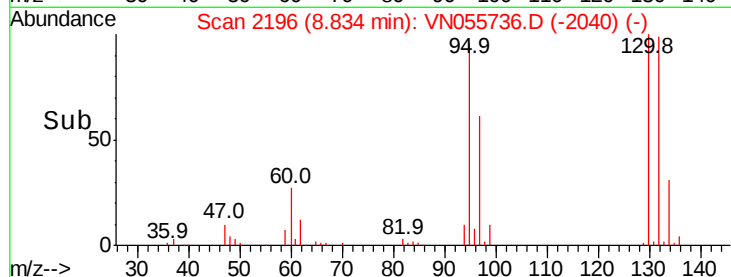
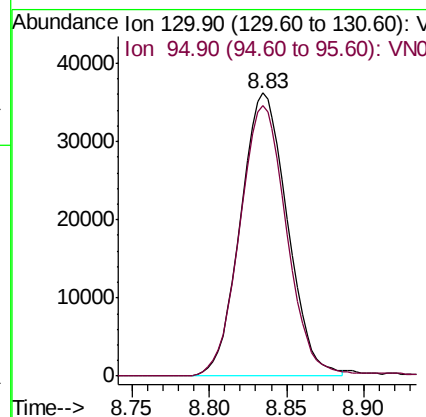
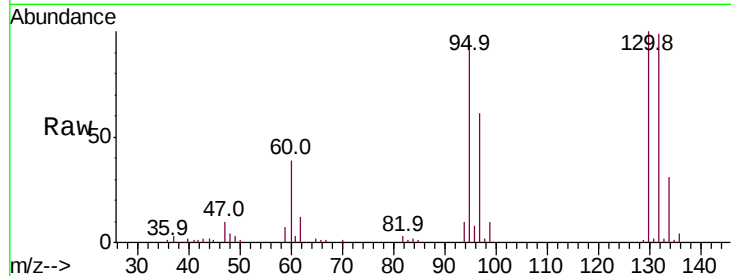
#37
 Trichloroethene
 Concen: 20.152 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0522WBSD01

Tot Ion:130 Resp: 76430
 Ion Ratio Lower Upper
 130 100
 95 95.7 75.6 113.4

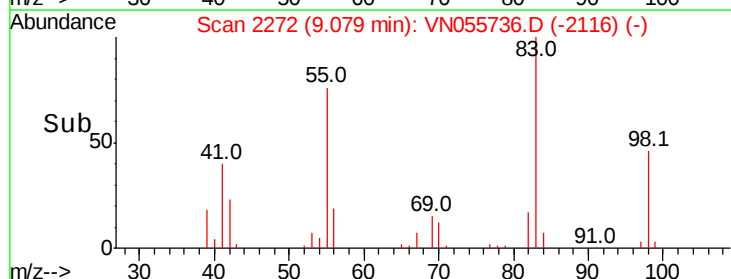
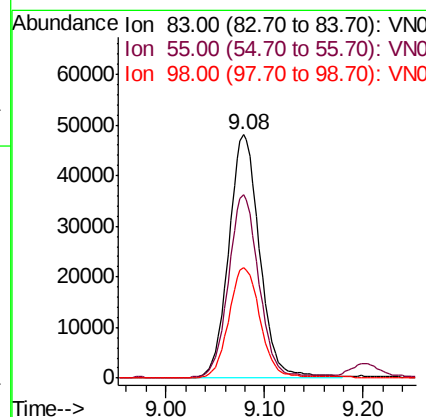
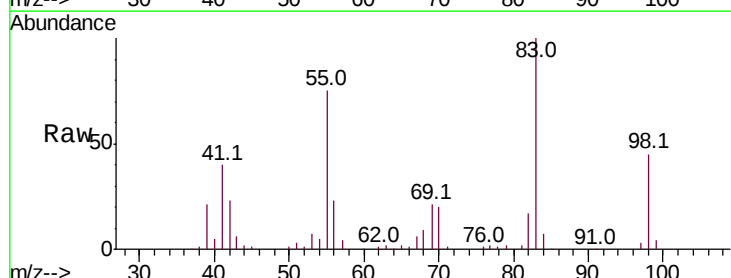
Manual Integrations
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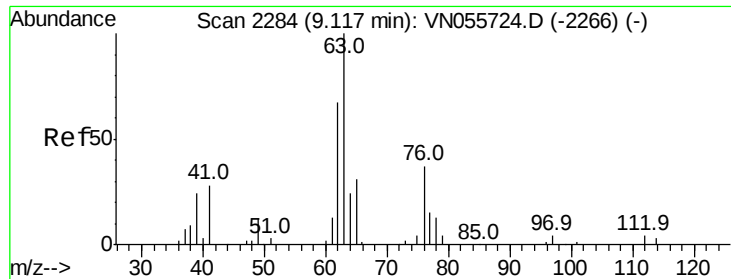
MMDadoda
 5/23/2019 12:30:00 PM



#38
 Methylcyclohexane
 Concen: 18.923 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Tgt Ion: 83 Resp: 105560
 Ion Ratio Lower Upper
 83 100
 55 74.1 37.8 113.4
 98 45.8 22.6 67.8





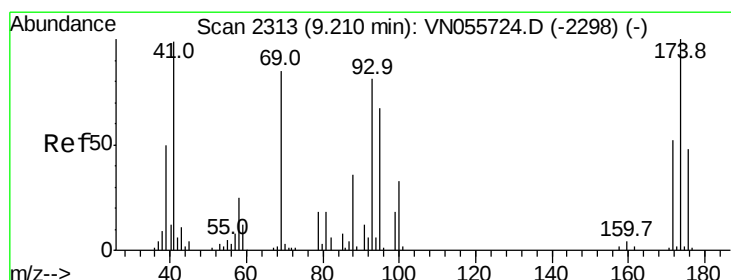
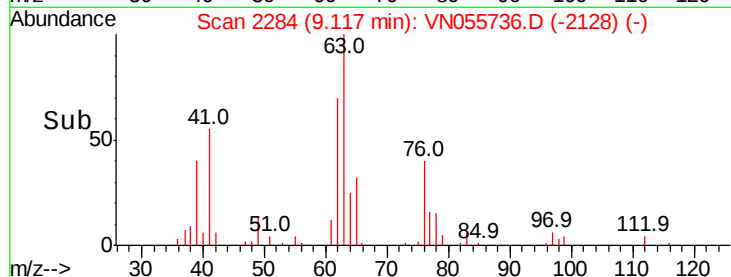
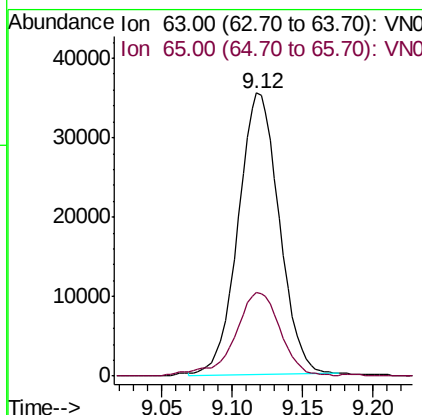
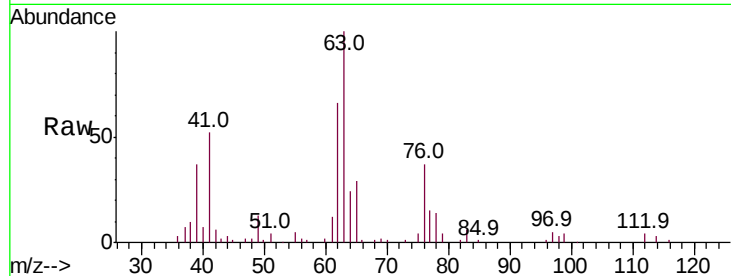
#39
 1,2-Dichloropropane
 Concen: 19.776 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0522WBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.6	25.8	38.8

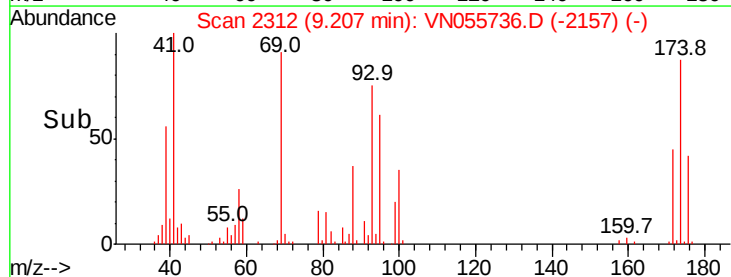
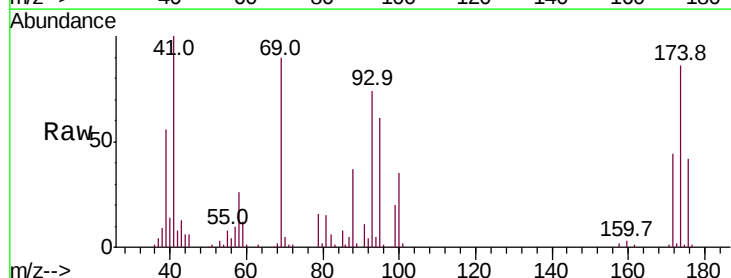
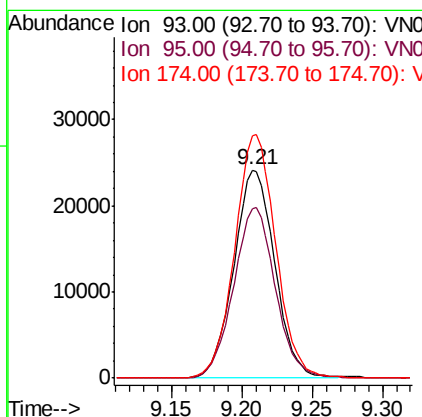
Manual Integrations
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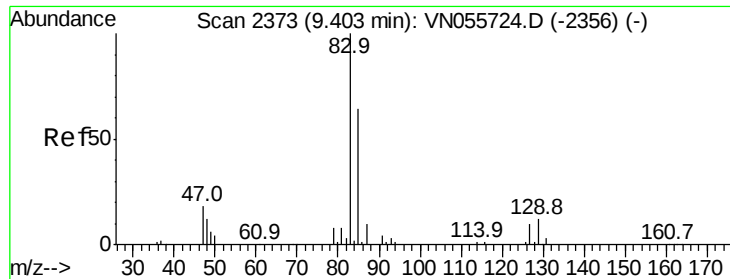
MMDadoda
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#40
 Dibromomethane
 Concen: 20.859 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.8	0.0	170.6
174	116.9	0.0	248.4





#41

Bromodichloromethane

Concen: 20.494 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

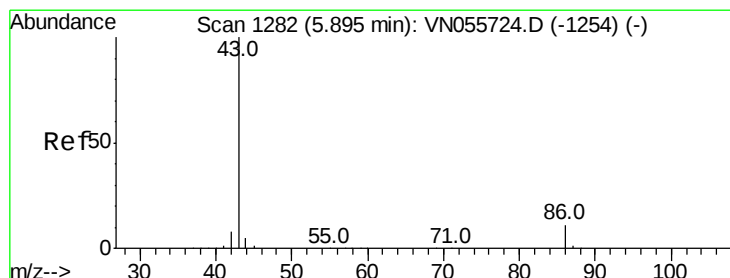
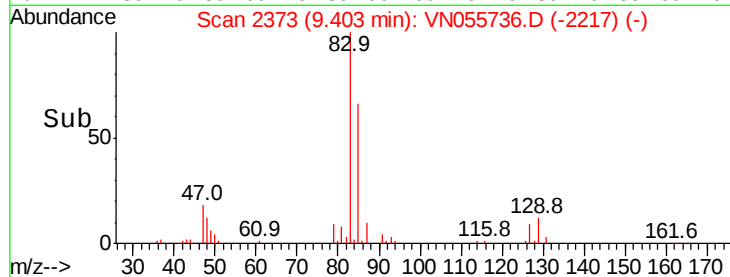
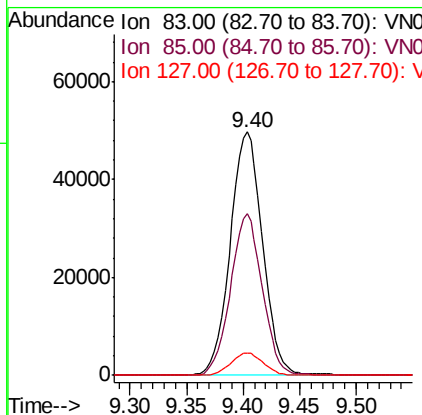
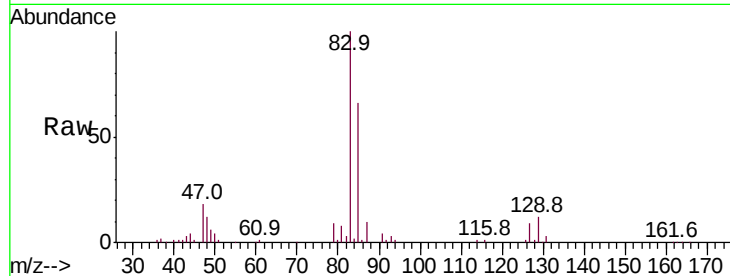
ClientSampleId :

VN0522WBSD01

Tot Ion:	83	Resp:	99113
Ion Ratio	Lower	Upper	
83	100		
85	66.3	51.4	77.0
127	9.3	7.7	11.5

Manual Integrations
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MMDadoda
5/23/2019 12:30:00 PM



#42

Vinyl Acetate

Concen: 100.457 ug/l

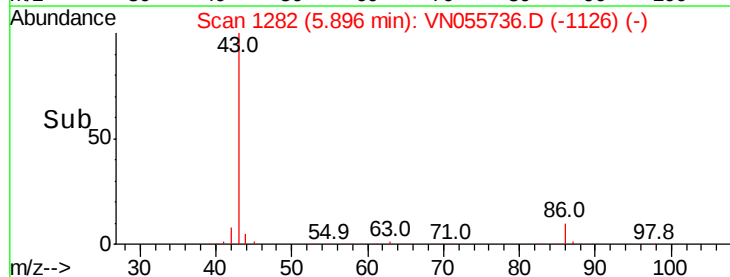
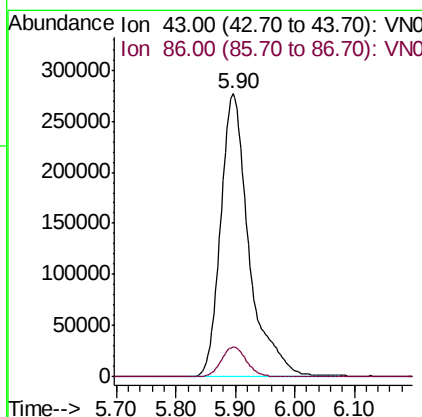
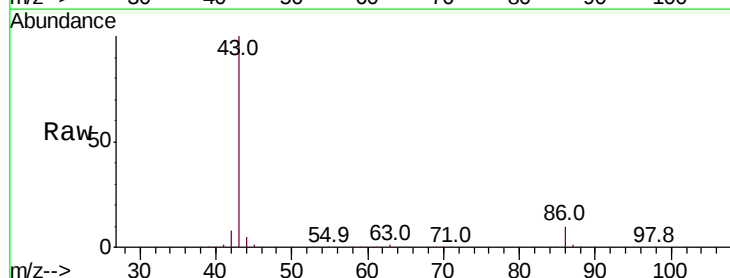
RT: 5.90 min Scan# 1282

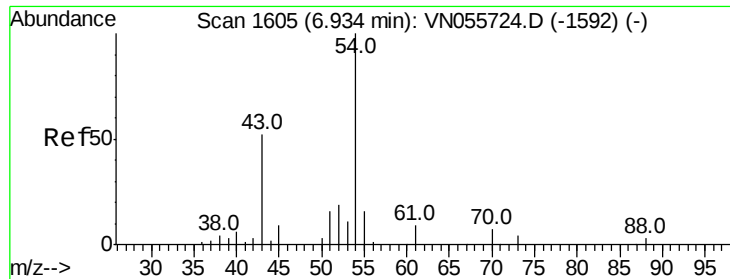
Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Tgt Ion:	43	Resp:	915298
Ion Ratio	Lower	Upper	
43	100		
86	9.5	7.4	11.2





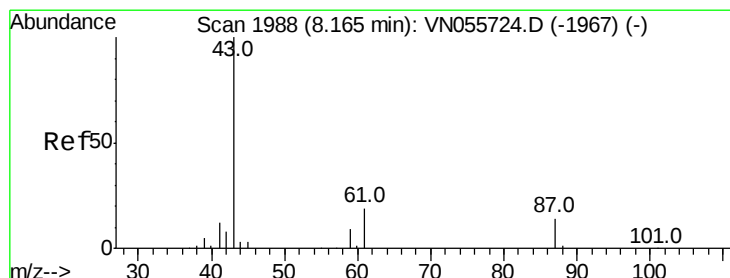
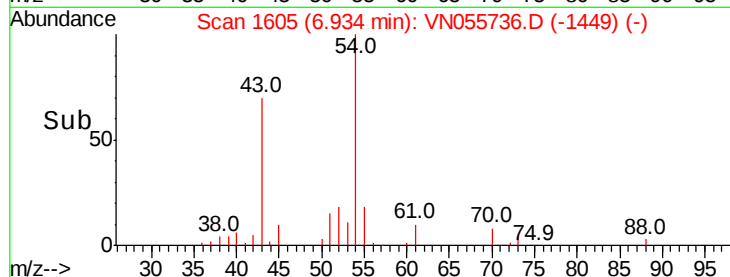
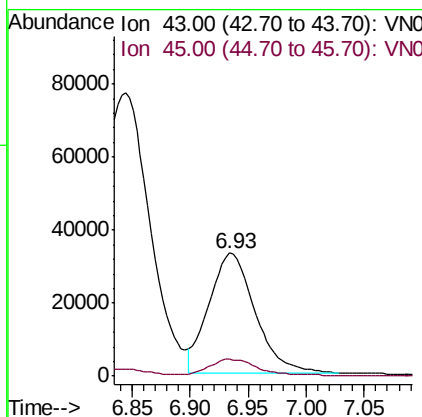
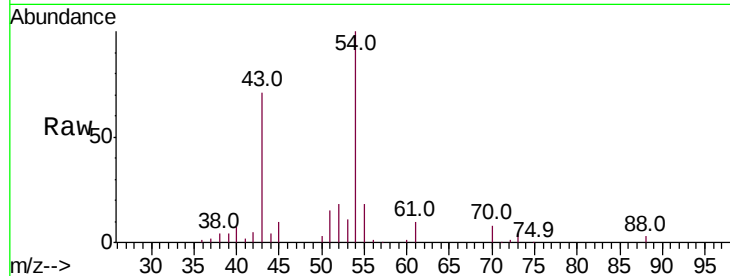
#43
Ethyl Acetate
Concen: 19.726 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Tot Ion: 43 Resp: 90994
Ion Ratio Lower Upper
43 100
45 14.8 0.0 0.0#

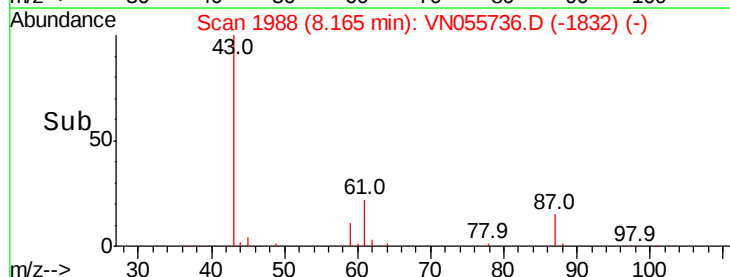
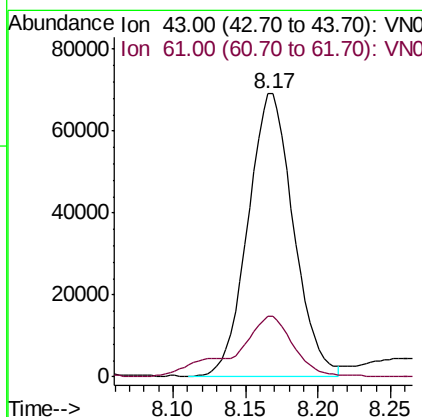
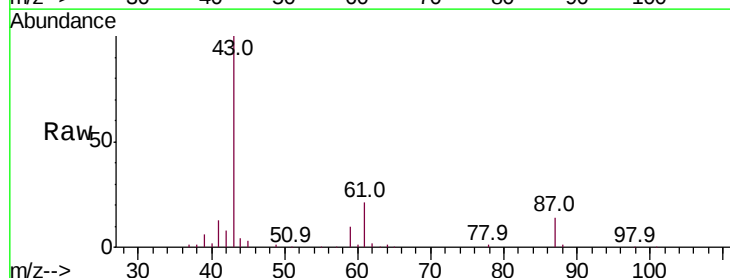
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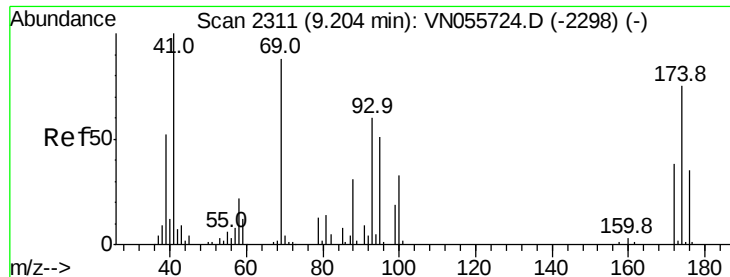
MMDadoda
5/23/2019 12:30:00 PM



#44
Isopropyl Acetate
Concen: 19.672 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Tgt Ion: 43 Resp: 150266
Ion Ratio Lower Upper
43 100
61 20.8 22.1 33.1#





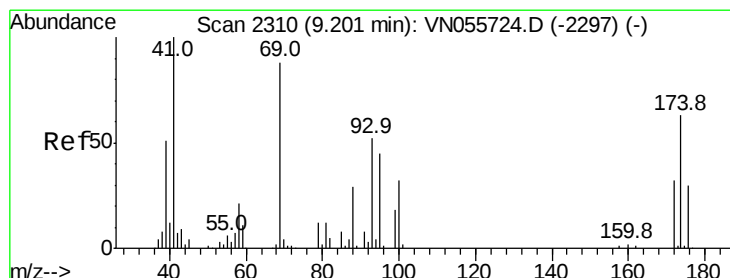
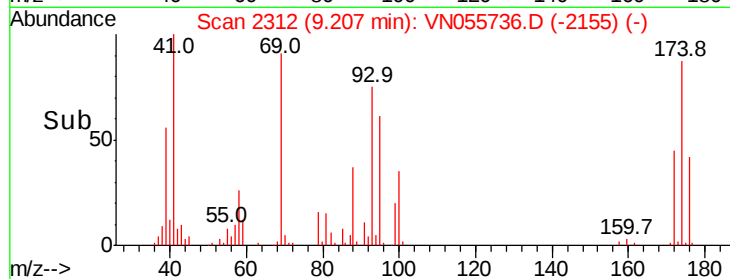
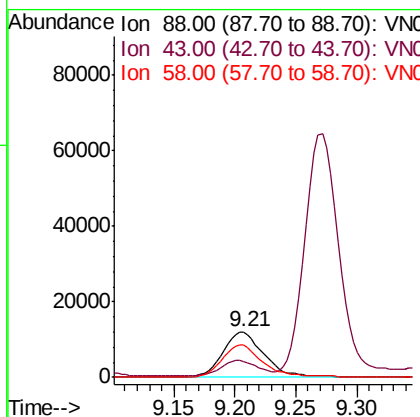
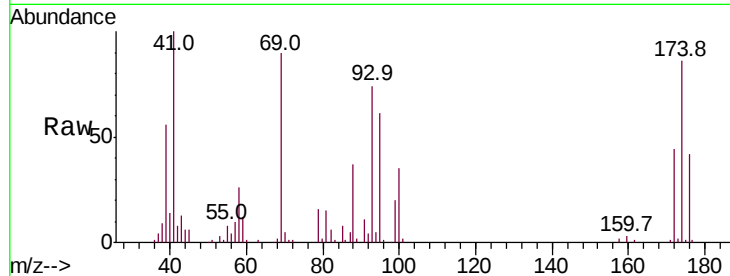
#45
 1,4-Dioxane
 Concen: 395.781 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0522WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.2	20.5	30.7
58	69.2	56.1	84.1

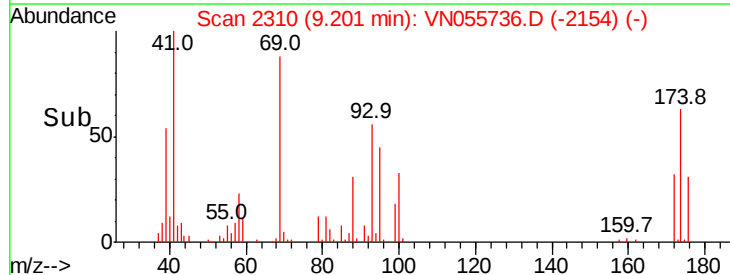
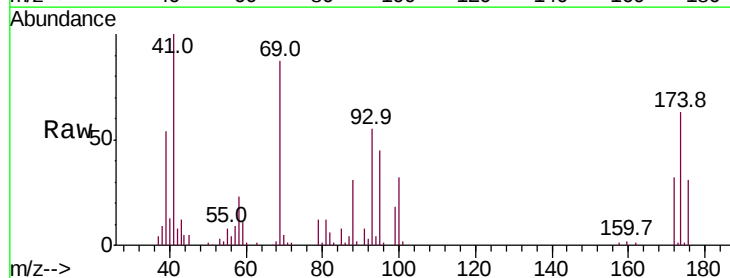
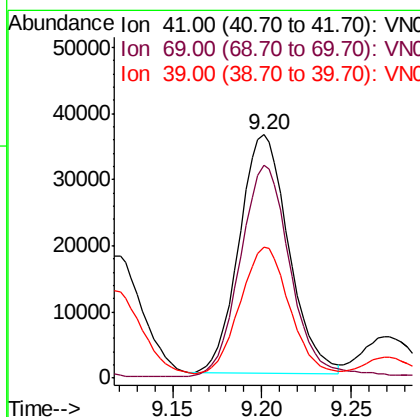
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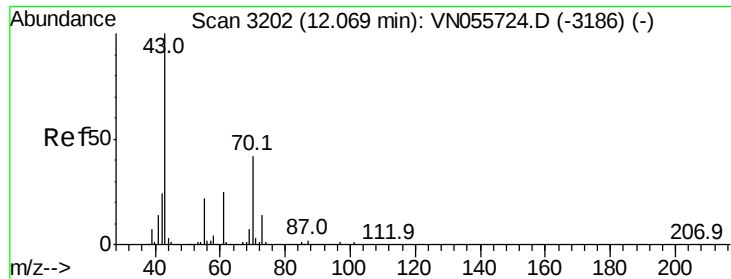
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 5/23/2019 12:30:00 PM



#46
 Methyl methacrylate
 Concen: 19.534 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Lower	Upper
41	100		
69	88.8	43.8	131.4
39	53.0	25.6	76.6





#47

n-amvl Acetate

Concen: 18.989 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0522WBSD01

Tot Ion: 43 Resp: 119969

Ion Ratio Lower Upper

43 100

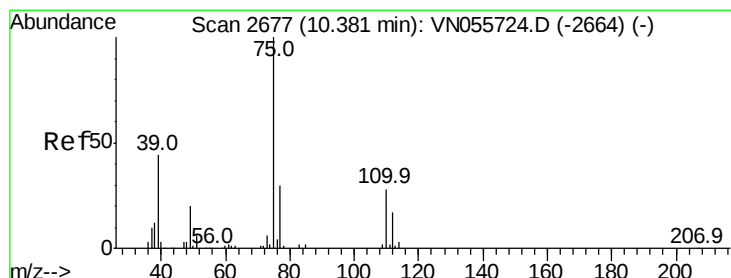
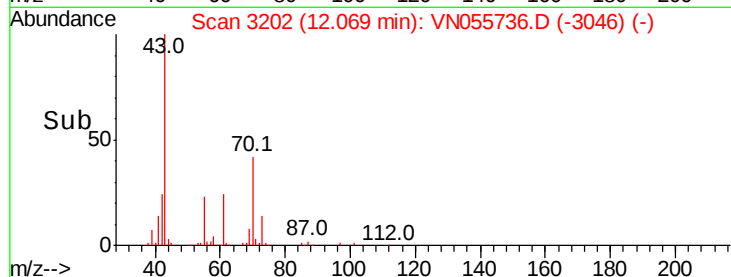
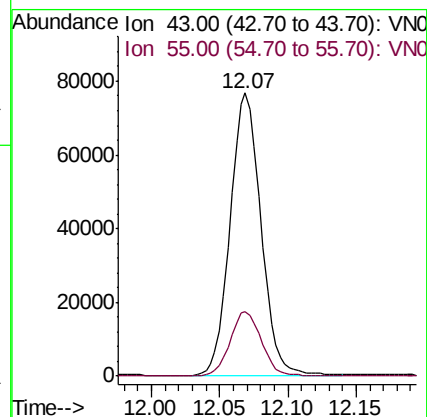
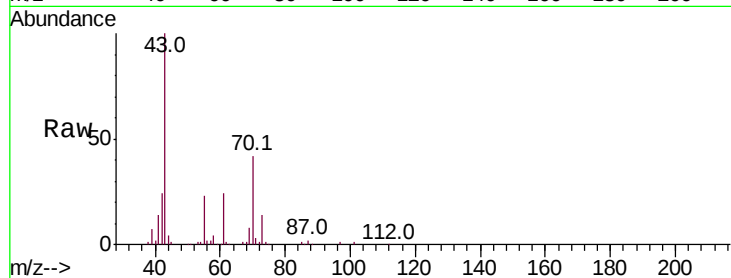
55 23.6 17.8 26.6

Manual Integrations

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5/23/2019 12:30:00 PM



#48

t-1,3-Dichloropropene

Concen: 19.301 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN055736.D

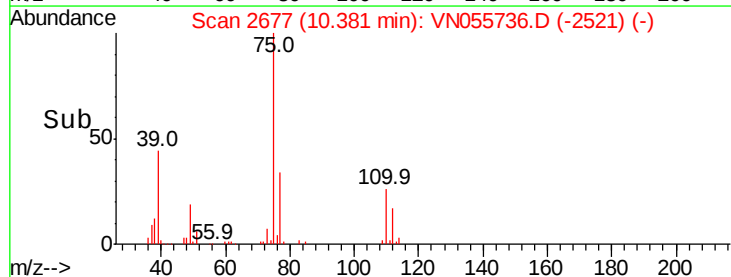
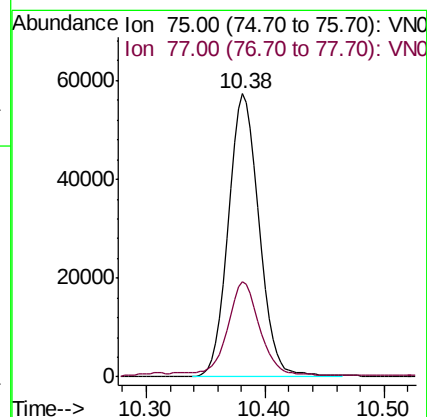
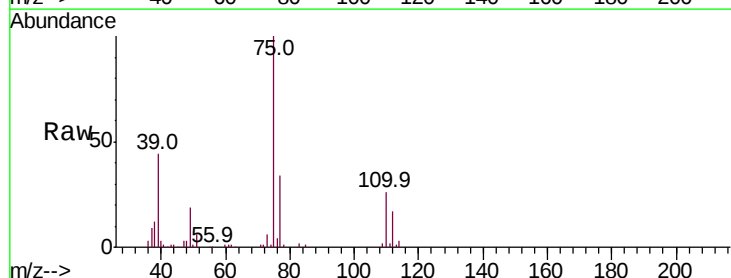
Acq: 22 May 2019 23:12

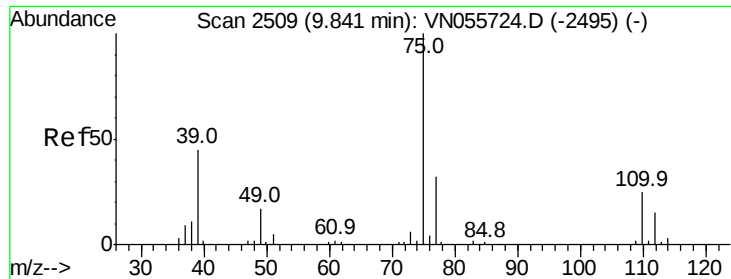
Tgt Ion: 75 Resp: 103034

Ion Ratio Lower Upper

75 100

77 33.0 25.2 37.8





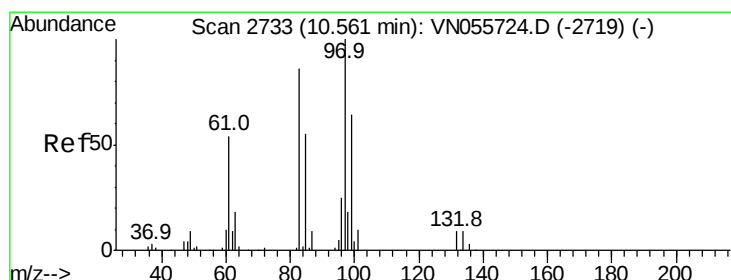
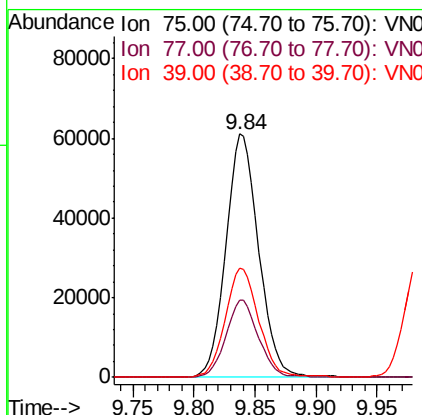
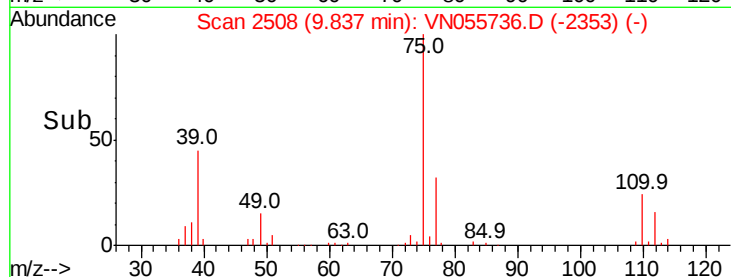
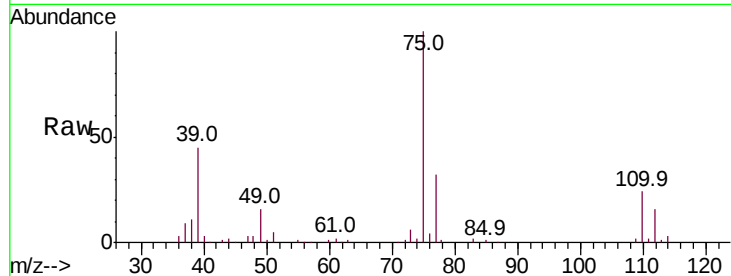
#49
 cis-1,3-Dichloropropene
 Concen: 19.603 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. -0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0522WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
77	31.5	26.0	39.0	
39	44.6	36.2	54.4	

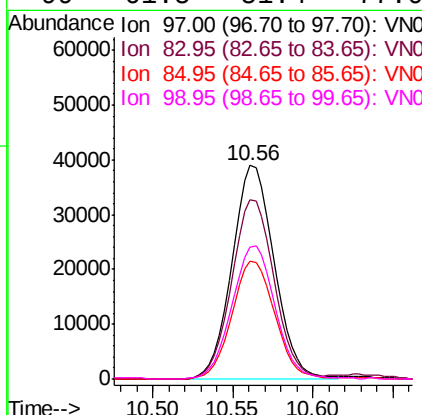
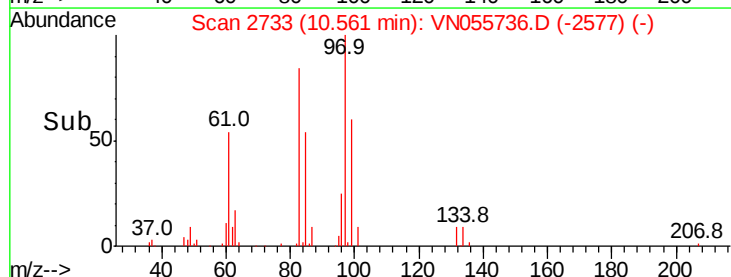
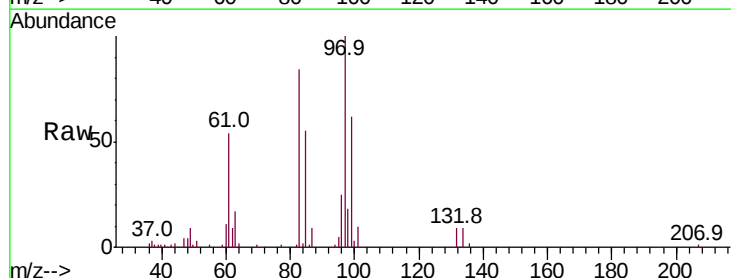
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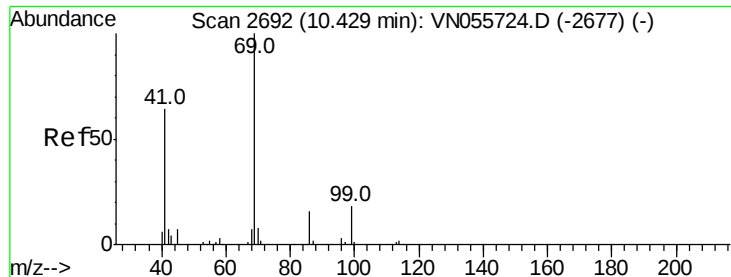
MMDadoda
 5/23/2019 12:30:00 PM



#50
 1,1,2-Trichloroethane
 Concen: 20.418 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
97	100			
83	84.2	68.9	103.3	
85	55.4	44.3	66.5	
99	61.5	51.4	77.0	





#51

Ethyl methacrylate

Concen: 20.002 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

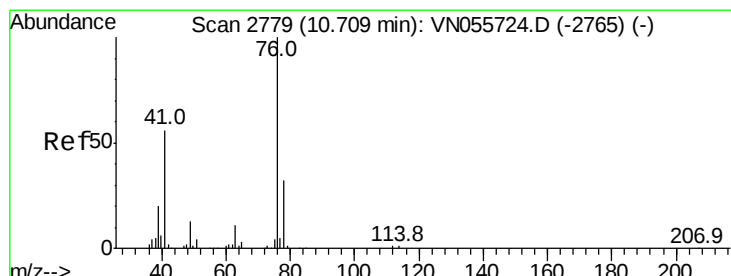
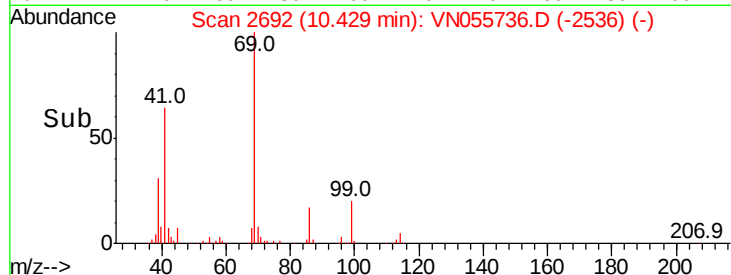
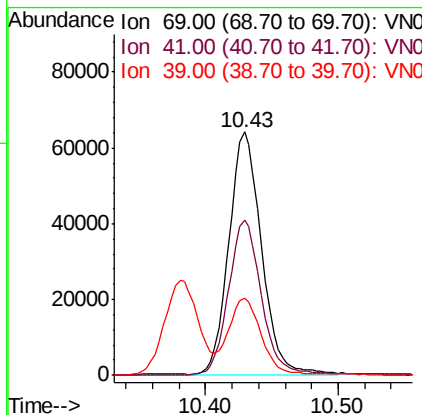
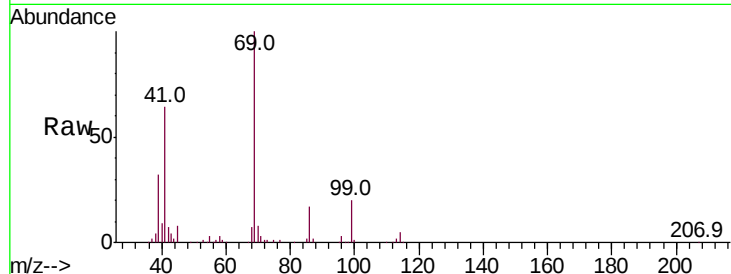
ClientSampled :

VN0522WBSD01

Tot Ion:	69	Resp:	110747
Ion	Ratio	Lower	Upper
69	100		
41	63.5	31.9	95.7
39	31.1	15.7	47.0

Manual Integrations
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5/23/2019 12:30:00 PM



#52

1,3-Dichloropropane

Concen: 19.970 ug/l

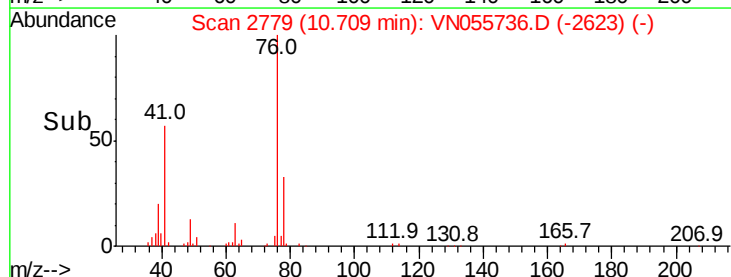
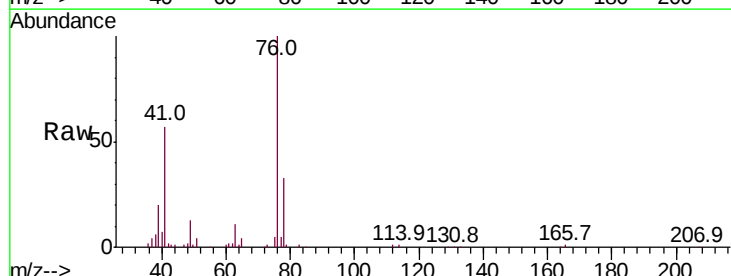
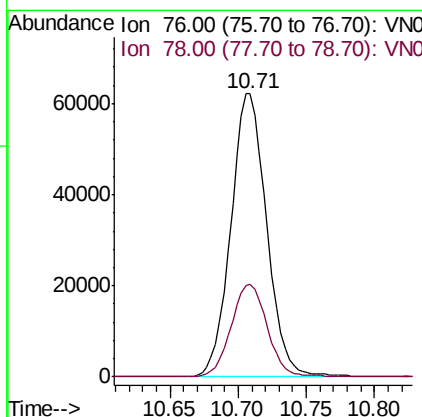
RT: 10.71 min Scan# 2779

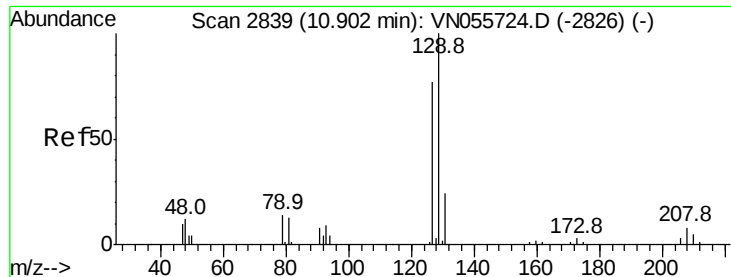
Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Tgt Ion:	76	Resp:	113076
Ion	Ratio	Lower	Upper
76	100		
78	33.0	0.0	65.0





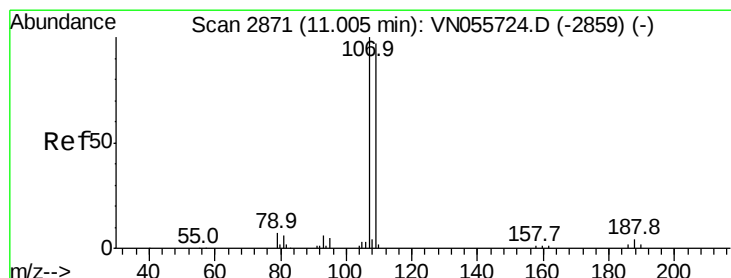
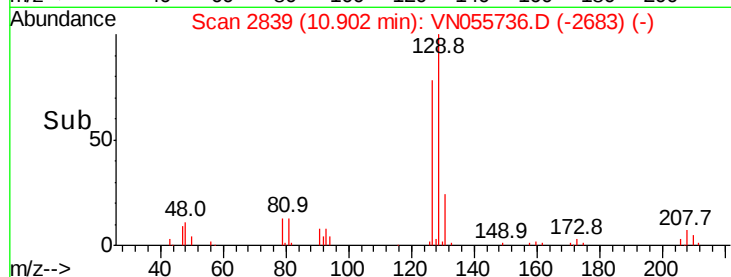
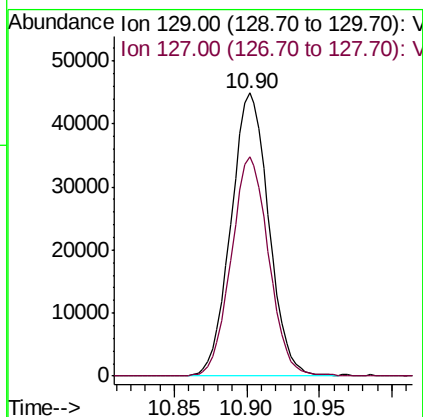
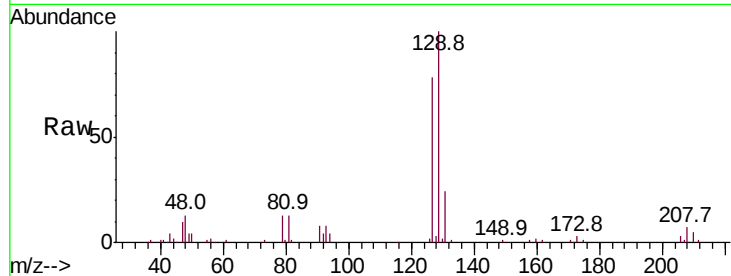
#53
Dibromochloromethane
Concen: 20.113 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Tot Ion:129 Resp: 81620
Ion Ratio Lower Upper
129 100
127 76.6 39.2 117.6

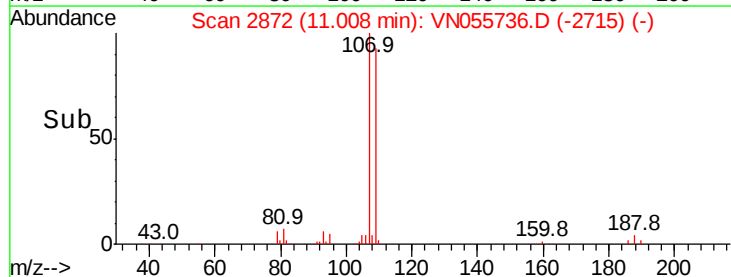
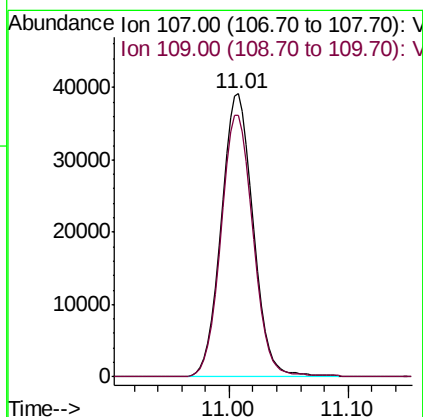
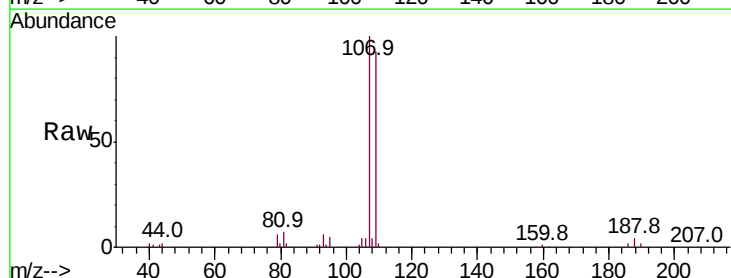
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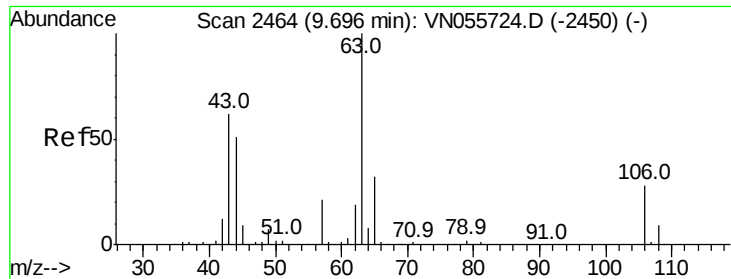
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#54
1,2-Dibromoethane
Concen: 20.495 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Tgt Ion:107 Resp: 72852
Ion Ratio Lower Upper
107 100
109 93.0 76.6 115.0





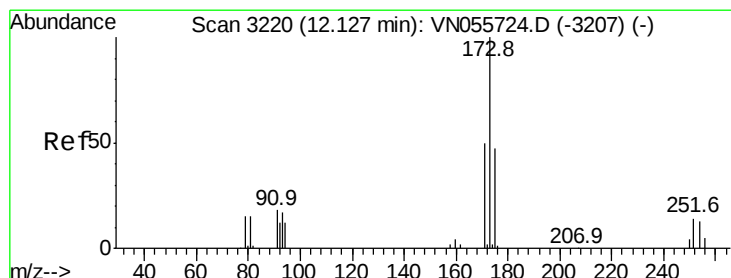
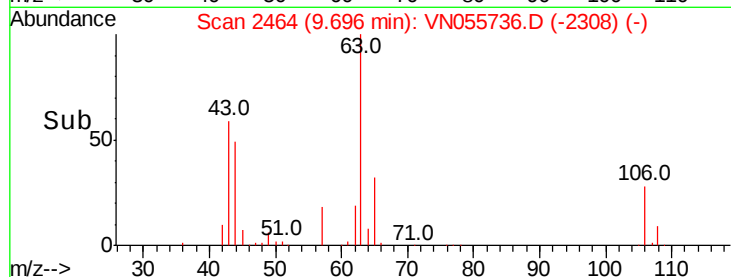
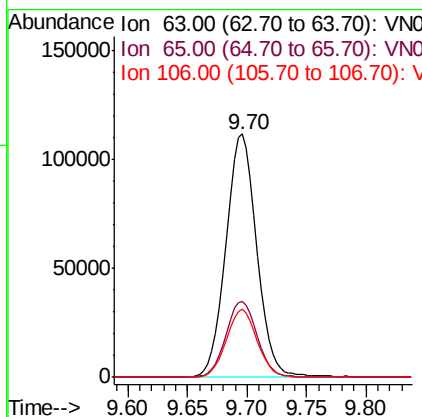
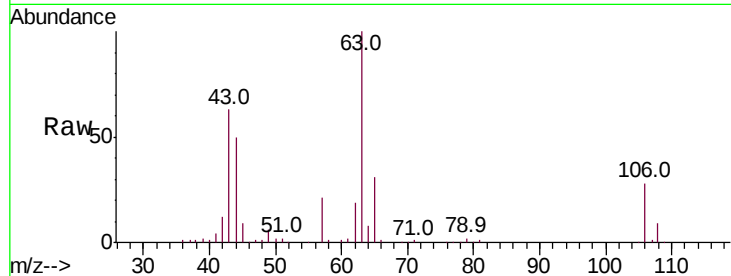
#55
2-Chloroethyl vinyl ether
Concen: 93.429 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Tot Ion	63	Resp	201277
Ion Ratio	Lower	Upper	
63	100		
65	31.9	25.4	38.0
106	28.0	22.1	33.1

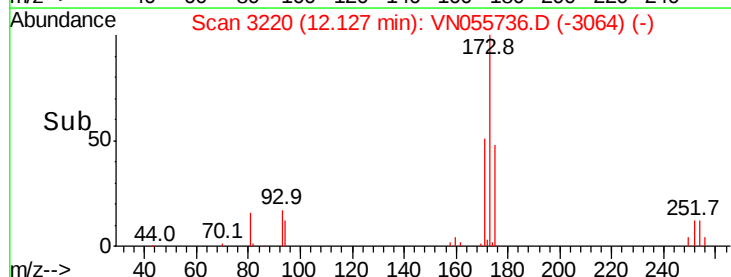
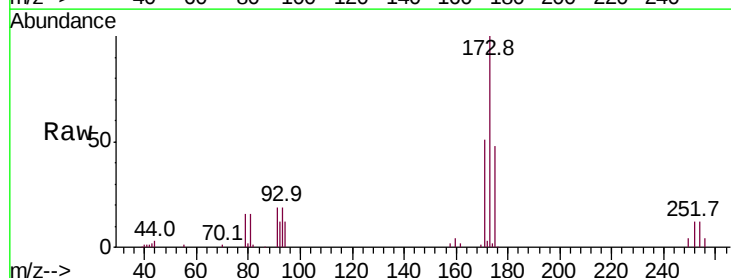
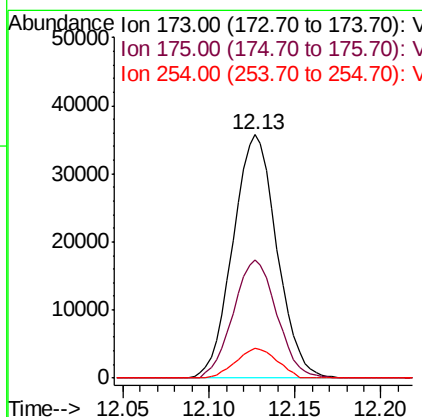
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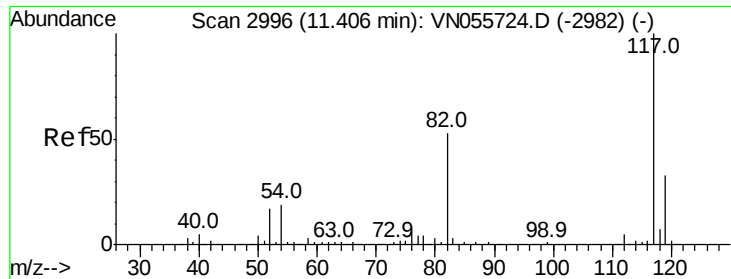
MMDadoda
5/23/2019 12:30:00 PM



#56
Bromoform
Concen: 19.052 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Tgt Ion	173	Resp	63419
Ion Ratio	Lower	Upper	
173	100		
175	48.0	38.5	57.7
254	11.4	9.4	14.0





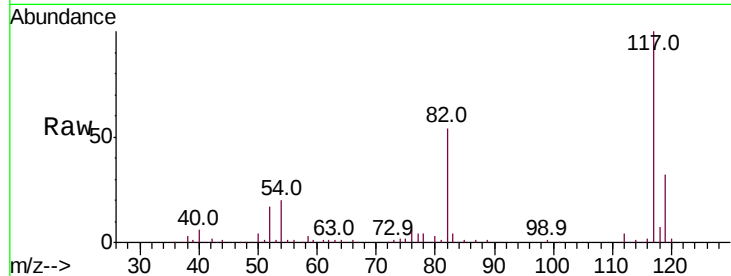
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

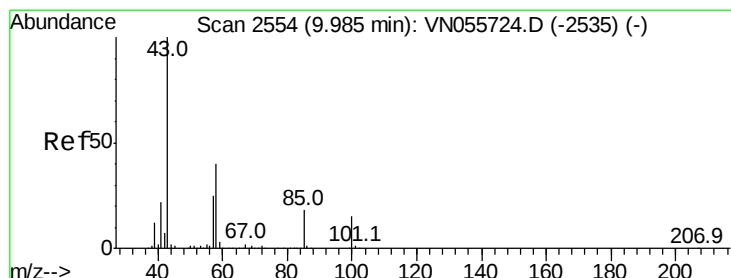
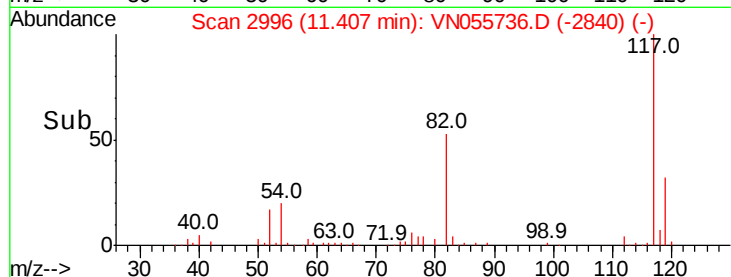
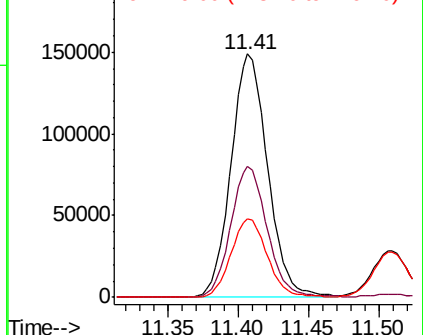
Tot Ion	Ratio	Resp	Lower	Upper
117	100	271268		
82	53.4	42.6	64.0	
119	31.9	25.9	38.9	

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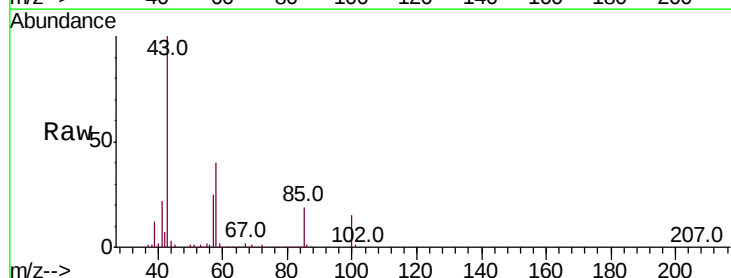


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

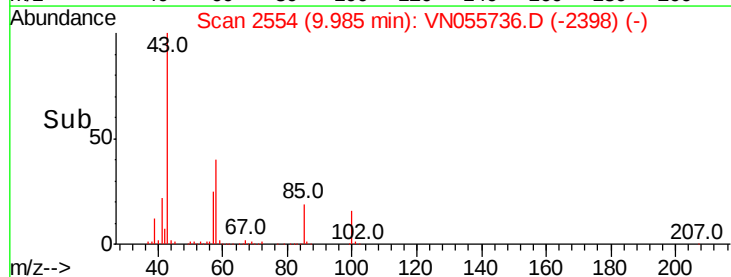
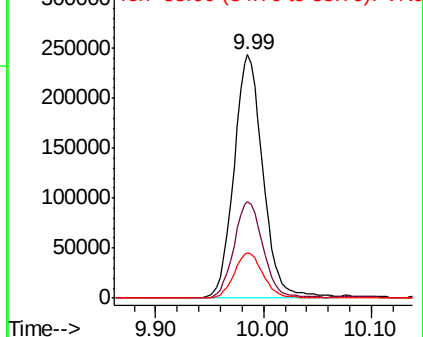


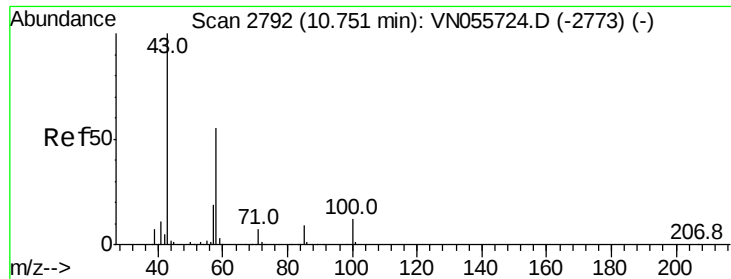
#58
4-Methyl-2-Pentanone
Concen: 101.371 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	455231		
58	40.2	31.7	47.5	
85	18.7	14.5	21.7	



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 58.00 (57.70 to 58.70): V
Ion 85.00 (84.70 to 85.70): V





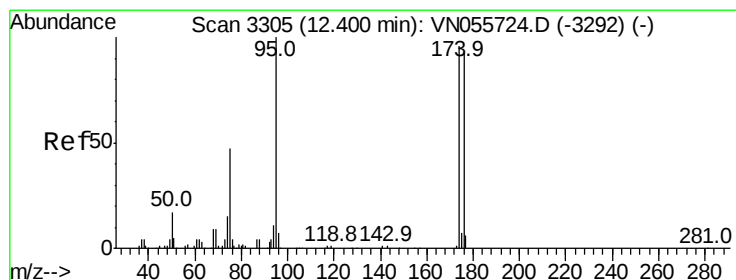
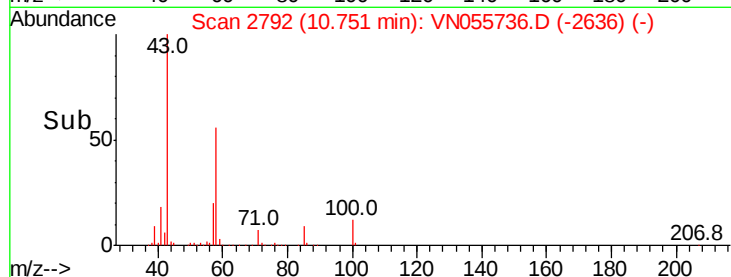
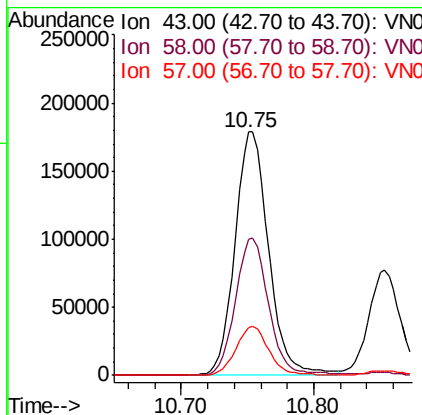
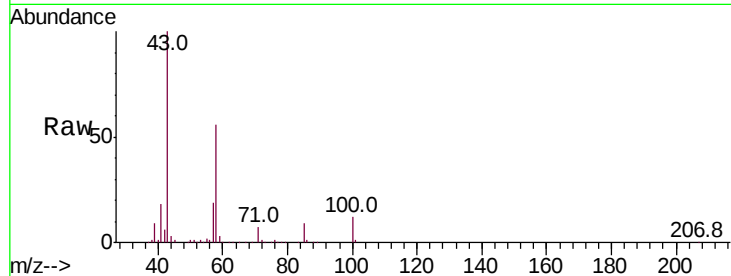
#59
2-Hexanone
Concen: 97.488 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.4	44.8	67.2
57	19.9	15.3	22.9

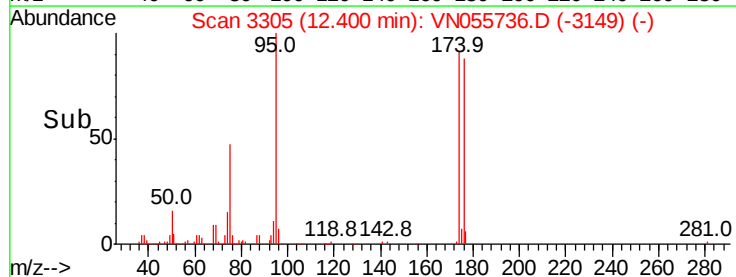
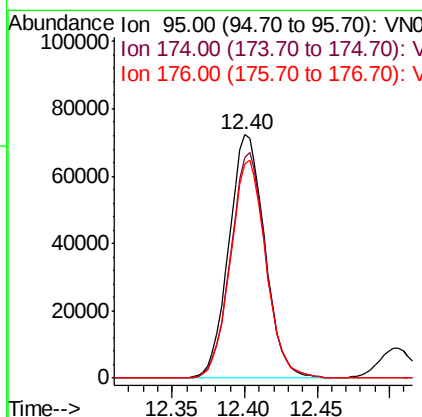
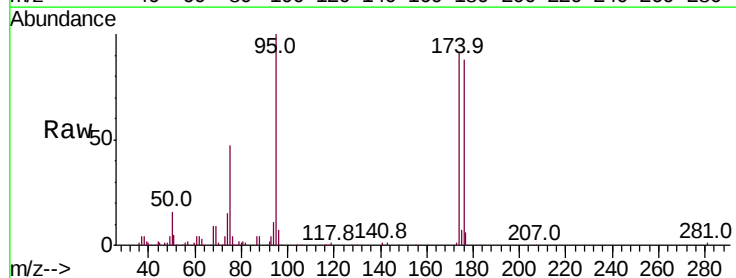
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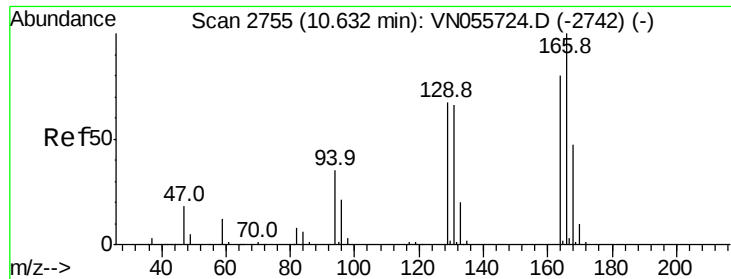
MMDadoda
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#60
4-Bromofluorobenzene
Concen: 29.401 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.8	75.7	113.5
176	88.5	74.1	111.1





#61

Tetrachloroethene

Concen: 20.780 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0522WBSD01

Tot Ion:164 Resp: 76306

Ion Ratio Lower Upper

164 100

166 128.9 100.6 150.8

129 88.1 67.4 101.2

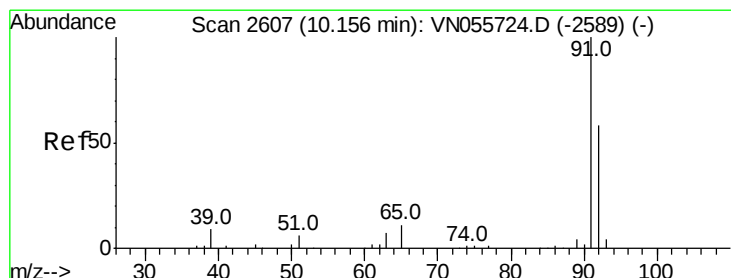
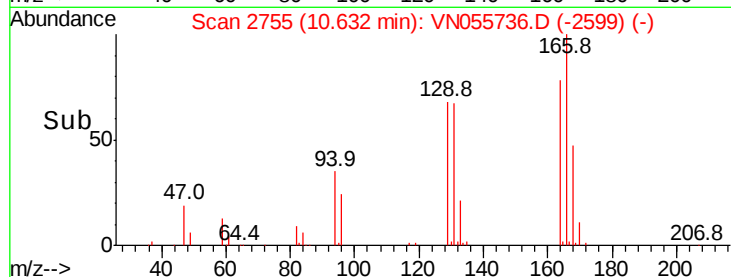
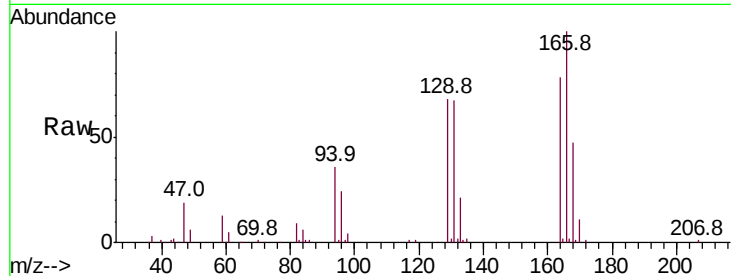
131 86.6 66.6 99.8

Manual Integrations

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#62

Toluene

Concen: 20.936 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055736.D

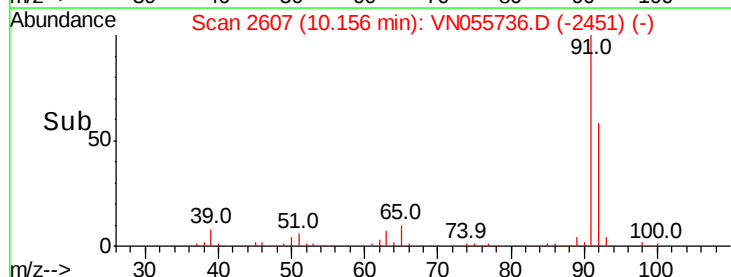
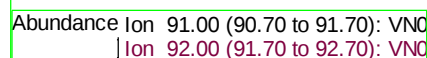
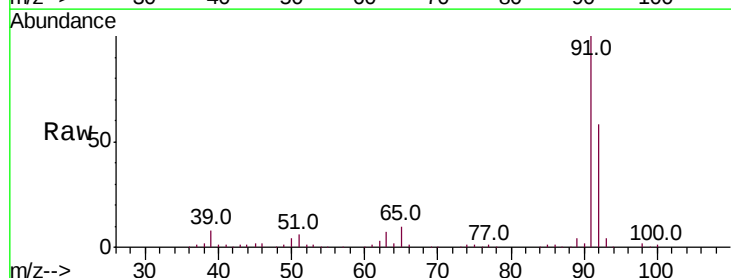
Acq: 22 May 2019 23:12

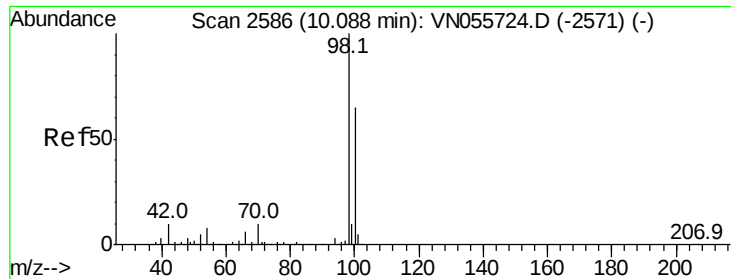
Tgt Ion: 91 Resp: 305410

Ion Ratio Lower Upper

91 100

92 57.7 45.6 68.4





#63

Toluene-d8

Concen: 30.442 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0522WBSD01

Tot Ion: 98 Resp: 377381

Ion Ratio Lower Upper

98 100

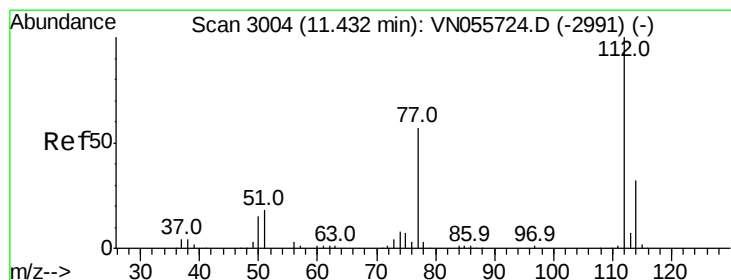
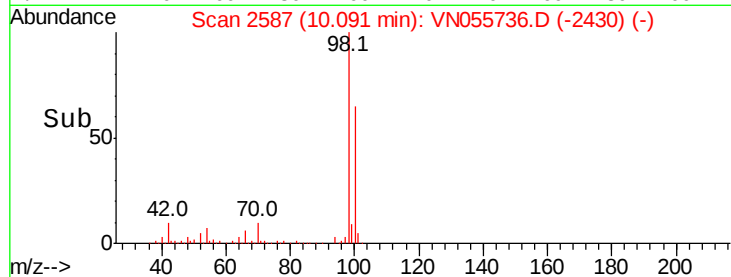
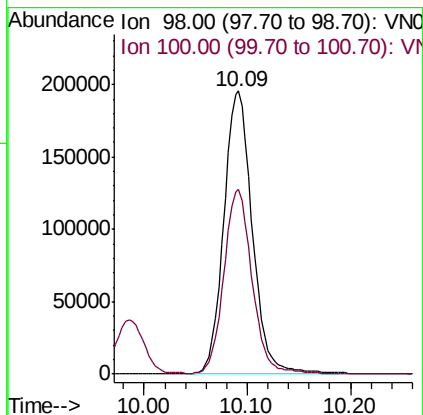
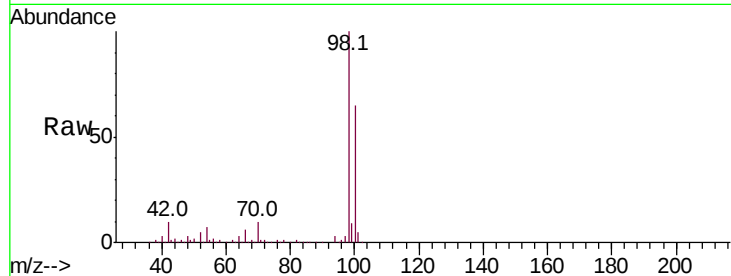
100 65.0 51.6 77.4

Manual Integrations

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#64

Chlorobenzene

Concen: 20.640 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055736.D

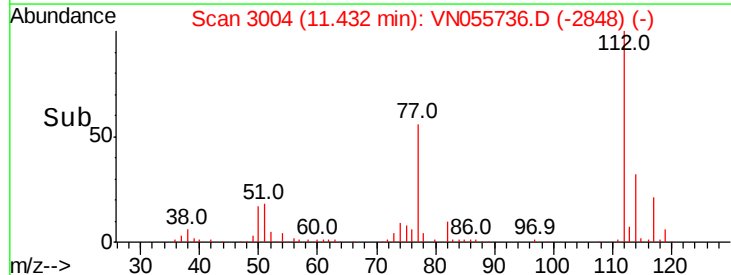
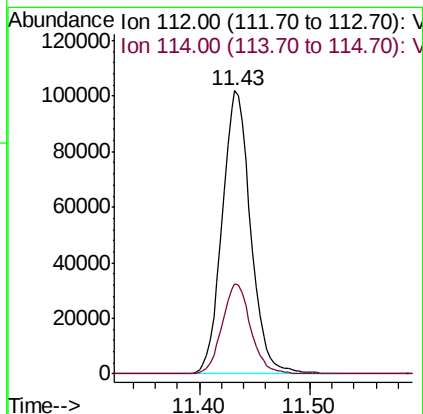
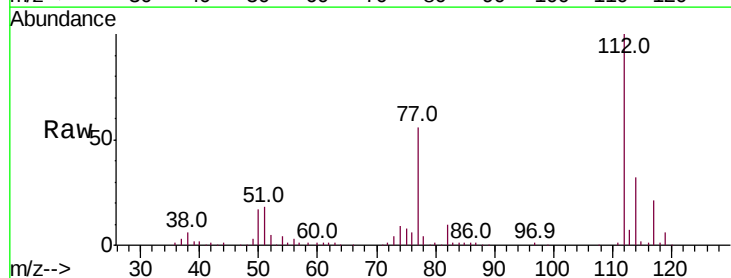
Acq: 22 May 2019 23:12

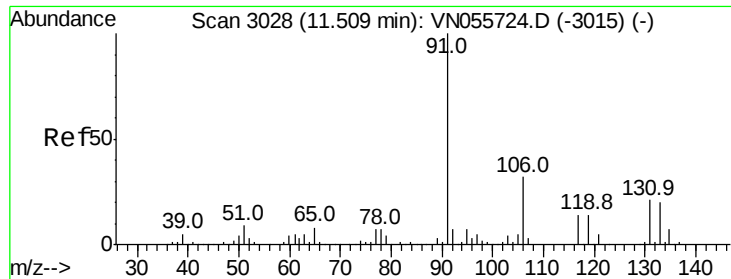
Tgt Ion: 112 Resp: 182644

Ion Ratio Lower Upper

112 100

114 31.8 25.4 38.0





#65

1,1,1,2-Tetrachloroethane

Concen: 20.867 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

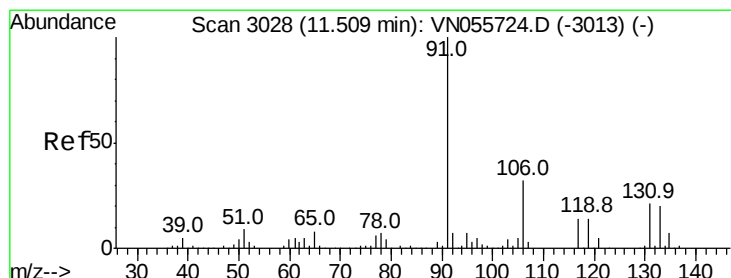
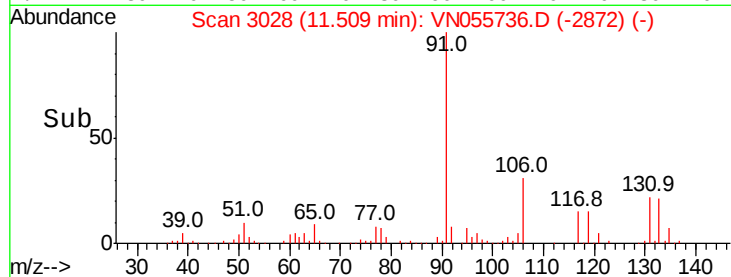
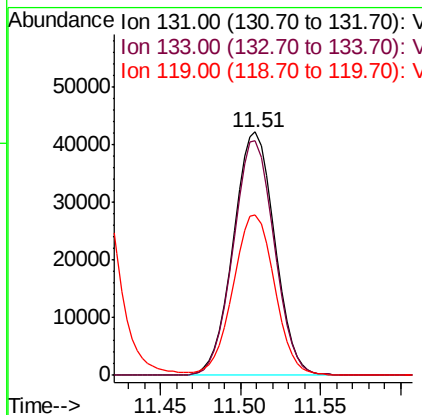
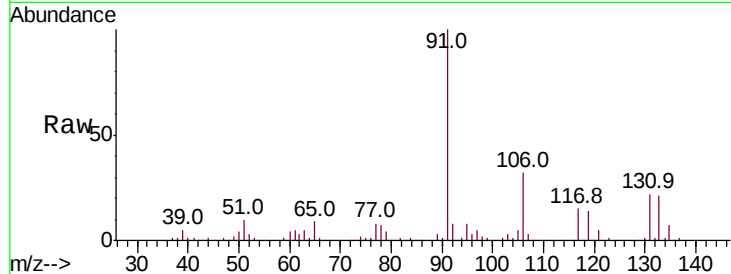
ClientSampleId :

VN0522WBSD01

Tot Ion:	131	Resp:	74399
Ion	Ratio	Lower	Upper
131	100		
133	95.4	0.0	188.8
119	66.3	0.0	133.6

Manual Integrations
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#66

Ethyl Benzene

Concen: 20.458 ug/l

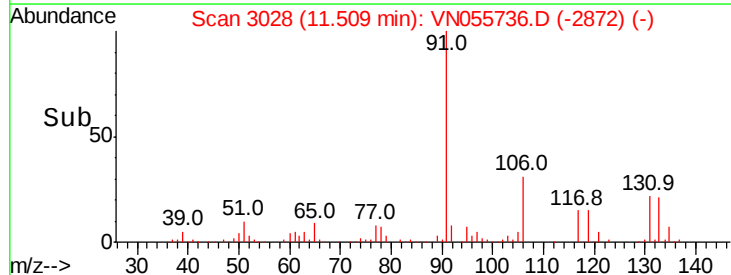
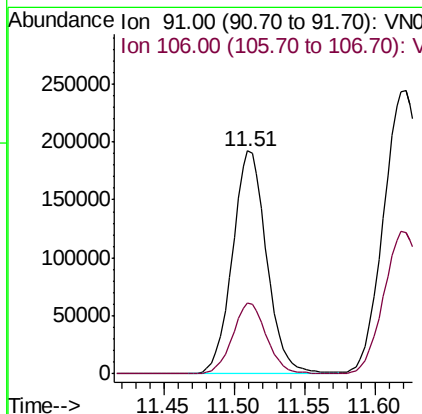
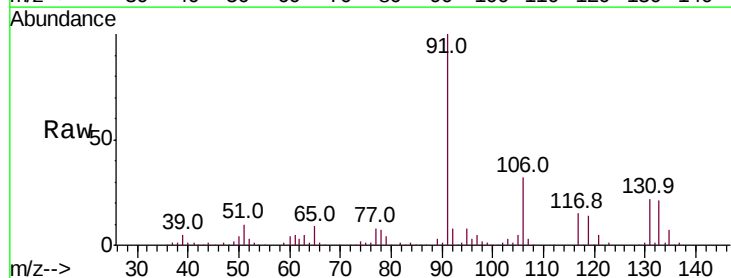
RT: 11.51 min Scan# 3028

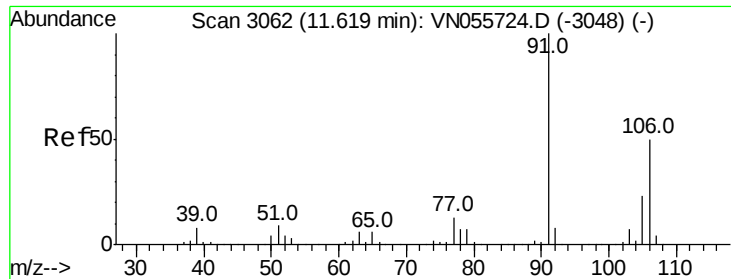
Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Tgt Ion:	91	Resp:	326074
Ion	Ratio	Lower	Upper
91	100		
106	31.9	25.6	38.4





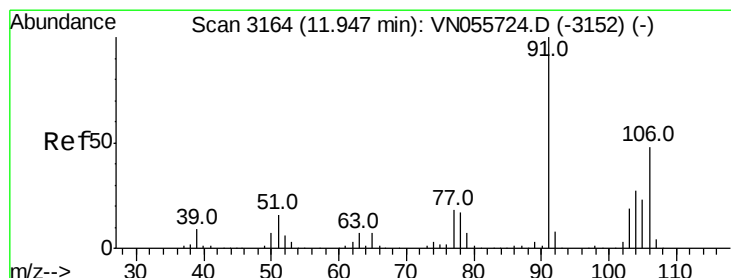
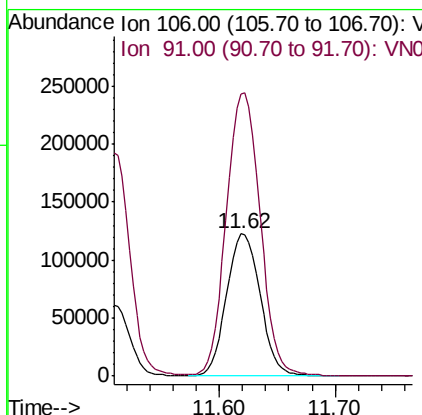
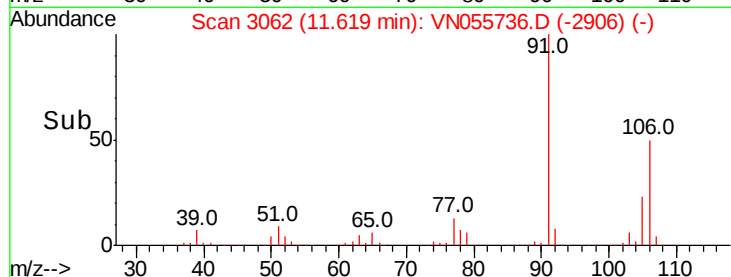
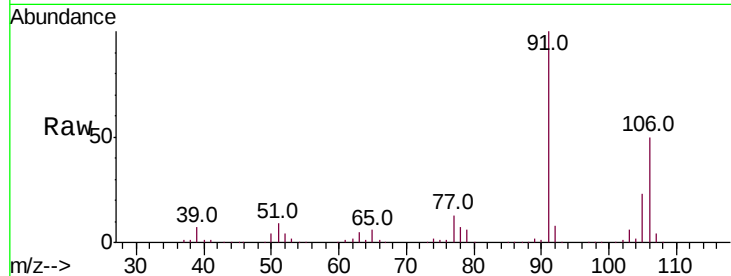
#67
m/p-Xvlenes
Concen: 40.977 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Tot Ion:106 Resp: 248104
Ion Ratio Lower Upper
106 100
91 200.2 159.5 239.3

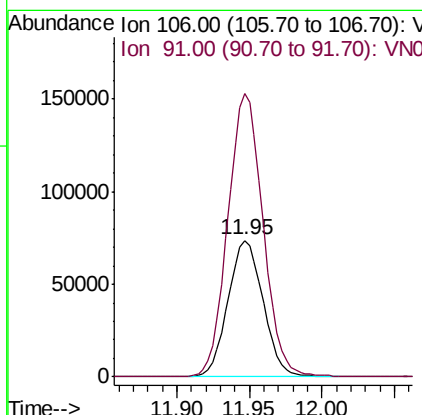
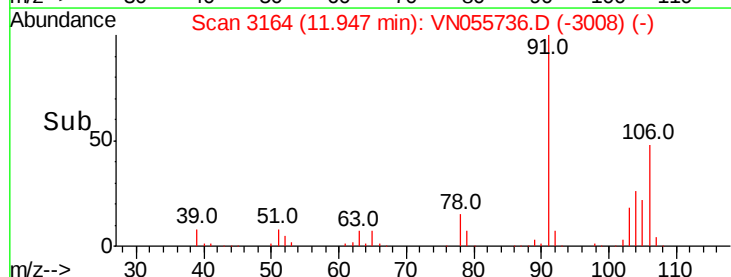
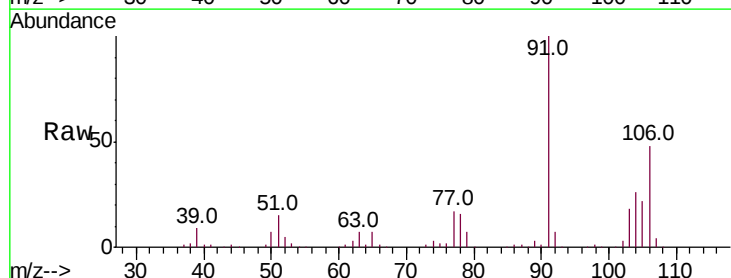
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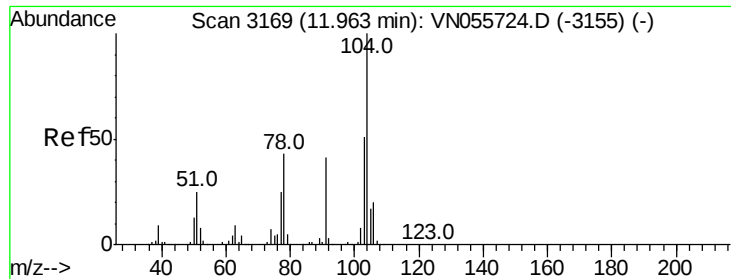
MMDadoda
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#68
o-Xylene
Concen: 20.753 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Tgt Ion:106 Resp: 124343
Ion Ratio Lower Upper
106 100
91 207.5 105.4 316.1





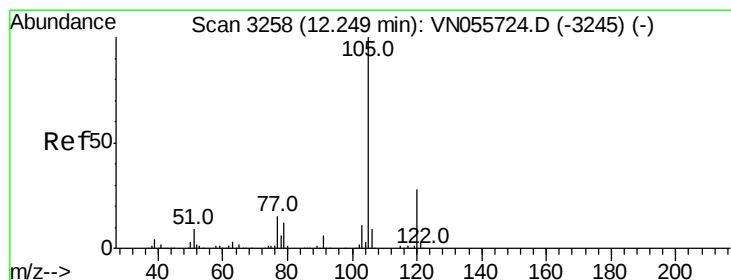
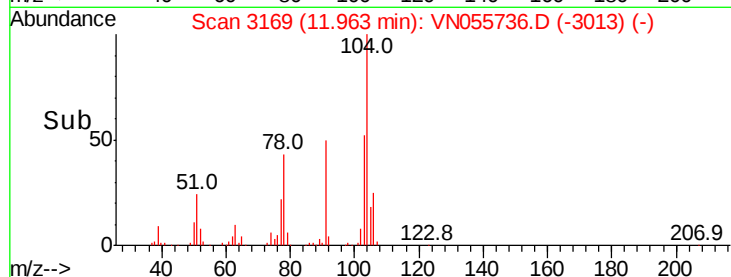
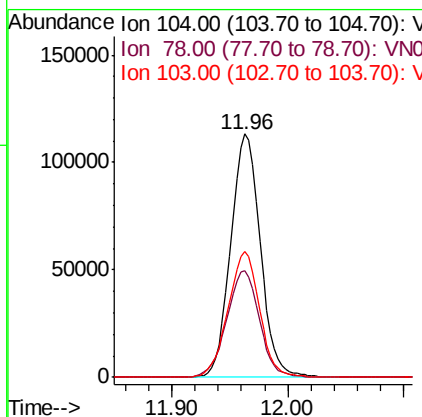
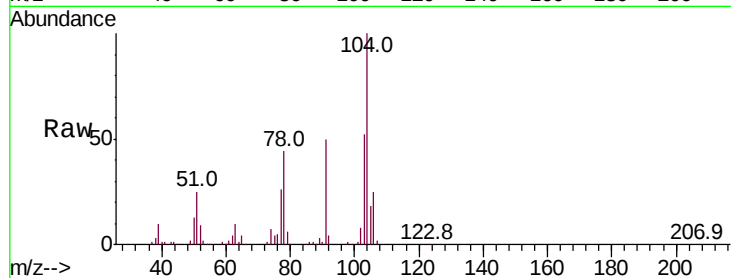
#69
Stvrene
Concen: 20.209 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
104	100	199770		
78	48.4		38.7	58.1
103	55.1		45.0	67.6

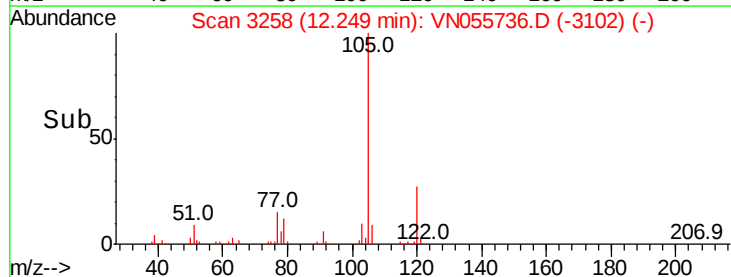
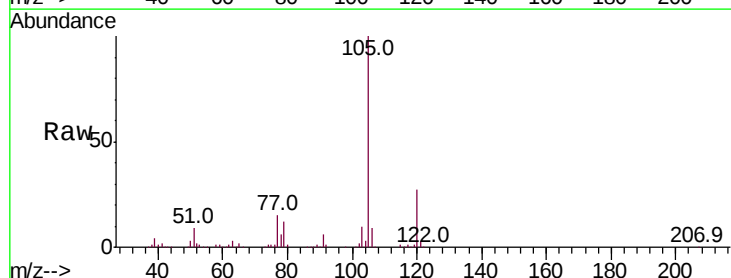
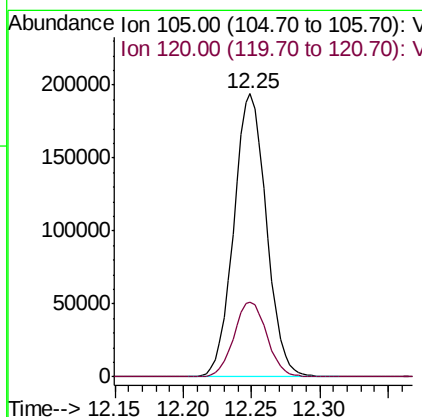
Manual Integrations
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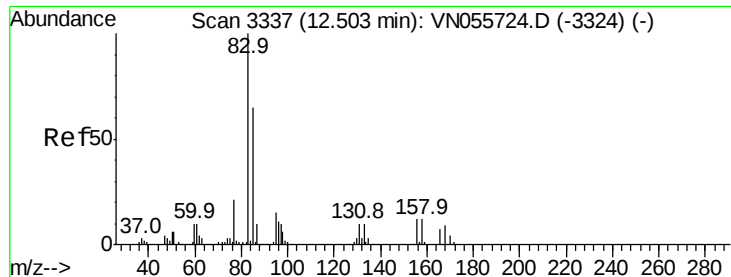
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5/23/2019 12:30:00 PM



#70
Isopropylbenzene
Concen: 20.527 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	321801		
120	26.9		19.2	35.6





#71

1,1,2,2-Tetrachloroethane

Concen: 20.316 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

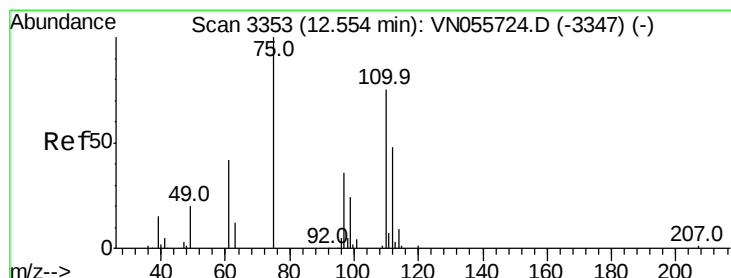
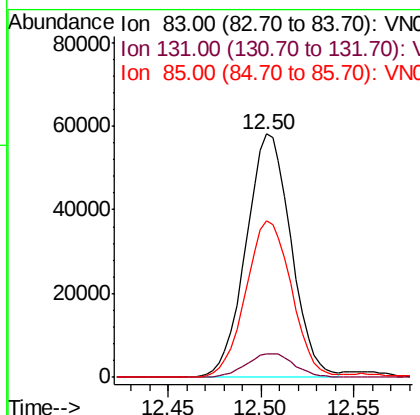
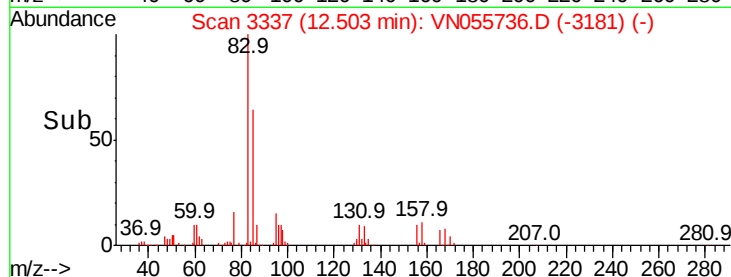
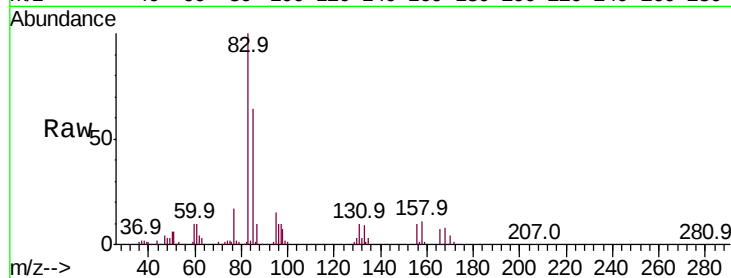
ClientSampleId :

VN0522WBSD01

Tot Ion:	83	Resp:	98014
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.3	15.8
85	65.5	32.3	96.9

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#72

1,2,3-Trichloropropane

Concen: 21.338 ug/l m

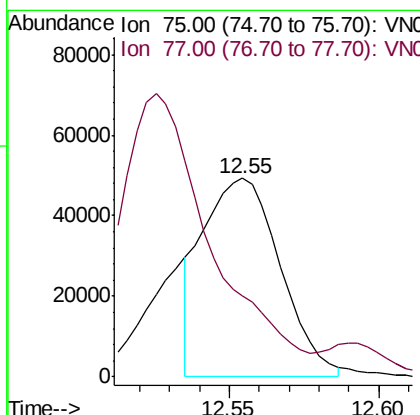
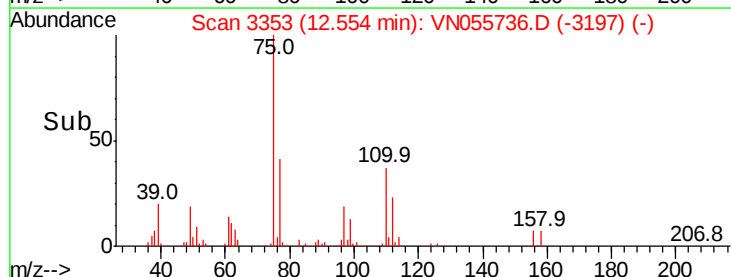
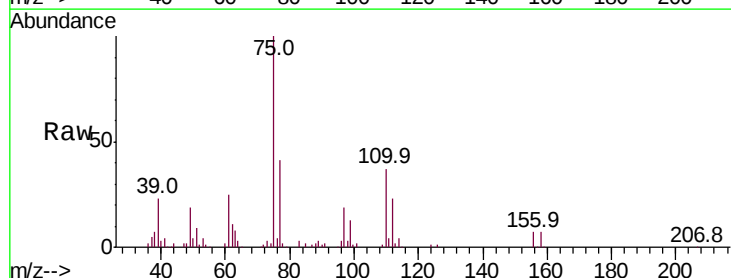
RT: 12.55 min Scan# 3353

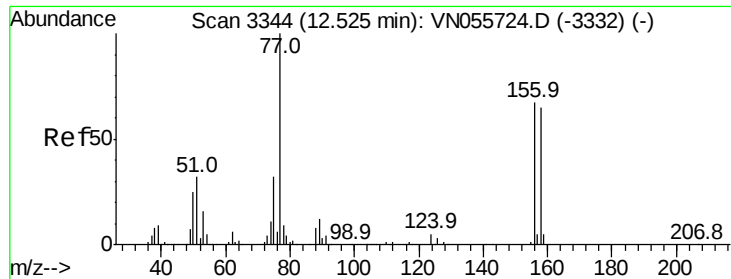
Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Tgt Ion:	75	Resp:	88602
Ion Ratio	Lower	Upper	
75	100		
77	172.1	0.0	349.8





#73

Bromobenzene

Concen: 19.594 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

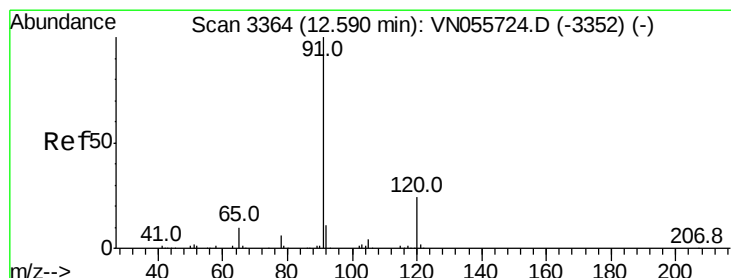
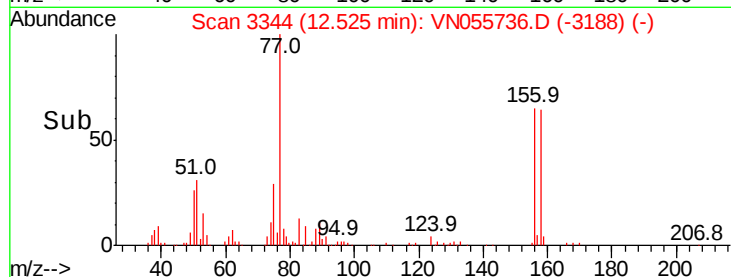
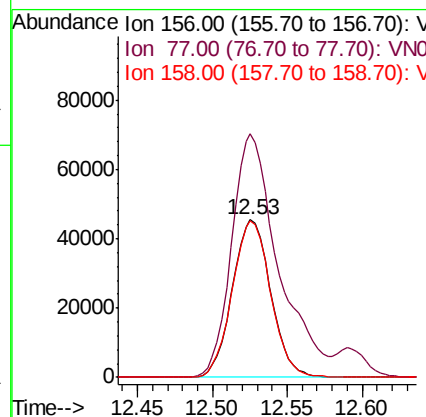
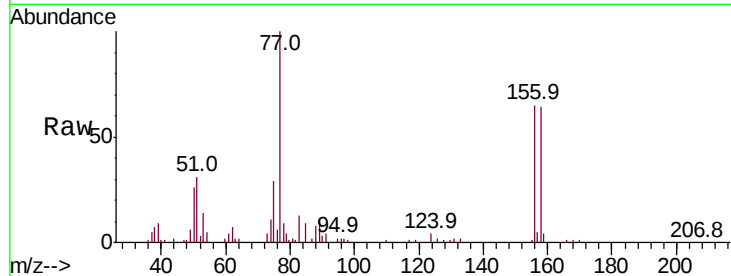
ClientSampleId :

VN0522WBSD01

Tot Ion:	156	Resp:	81261
Ion Ratio	Lower	Upper	
156	100		
77	187.6	0.0	368.0
158	99.1	0.0	195.0

Manual Integrations
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#74

n-propylbenzene

Concen: 19.761 ug/l

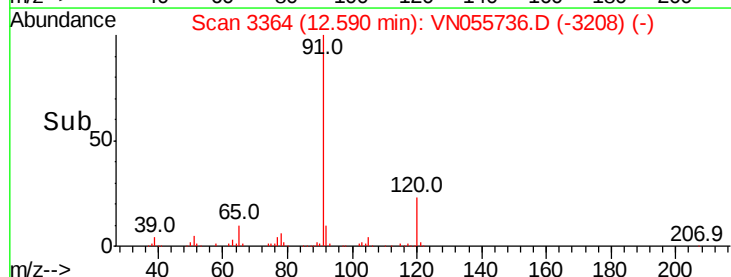
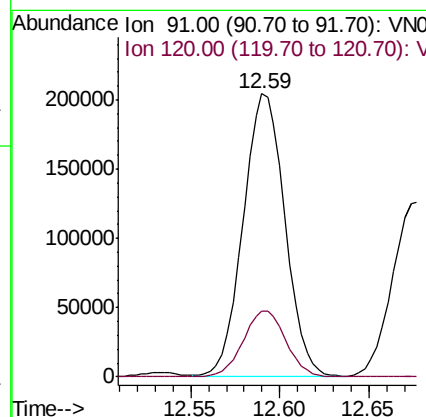
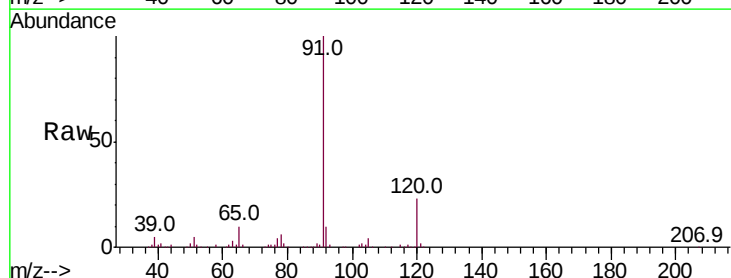
RT: 12.59 min Scan# 3364

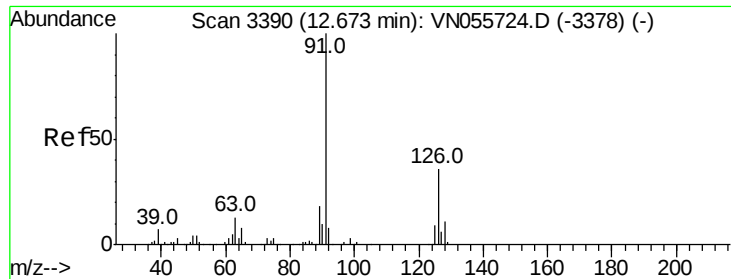
Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Tgt Ion:	91	Resp:	334102
Ion Ratio	Lower	Upper	
91	100		
120	23.8	0.0	47.4





#75

2-Chlorotoluene

Concen: 20.232 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

ClientSampled :

VN0522WBSD01

Tot Ion: 91 Resp: 208958

Ion Ratio Lower Upper

91 100

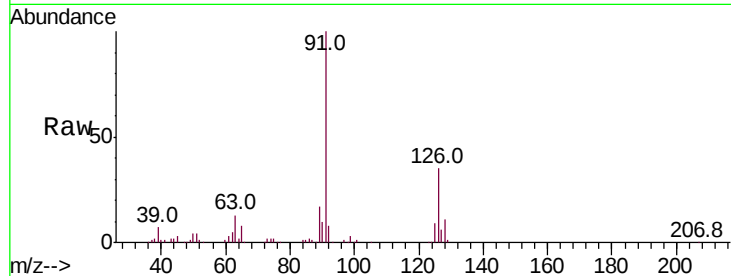
126 35.2 0.0 71.0

Manual Integrations

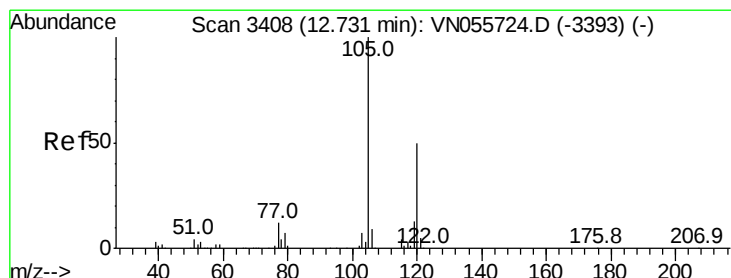
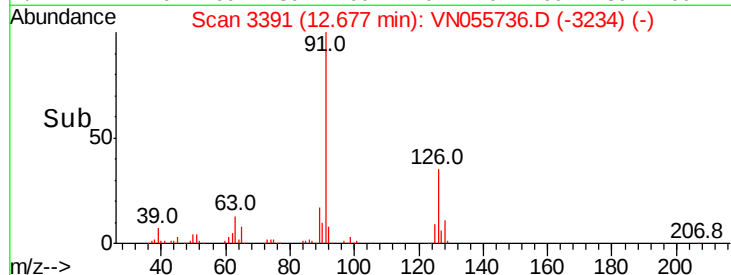
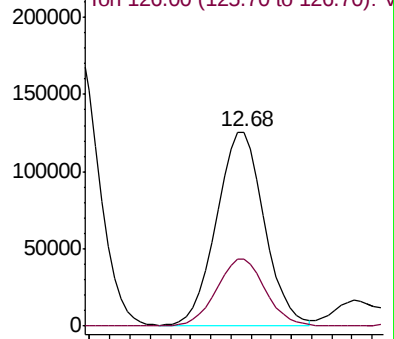
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5/23/2019 12:30:00 PM



Abundance Ion 91.00 (90.70 to 91.70): VN055724.D (-3378) (-)



#76

1,3,5-Trimethylbenzene

Concen: 20.122 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055736.D

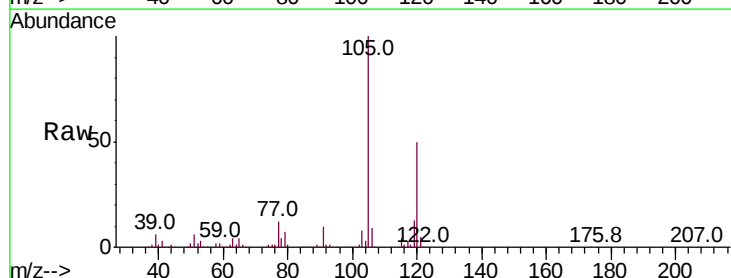
Acq: 22 May 2019 23:12

Tgt Ion: 105 Resp: 260741

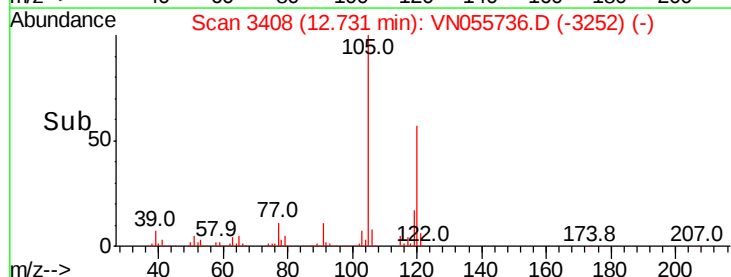
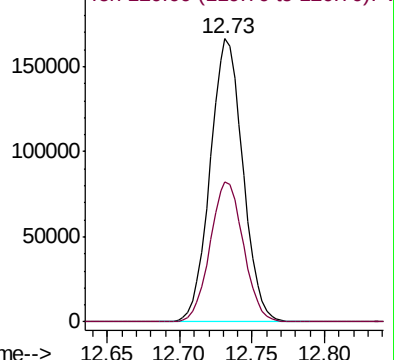
Ion Ratio Lower Upper

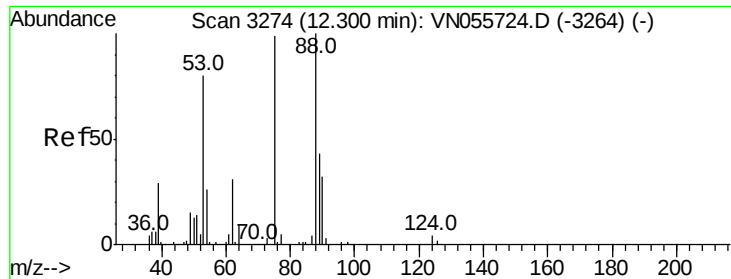
105 100

120 50.4 0.0 99.2



Abundance Ion 105.00 (104.70 to 105.70): VN055724.D (-3393) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 17.807 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

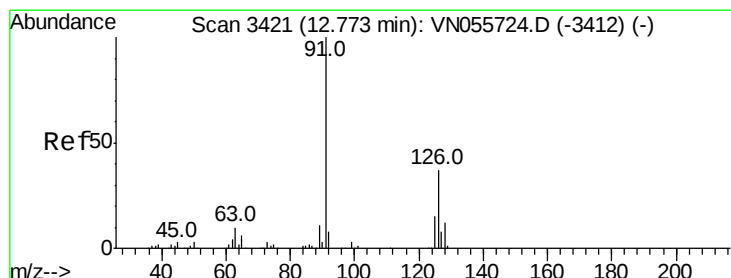
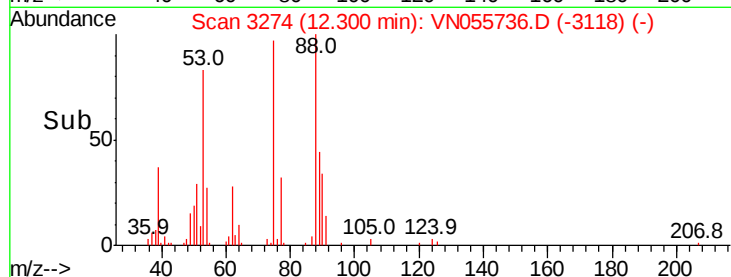
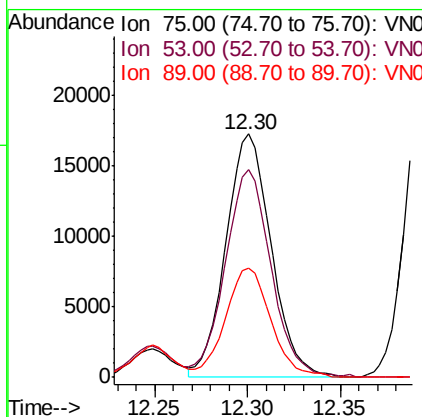
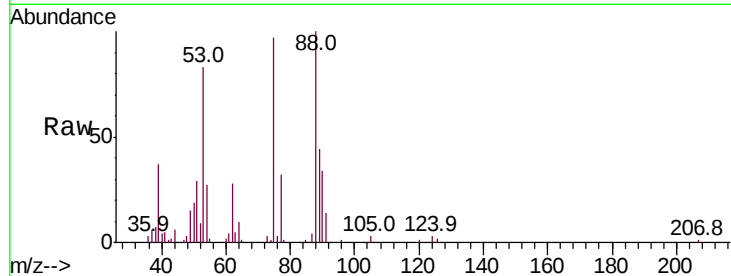
ClientSampleId :

VN0522WBSD01

Tot Ion:	75	Resp:	29370
Ion	Ratio	Lower	Upper
75	100		
53	84.4	40.1	120.3
89	45.1	22.6	67.8

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#78

4-Chlorotoluene

Concen: 19.733 ug/l

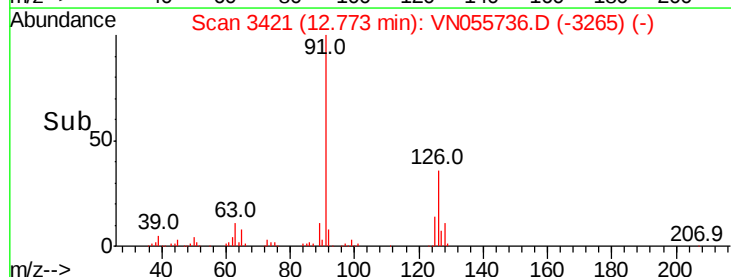
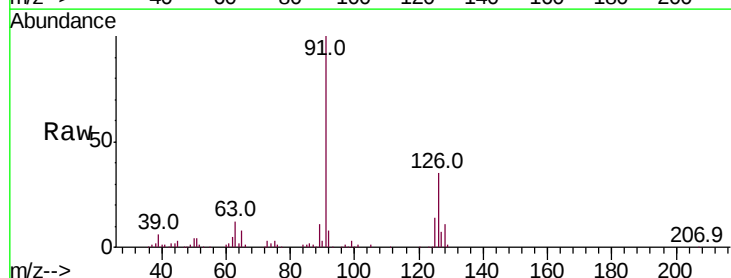
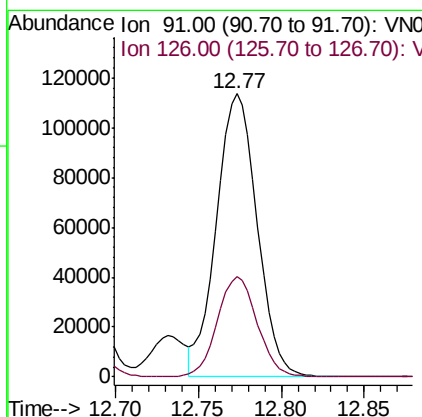
RT: 12.77 min Scan# 3421

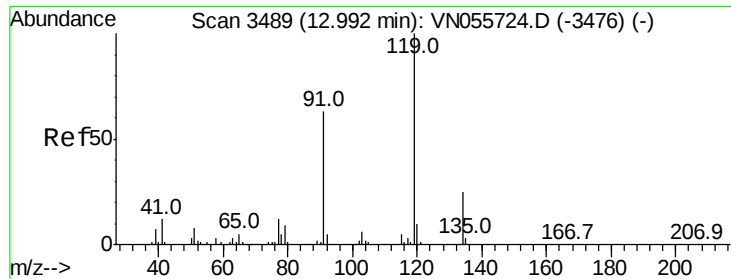
Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Tgt Ion:	91	Resp:	193152
Ion	Ratio	Lower	Upper
91	100		
126	34.8	0.0	69.0





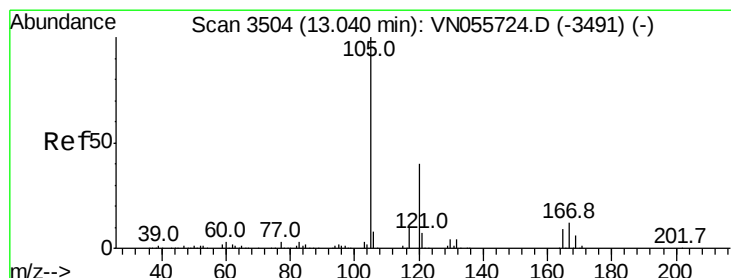
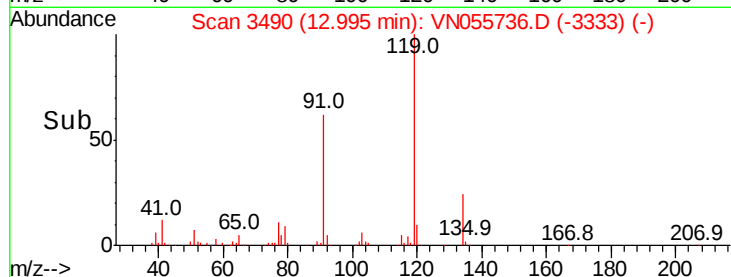
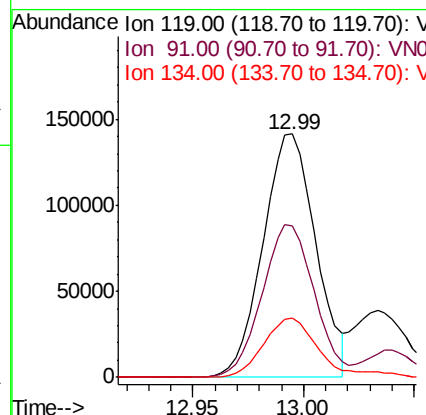
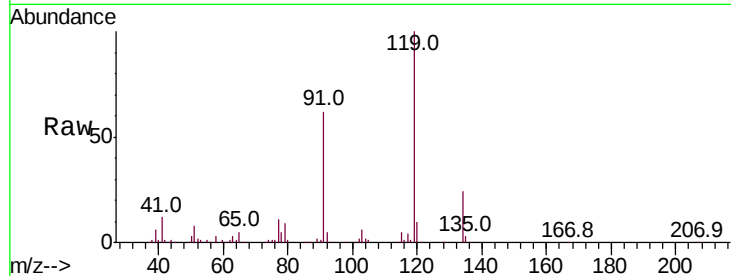
#79
tert-butylbenzene
Concen: 20.605 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	234735		
91	62.0	0.0	123.8	
134	25.8	0.0	52.6	

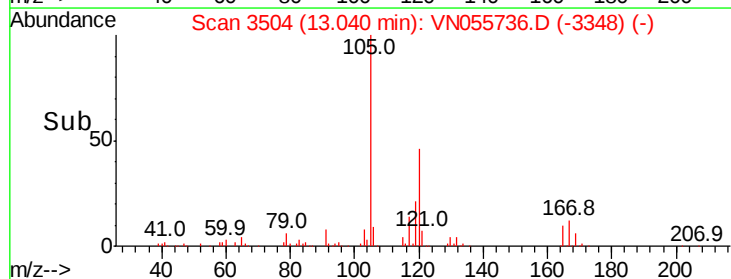
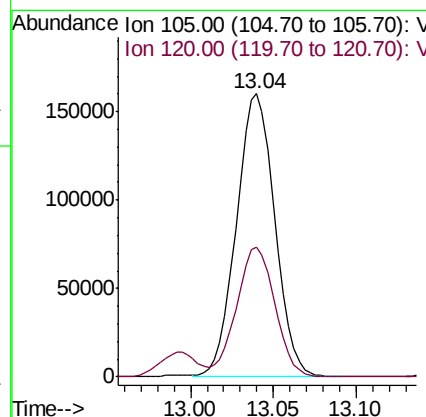
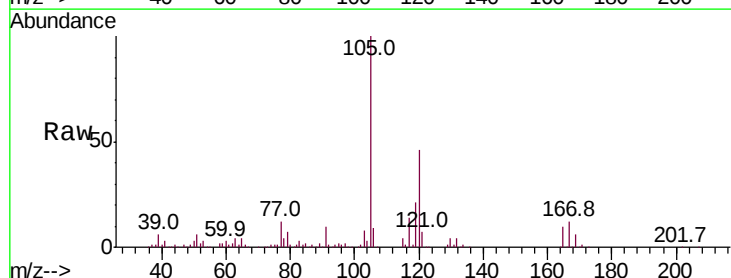
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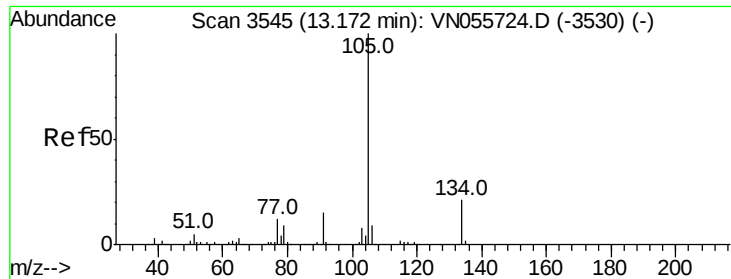
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#80
1,2,4-Trimethylbenzene
Concen: 20.058 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	258011		
120	45.8	0.0	93.6	





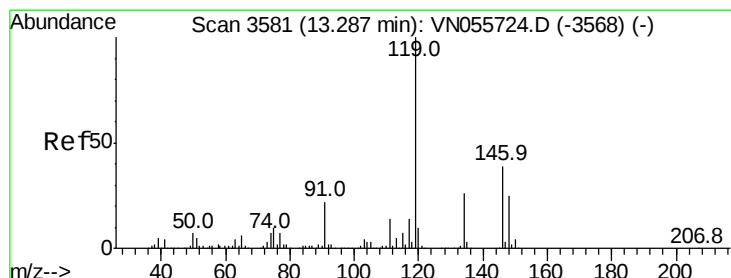
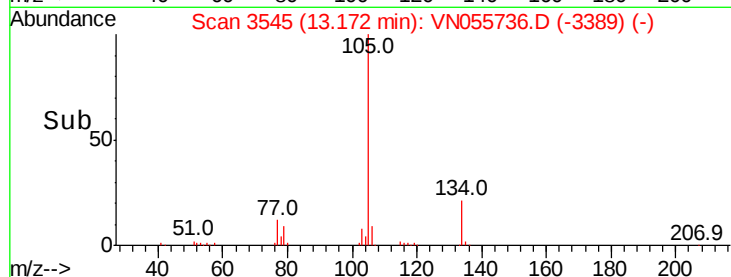
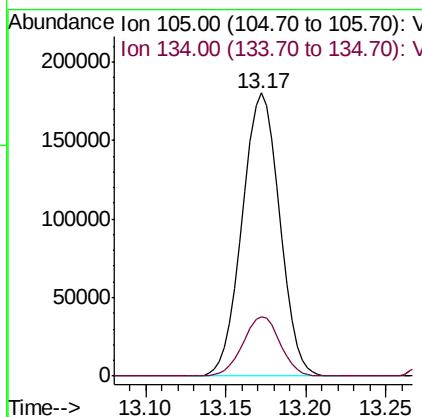
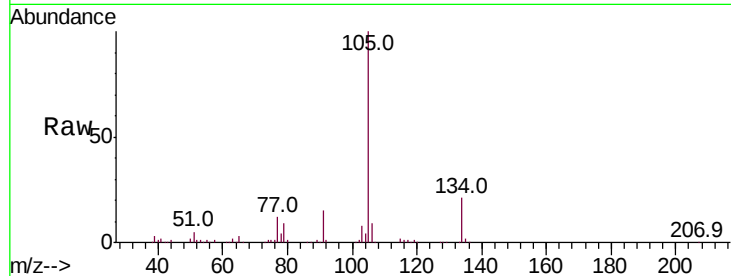
#81
 sec-Butylbenzene
 Concen: 19.889 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0522WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	287880		
134	20.8	0.0	41.4	

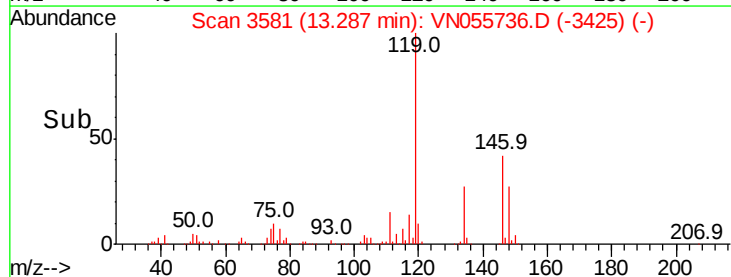
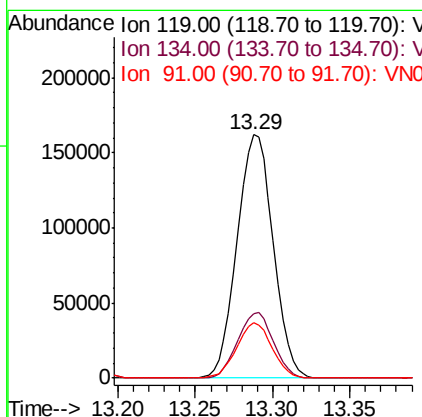
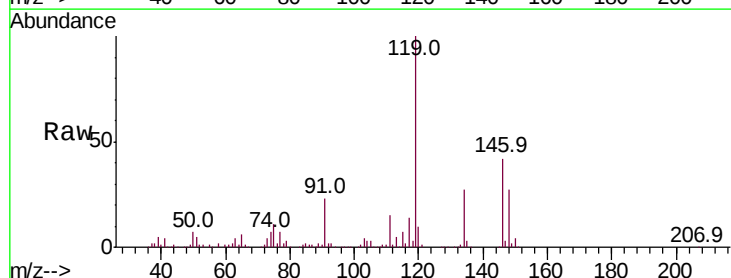
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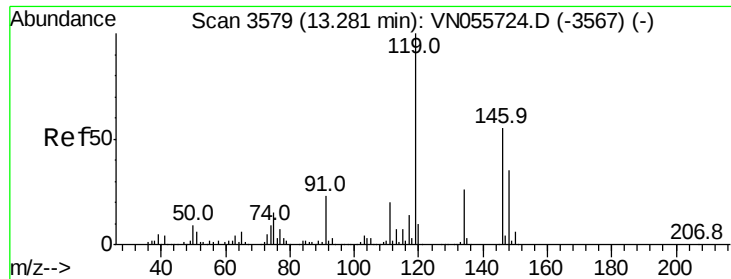
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#82
 p-Isopropyltoluene
 Concen: 19.769 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	263341		
134	26.7	0.0	52.0	
91	22.2	0.0	44.4	





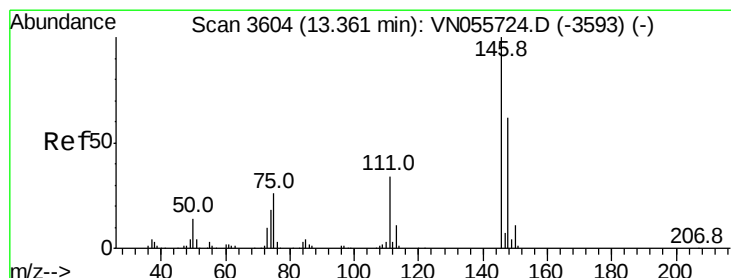
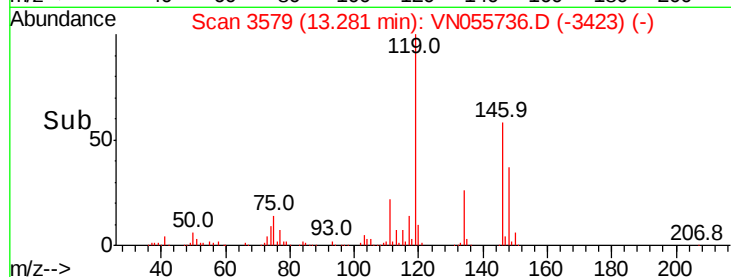
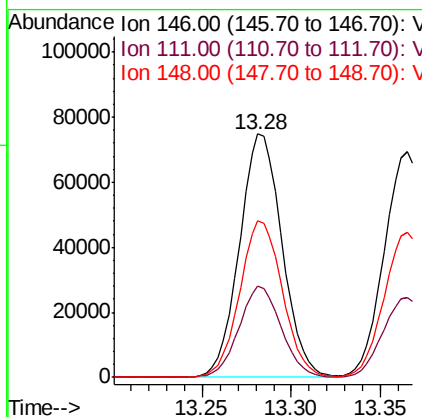
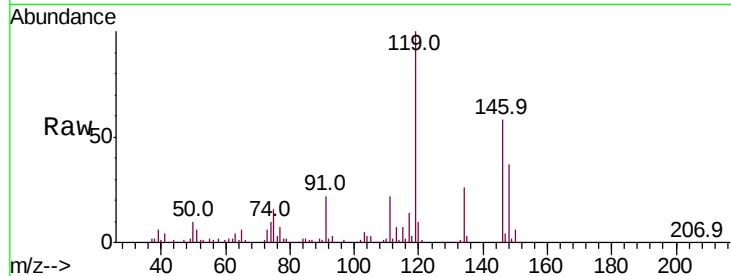
#83
 1,3-Dichlorobenzene
 Concen: 19.167 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0522WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	124611		
111	37.2	18.6	55.6	
148	64.6	32.2	96.6	

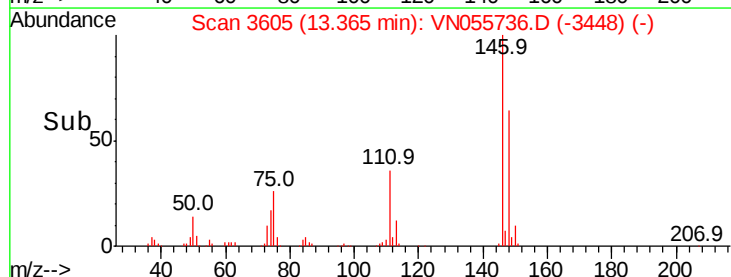
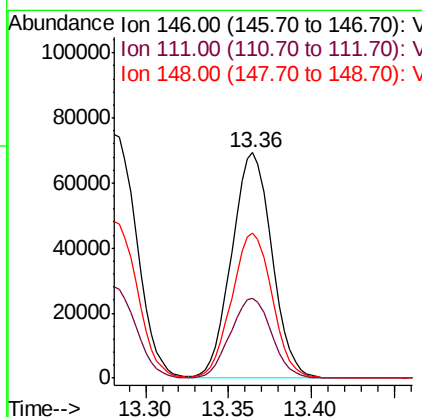
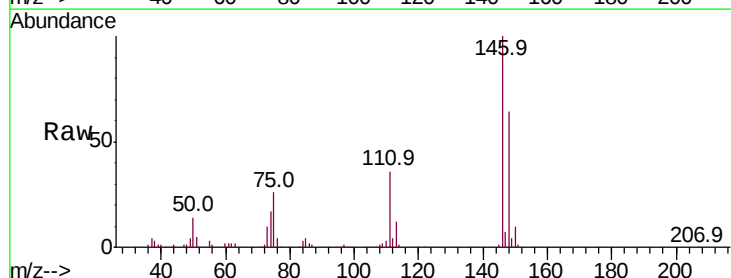
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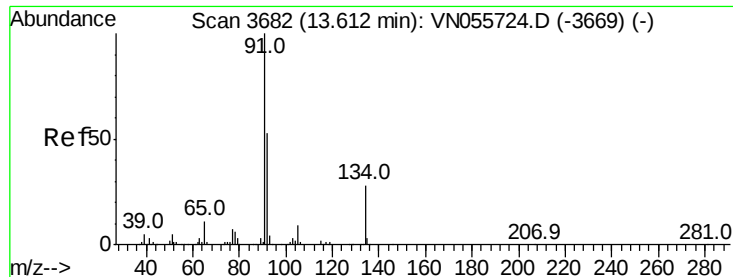
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#84
 1,4-Dichlorobenzene
 Concen: 18.920 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN055736.D
 Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	117142		
111	36.3	17.5	52.6	
148	64.8	31.8	95.4	





#85

n-Butylbenzene

Concen: 18.771 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

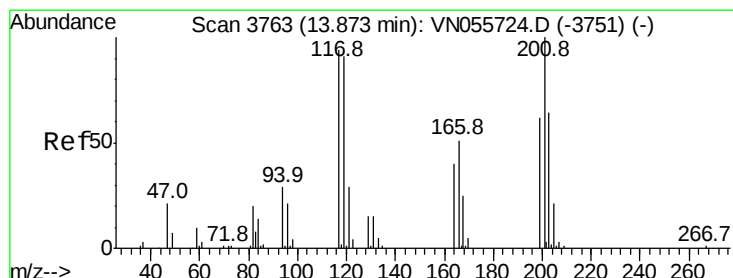
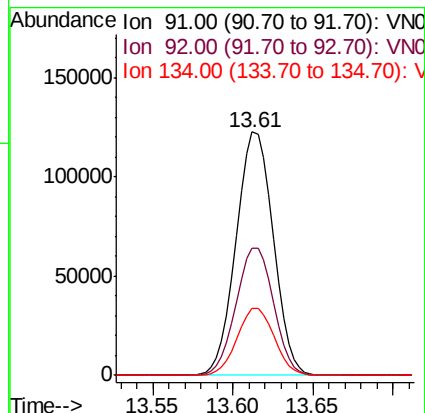
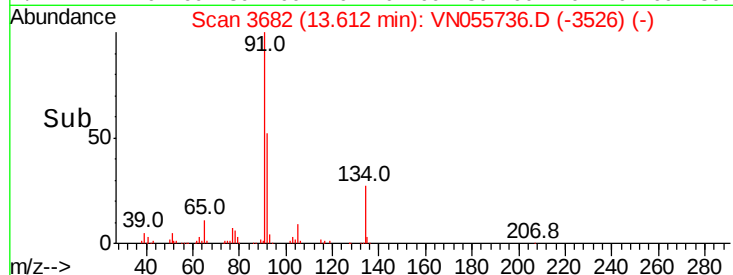
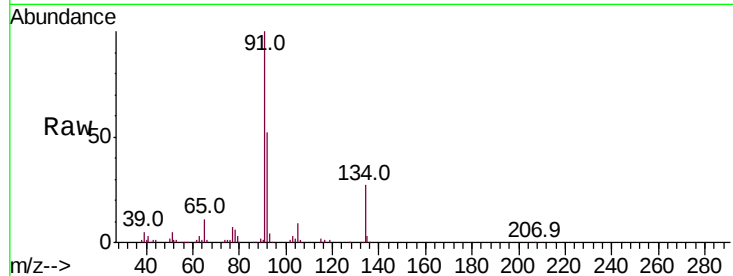
ClientSampleId :

VN0522WBSD01

Tot Ion:	91	Resp:	194525
Ion Ratio	Lower	Upper	
91	100		
92	52.9	0.0	106.8
134	27.3	0.0	55.2

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#86

Hexachloroethane

Concen: 19.986 ug/l

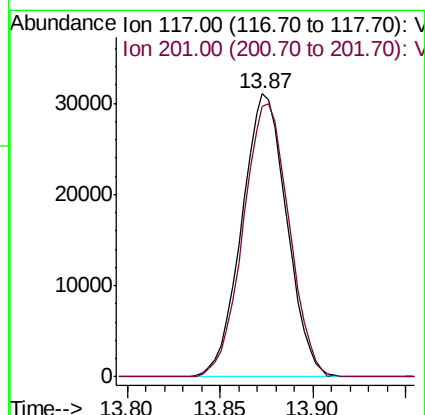
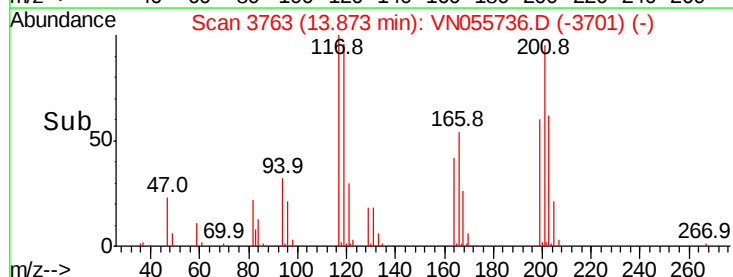
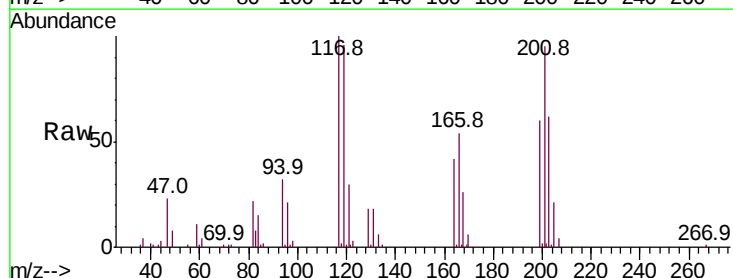
RT: 13.87 min Scan# 3763

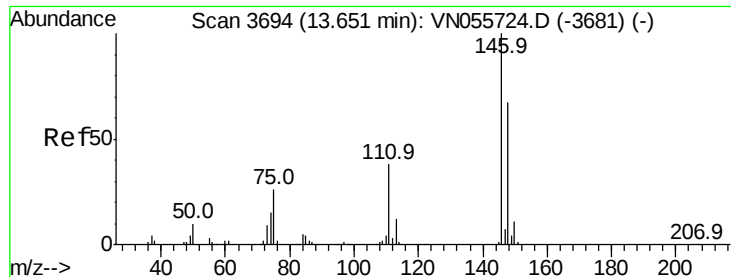
Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Tgt Ion:	117	Resp:	52365
Ion Ratio	Lower	Upper	
117	100		
201	97.9	52.5	157.6





#87

1,2-Dichlorobenzene

Concen: 19.662 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

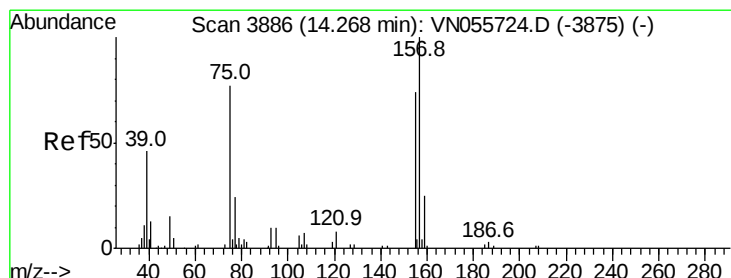
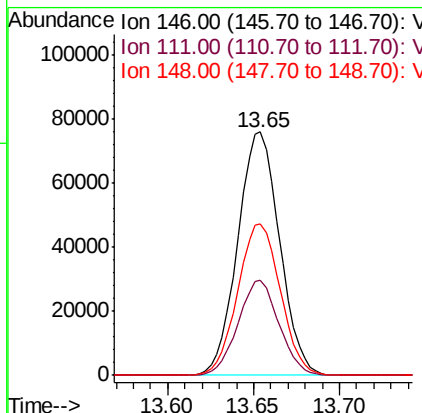
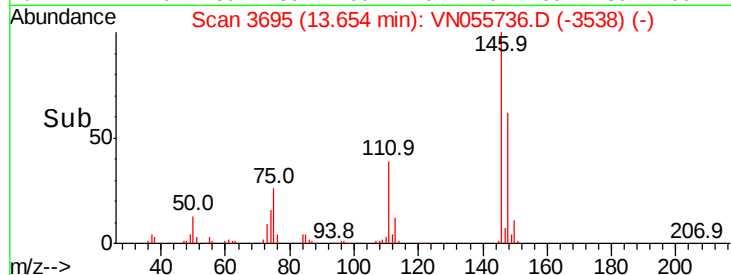
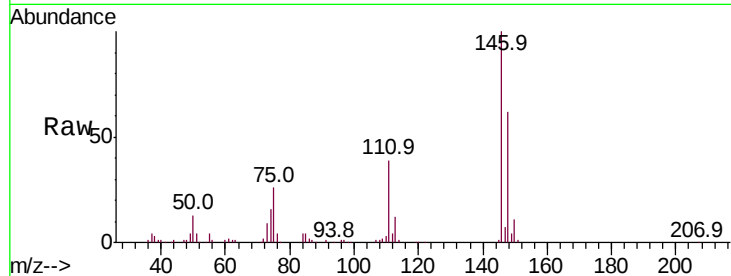
ClientSampleId :

VN0522WBSD01

Tot Ion:	146	Resp:	128719
Ion Ratio	Lower	Upper	
146	100		
111	38.1	19.2	57.6
148	63.4	32.7	98.1

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#88

1,2-Dibromo-3-Chloropropane

Concen: 19.168 ug/l

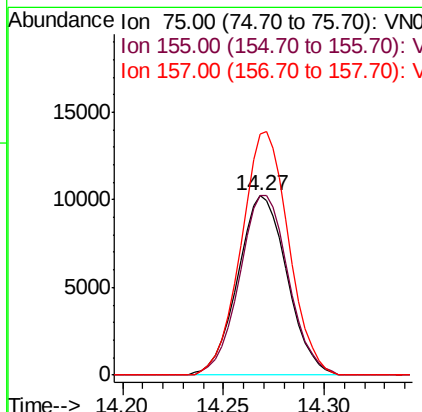
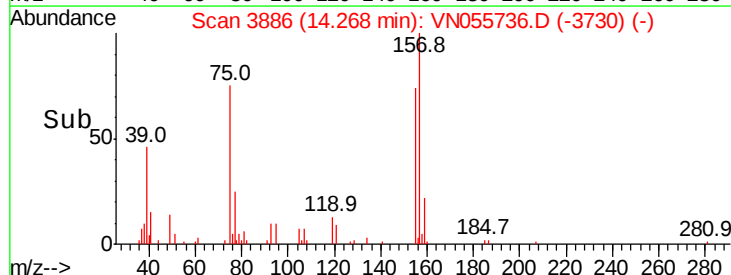
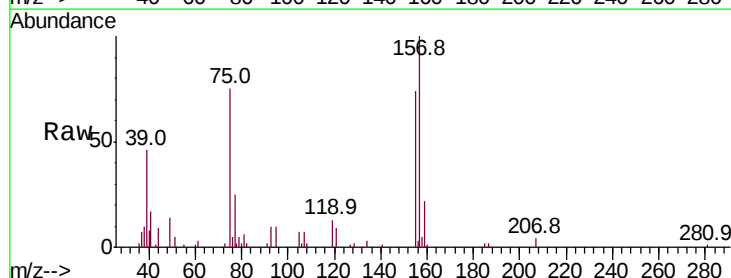
RT: 14.27 min Scan# 3886

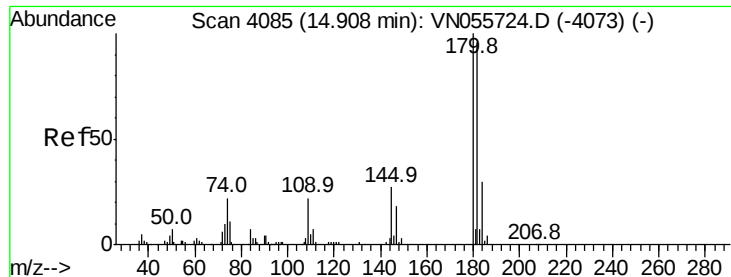
Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Tgt Ion:	75	Resp:	17527
Ion Ratio	Lower	Upper	
75	100		
155	99.6	78.4	117.6
157	130.9	105.0	157.4





#89

1,2,4-Trichlorobenzene

Concen: 16.318 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Instrument :

MSVOA_N

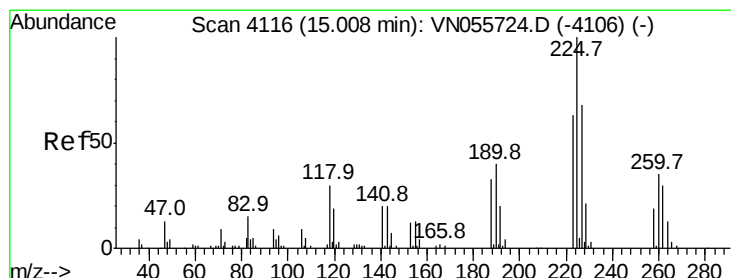
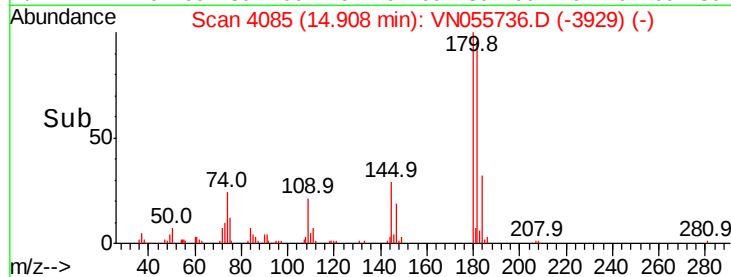
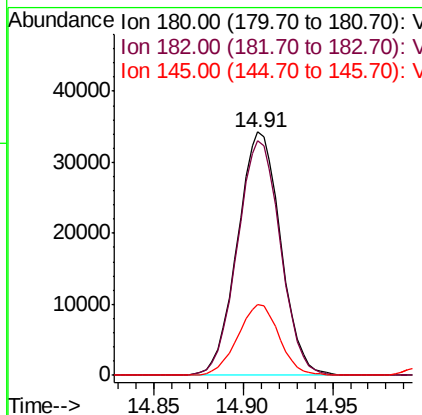
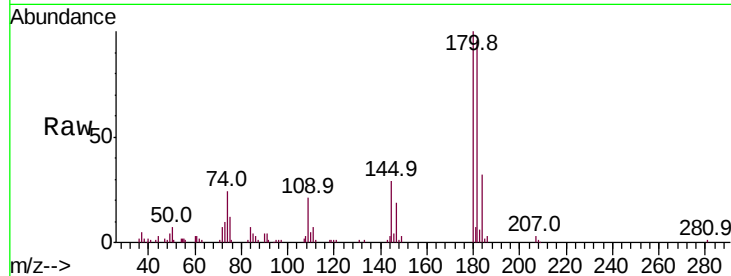
ClientSampleId :

VN0522WBSD01

Tot Ion:	180	Resp:	57663
Ion Ratio	Lower	Upper	
180	100		
182	96.1	76.1	114.1
145	27.9	21.8	32.8

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#90

Hexachlorobutadiene

Concen: 17.441 ug/l

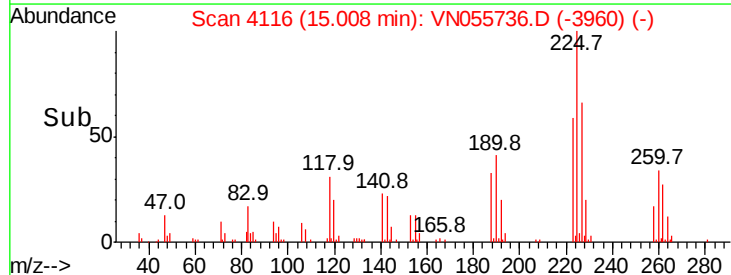
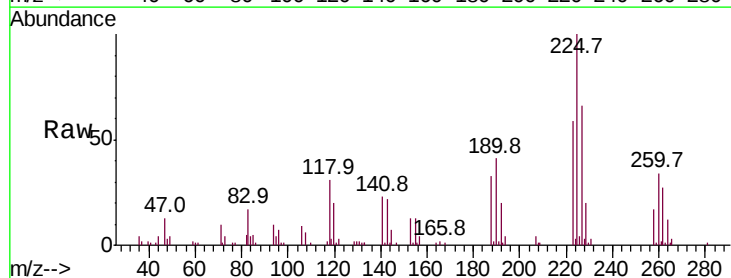
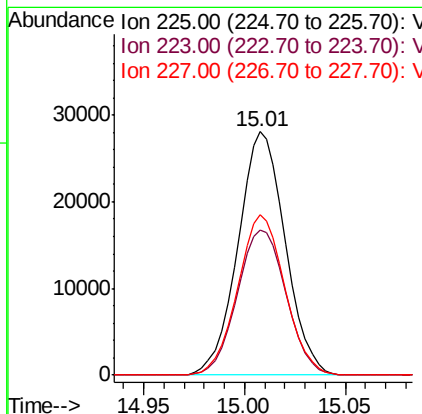
RT: 15.01 min Scan# 4116

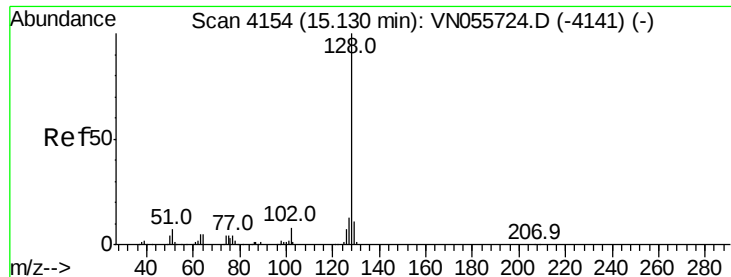
Delta R.T. 0.00 min

Lab File: VN055736.D

Acq: 22 May 2019 23:12

Tgt Ion:	225	Resp:	45986
Ion Ratio	Lower	Upper	
225	100		
223	61.7	0.0	126.0
227	65.8	0.0	133.0





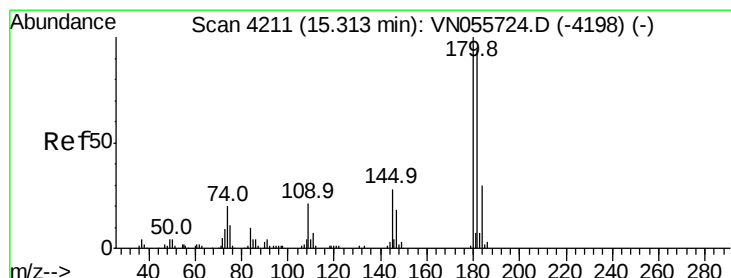
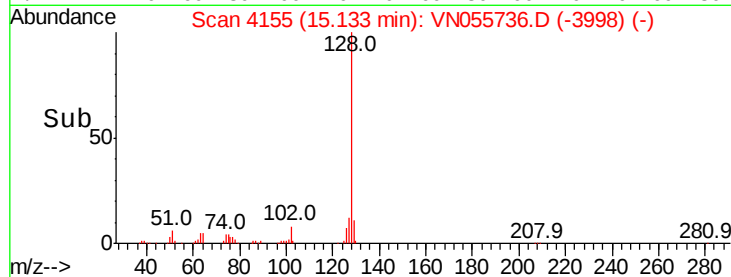
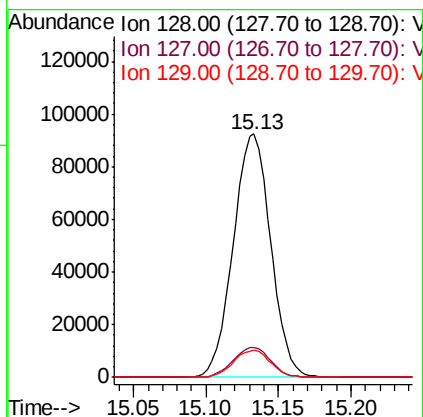
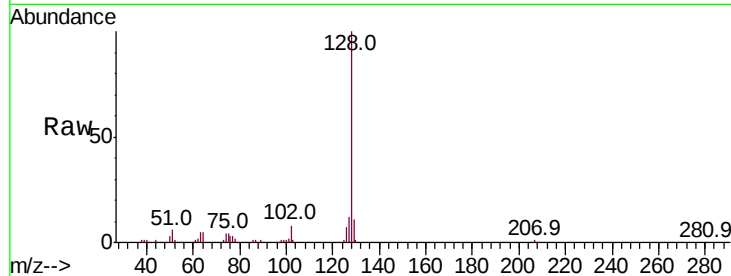
#91
Naphthalene
Concen: 17.174 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.0	15.0
129	11.2	8.7	13.1

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#92
1,2,3-Trichlorobenzene
Concen: 16.938 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055736.D
Acq: 22 May 2019 23:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.7	0.0	188.6
145	29.4	0.0	56.8

