

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032319\
 Data File : VN054636.D
 Acq On : 24 Mar 2019 6:38
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 10:09:18 AM

Quant Time: Mar 25 05:53:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	428329	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	744469	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	649276	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	292751	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	312015	58.56	ug/l	0.00
Spiked Amount 50.000			Recovery =	117.12%		
35) Dibromofluoromethane	7.59	113	244010	50.88	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.76%		
50) Toluene-d8	10.09	98	897728	49.79	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.58%		
62) 4-Bromofluorobenzene	12.40	95	314732	51.30	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.60%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	219899	53.703	ug/l	99
3) Chloromethane	2.06	50	311497	55.912	ug/l	100
4) Vinyl Chloride	2.19	62	282858	50.569	ug/l	100
5) Bromomethane	2.57	94	155547	43.006	ug/l	99
6) Chloroethane	2.71	64	158686	47.299	ug/l	99
7) Trichlorofluoromethane	3.02	101	343463	50.563	ug/l	100
8) Diethyl Ether	3.41	74	124466	47.643	ug/l	69
9) 1,1,2-Trichlorotrifluoroet	3.75	101	171634	42.993	ug/l	95
10) Methyl Iodide	3.94	142	271309	46.200	ug/l #	90
11) Tert butyl alcohol	4.82	59	105106	325.857	ug/l	99
12) 1,1-Dichloroethene	3.73	96	180030	43.576	ug/l #	72
13) Acrolein	3.60	56	45634	102.519	ug/l	99
14) Allyl chloride	4.31	41	421732	54.209	ug/l #	91
15) Acrylonitrile	5.00	53	511616	318.510	ug/l	99
16) Acetone	3.82	43	368954	230.339	ug/l #	83
17) Carbon Disulfide	4.04	76	510140	46.084	ug/l	99
18) Methyl Acetate	4.33	43	237101	66.411	ug/l #	88
19) Methyl tert-butyl Ether	5.05	73	710334	58.914	ug/l	95
20) Methylene Chloride	4.55	84	256727	54.371	ug/l #	80
21) trans-1,2-Dichloroethene	5.03	96	232500	55.113	ug/l #	84
22) Diisopropyl ether	5.96	45	944718	61.564	ug/l #	92
23) Vinyl Acetate	5.90	43	3403627	314.050	ug/l #	92
24) 1,1-Dichloroethane	5.84	63	483896	58.566	ug/l	97
25) 2-Butanone	6.85	43	652427	317.965	ug/l #	88
26) 2,2-Dichloropropane	6.82	77	195287	33.157	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	279775	55.601	ug/l	92
28) Bromochloromethane	7.19	49	245155	60.280	ug/l #	73
29) Tetrahydrofuran	7.22	42	450720	338.496	ug/l #	83
30) Chloroform	7.37	83	465563	57.738	ug/l	100
31) Cyclohexane	7.65	56	438037	55.534	ug/l	85
32) 1,1,1-Trichloroethane	7.57	97	376465	56.592	ug/l	95
36) 1,1-Dichloropropene	7.79	75	353990	50.855	ug/l	94
37) Ethyl Acetate	6.94	43	289934	58.563	ug/l	96
38) Carbon Tetrachloride	7.77	117	320081	47.319	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	355078	44.594	ug/l	90
40) Benzene	8.04	78	1034450	51.970	ug/l	100
41) Methacrylonitrile	7.18	41	167339	55.424	ug/l	89
42) 1,2-Dichloroethane	8.12	62	378200	52.173	ug/l	97
43) Isopropyl Acetate	8.17	43	492799	58.939	ug/l #	94
44) Trichloroethene	8.83	130	269046	48.617	ug/l	92
45) 1,2-Dichloropropane	9.12	63	295301	55.249	ug/l	99
46) Dibromomethane	9.21	93	166638	52.260	ug/l	91
47) Bromodichloromethane	9.40	83	343000	51.832	ug/l	97
48) Methyl methacrylate	9.20	41	258718	57.010	ug/l #	86
49) 1,4-Dioxane	9.20	88	58796	1158.912	ug/l #	85
51) 4-Methyl-2-Pentanone	9.99	43	1427624	308.089	ug/l	93
52) Toluene	10.16	92	618448	50.517	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	311212	44.823	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	382686	50.435	ug/l	92
55) 1,1,2-Trichloroethane	10.56	97	235017	53.404	ug/l	96
56) Ethyl methacrylate	10.43	69	335492	56.799	ug/l #	85
57) 1,3-Dichloropropane	10.71	76	416247	54.413	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	609566	250.621	ug/l	89
59) 2-Hexanone	10.75	43	909315	300.427	ug/l	91
60) Dibromochloromethane	10.90	129	237600	50.739	ug/l	96
61) 1,2-Dibromoethane	11.00	107	232612	53.466	ug/l	99
64) Tetrachloroethene	10.63	164	263037	48.842	ug/l	97
65) Chlorobenzene	11.43	112	657403	49.783	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	243345	51.340	ug/l	99
67) Ethyl Benzene	11.51	91	1172531	50.266	ug/l	98
68) m/p-Xylenes	11.62	106	869493	98.408	ug/l	95
69) o-Xylene	11.95	106	430828	49.929	ug/l	97
70) Styrene	11.96	104	724588	51.710	ug/l	97
71) Bromoform	12.13	173	149804	46.027	ug/l #	99
73) Isopropylbenzene	12.25	105	1122379	47.578	ug/l	99
74) N-amyl acetate	12.07	43	421721	62.172	ug/l	91
75) 1,1,2,2-Tetrachloroethane	12.50	83	298541	55.438	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	266843m	57.441	ug/l	
77) Bromobenzene	12.53	156	289348	49.455	ug/l	85
78) n-propylbenzene	12.59	91	1237336	48.370	ug/l	97
79) 2-Chlorotoluene	12.67	91	768662	48.186	ug/l	94
80) 1,3,5-Trimethylbenzene	12.73	105	930219	48.112	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	51999	39.312	ug/l #	76
82) 4-Chlorotoluene	12.77	91	763006	49.346	ug/l	95
83) tert-Butylbenzene	12.99	119	808761	48.056	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	922022	48.601	ug/l	97
85) sec-Butylbenzene	13.17	105	1004816	47.895	ug/l	97
86) p-Isopropyltoluene	13.29	119	889476	47.390	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	472333	48.716	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	458690	48.623	ug/l	98
89) n-Butylbenzene	13.61	91	707755	48.224	ug/l	98
90) Hexachloroethane	13.87	117	139810	47.988	ug/l	89
91) 1,2-Dichlorobenzene	13.65	146	472925	50.359	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	45751	57.922	ug/l	84

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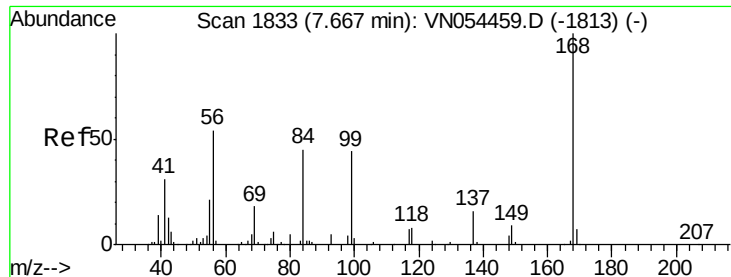
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	241774	51.644	ug/l	99
94) Hexachlorobutadiene	15.01	225	136180	51.866	ug/l	99
95) Naphthalene	15.13	128	592620	56.752	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	249314	53.508	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

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Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 428329

Ion Ratio Lower Upper

168 100

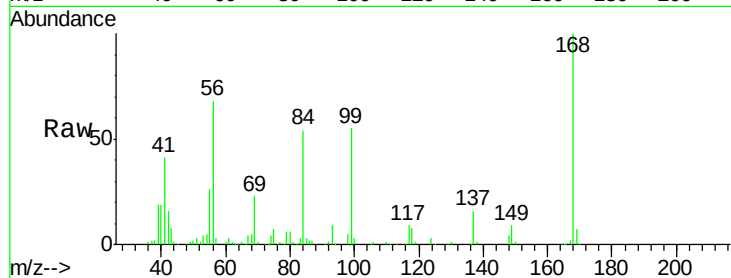
99 54.2 37.1 55.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

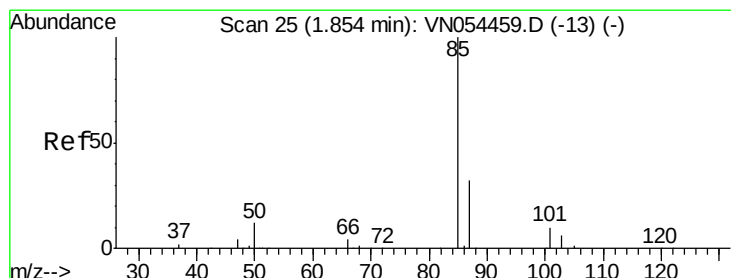
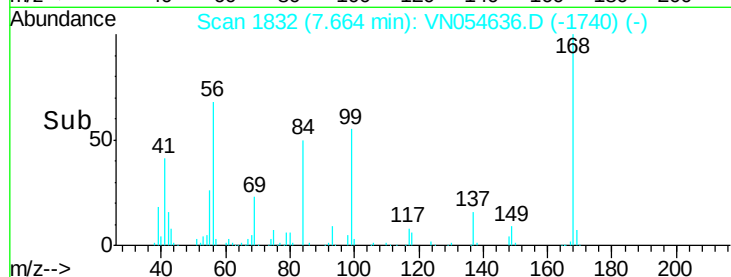
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 53.703 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN054636.D

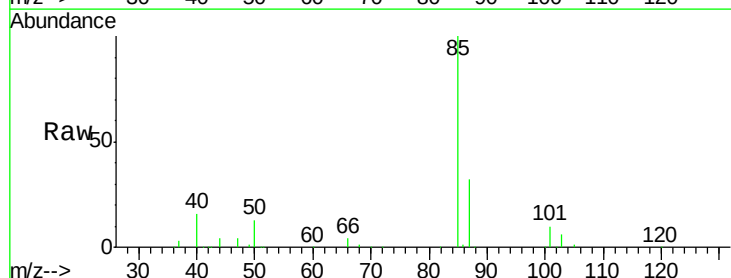
Acq: 24 Mar 2019 6:38

Tgt Ion: 85 Resp: 219899

Ion Ratio Lower Upper

85 100

87 32.3 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

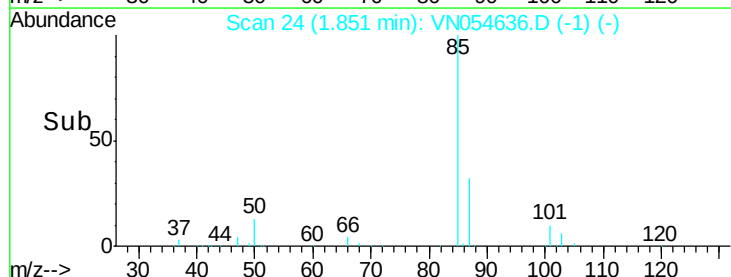
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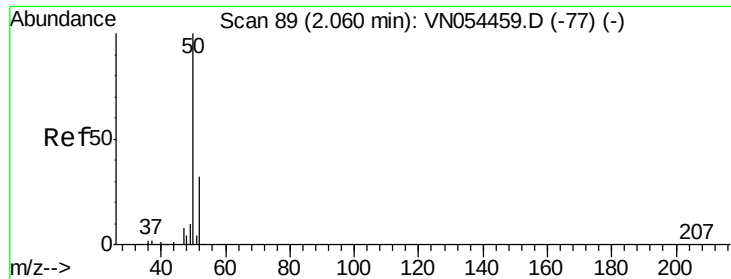
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50000

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Time-->





#3

Chloromethane

Concen: 55.912 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 311497

Ion Ratio Lower Upper

50 100

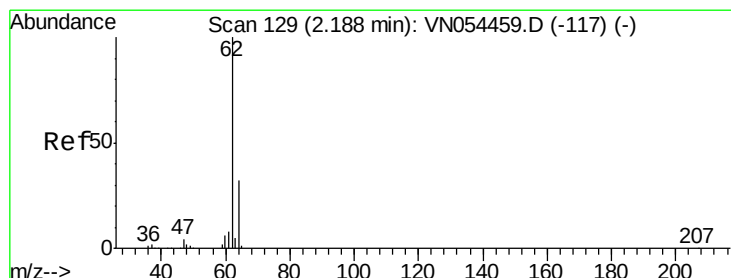
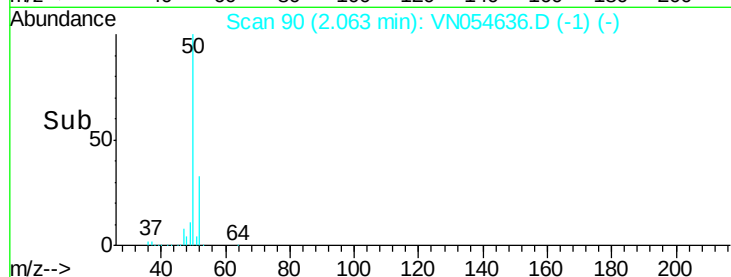
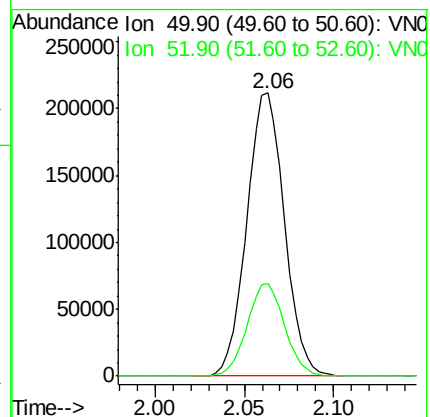
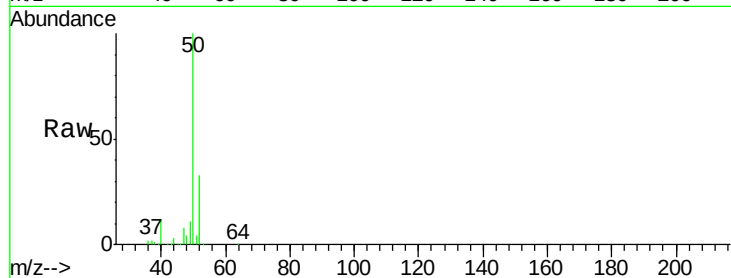
52 32.8 26.4 39.6

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#4

Vinyl Chloride

Concen: 50.569 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054636.D

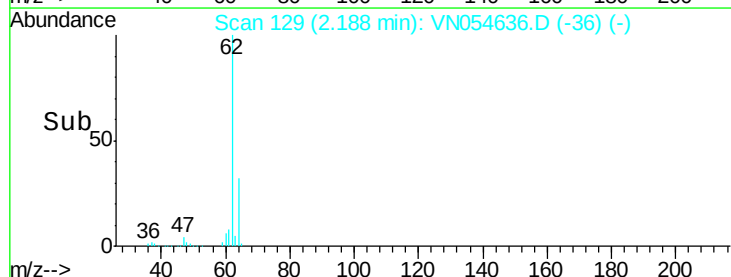
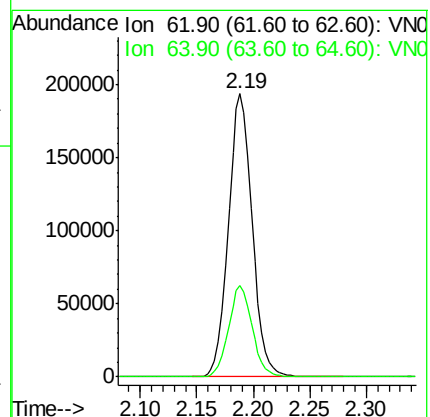
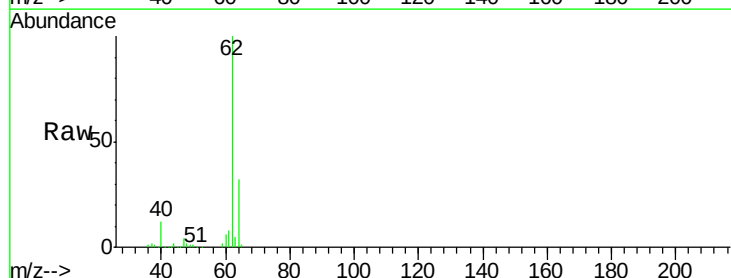
Acq: 24 Mar 2019 6:38

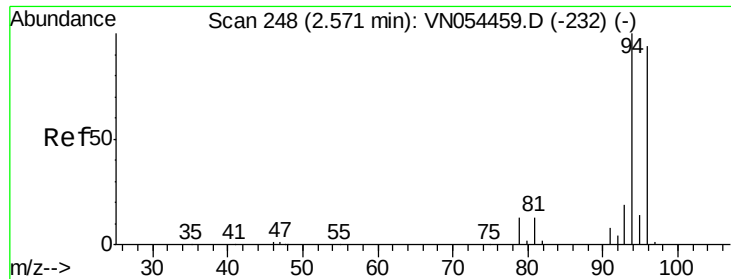
Tgt Ion: 62 Resp: 282858

Ion Ratio Lower Upper

62 100

64 32.2 25.5 38.3





#5

Bromomethane

Concen: 43.006 ug/l

RT: 2.57 min Scan# 247

Delta R.T. -0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

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Tot Ion: 94 Resp: 15547

Ion Ratio Lower Upper

94 100

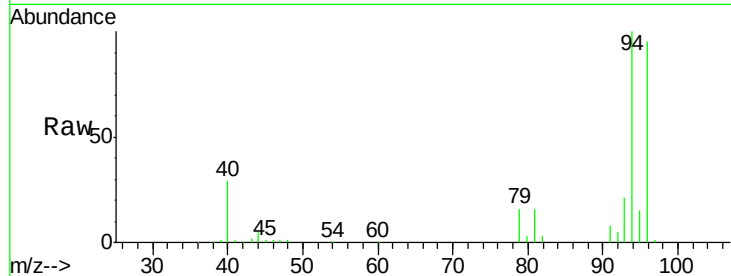
96 95.0 77.0 115.4

Manual Integrations

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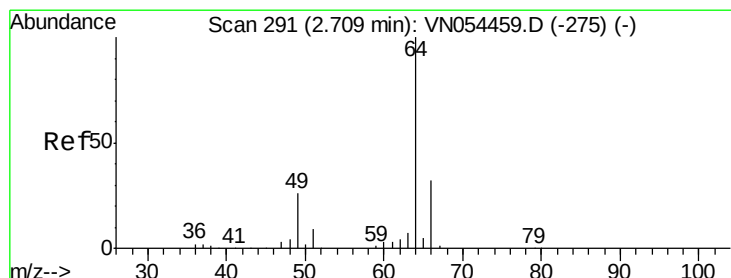
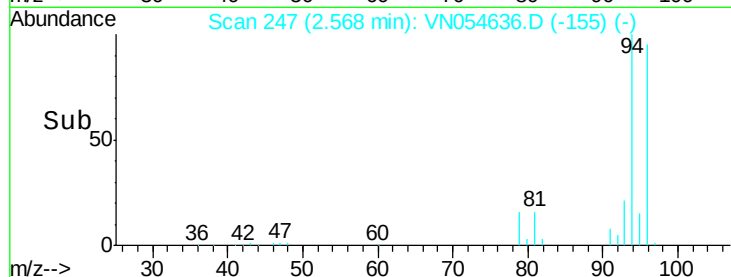
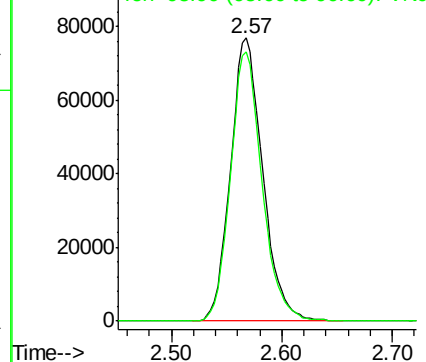
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 47.299 ug/l

RT: 2.71 min Scan# 290

Delta R.T. -0.00 min

Lab File: VN054636.D

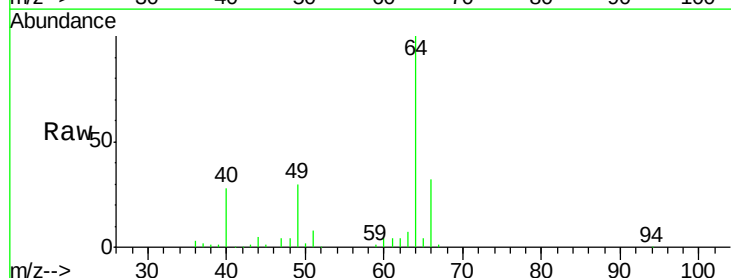
Acq: 24 Mar 2019 6:38

Tgt Ion: 64 Resp: 158686

Ion Ratio Lower Upper

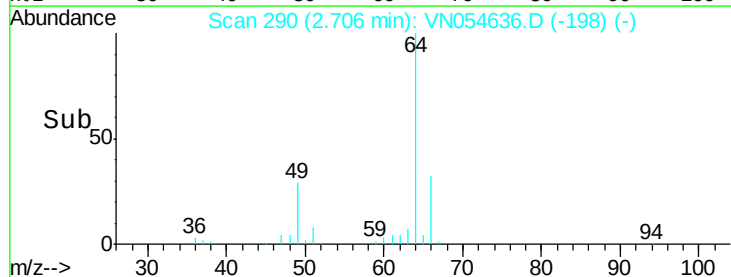
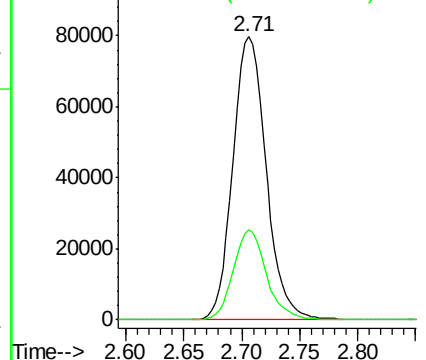
64 100

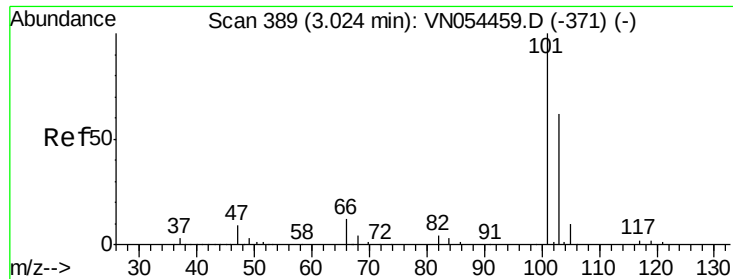
66 31.6 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

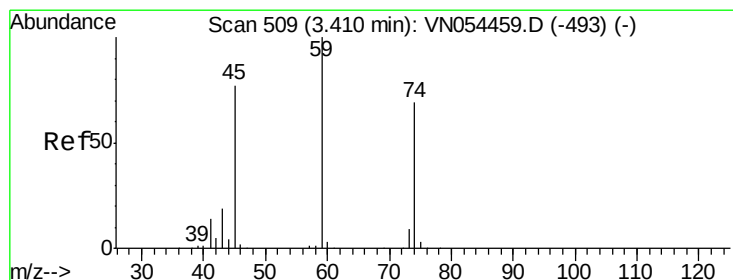
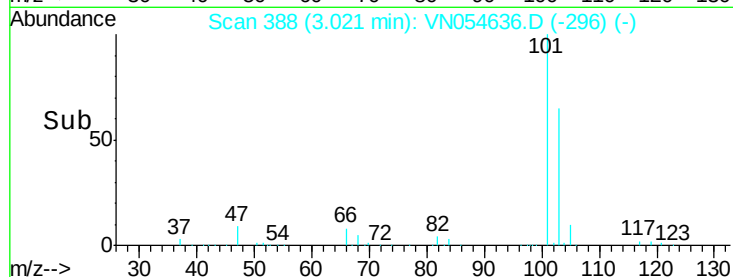
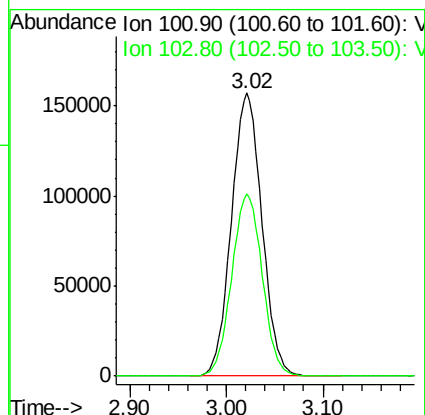
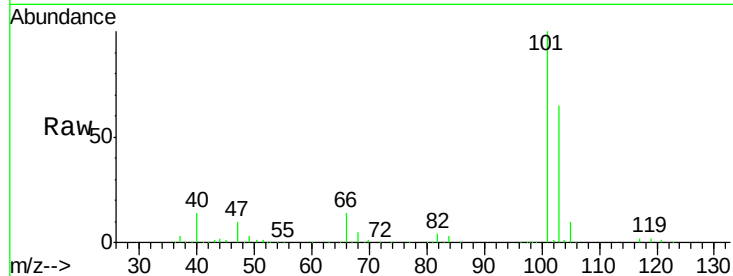
Trichlorofluoromethane
Concen: 50.563 ug/l
RT: 3.02 min Scan# 388
Delta R.T. -0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
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ClientSampled :
VSTDCCC050EC

Tot Ion:101 Resp: 343463
Ion Ratio Lower Upper
101 100
103 64.5 51.4 77.2

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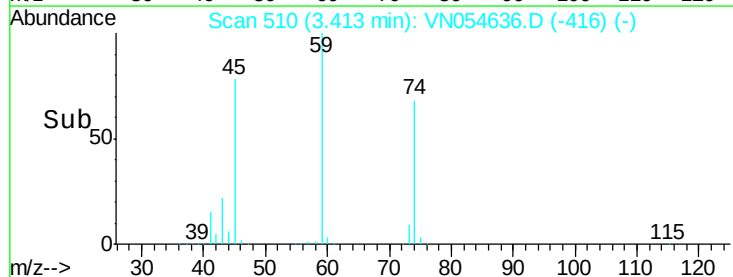
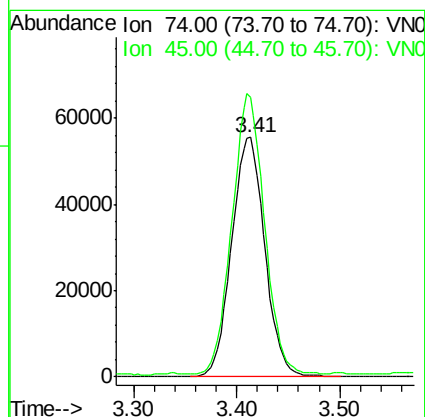
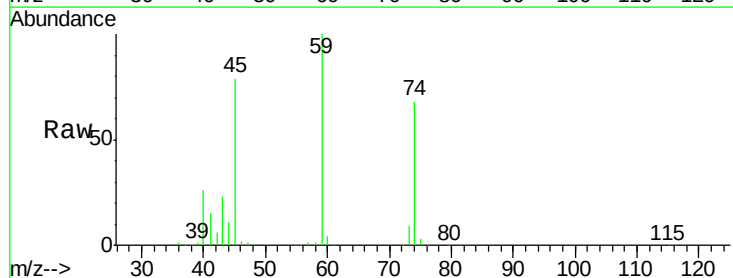
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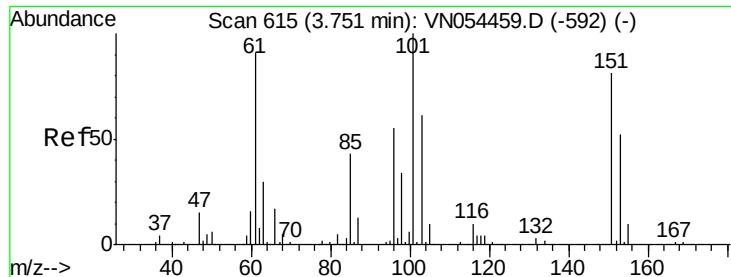


#8

Diethyl Ether
Concen: 47.643 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion: 74 Resp: 124466
Ion Ratio Lower Upper
74 100
45 114.8 43.1 129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 42.993 ug/l

RT: 3.75 min Scan# 614

Delta R.T. -0.00 min

Lab File: VN054636.D

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MSVOA_N

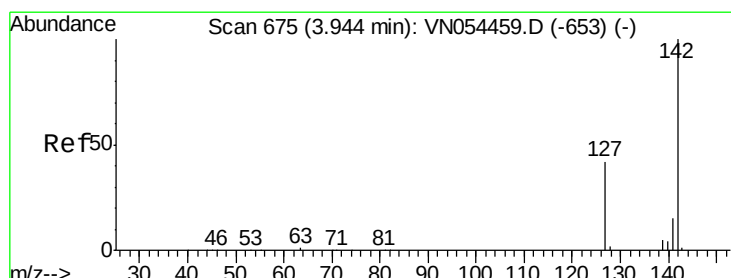
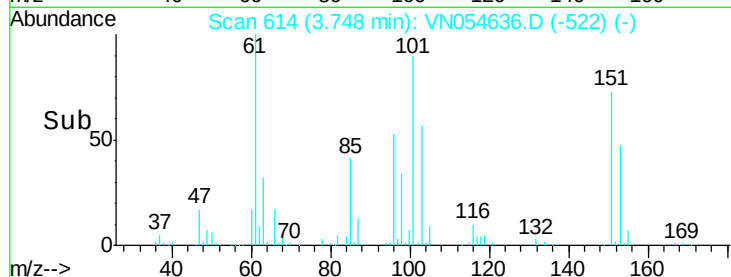
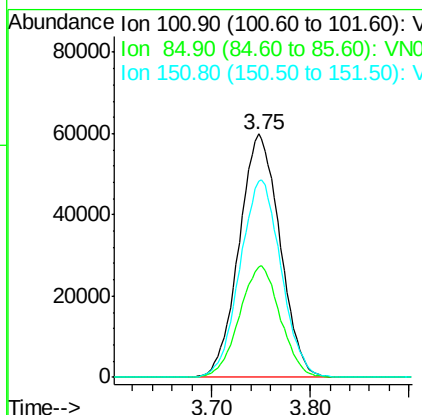
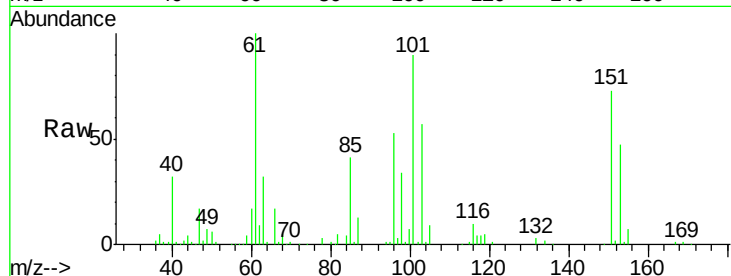
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	171634
Ion Ratio	Lower	Upper	
101	100		
85	45.6	32.4	48.6
151	81.6	68.2	102.2

Manual Integrations
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#10

Methyl Iodide

Concen: 46.200 ug/l

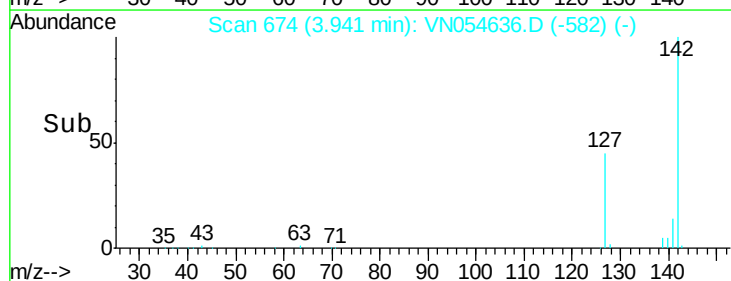
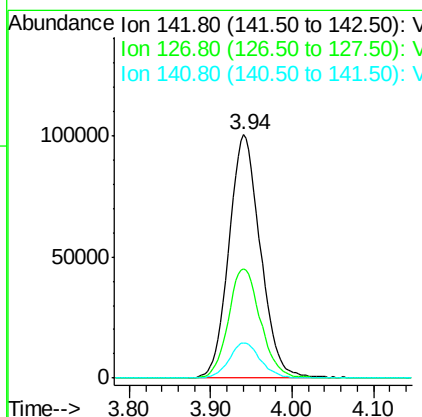
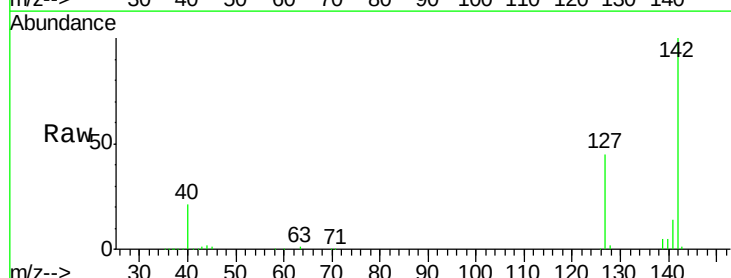
RT: 3.94 min Scan# 674

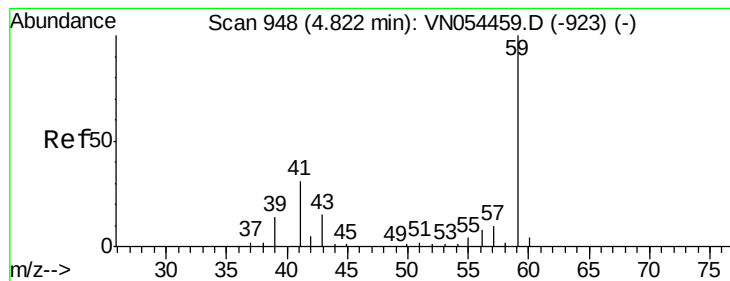
Delta R.T. -0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Tgt Ion:	142	Resp:	271309
Ion Ratio	Lower	Upper	
142	100		
127	45.8	30.3	45.5#
141	14.4	11.2	16.8





#11

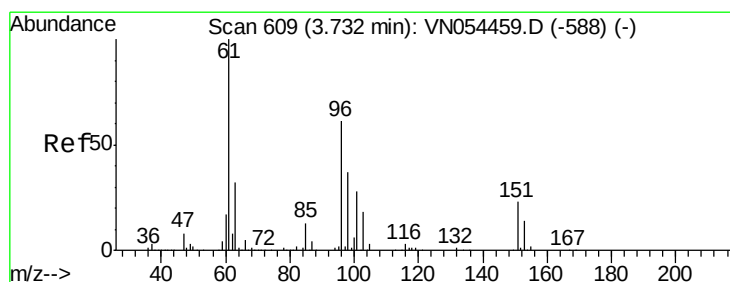
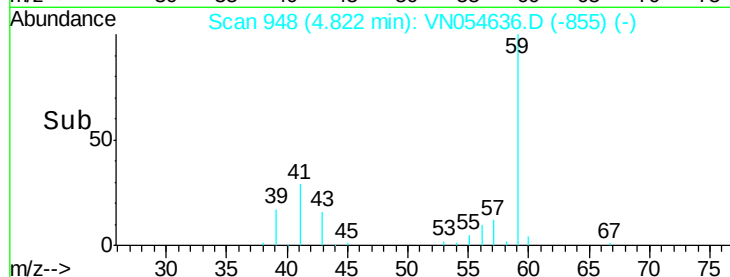
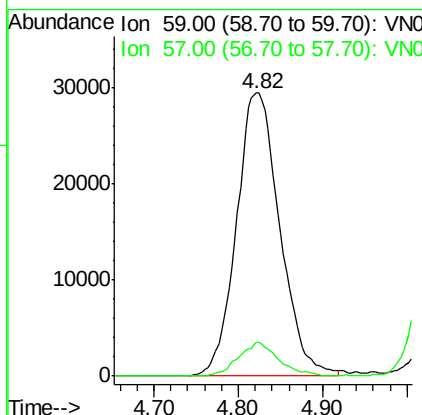
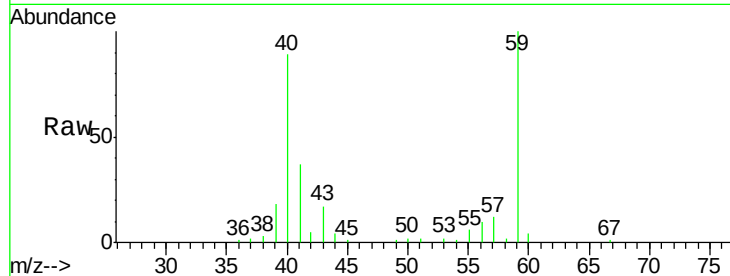
Tert butyl alcohol
 Concen: 325.857 ug/l
 RT: 4.82 min Scan# 948
 Delta R.T. 0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
59	100	105106		
57	11.0		9.0	13.6

Manual Integrations
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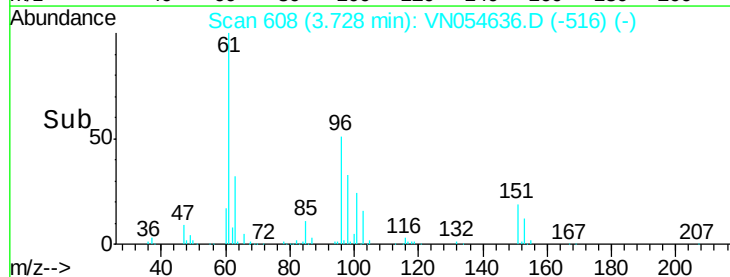
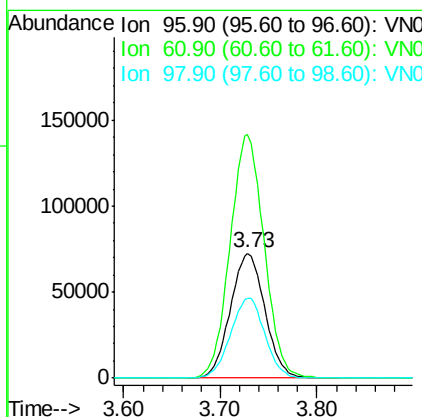
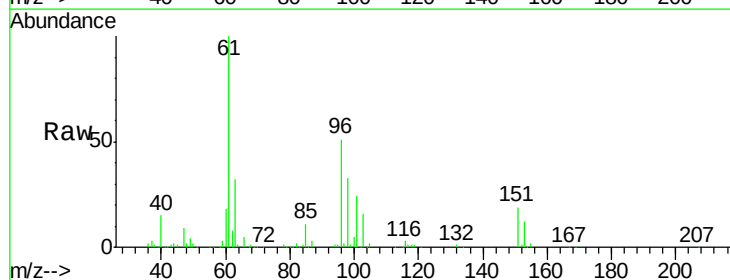
MMDadoda
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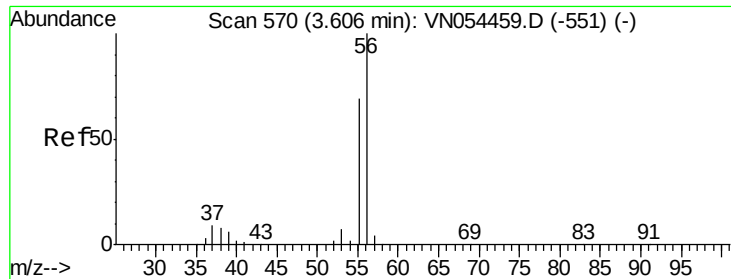


#12

1,1-Dichloroethene
 Concen: 43.576 ug/l
 RT: 3.73 min Scan# 608
 Delta R.T. -0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	180030		
61	194.7		116.5	174.7#
98	64.3		51.0	76.4





#13

Acrolein

Concen: 102.519 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 45634

Ion Ratio Lower Upper

56 100

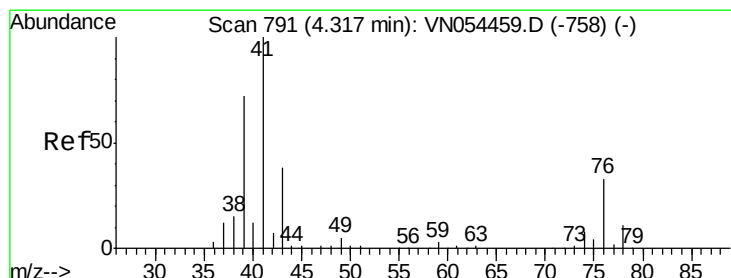
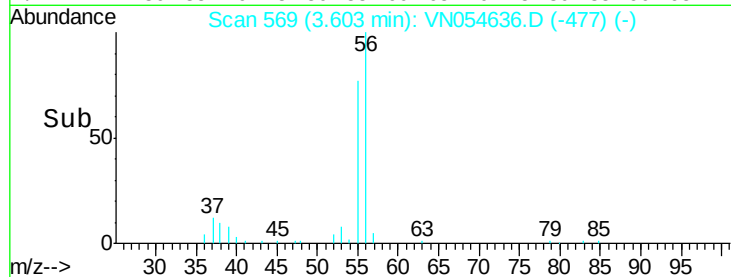
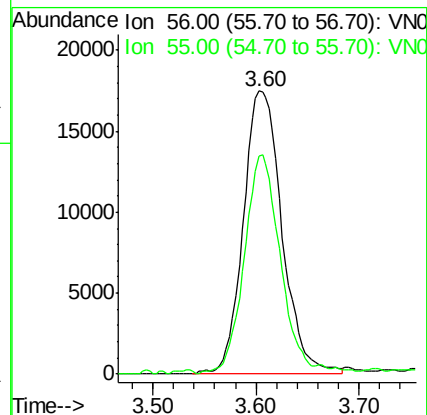
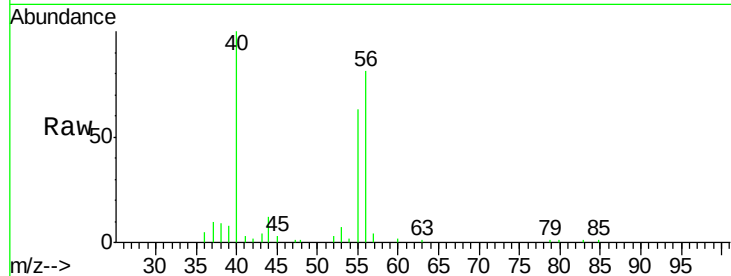
55 71.5 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 54.209 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

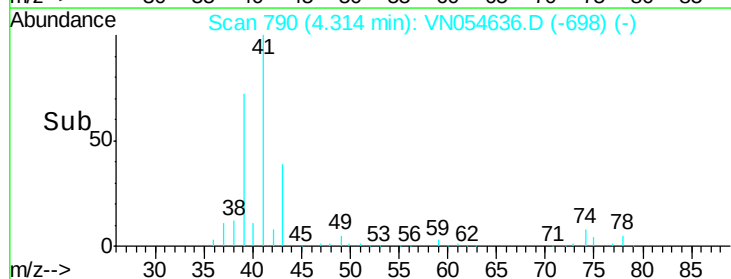
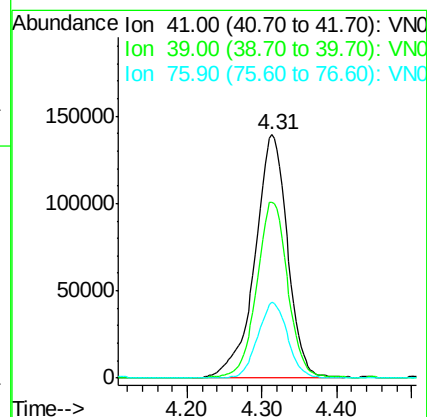
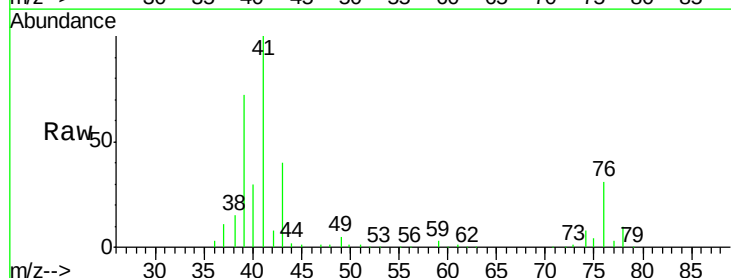
Tgt Ion: 41 Resp: 421732

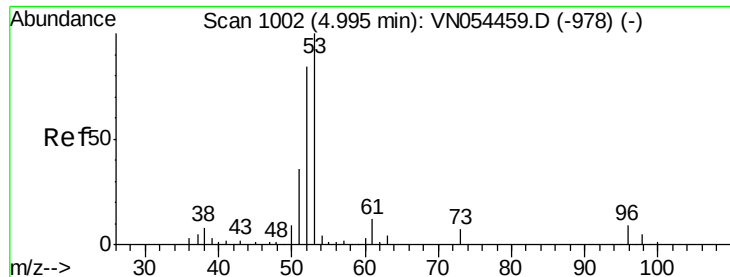
Ion Ratio Lower Upper

41 100

39 68.9 58.2 87.4

76 28.6 31.7 47.5#





#15

Acrylonitrile

Concen: 318.510 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

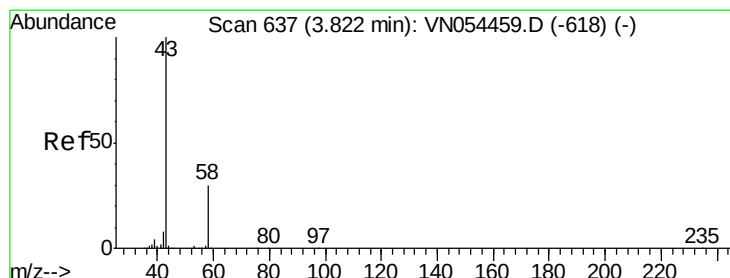
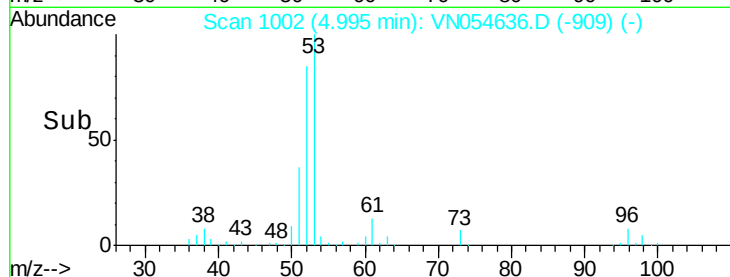
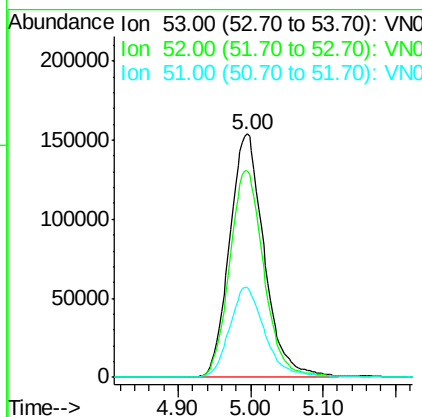
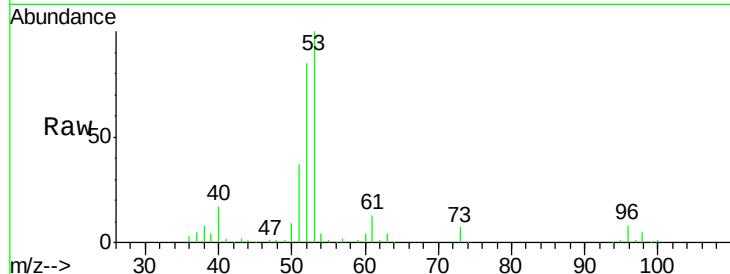
ClientSampled :

VSTDCCC050EC

Tot Ion:	53	Resp:	511616
Ion Ratio	Lower	Upper	
53	100		
52	84.2	66.4	99.6
51	37.8	29.6	44.4

Manual Integrations
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#16

Acetone

Concen: 230.339 ug/l

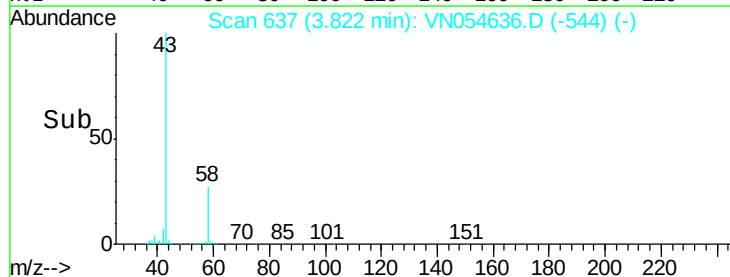
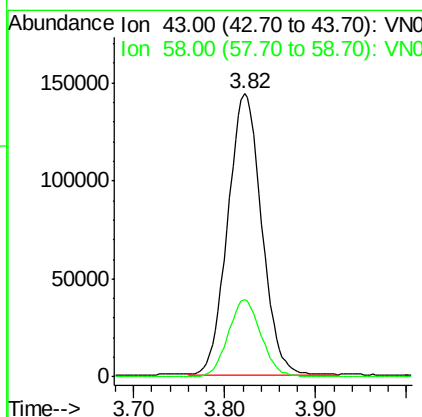
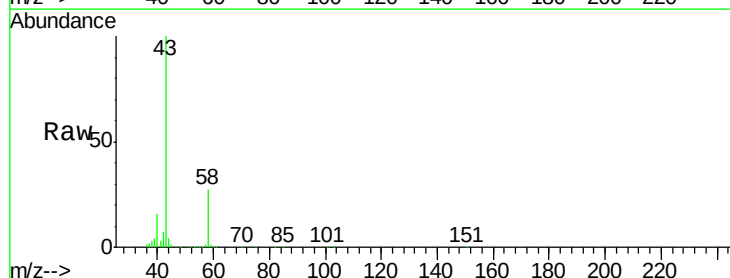
RT: 3.82 min Scan# 637

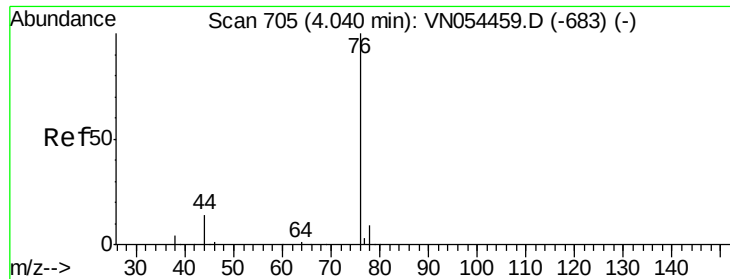
Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Tgt Ion:	43	Resp:	368954
Ion Ratio	Lower	Upper	
43	100		
58	27.2	29.9	44.9#





#17

Carbon Disulfide

Concen: 46.084 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 510140

Ion Ratio Lower Upper

76 100

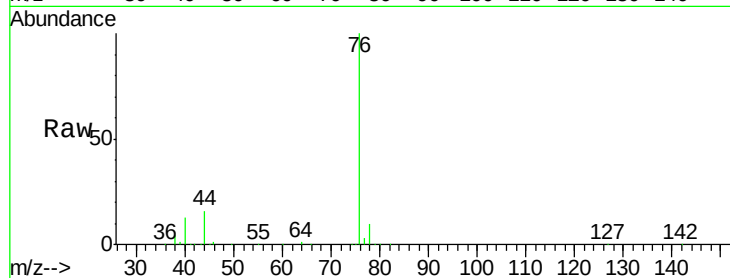
78 9.6 7.5 11.3

Manual Integrations

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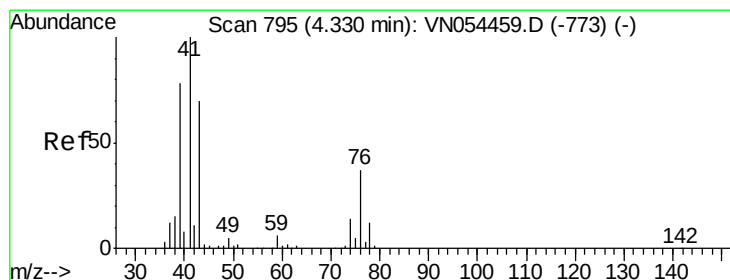
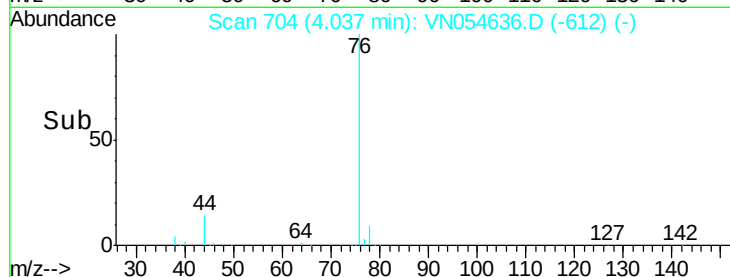
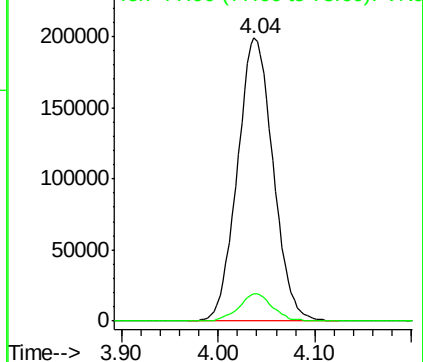
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Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 66.411 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN054636.D

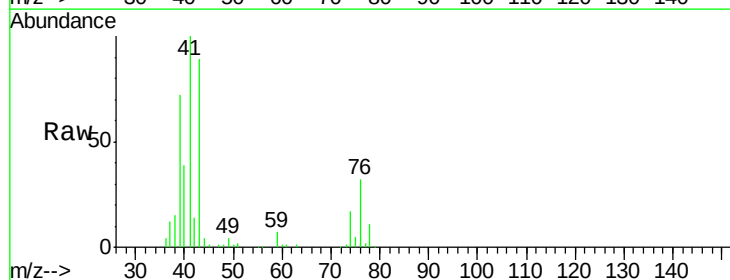
Acq: 24 Mar 2019 6:38

Tgt Ion: 43 Resp: 237101

Ion Ratio Lower Upper

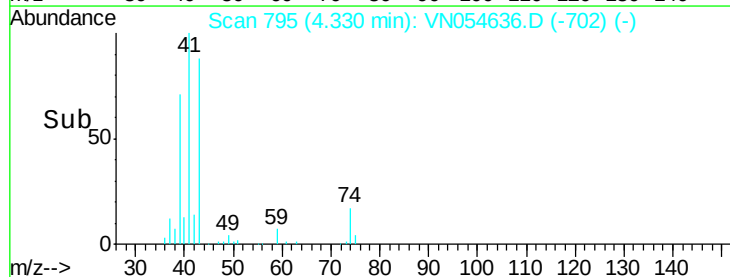
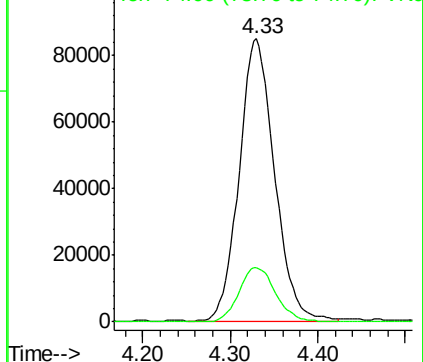
43 100

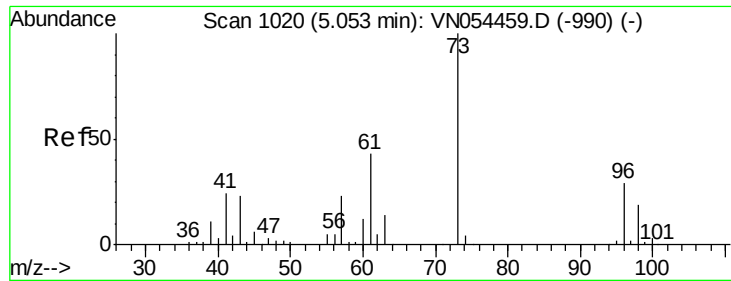
74 20.1 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO





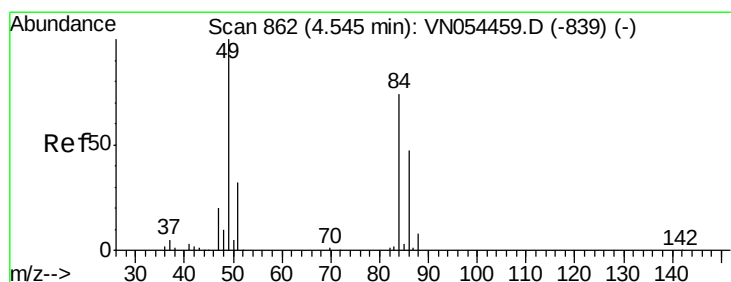
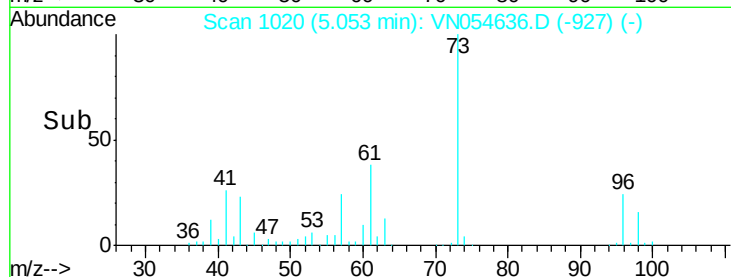
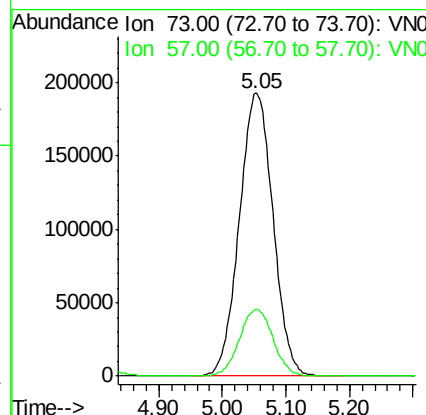
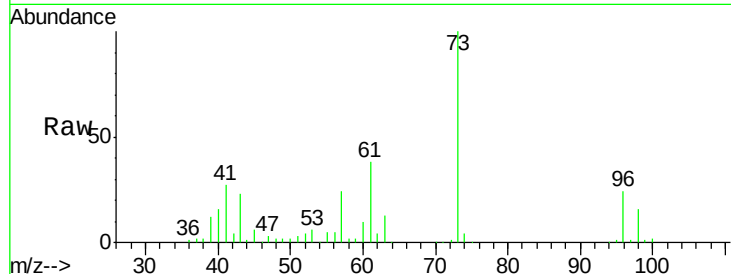
#19
Methyl tert-butyl Ether
Concen: 58.914 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 710334
Ion Ratio Lower Upper
73 100
57 23.5 16.8 25.2

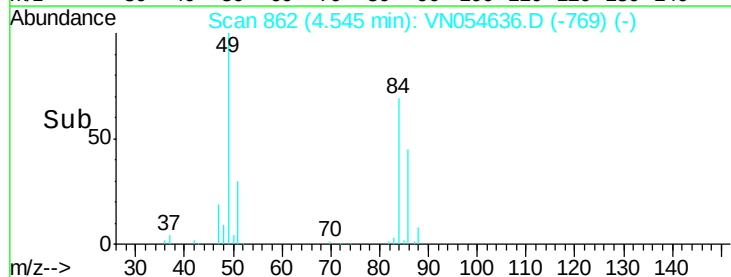
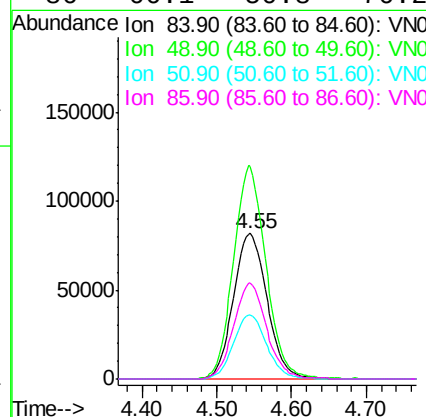
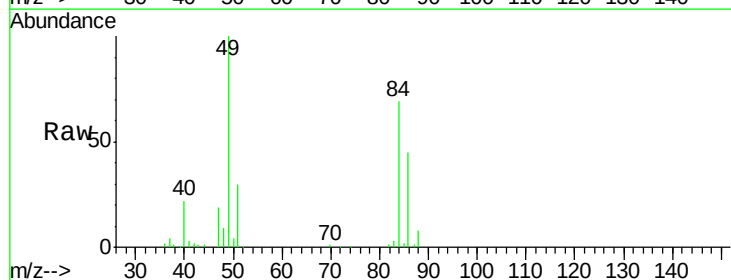
Manual Integrations
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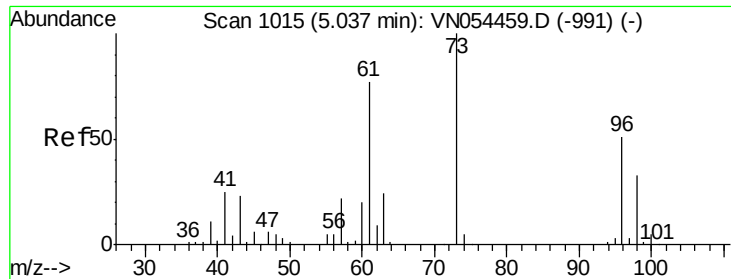
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#20
Methylene Chloride
Concen: 54.371 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion: 84 Resp: 256727
Ion Ratio Lower Upper
84 100
49 145.7 89.7 134.5#
51 43.6 28.2 42.4#
86 66.1 50.8 76.2





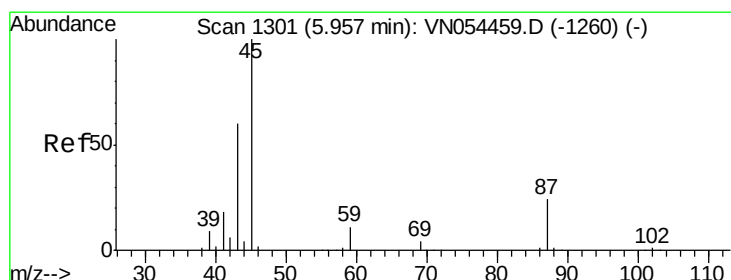
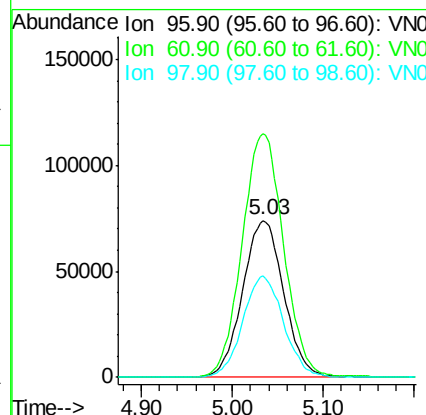
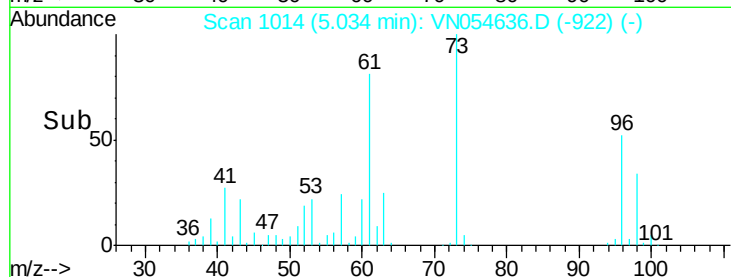
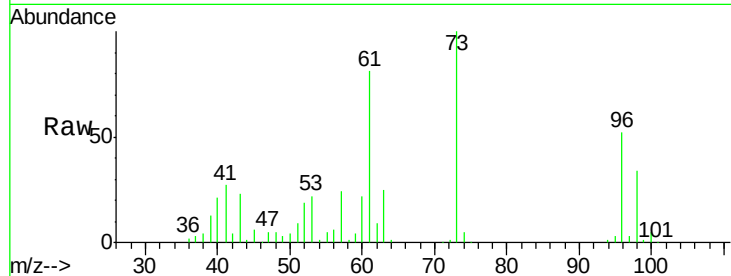
#21
trans-1,2-Dichloroethene
Concen: 55.113 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. -0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	155.1	102.8	154.2#
98	64.8	50.0	75.0

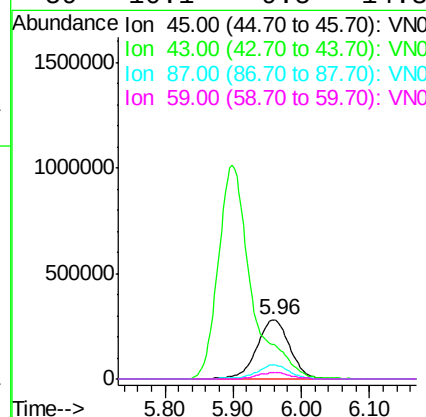
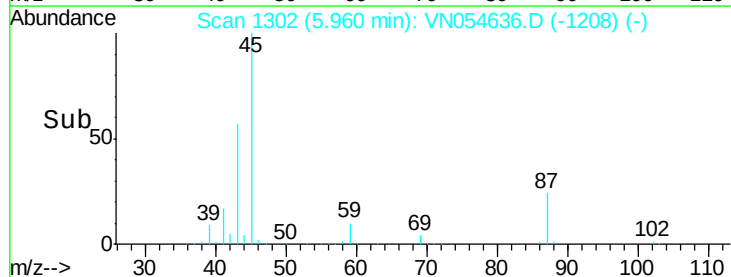
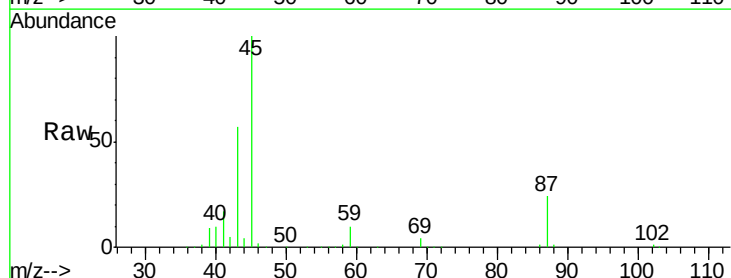
Manual Integrations
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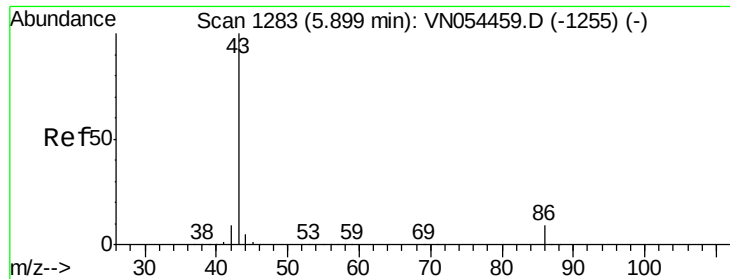
MMDadoda
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#22
Diisopropyl ether
Concen: 61.564 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion	Ratio	Lower	Upper
45	100		
43	56.2	48.2	72.2
87	23.4	24.9	37.3#
59	10.1	9.5	14.3





#23

Vinyl Acetate

Concen: 314.050 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 3403627

Ion Ratio Lower Upper

43 100

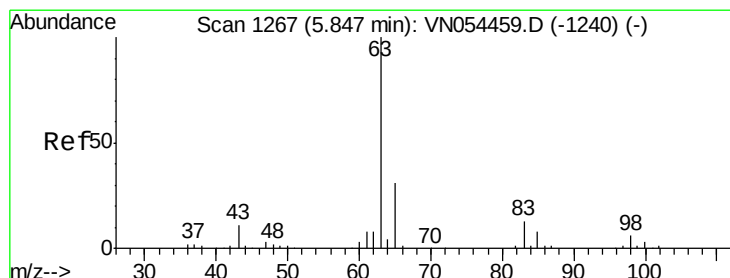
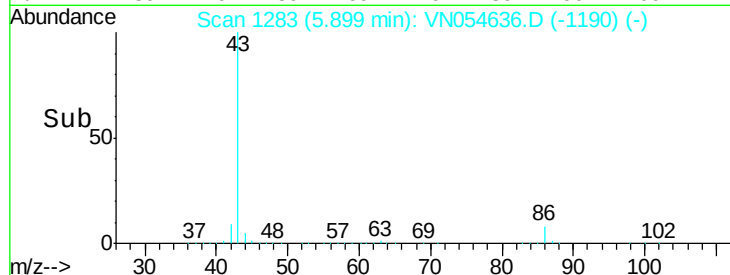
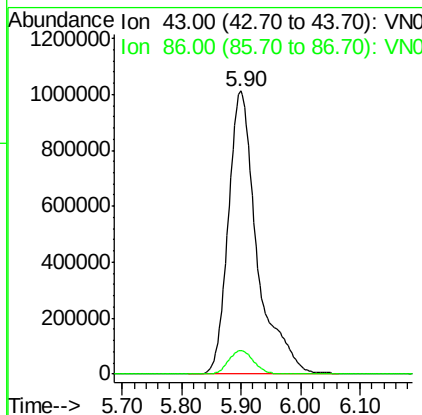
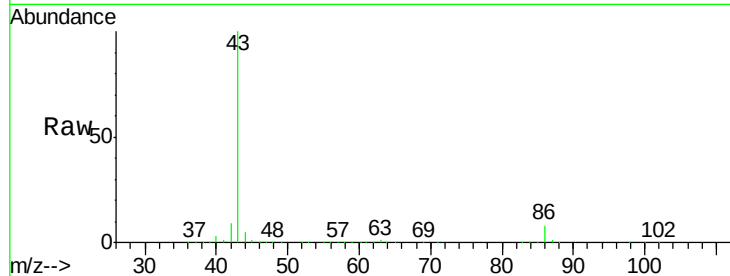
86 8.4 9.1 13.7#

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#24

1,1-Dichloroethane

Concen: 58.566 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

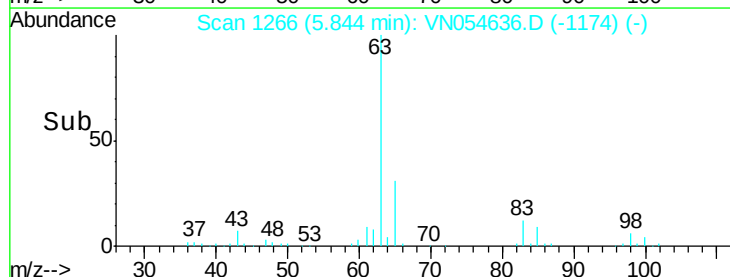
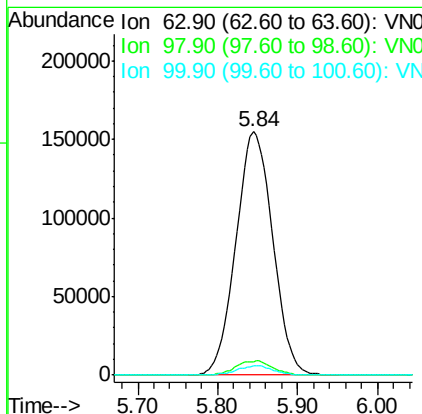
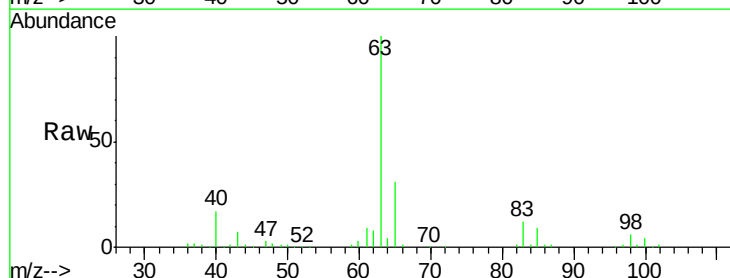
Tgt Ion: 63 Resp: 483896

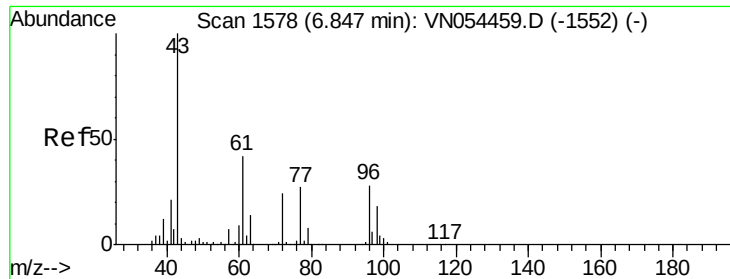
Ion Ratio Lower Upper

63 100

98 5.7 3.5 10.5

100 3.8 2.0 6.0





#25

2-Butanone

Concen: 317.965 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 652427

Ion Ratio Lower Upper

43 100

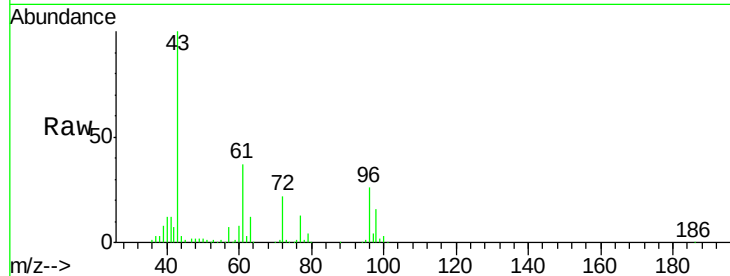
72 22.5 23.0 34.6#

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.85

250000

200000

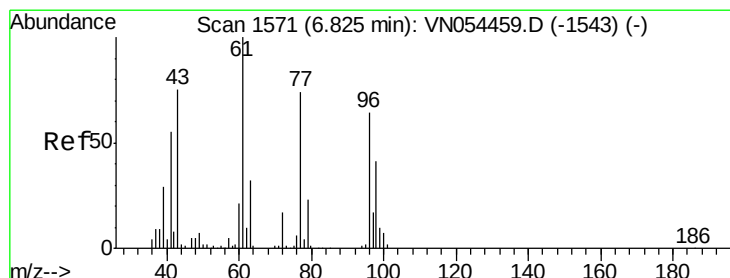
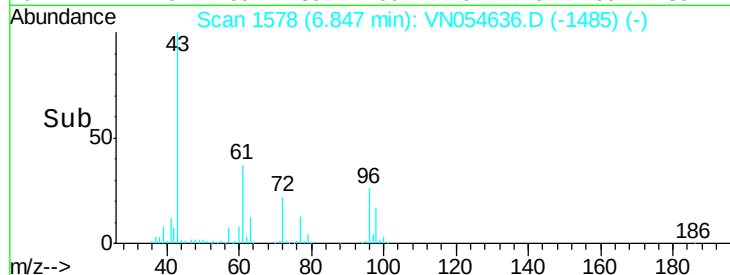
150000

100000

50000

0

Time--> 6.70 6.80 6.90



#26

2,2-Dichloropropane

Concen: 33.157 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN054636.D

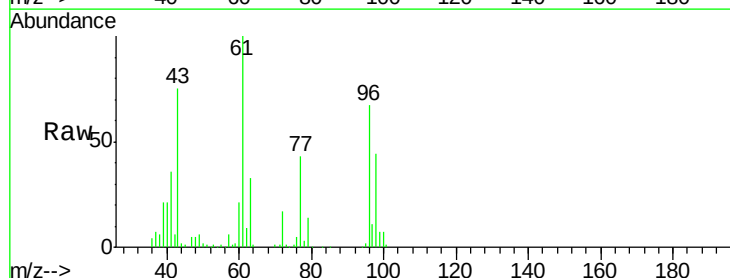
Acq: 24 Mar 2019 6:38

Tgt Ion: 77 Resp: 195287

Ion Ratio Lower Upper

77 100

97 25.0 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.82

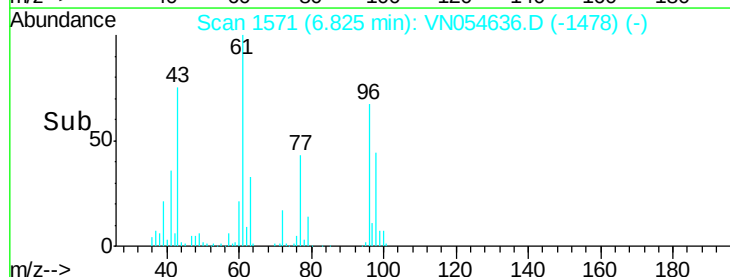
60000

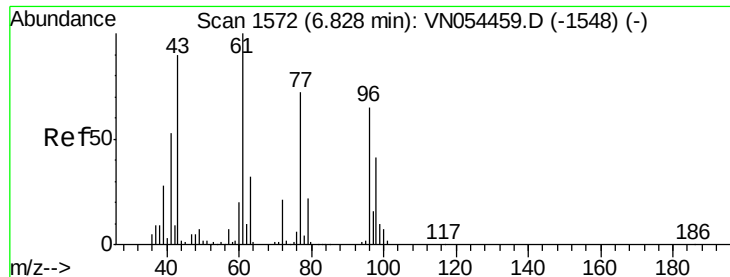
40000

20000

0

Time--> 6.70 6.80 6.90





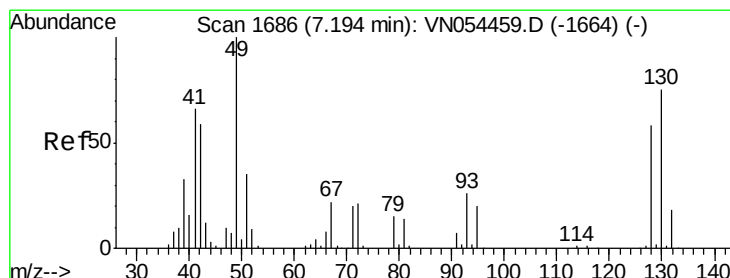
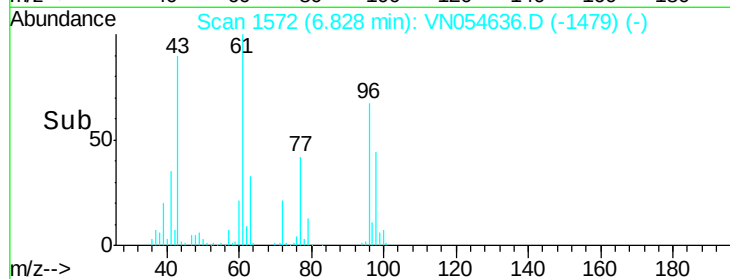
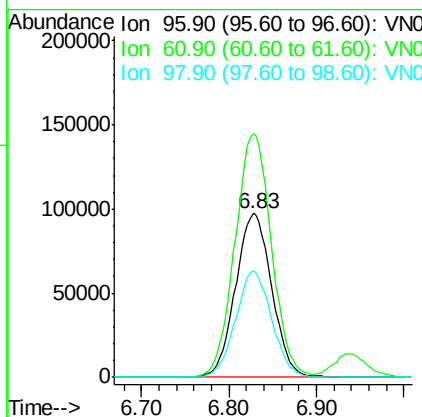
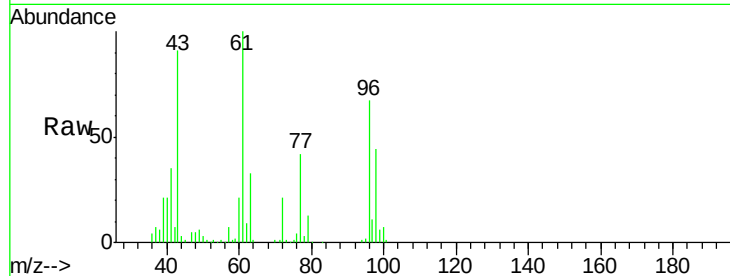
#27
 cis-1,2-Dichloroethene
 Concen: 55.601 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100	279775		
61	149.7	0.0	273.0	
98	64.7	0.0	130.6	

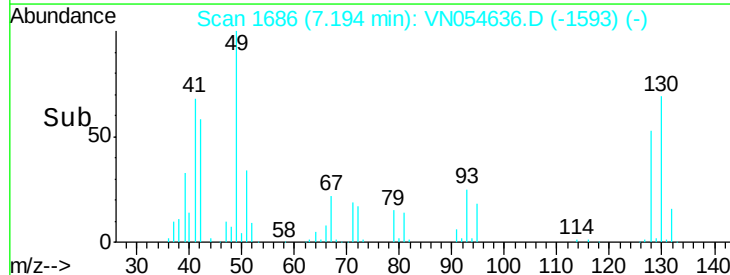
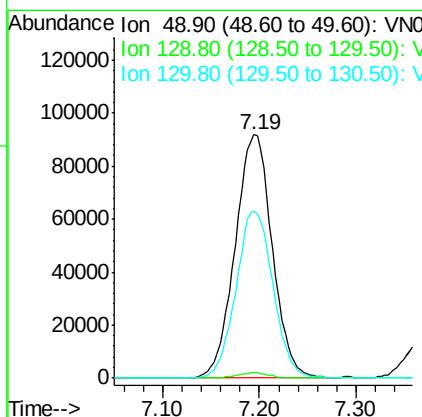
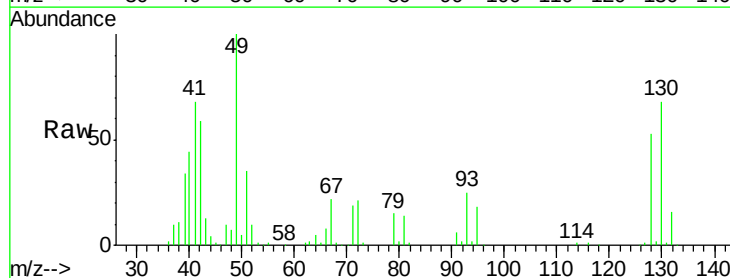
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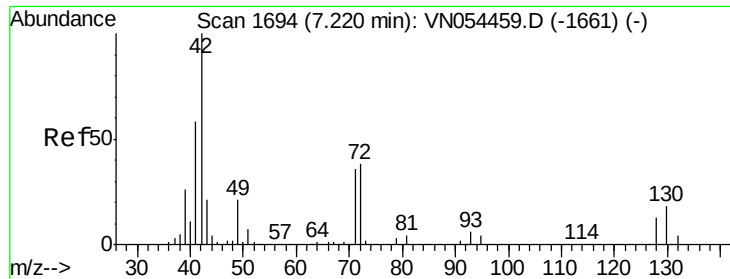
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 3/25/2019 10:09:18 AM



#28
 Bromochloromethane
 Concen: 60.280 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	245155		
129	1.9	0.0	4.6	
130	68.6	76.7	115.1#	





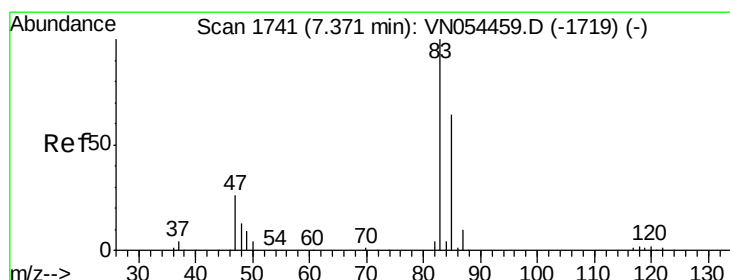
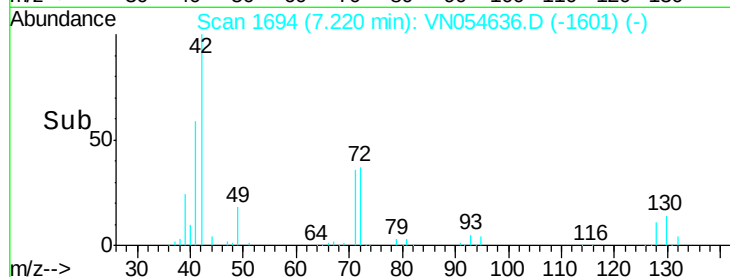
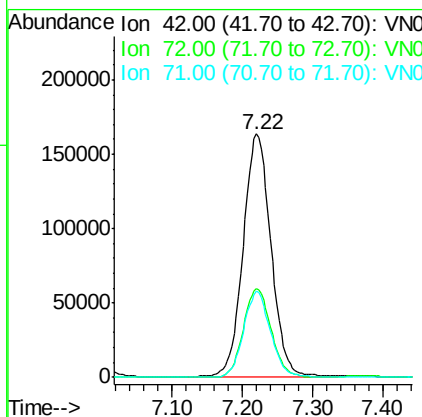
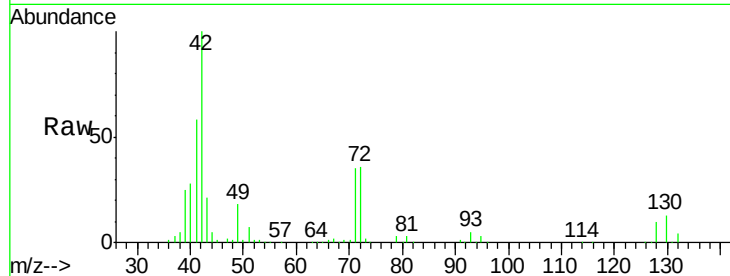
#29
Tetrahydrofuran
Concen: 338.496 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.2	37.8	56.6#
71	34.2	36.2	54.2#

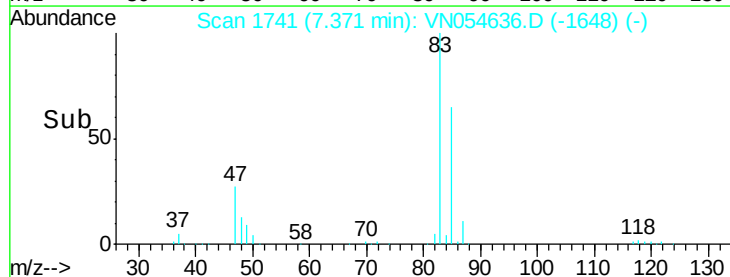
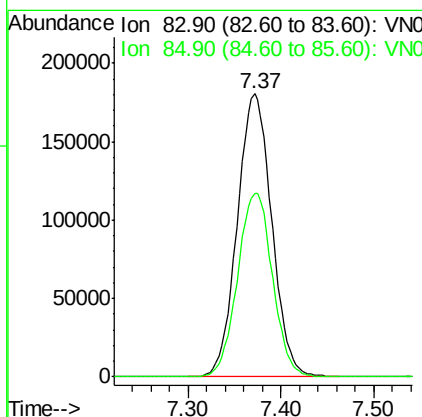
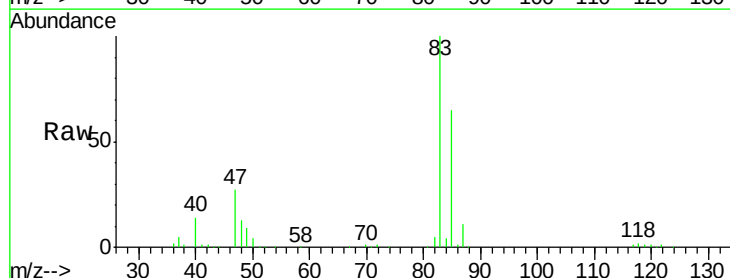
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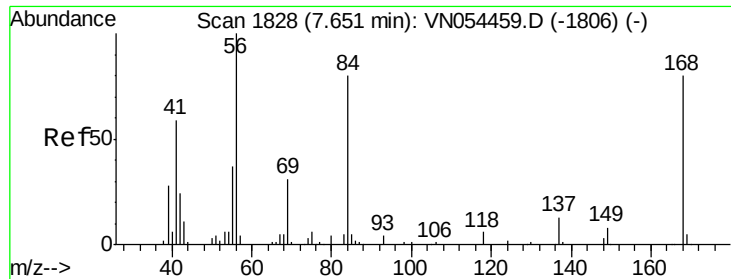
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#30
Chloroform
Concen: 57.738 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.2	78.4





#31

Cyclohexane

Concen: 55.534 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 438037

Ion Ratio Lower Upper

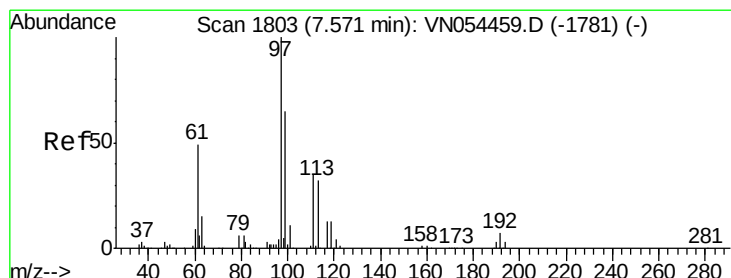
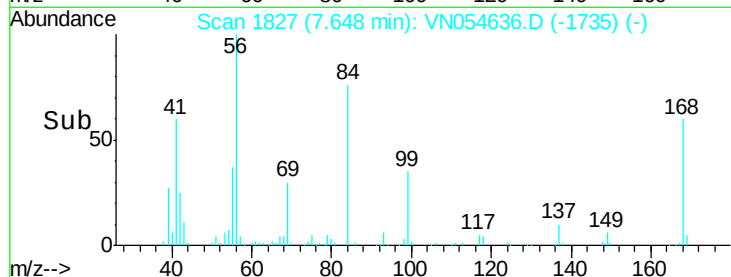
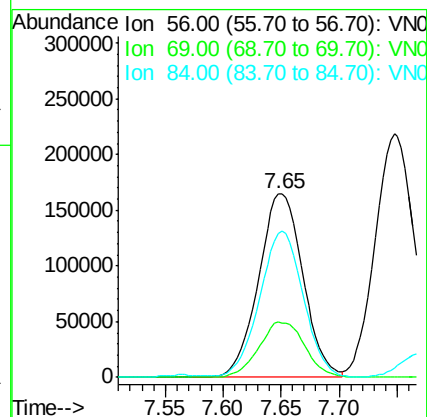
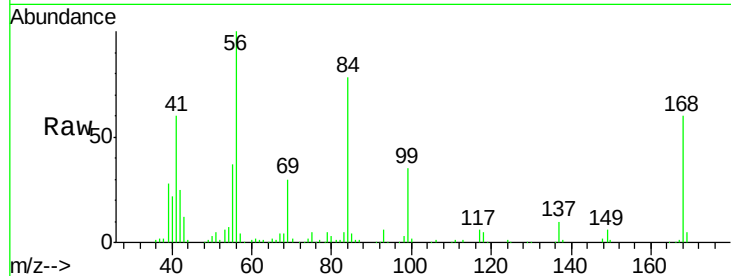
56 100

69 30.0 27.8 41.6

84 76.9 74.6 111.8

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 56.592 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

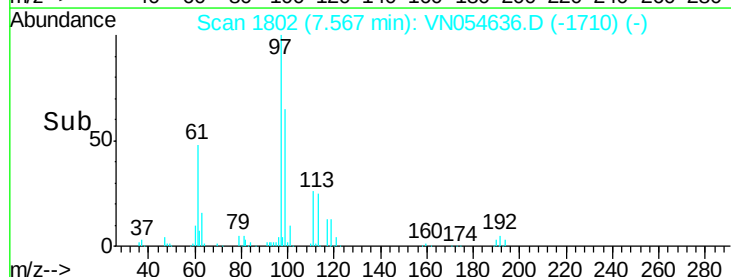
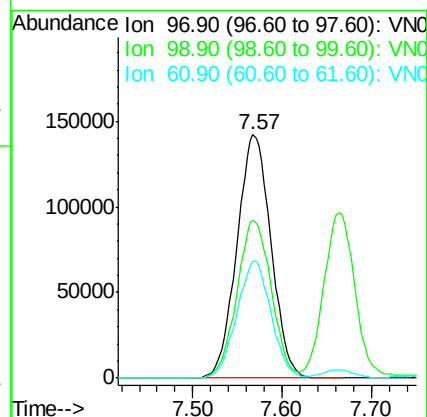
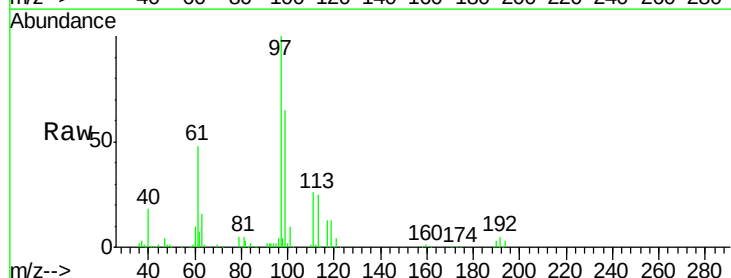
Tgt Ion: 97 Resp: 376465

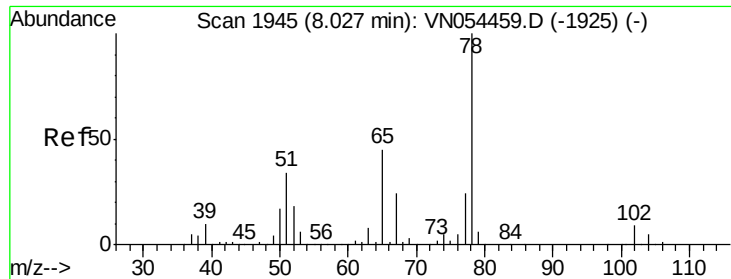
Ion Ratio Lower Upper

97 100

99 65.2 51.5 77.3

61 48.3 33.6 50.4





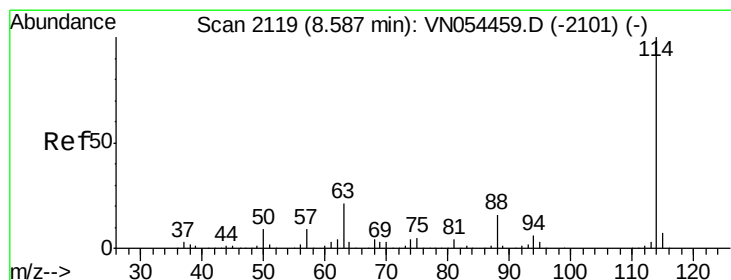
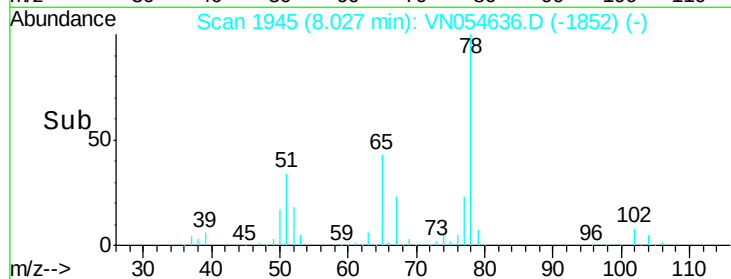
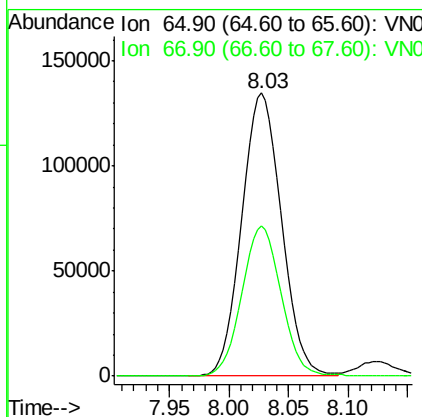
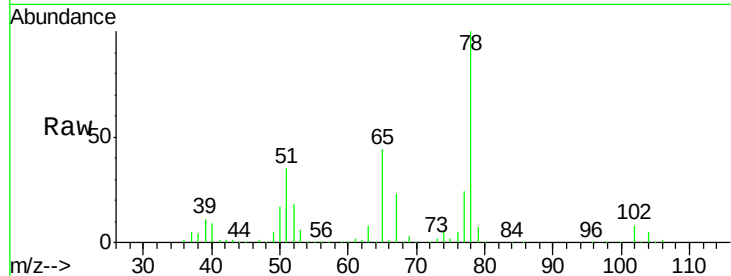
#33
 1,2-Dichloroethane-d4
 Concen: 58.564 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.5	0.0	104.6	

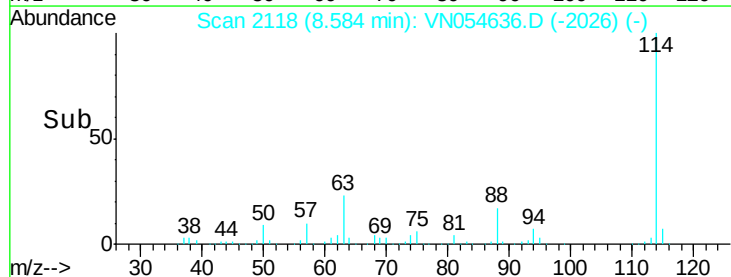
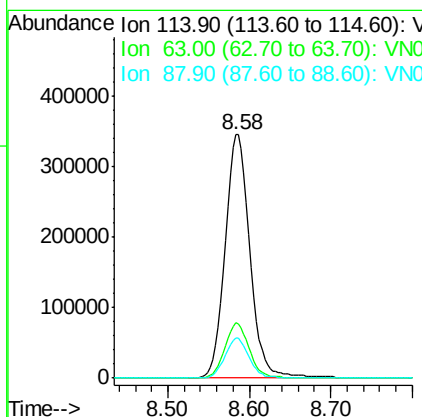
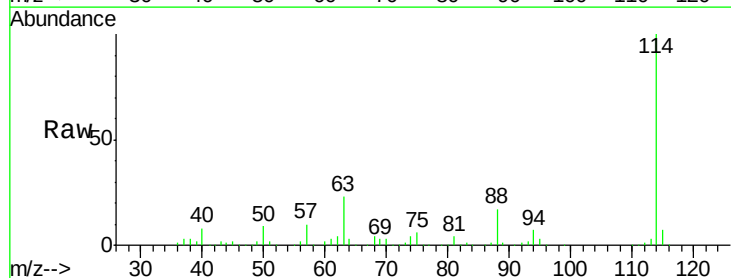
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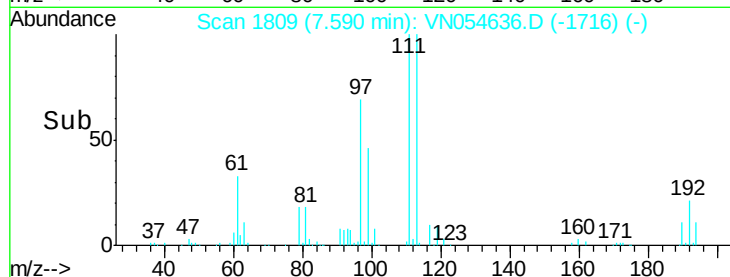
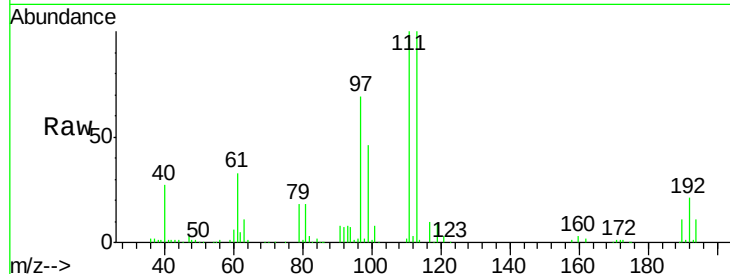
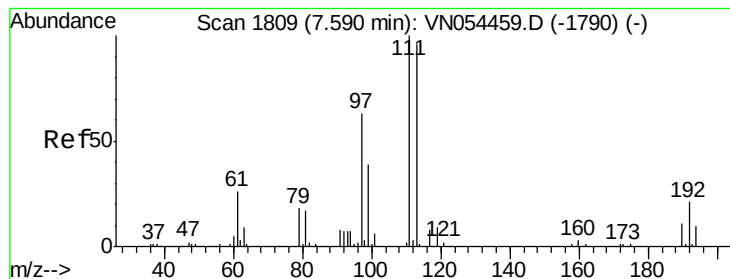
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.5	0.0	35.2	
88	16.6	0.0	30.2	





#35

Dibromofluoromethane

Concen: 50.875 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Tot Ion:	113	Resp:	244010
Ion Ratio	Lower	Upper	
113	100		
111	100.8	82.2	123.4
192	20.9	19.2	28.8

Instrument :

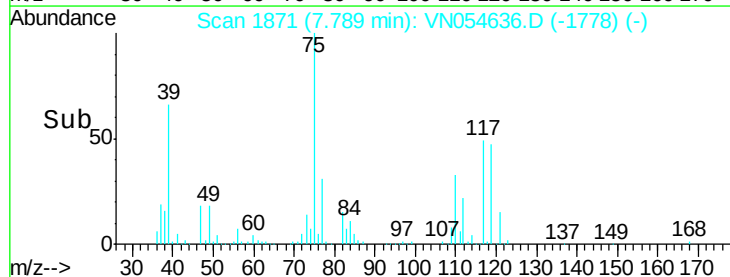
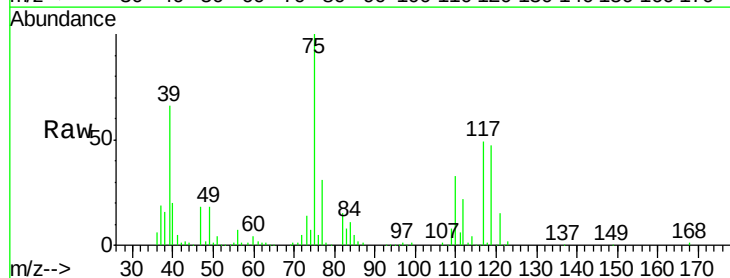
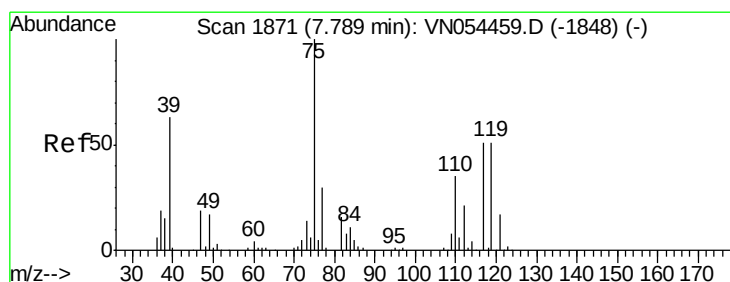
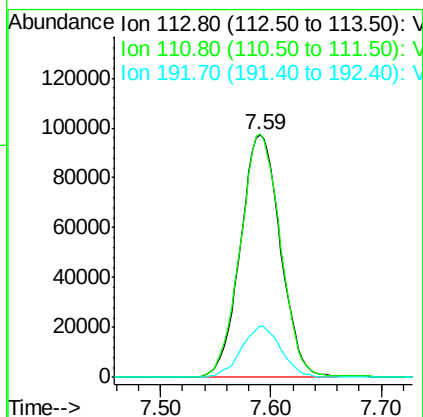
MSVOA_N

ClientSampleId :

VSTDCCC050EC

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#36

1,1-Dichloropropene

Concen: 50.855 ug/l

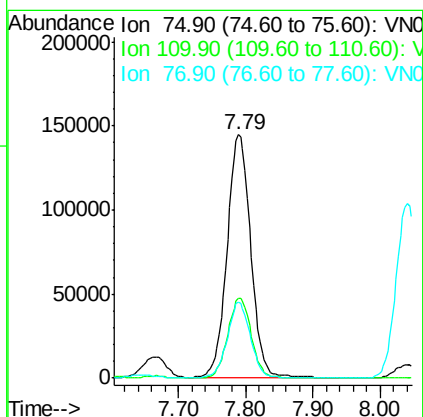
RT: 7.79 min Scan# 1871

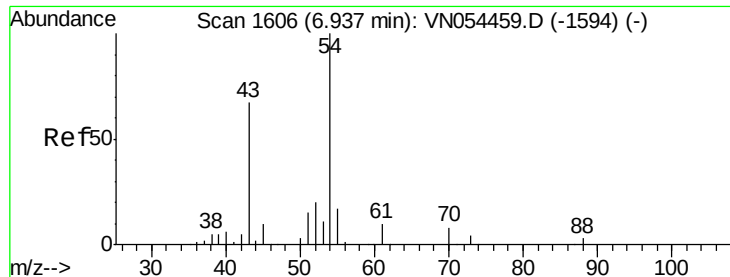
Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Tgt Ion:	75	Resp:	353990
Ion Ratio	Lower	Upper	
75	100		
110	32.7	19.1	57.5
77	30.5	25.0	37.4





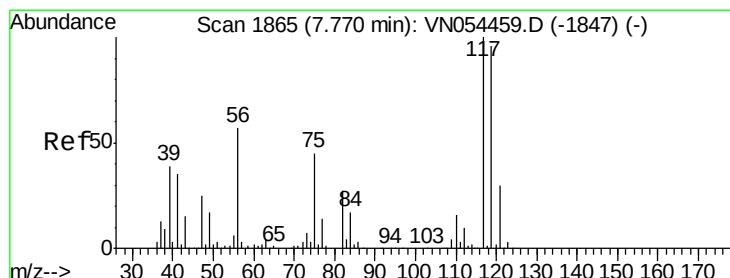
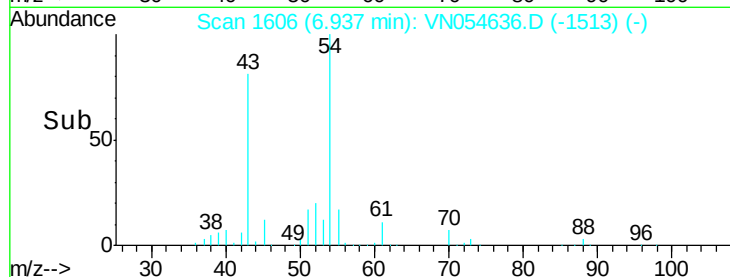
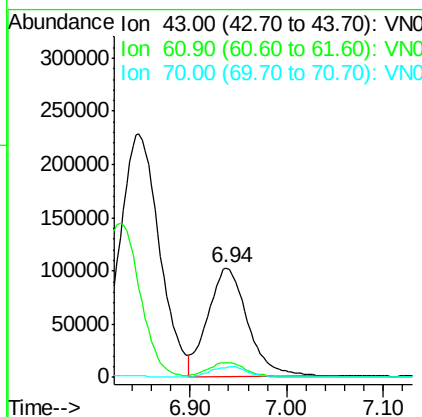
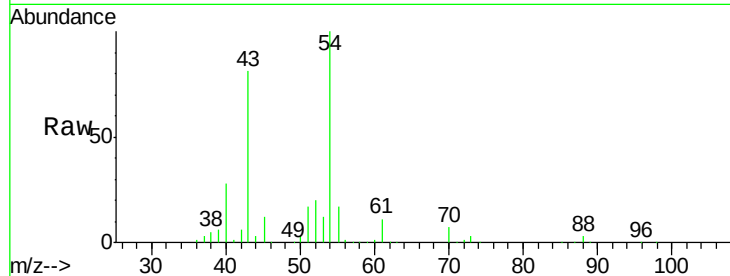
#37
Ethyl Acetate
Concen: 58.563 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.8	11.8	17.6
70	9.3	8.4	12.6

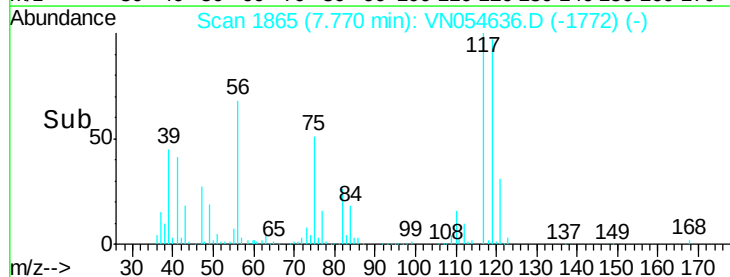
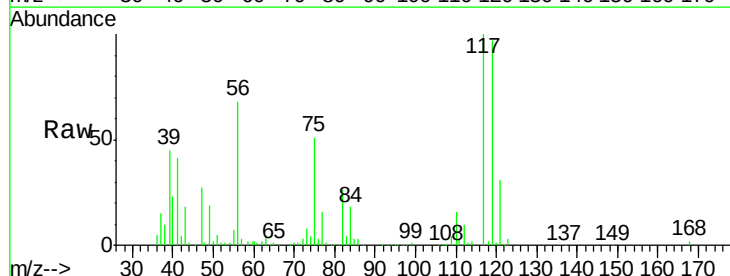
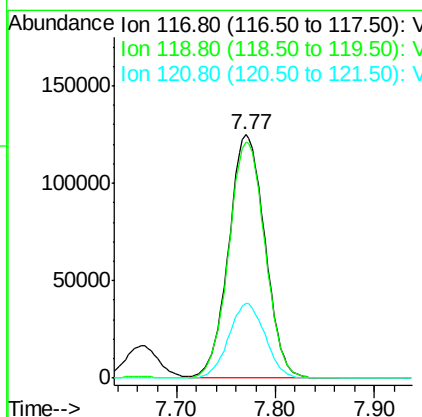
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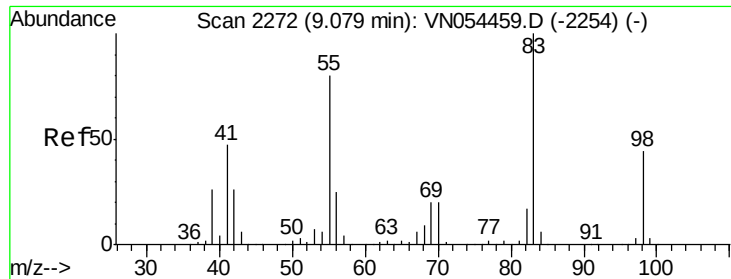
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#38
Carbon Tetrachloride
Concen: 47.319 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.9	76.3	114.5
121	30.8	24.6	36.8





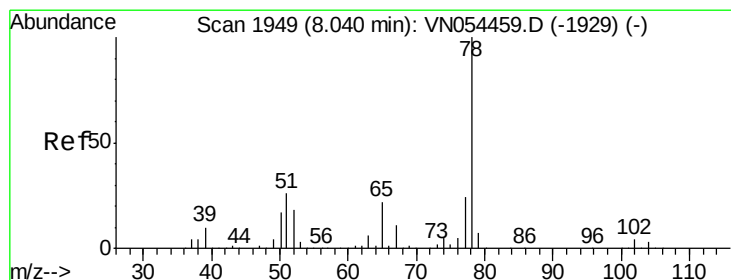
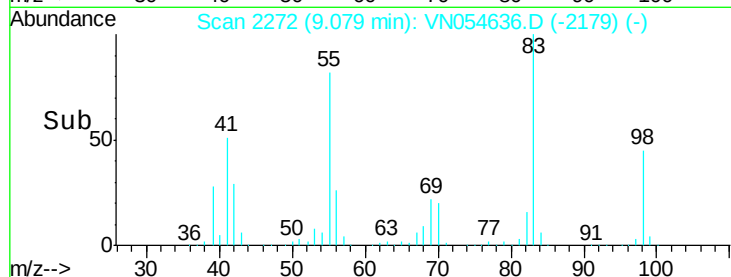
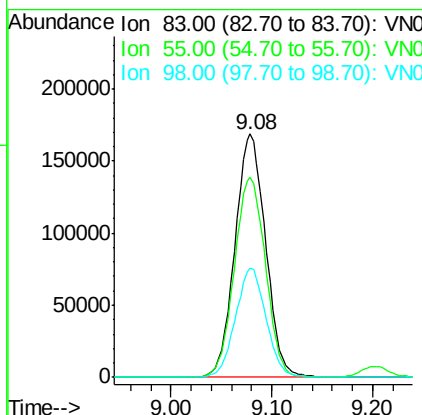
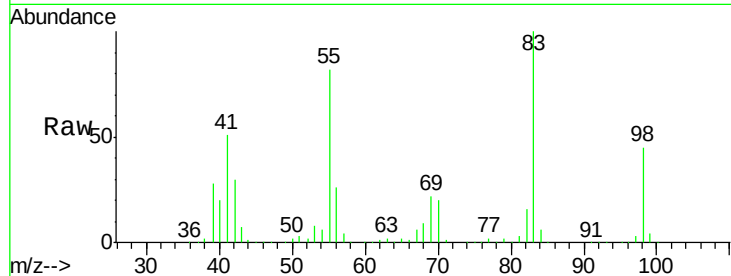
#39
Methylvlcyclohexane
Concen: 44.594 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	83	Resp	355078
Ion	Ratio	Lower	Upper
83	100		
55	81.9	56.6	84.8
98	45.1	38.4	57.6

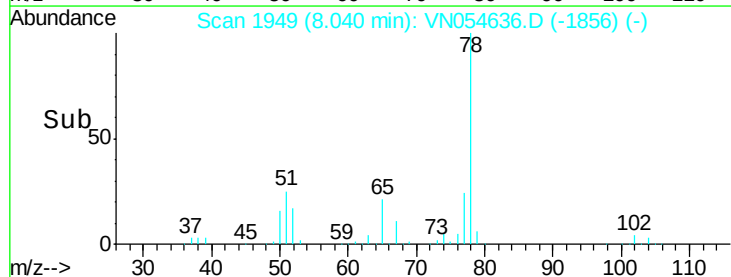
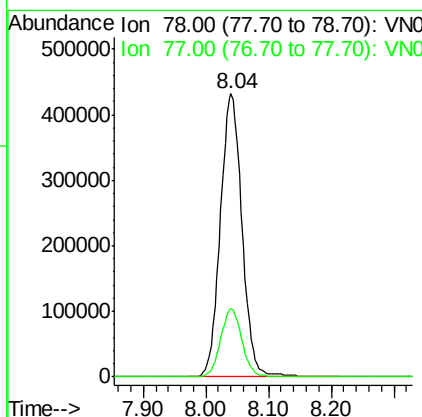
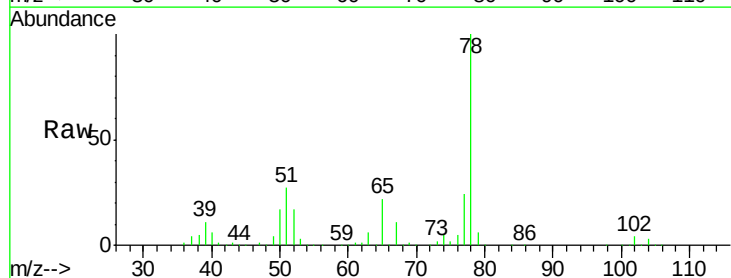
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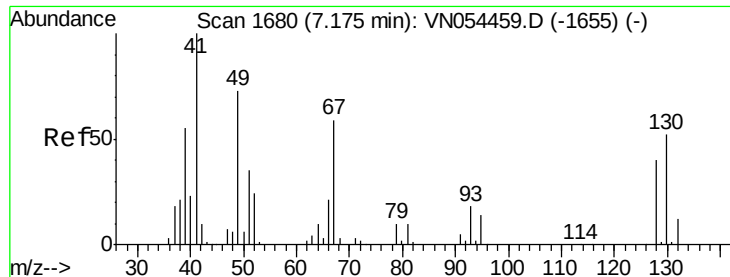
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#40
Benzene
Concen: 51.970 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion	78	Resp	1034450
Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.1	28.7





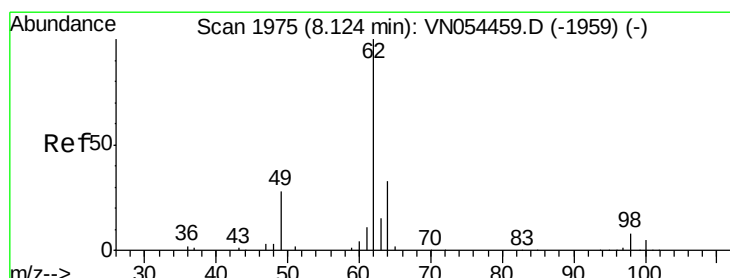
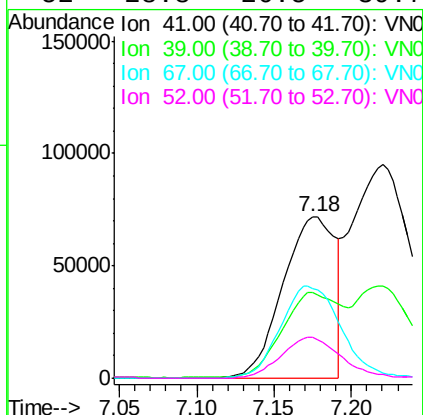
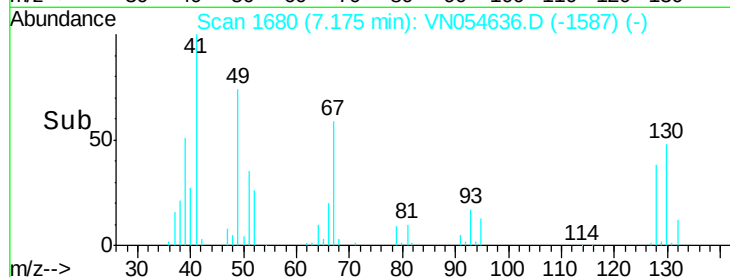
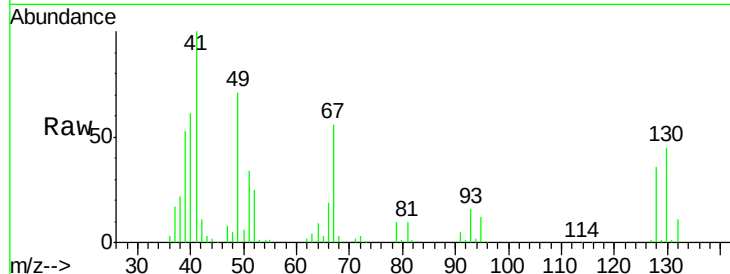
#41
Methacrylonitrile
Concen: 55.424 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	41	Resp	167339
Ion Ratio	Lower	Upper	
41	100		
39	60.5	46.8	70.2
67	67.3	67.0	100.4
52	28.8	26.5	39.7

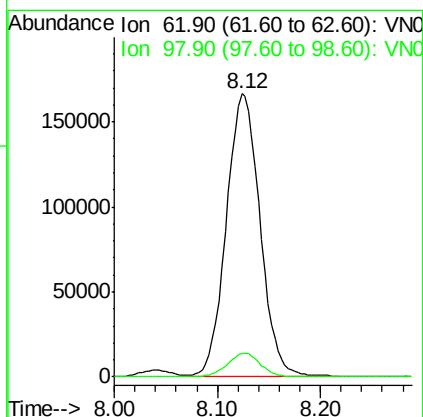
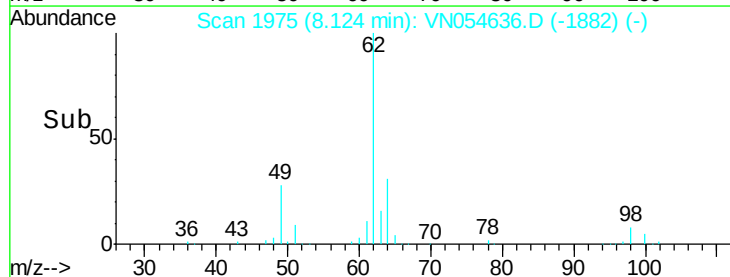
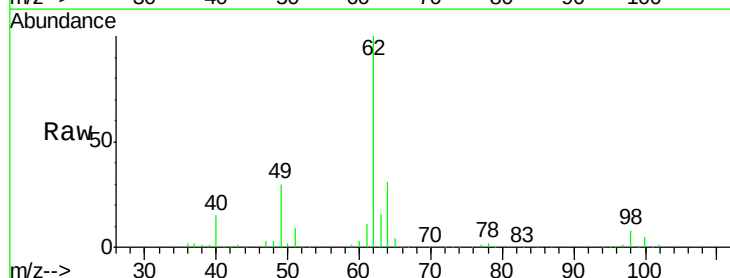
Manual Integrations
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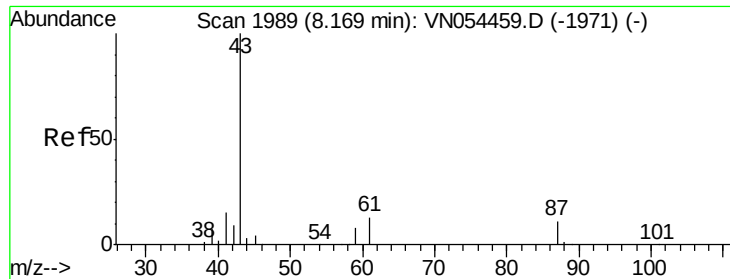
MMDadoda
3/25/2019 10:09:18 AM



#42
1,2-Dichloroethane
Concen: 52.173 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion	62	Resp	378200
Ion Ratio	Lower	Upper	
62	100		
98	8.2	0.0	18.4





#43

Isopropyl Acetate

Concen: 58.939 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

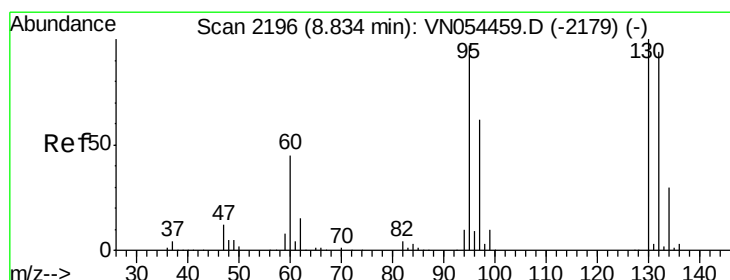
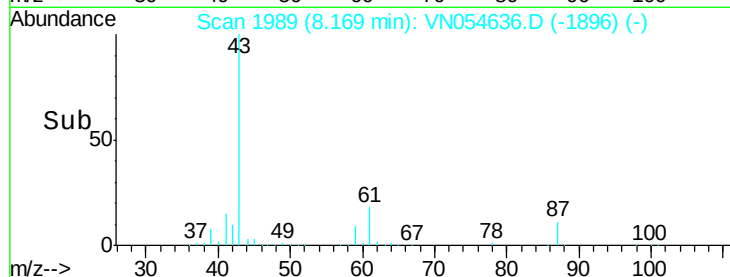
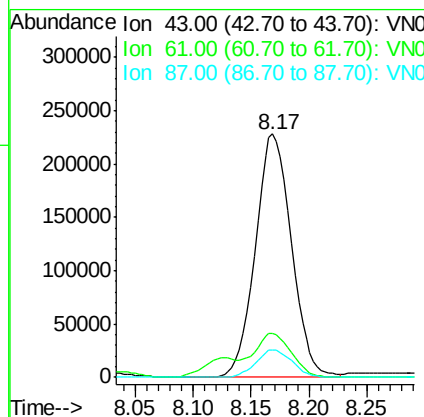
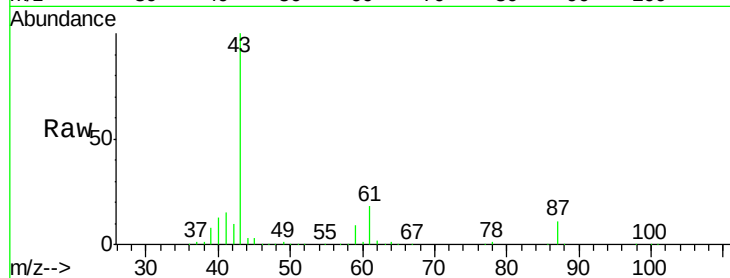
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	492799
Ion Ratio	Lower	Upper	
43	100		
61	18.0	15.8	23.8
87	11.4	12.0	18.0#

Manual Integrations
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#44

Trichloroethene

Concen: 48.617 ug/l

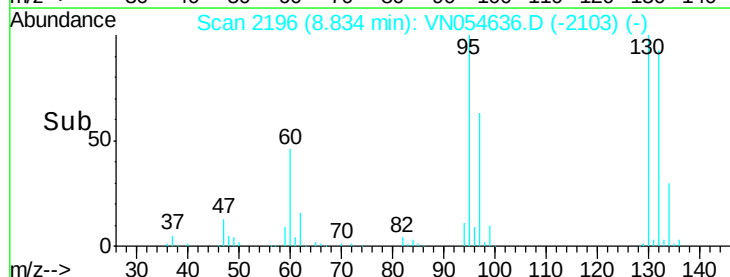
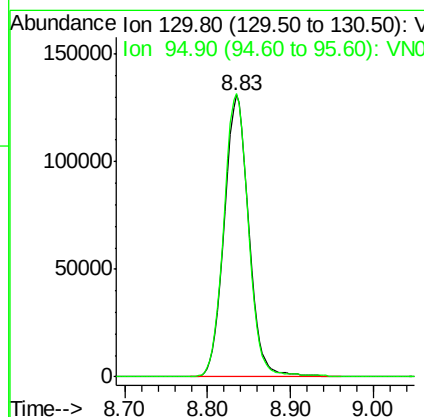
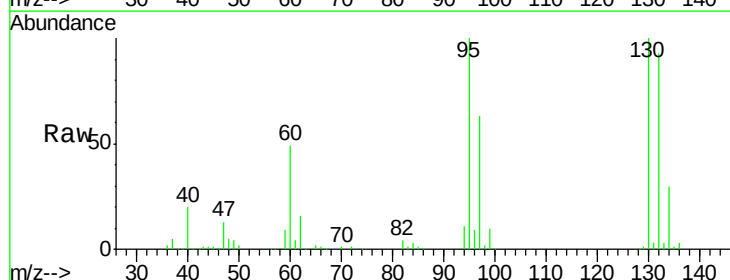
RT: 8.83 min Scan# 2196

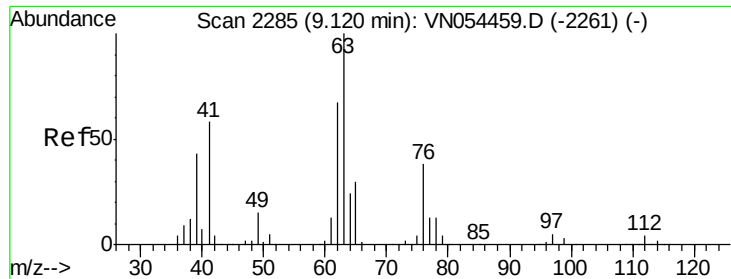
Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Tgt Ion:	130	Resp:	269046
Ion Ratio	Lower	Upper	
130	100		
95	100.4	0.0	185.2





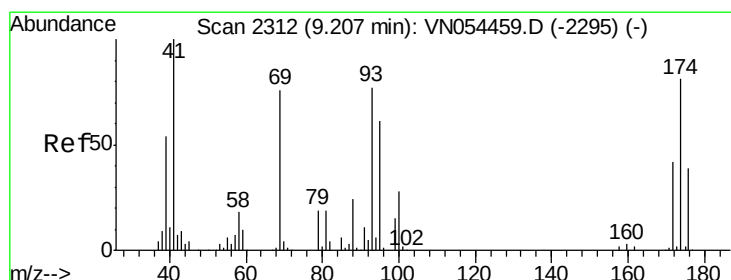
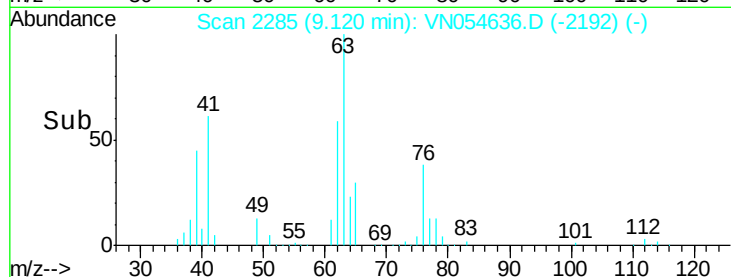
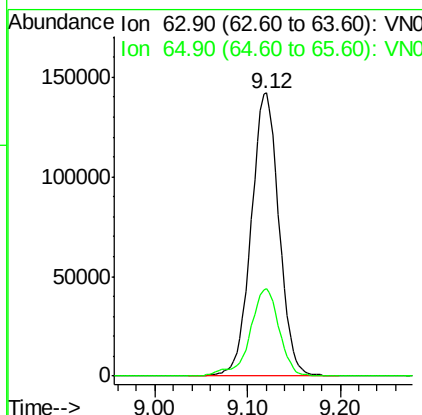
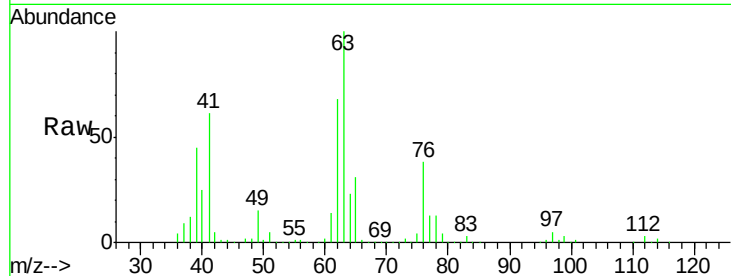
#45
 1,2-Dichloropropane
 Concen: 55.249 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 63 Resp: 295301
 Ion Ratio Lower Upper
 63 100
 65 31.0 25.0 37.6

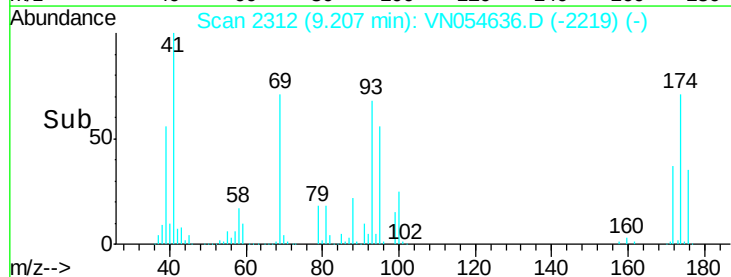
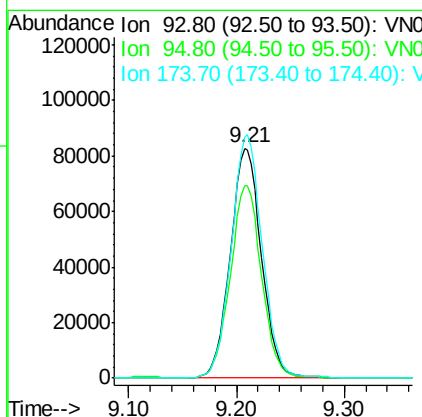
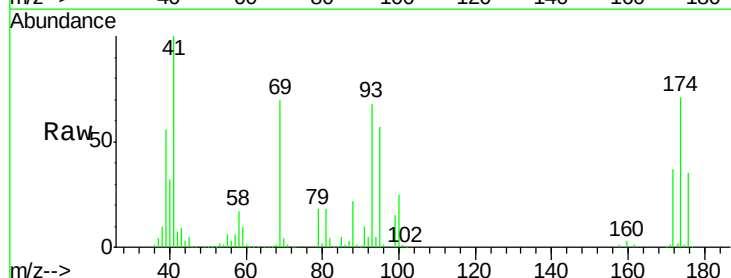
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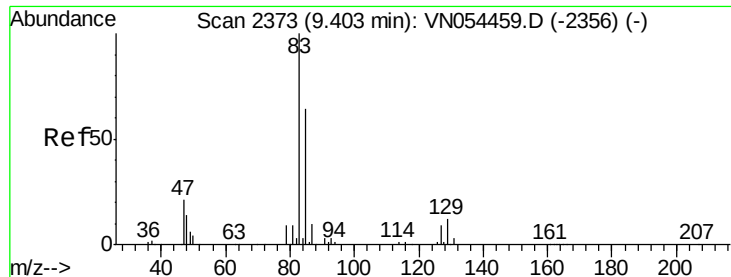
MMDadoda
 3/25/2019 10:09:18 AM



#46
 Dibromomethane
 Concen: 52.260 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Tgt Ion: 93 Resp: 166638
 Ion Ratio Lower Upper
 93 100
 95 83.9 66.7 100.1
 174 105.8 98.5 147.7





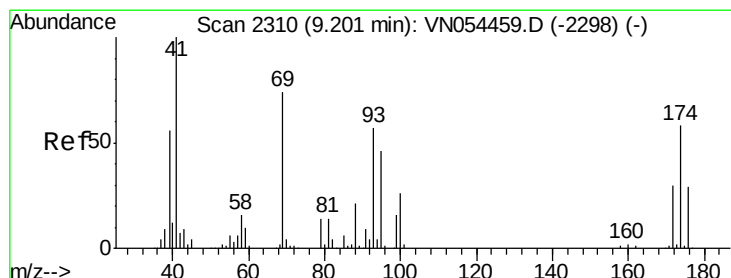
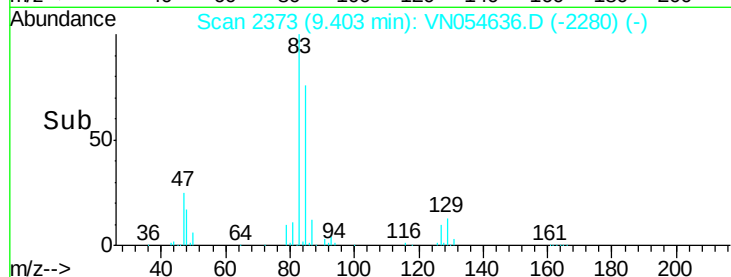
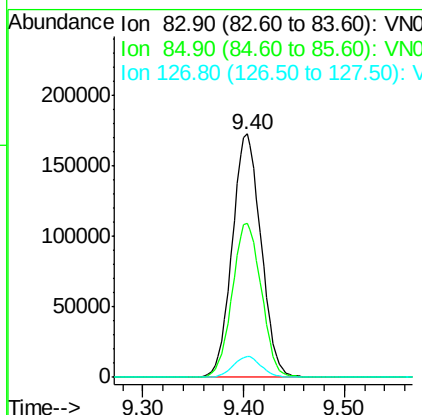
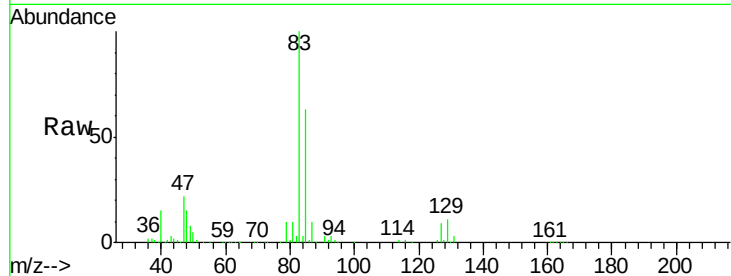
#47
Bromodichloromethane
Concen: 51.832 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	63.3	52.8	79.2	
127	8.7	7.4	11.2	

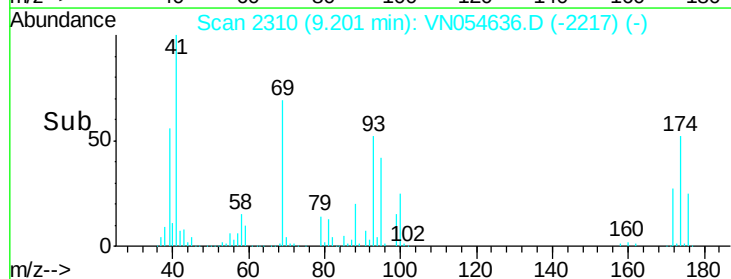
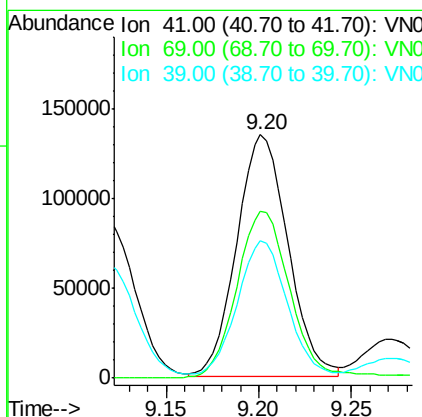
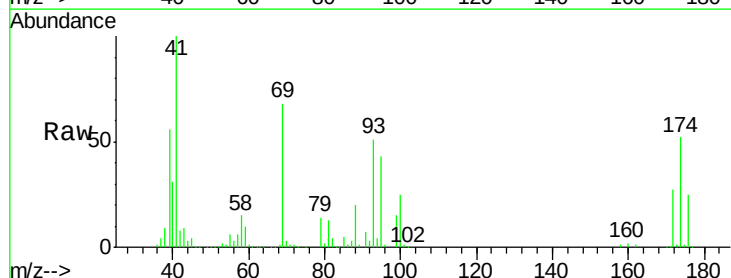
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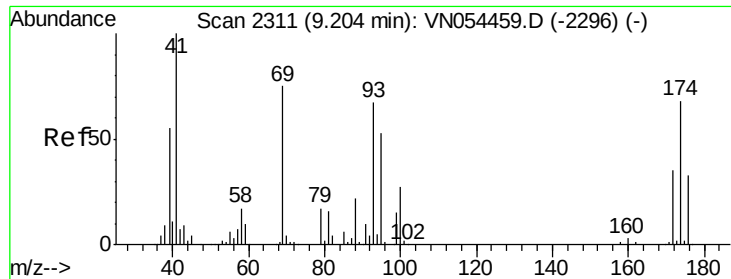
MMDadoda
3/25/2019 10:09:18 AM



#48
Methyl methacrylate
Concen: 57.010 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	72.5	72.6	108.8#	
39	55.6	47.5	71.3	





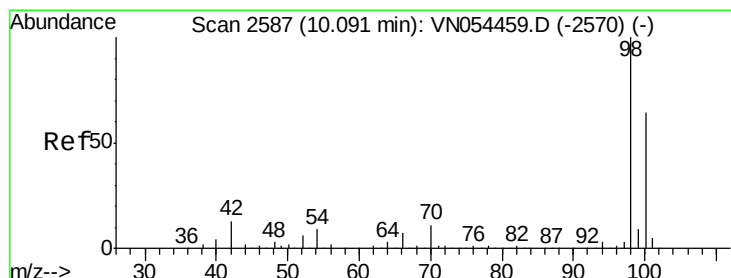
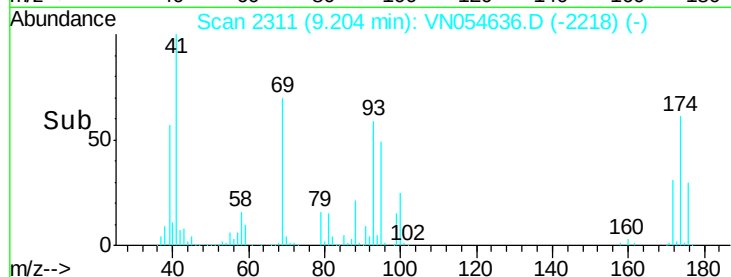
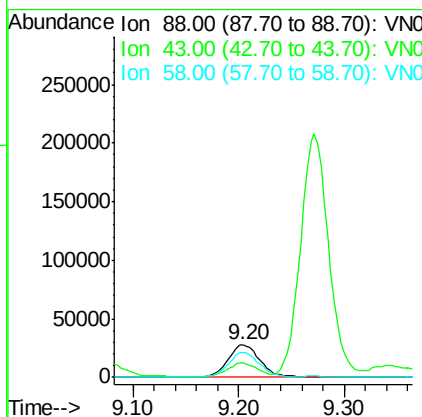
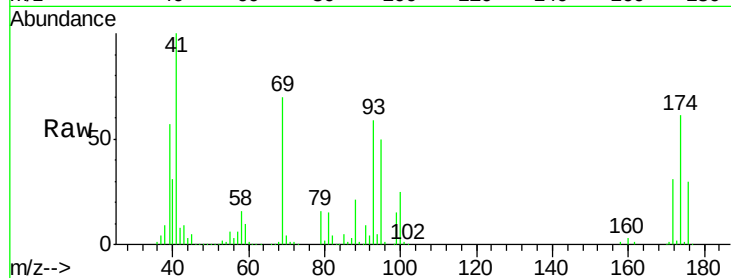
#49
1,4-Dioxane
Concen: 1158.912 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.7	24.1	36.1#
58	75.1	50.8	76.2

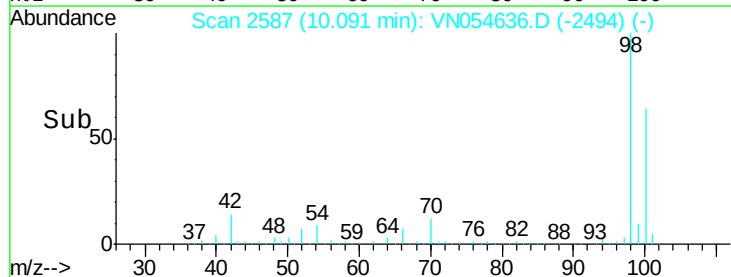
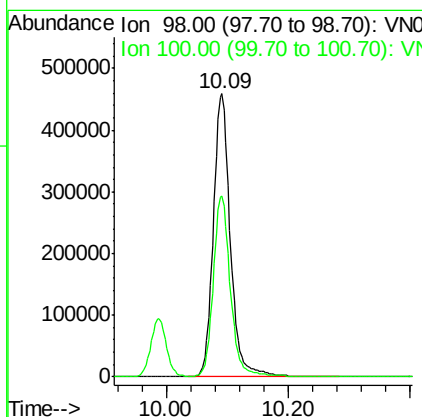
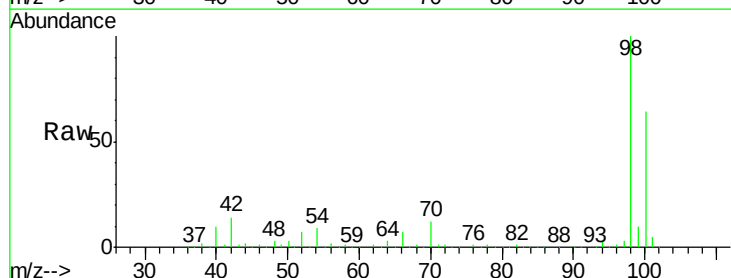
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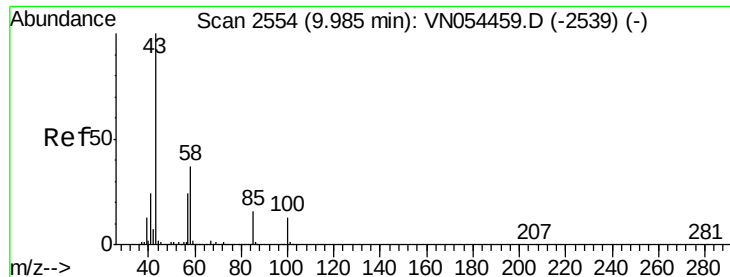
MMDadoda
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#50
Toluene-d8
Concen: 49.788 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 308.089 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1427624

Ion Ratio Lower Upper

43 100

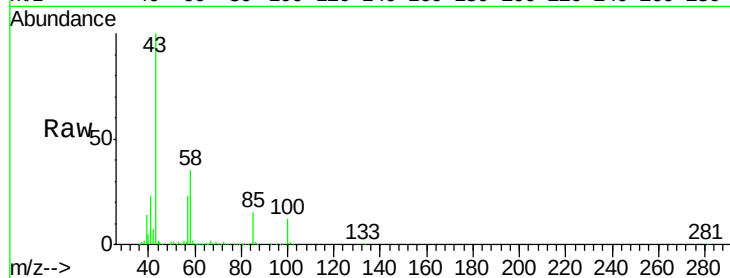
58 35.5 31.8 47.6

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

800000

600000

400000

200000

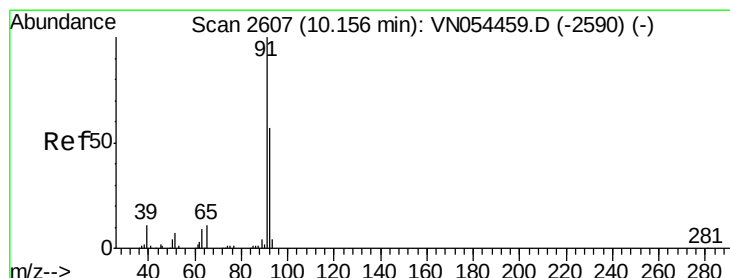
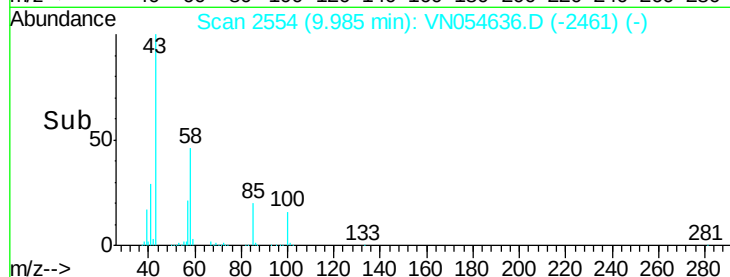
0

9.90

10.00

10.10

Time-->



#52

Toluene

Concen: 50.517 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054636.D

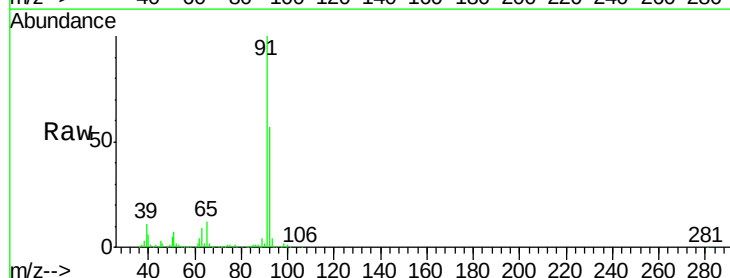
Acq: 24 Mar 2019 6:38

Tgt Ion: 92 Resp: 618448

Ion Ratio Lower Upper

92 100

91 175.3 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

600000

500000

400000

300000

200000

100000

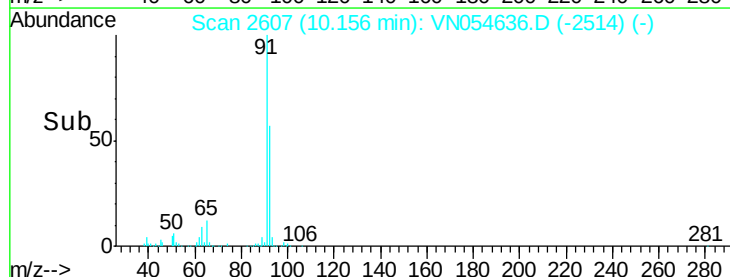
0

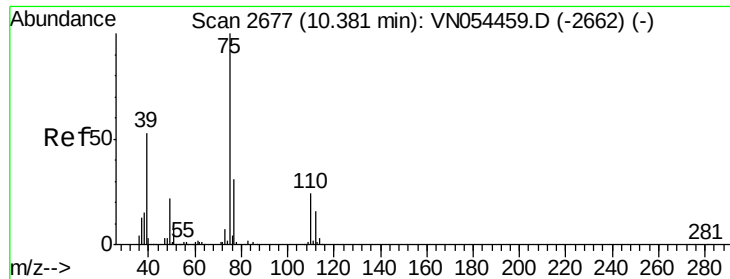
10.10

10.20

10.30

Time-->





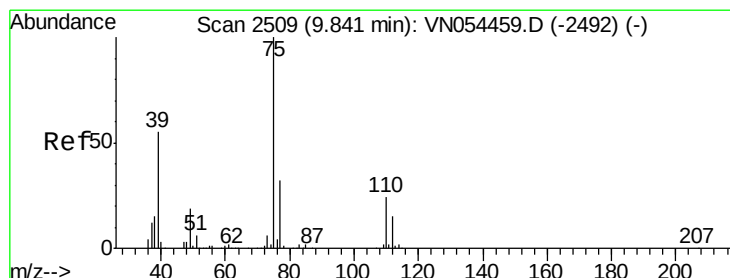
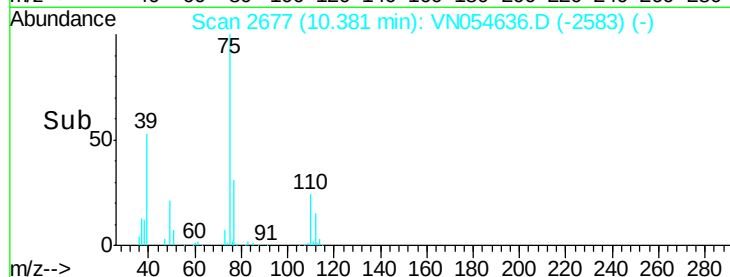
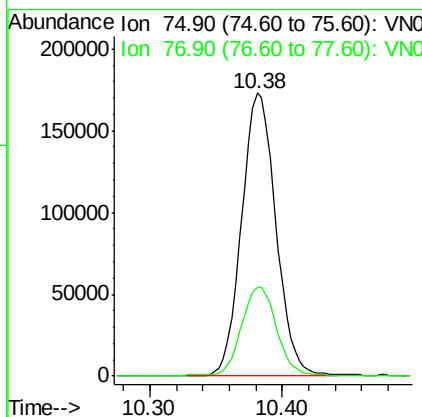
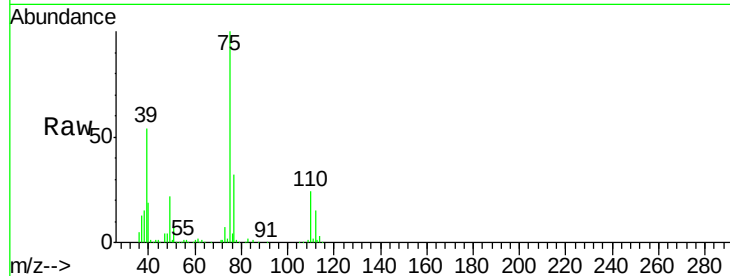
#53
t-1,3-Dichloropropene
Concen: 44.823 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.8	38.8

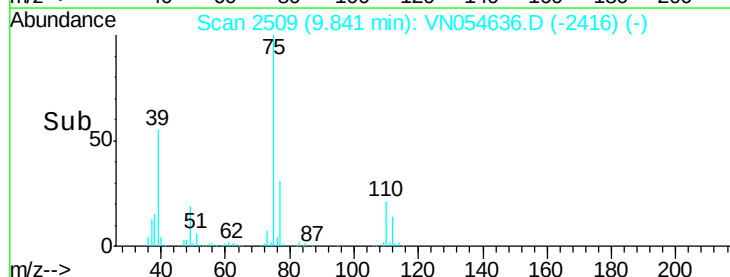
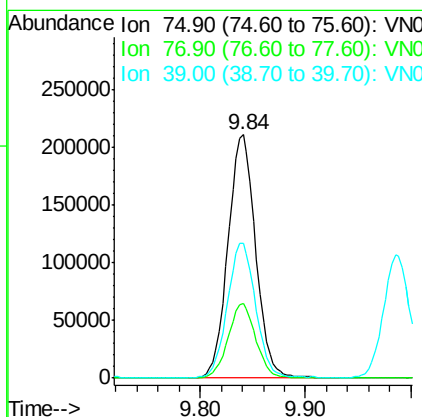
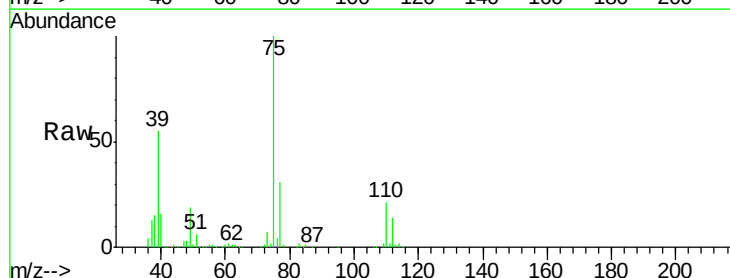
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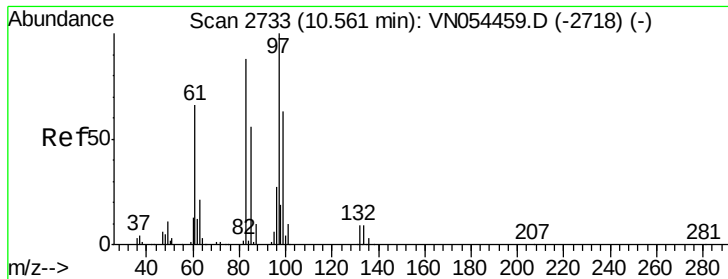
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#54
cis-1,3-Dichloropropene
Concen: 50.435 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.4	38.0
39	55.2	37.2	55.8





#55

1,1,2-Trichloroethane

Concen: 53.404 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

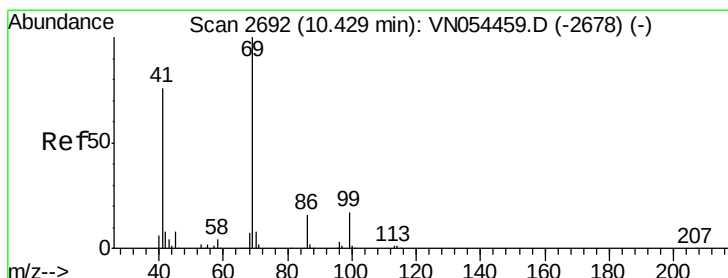
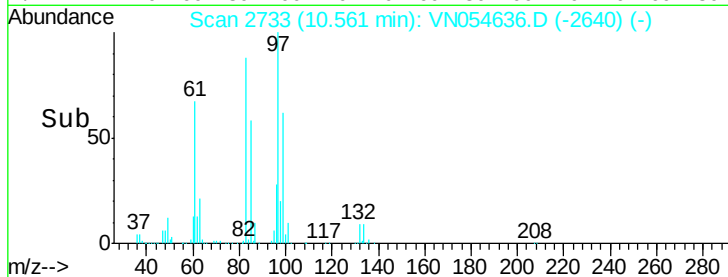
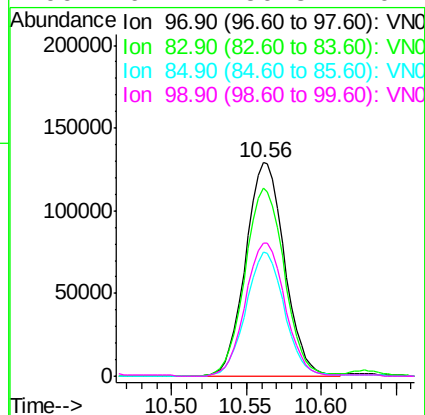
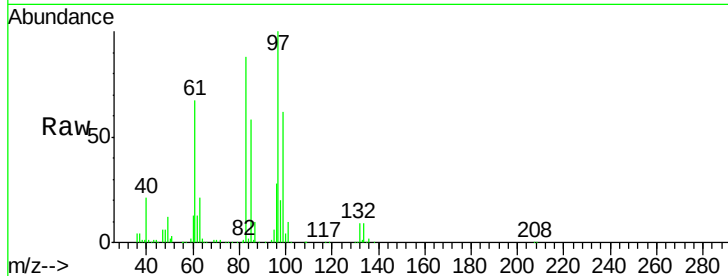
ClientSampleId :

VSTDCCC050EC

Tot Ion:	97	Resp:	235017
Ion Ratio	Lower	Upper	
97	100		
83	88.2	66.6	100.0
85	58.0	44.4	66.6
99	62.1	50.8	76.2

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#56

Ethyl methacrylate

Concen: 56.799 ug/l

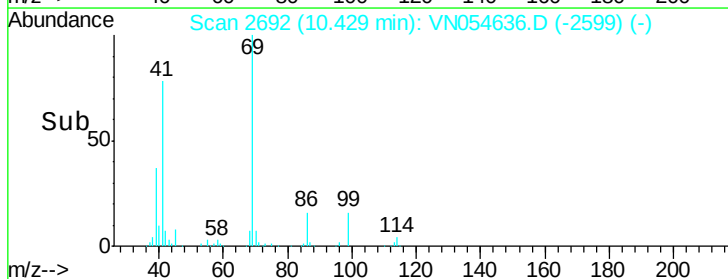
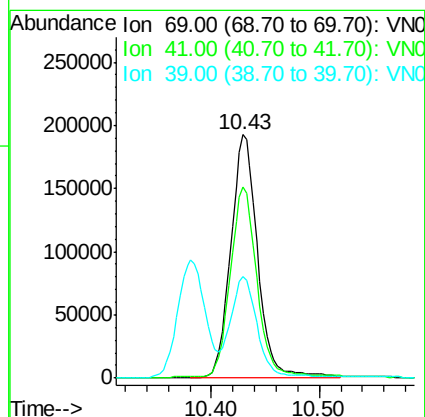
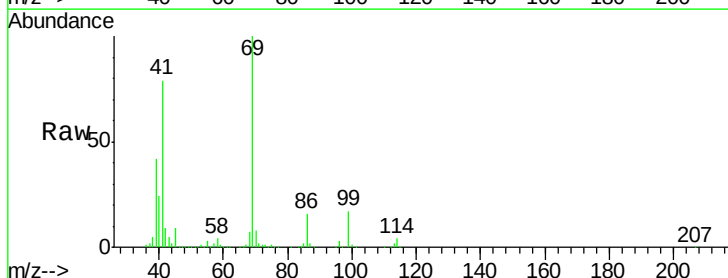
RT: 10.43 min Scan# 2692

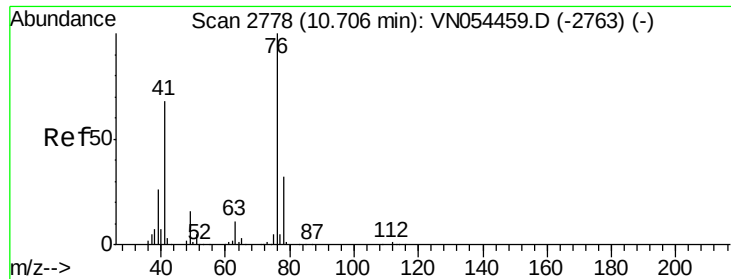
Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Tgt Ion:	69	Resp:	335492
Ion Ratio	Lower	Upper	
69	100		
41	77.4	49.4	74.2#
39	38.6	28.3	42.5





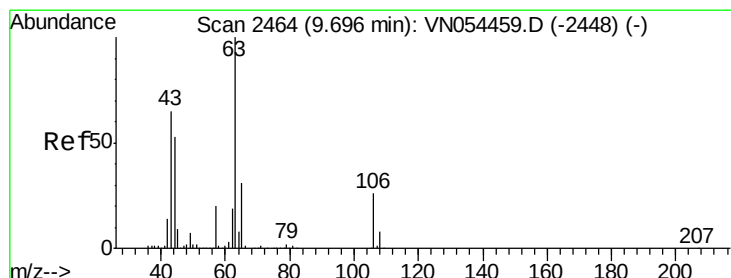
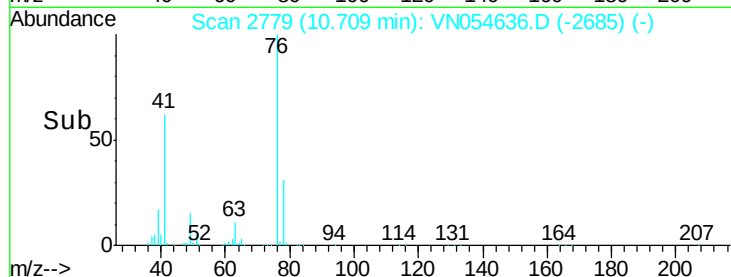
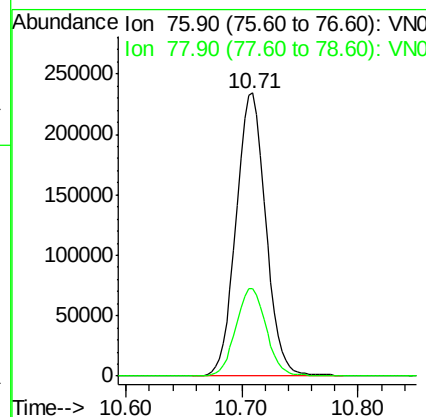
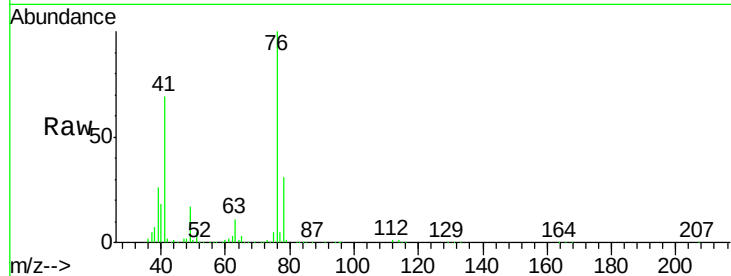
#57
 1,3-Dichloropropane
 Concen: 54.413 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 76 Resp: 416247
 Ion Ratio Lower Upper
 76 100
 78 31.7 25.7 38.5

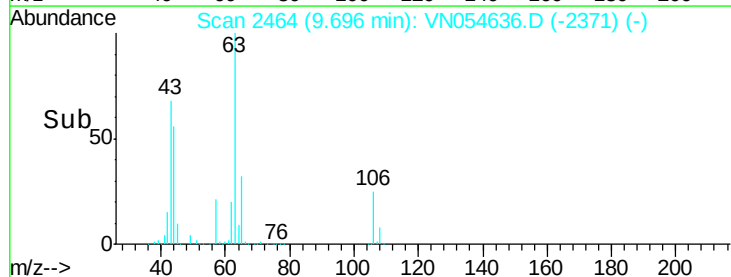
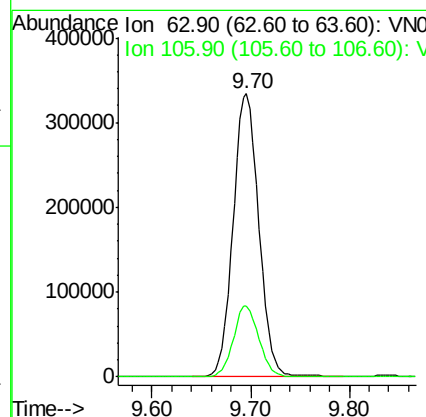
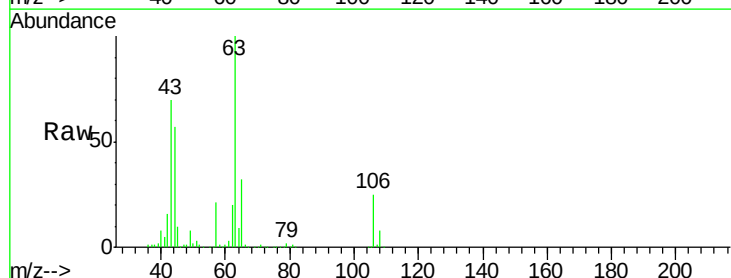
Manual Integrations
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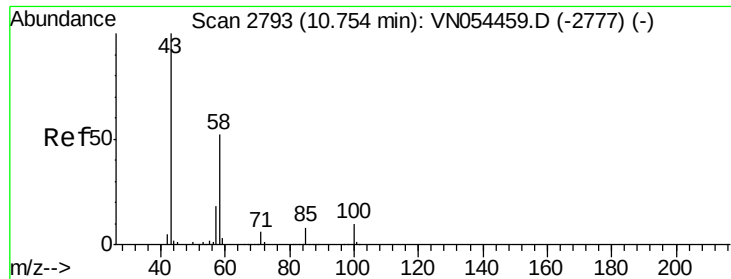
MMDadoda
 3/25/2019 10:09:18 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 250.621 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Tgt Ion: 63 Resp: 609566
 Ion Ratio Lower Upper
 63 100
 106 24.7 24.4 36.6





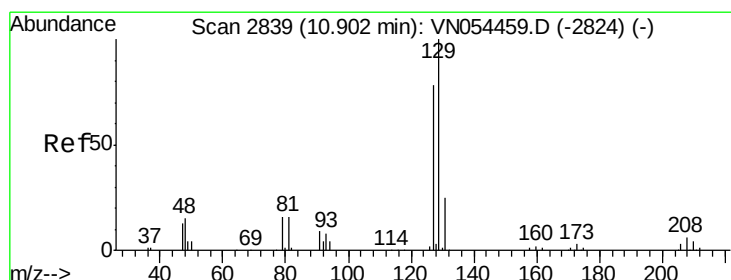
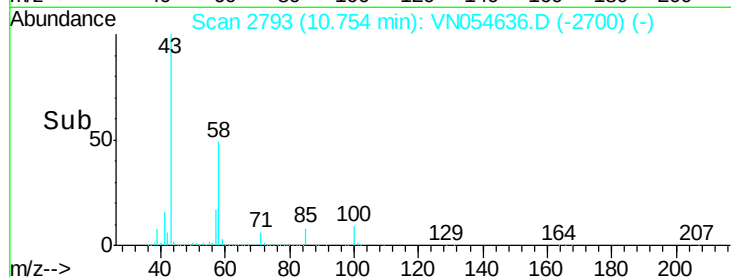
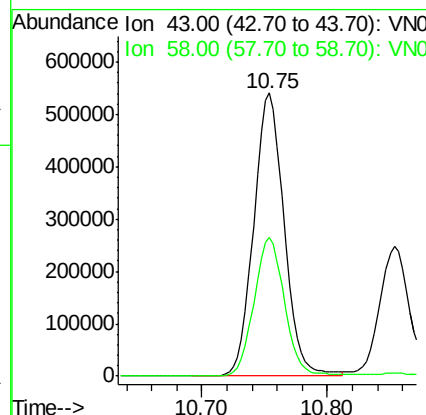
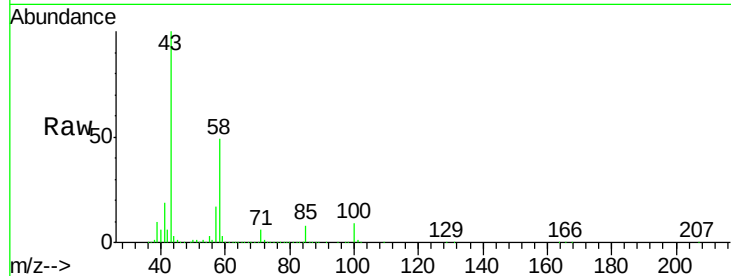
#59
2-Hexanone
Concen: 300.427 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 909315
Ion Ratio Lower Upper
43 100
58 49.5 28.0 83.9

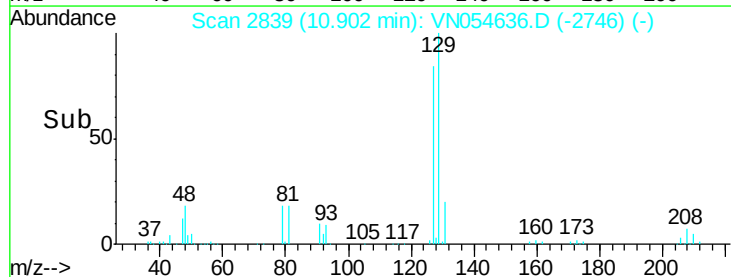
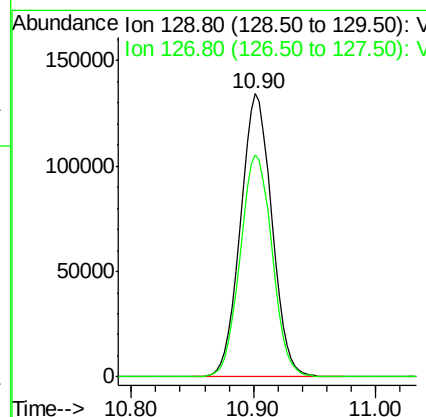
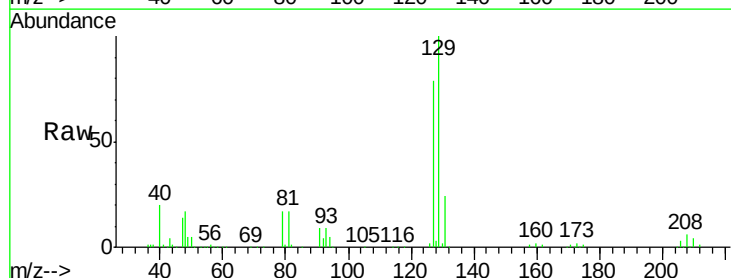
Manual Integrations
APPROVED

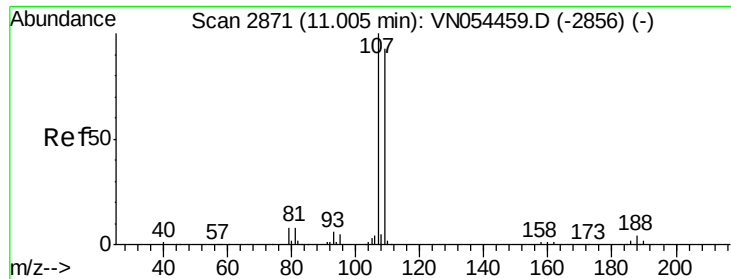
MMDadoda
3/25/2019 10:09:18 AM



#60
Dibromochloromethane
Concen: 50.739 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion: 129 Resp: 237600
Ion Ratio Lower Upper
129 100
127 80.4 38.6 115.8





#61

1,2-Dibromoethane

Concen: 53.466 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 107 Resp: 232612

Ion Ratio Lower Upper

107 100

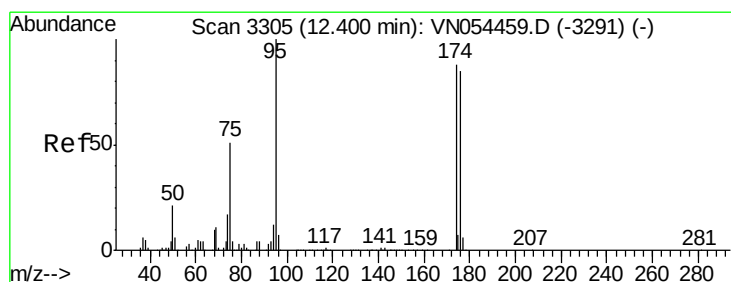
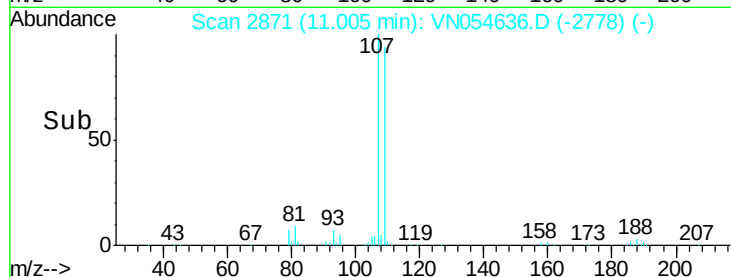
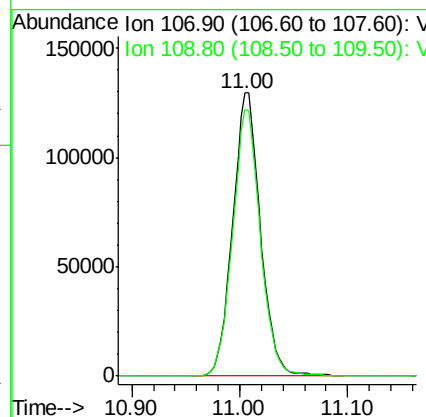
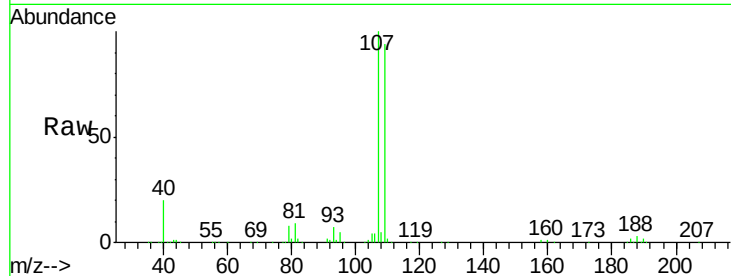
109 94.4 75.9 113.9

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 51.296 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

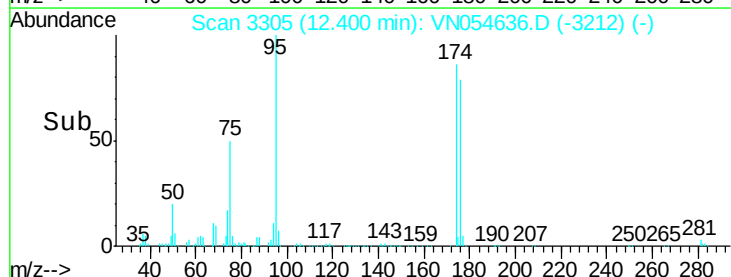
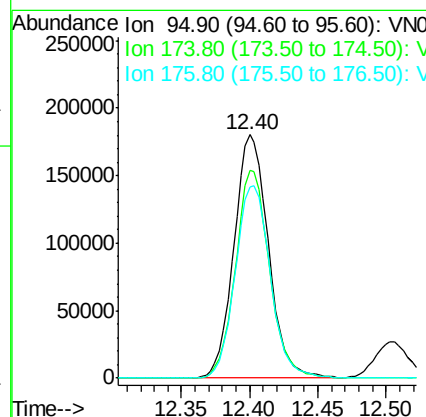
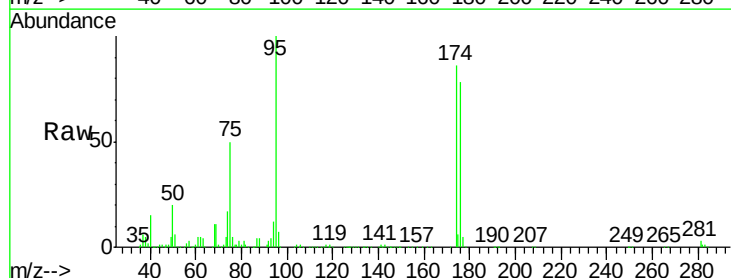
Tgt Ion: 95 Resp: 314732

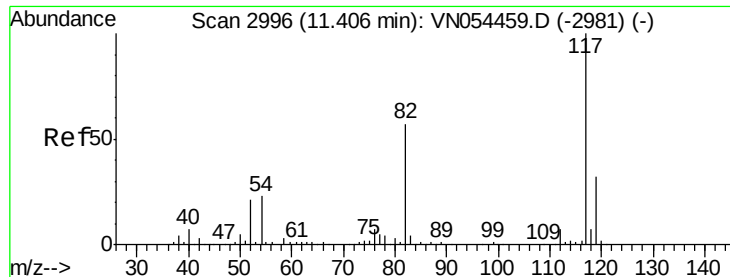
Ion Ratio Lower Upper

95 100

174 84.8 0.0 191.0

176 81.0 0.0 187.4





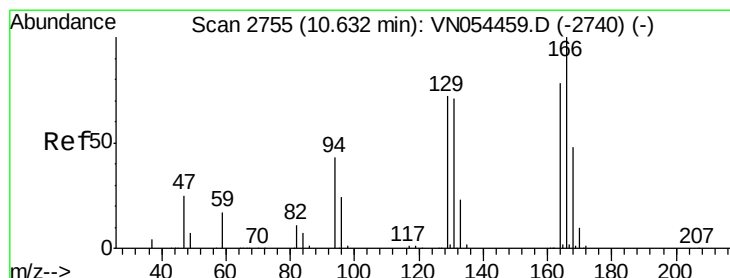
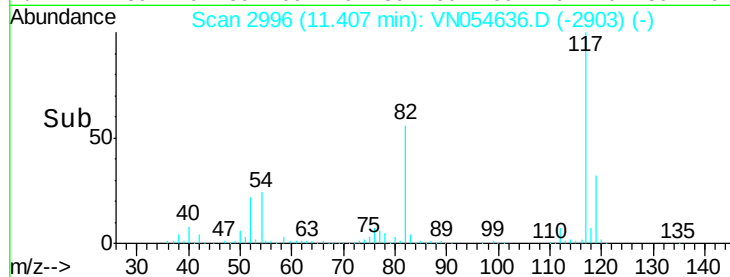
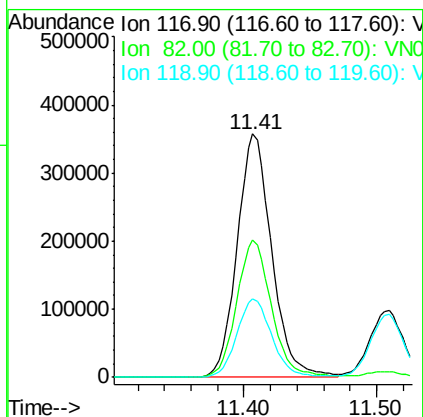
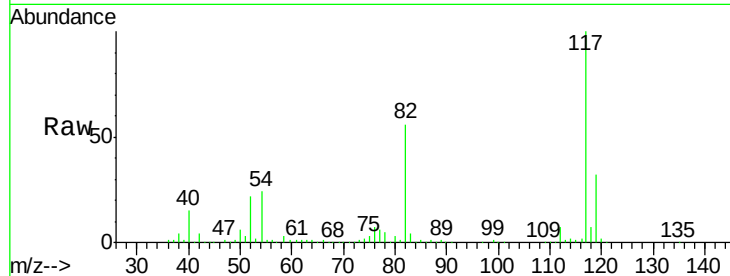
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.3	40.0	60.0
119	32.3	25.8	38.6

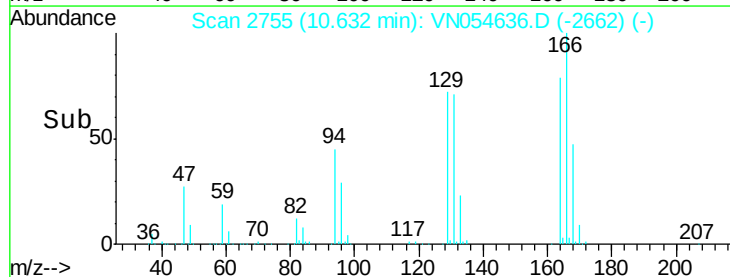
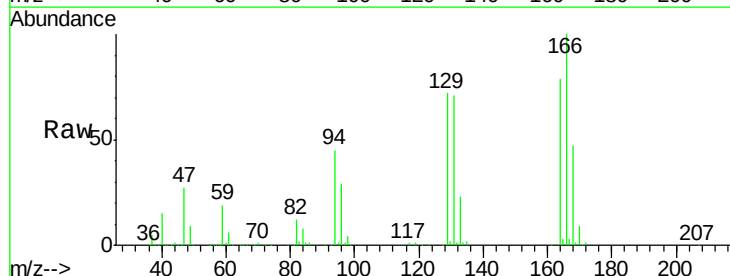
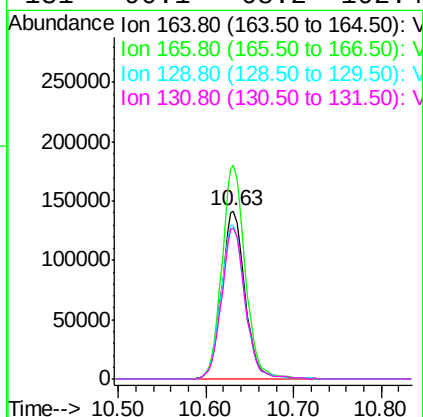
Manual Integrations
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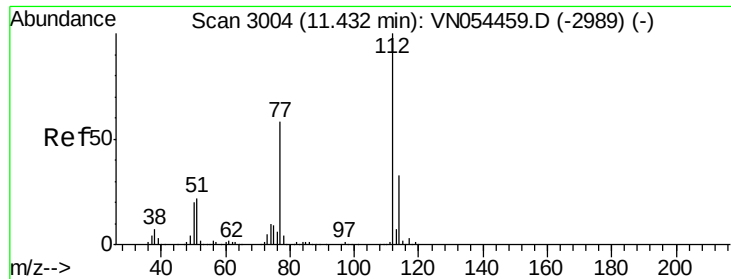
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#64
Tetrachloroethene
Concen: 48.842 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.0	103.9	155.9
129	91.1	71.1	106.7
131	90.1	68.2	102.4





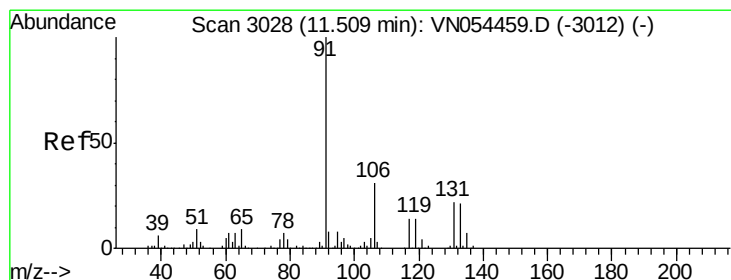
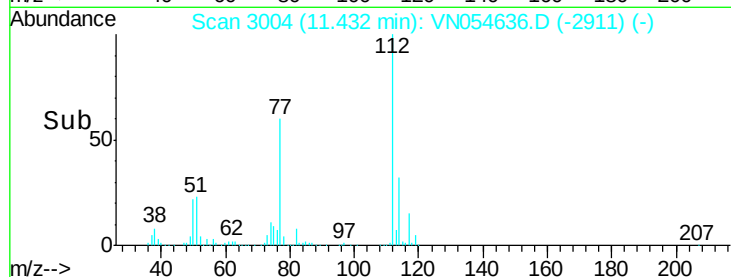
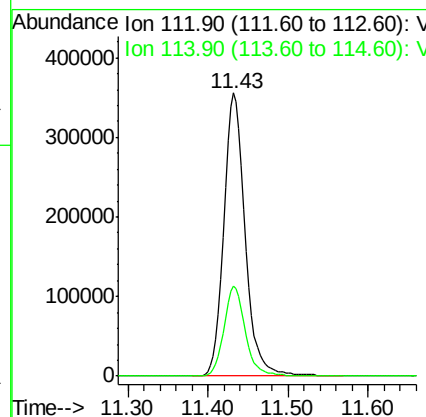
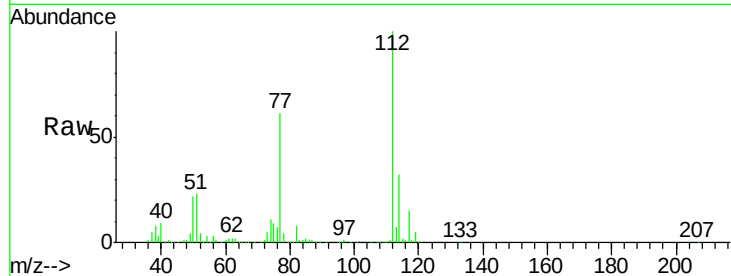
#65
Chlorobenzene
Concen: 49.783 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 657403
Ion Ratio Lower Upper
112 100
114 31.7 25.9 38.9

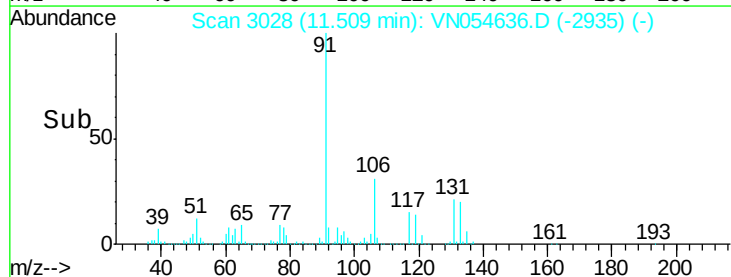
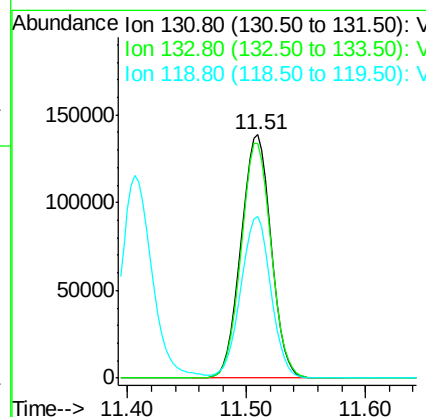
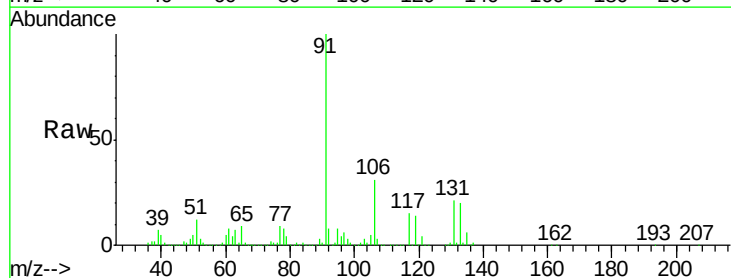
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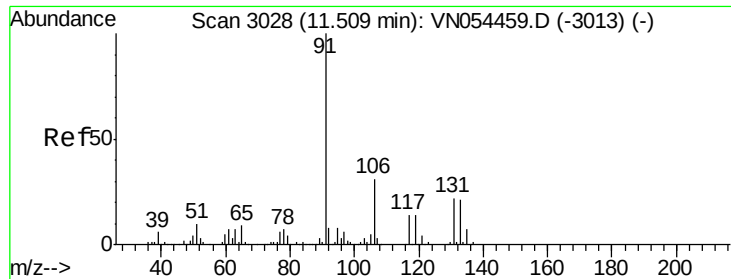
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 51.340 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion:131 Resp: 243345
Ion Ratio Lower Upper
131 100
133 96.3 47.6 142.9
119 66.3 32.4 97.0





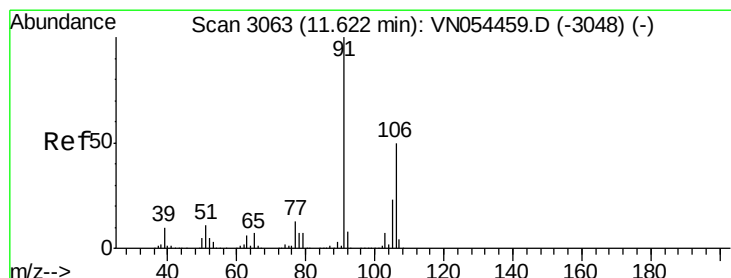
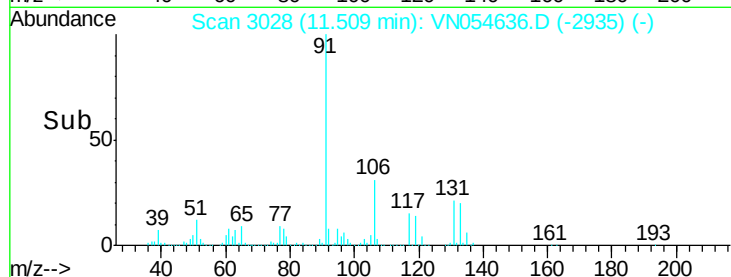
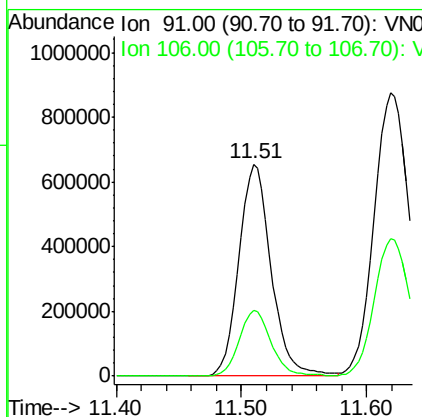
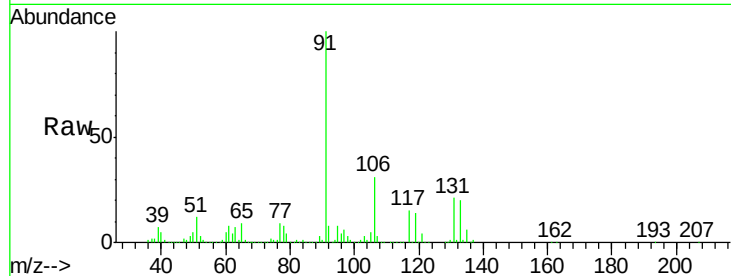
#67
Ethyl Benzene
Concen: 50.266 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050EC

Tot Ion: 91 Resp: 1172531
Ion Ratio Lower Upper
91 100
106 31.0 25.5 38.3

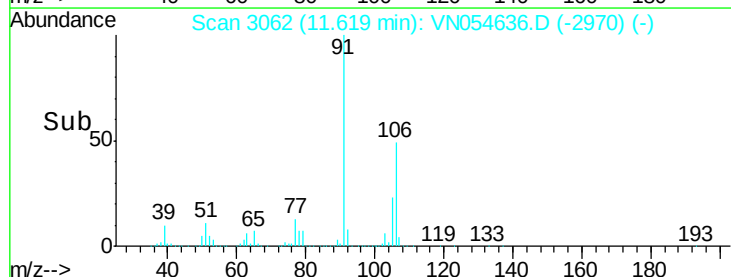
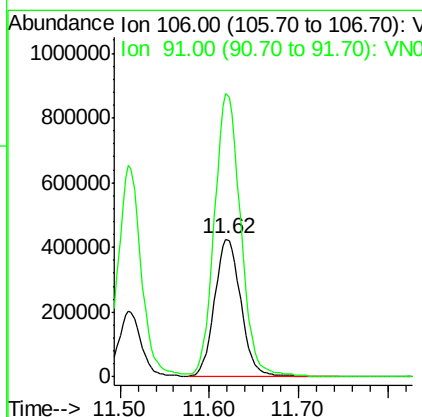
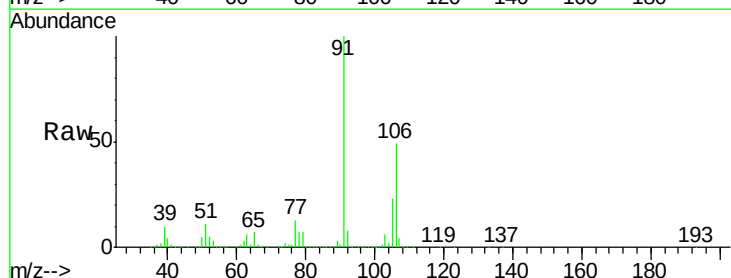
Manual Integrations
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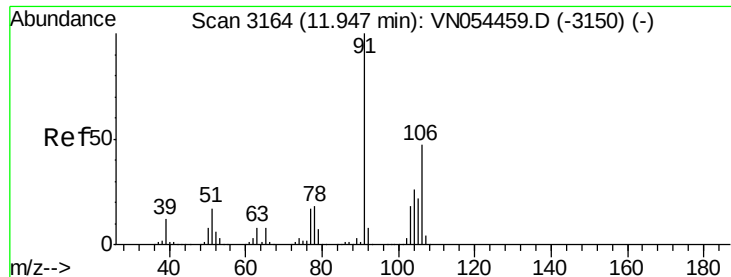
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#68
m/p-Xylenes
Concen: 98.408 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion: 106 Resp: 869493
Ion Ratio Lower Upper
106 100
91 206.7 159.4 239.2





#69

o-Xylene

Concen: 49.929 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:106 Resp: 430828

Ion Ratio Lower Upper

106 100

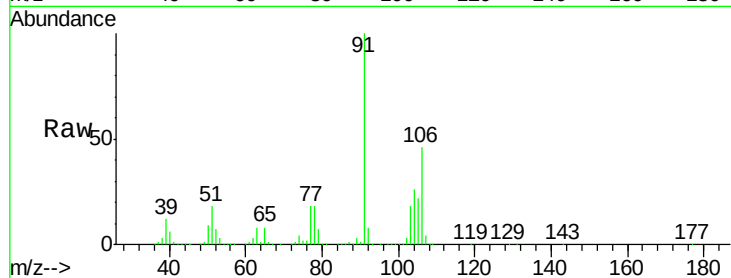
91 216.1 105.7 317.1

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

600000

500000

400000

300000

200000

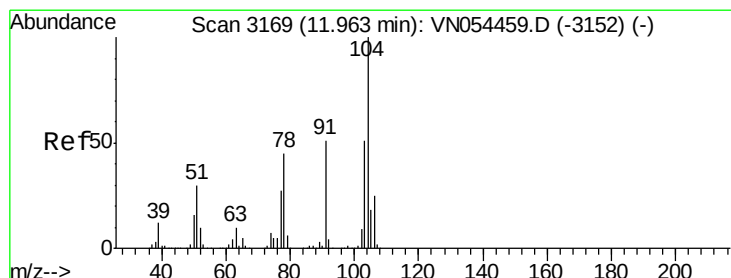
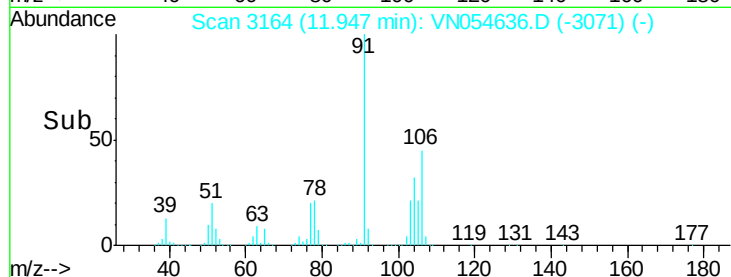
100000

0

11.95

11.90 12.00 12.10

Time-->



#70

Styrene

Concen: 51.710 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

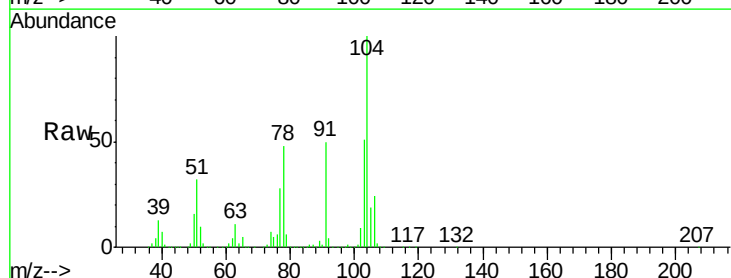
Tgt Ion:104 Resp: 724588

Ion Ratio Lower Upper

104 100

78 52.5 38.2 57.2

103 55.7 44.4 66.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V

500000

400000

300000

200000

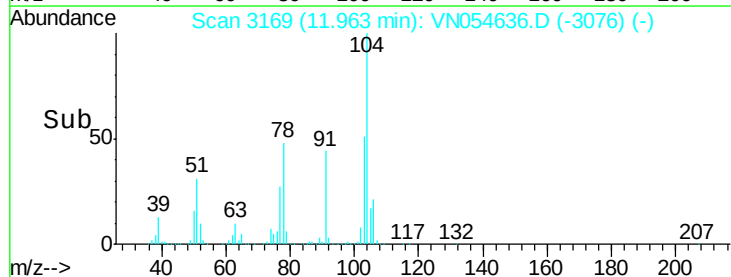
100000

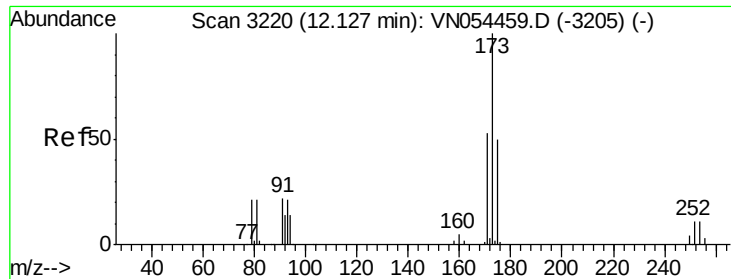
0

11.96

11.90 12.00 12.10

Time-->





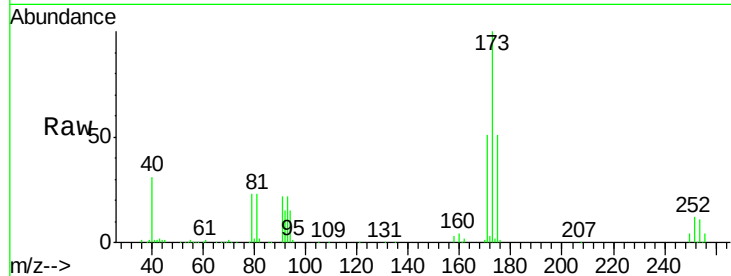
#71
Bromoform
Concen: 46.027 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

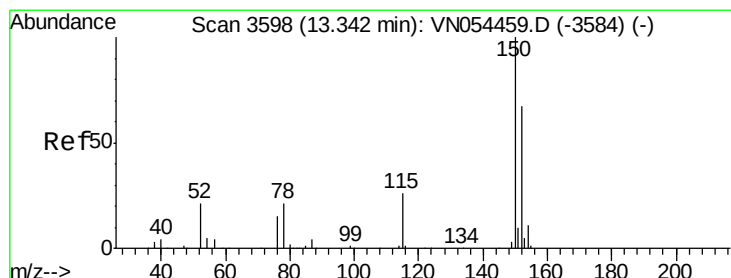
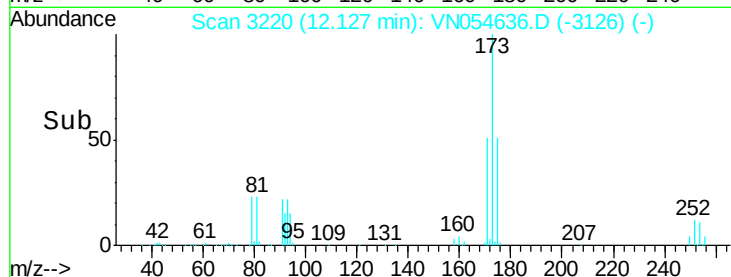
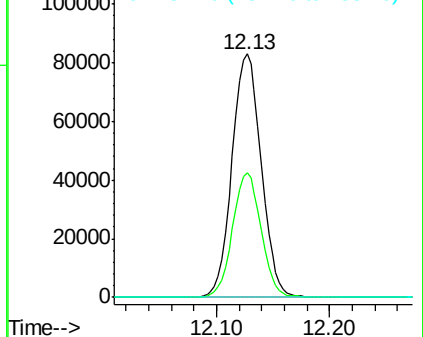
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.4	73.2
254	0.1	0.1	0.1#

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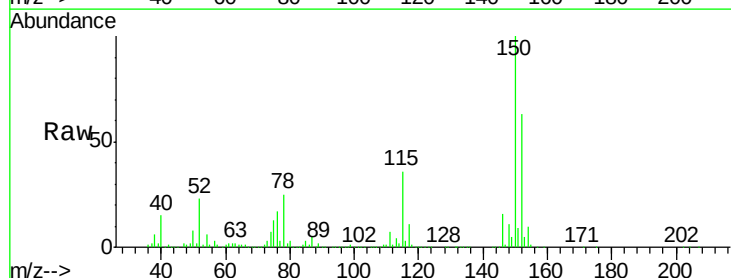


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

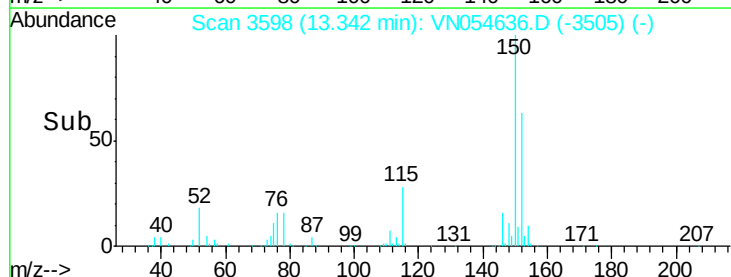
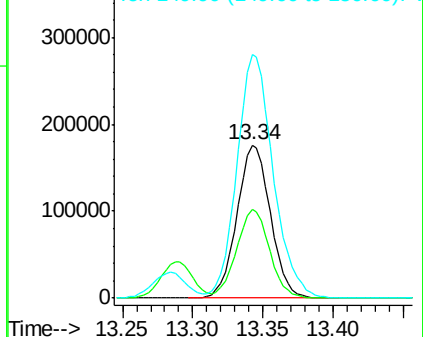


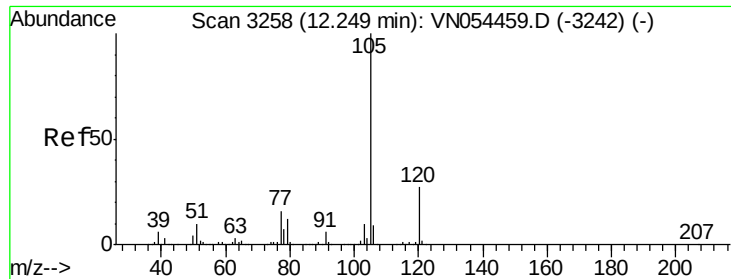
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.0	27.2	81.6
150	172.6	0.0	349.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





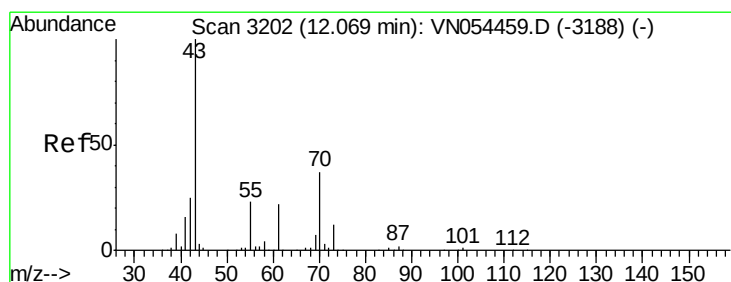
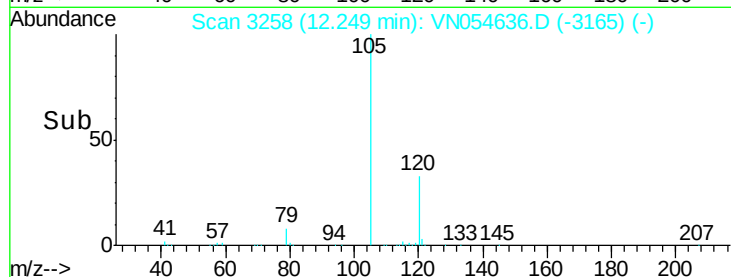
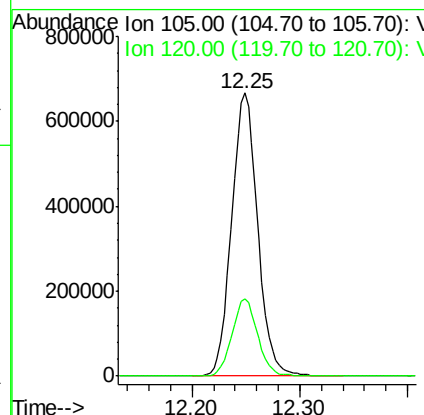
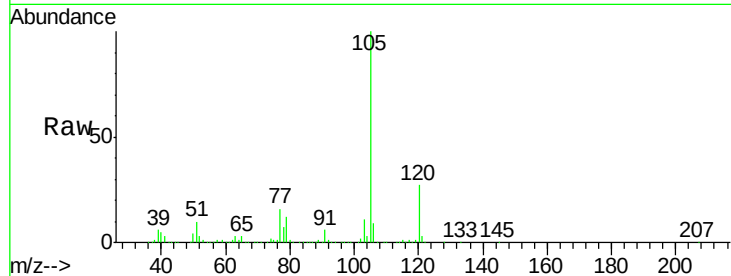
#73
Isopropylbenzene
Concen: 47.578 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:105 Resp: 1122379
Ion Ratio Lower Upper
105 100
120 26.8 13.8 41.3

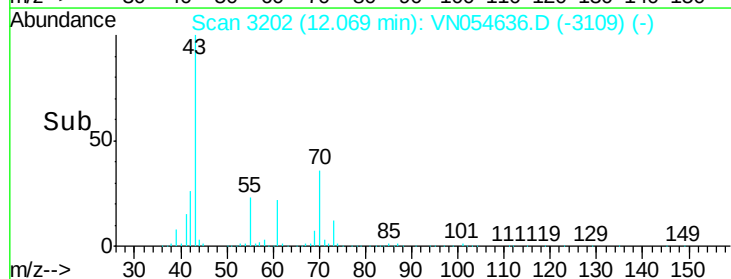
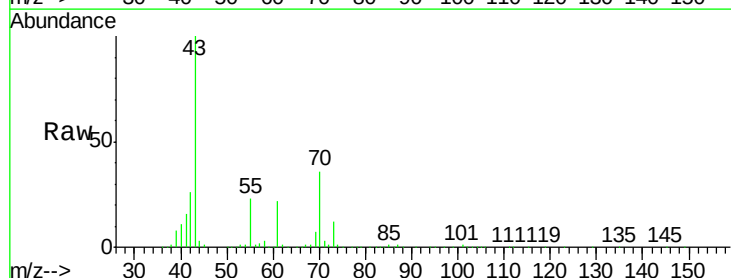
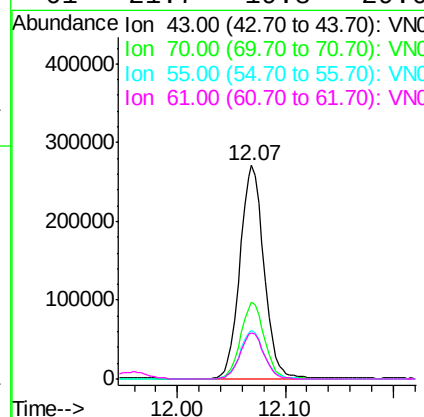
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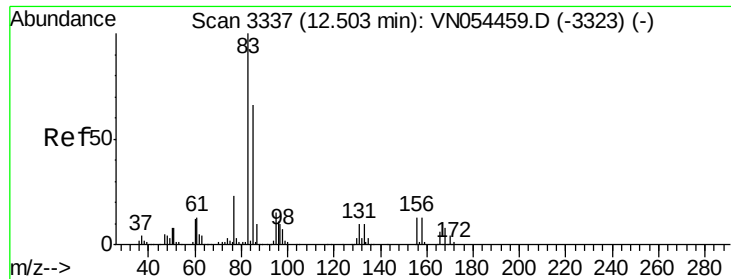
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#74
N-ethyl acetate
Concen: 62.172 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion: 43 Resp: 421721
Ion Ratio Lower Upper
43 100
70 36.0 35.4 53.0
55 22.5 19.8 29.6
61 21.7 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 55.438 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

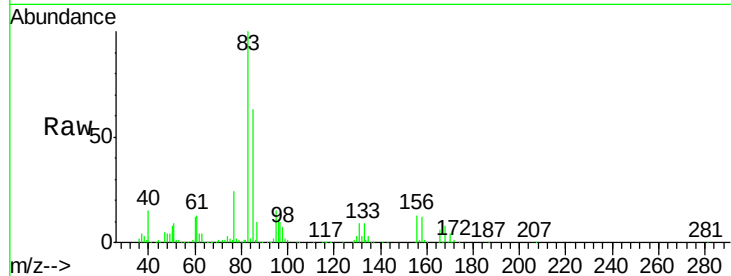
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	298541
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.8	17.4
85	63.4	32.2	96.6

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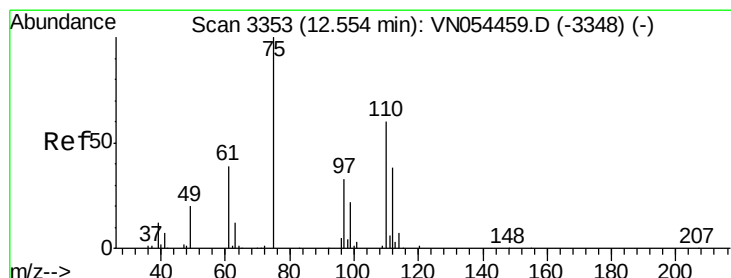
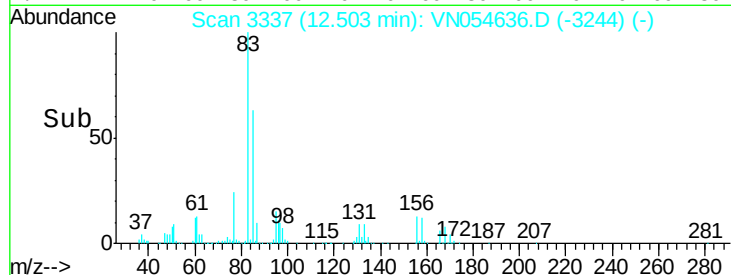
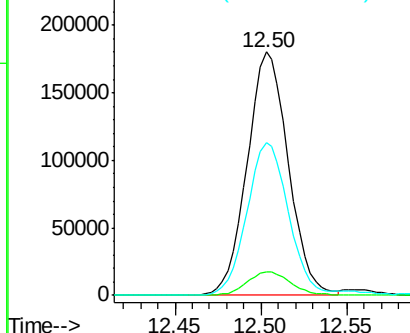
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Abundance Ion 82.90 (82.60 to 83.60): VN054459.D (-3323) (-)

Ion 130.80 (130.50 to 131.50): VN054459.D (-3323) (-)

Ion 84.90 (84.60 to 85.60): VN054459.D (-3323) (-)



#76

1,2,3-Trichloropropane

Concen: 57.441 ug/l m

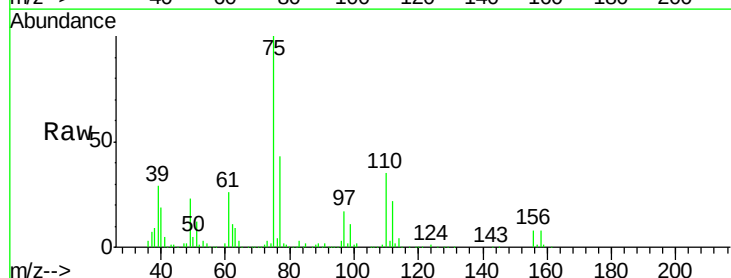
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN054636.D

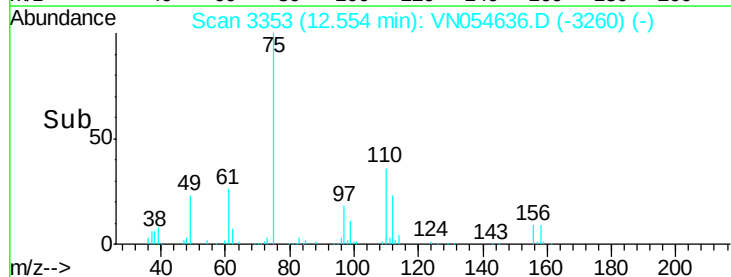
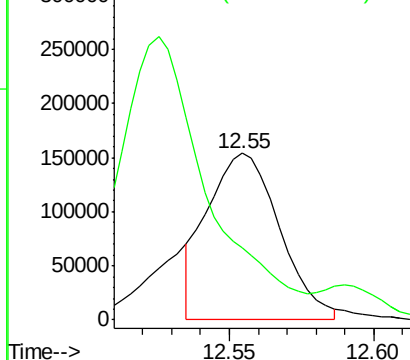
Acq: 24 Mar 2019 6:38

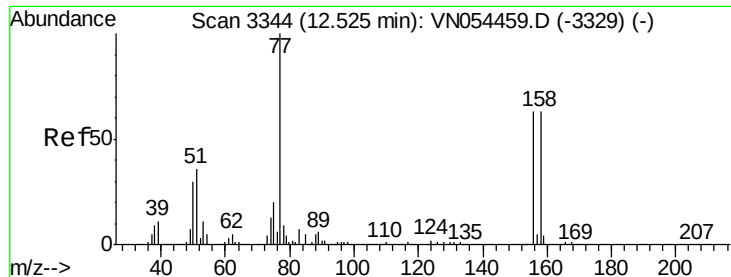
Tgt Ion:	75	Resp:	266843
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN054459.D (-3348) (-)





#77

Bromobenzene

Concen: 49.455 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:156 Resp: 289348

Ion Ratio Lower Upper

156 100

77 192.1 81.5 244.4

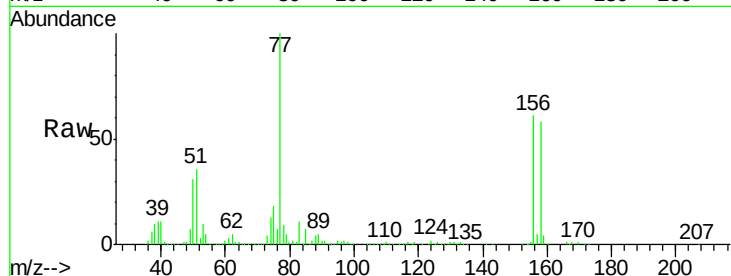
158 94.8 49.0 147.2

Manual Integrations

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MMDadoda

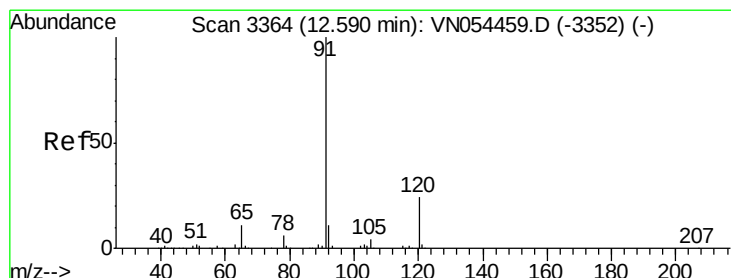
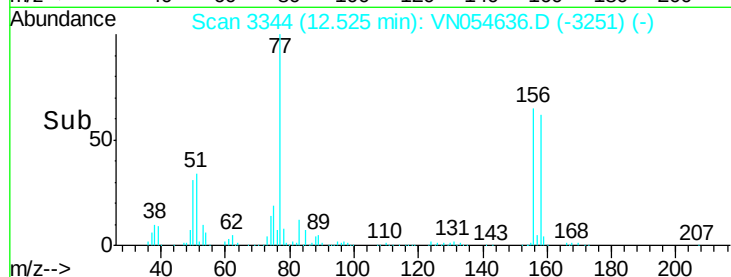
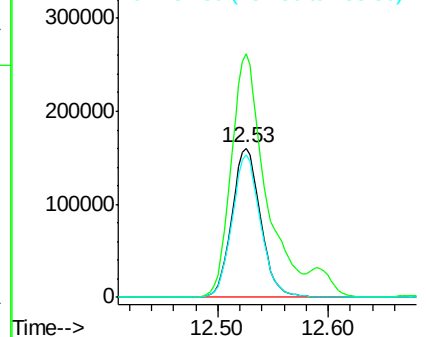
3/25/2019 10:09:18 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 48.370 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054636.D

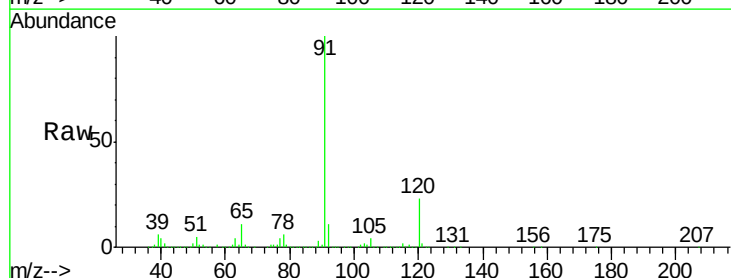
Acq: 24 Mar 2019 6:38

Tgt Ion: 91 Resp: 1237336

Ion Ratio Lower Upper

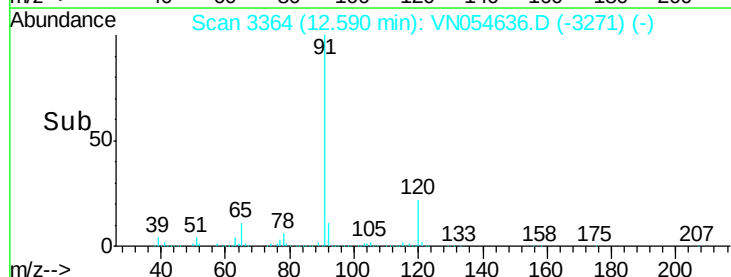
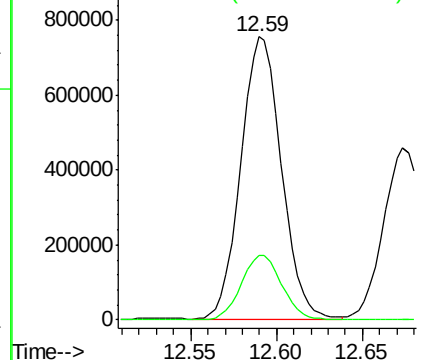
91 100

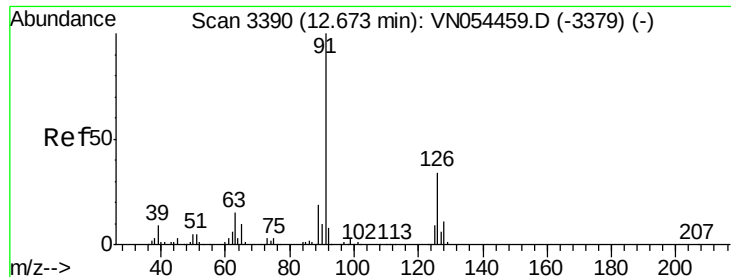
120 22.9 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 48.186 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050EC

Tot Ion: 91 Resp: 768662

Ion Ratio Lower Upper

91 100

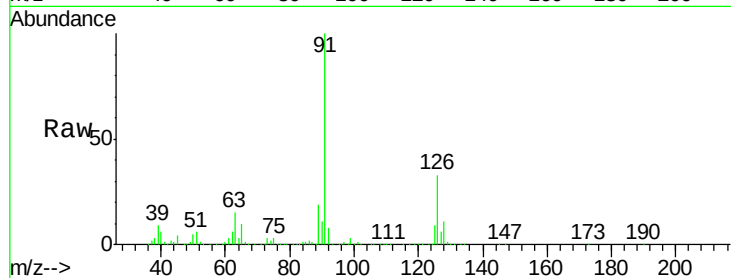
126 34.0 18.7 56.1

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN054459.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN054459.D (-3379) (-)

12.67

400000

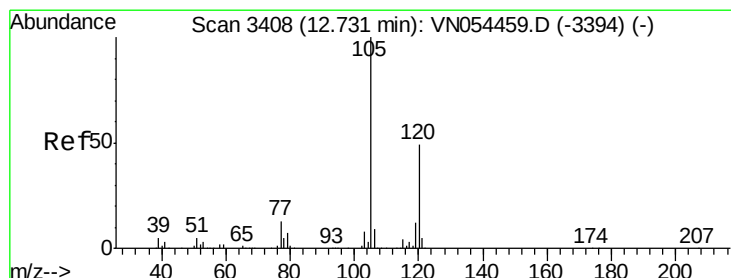
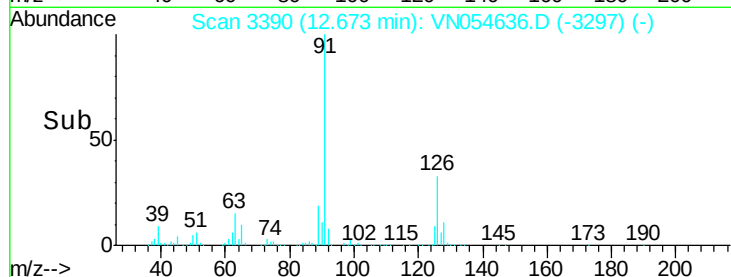
300000

200000

100000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 48.112 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054636.D

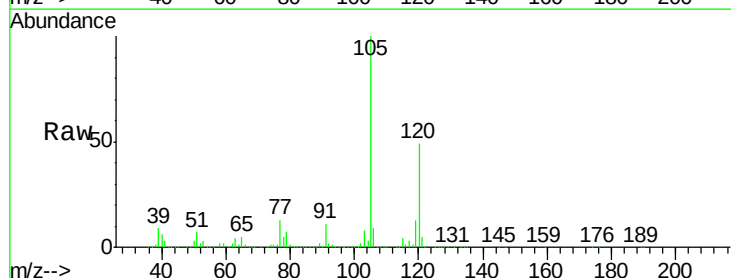
Acq: 24 Mar 2019 6:38

Tgt Ion: 105 Resp: 930219

Ion Ratio Lower Upper

105 100

120 48.9 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054459.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN054459.D (-3394) (-)

12.73

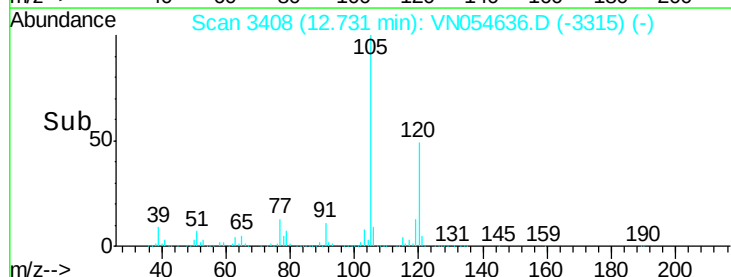
600000

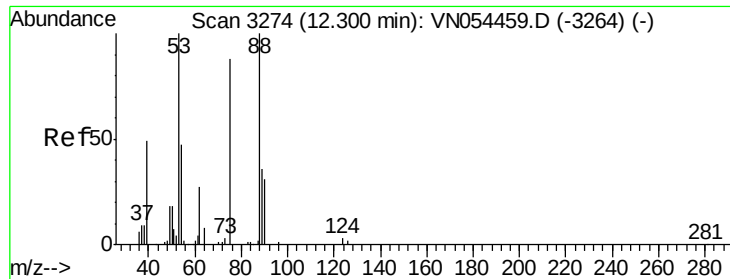
400000

200000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 39.312 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 51999

Ion Ratio Lower Upper

75 100

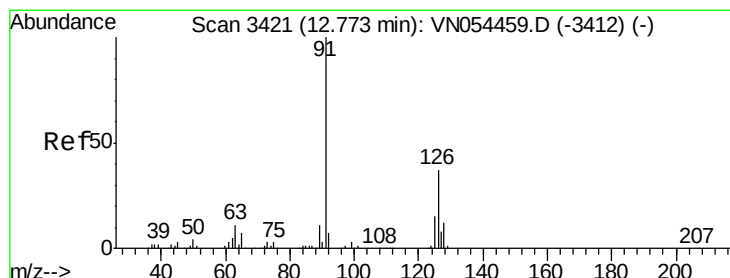
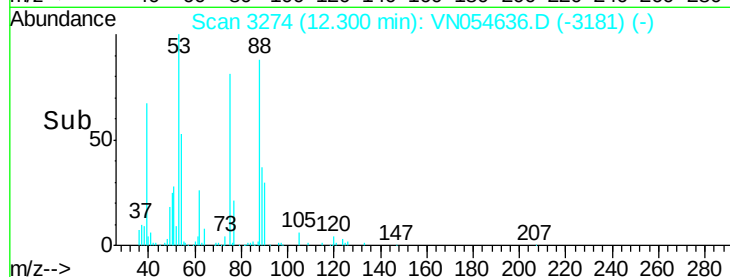
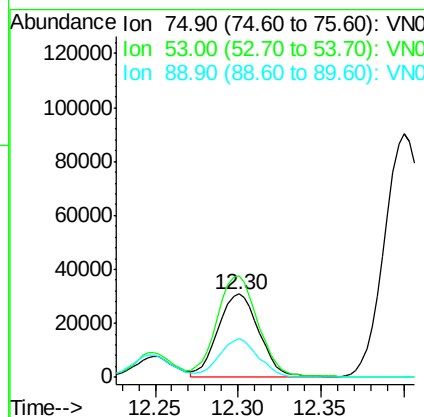
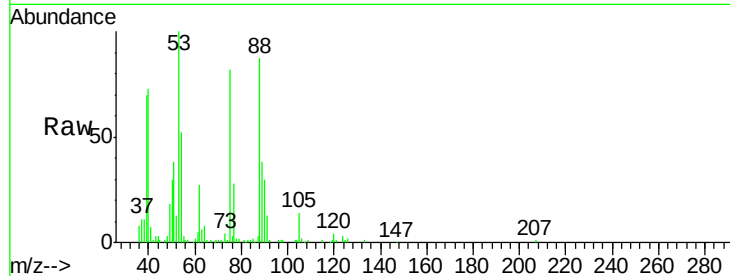
53 126.0 76.2 114.2#

89 43.8 39.2 58.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 49.346 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN054636.D

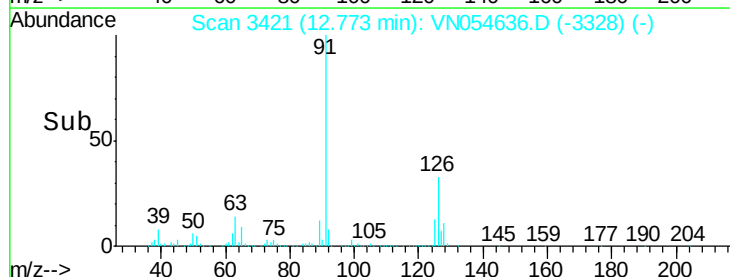
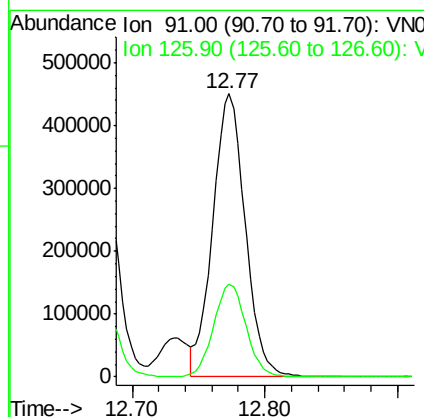
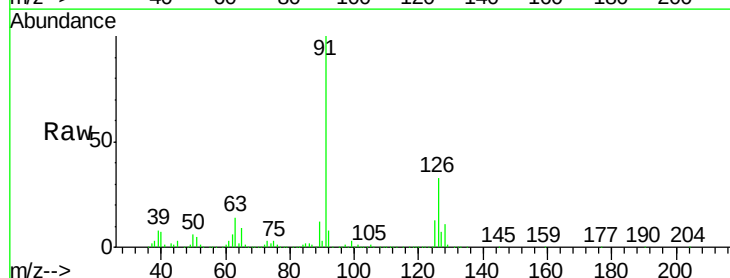
Acq: 24 Mar 2019 6:38

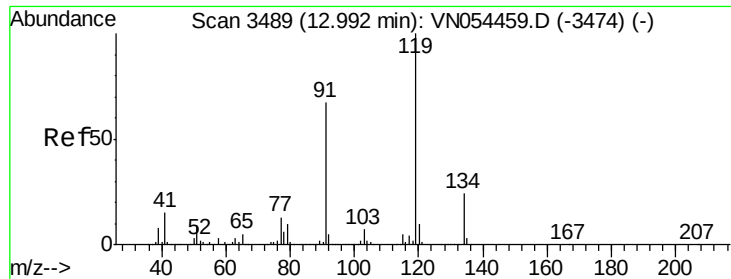
Tgt Ion: 91 Resp: 763006

Ion Ratio Lower Upper

91 100

126 33.0 18.1 54.1





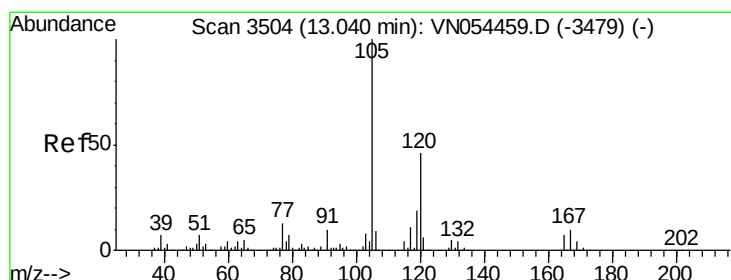
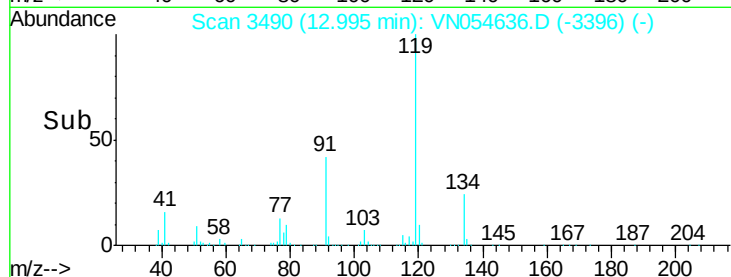
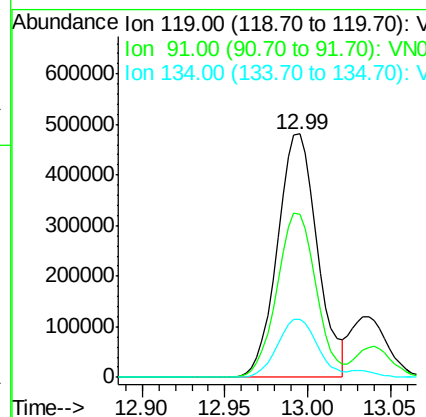
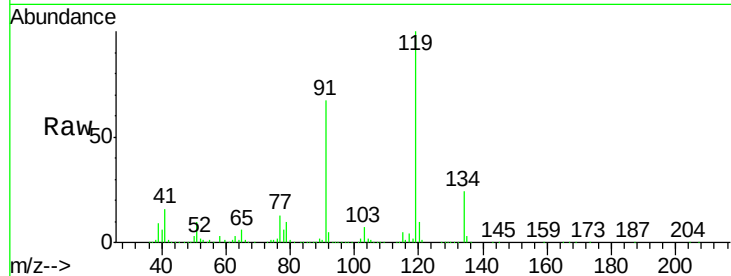
#83
tert-Butylbenzene
Concen: 48.056 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
119	100	808761		
91	65.8	30.9	92.8	
134	24.2	13.2	39.6	

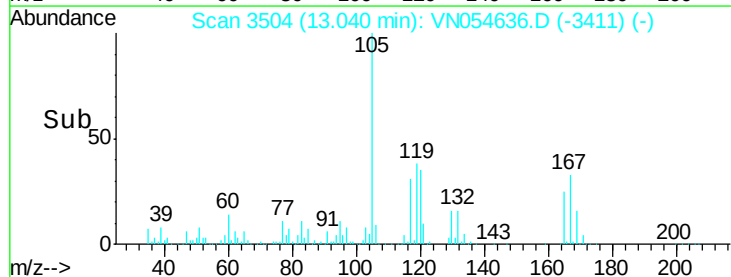
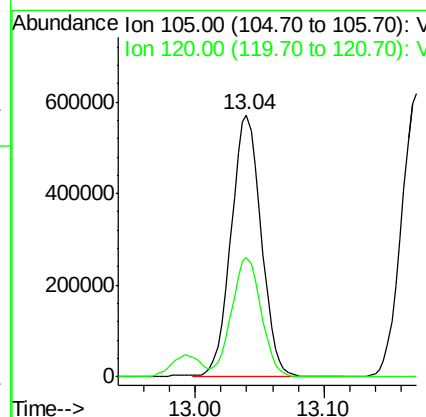
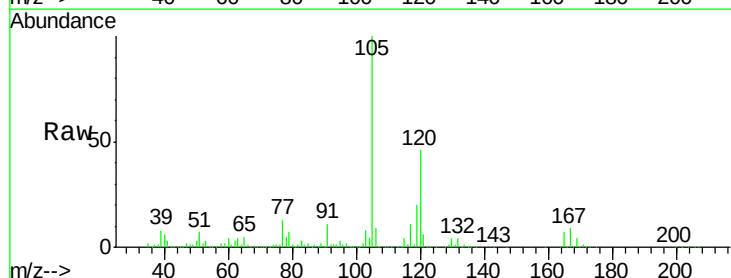
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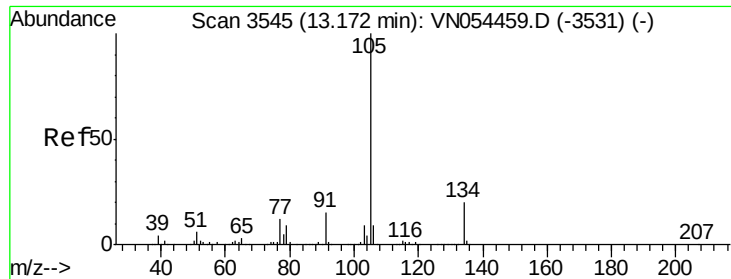
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#84
1,2,4-Trimethylbenzene
Concen: 48.601 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN054636.D
Acq: 24 Mar 2019 6:38

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	922022		
120	45.1	23.4	70.3	





#85

sec-Butylbenzene

Concen: 47.895 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050EC

Tot Ion:105 Resp: 1004816

Ion Ratio Lower Upper

105 100

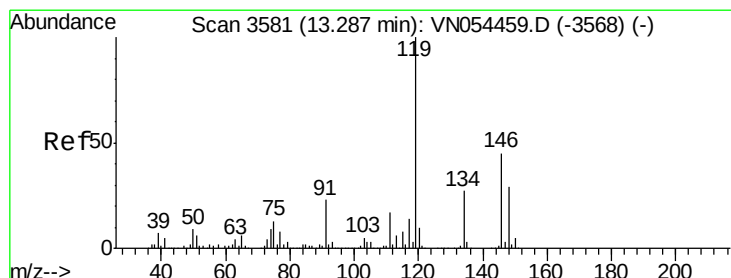
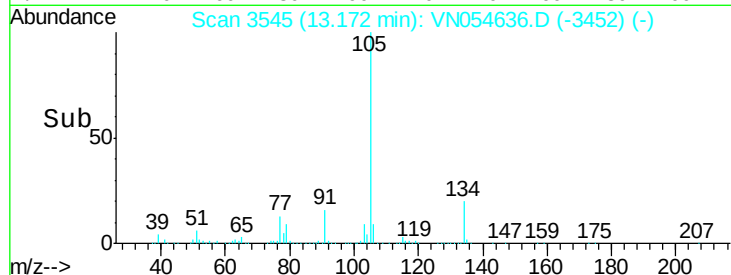
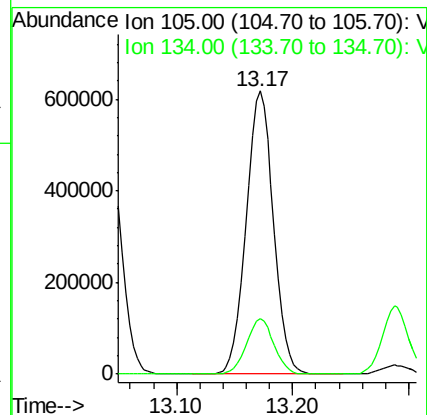
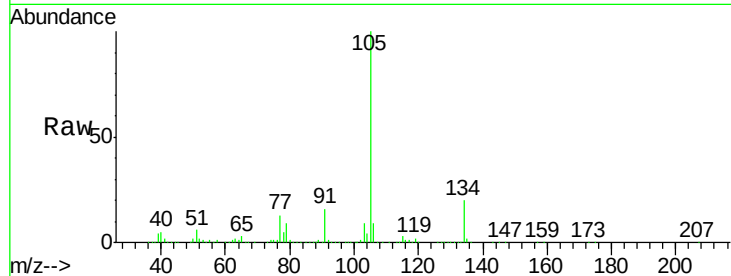
134 19.8 10.7 32.1

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 47.390 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

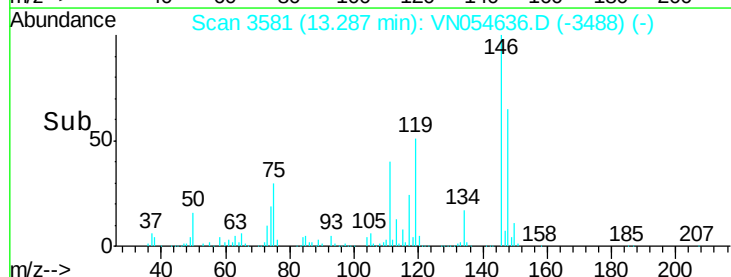
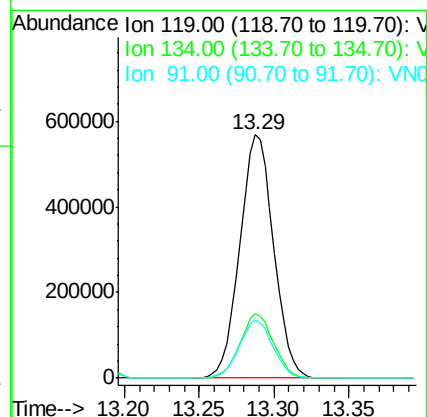
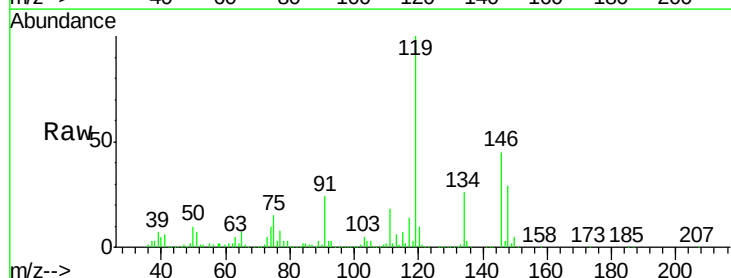
Tgt Ion:119 Resp: 889476

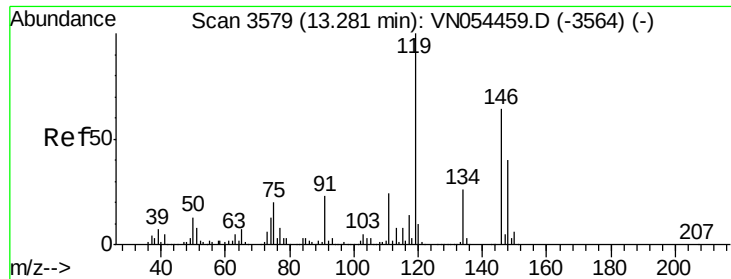
Ion Ratio Lower Upper

119 100

134 26.2 13.6 40.8

91 23.8 11.1 33.3





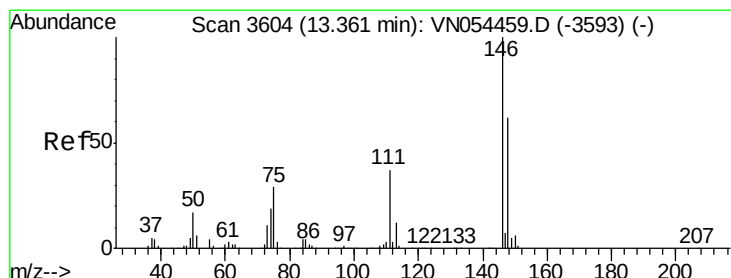
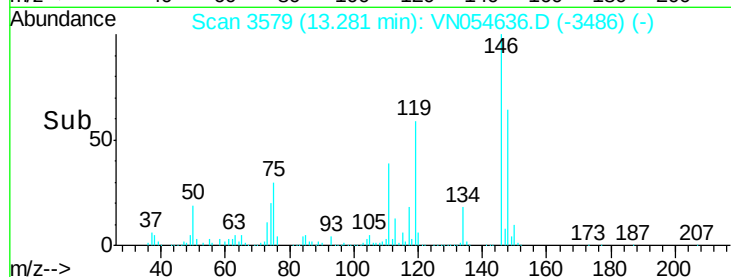
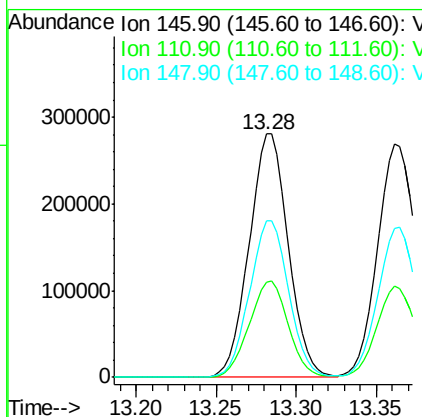
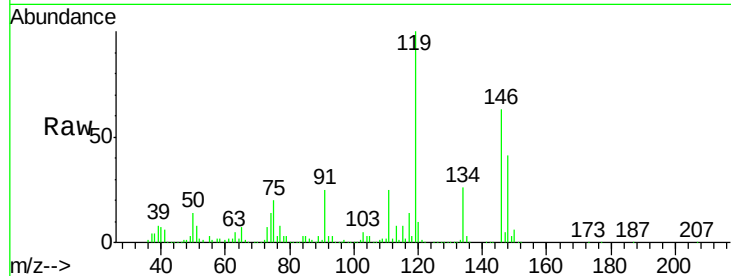
#87
 1,3-Dichlorobenzene
 Concen: 48.716 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	18.8	56.3
148	64.4	32.2	96.6

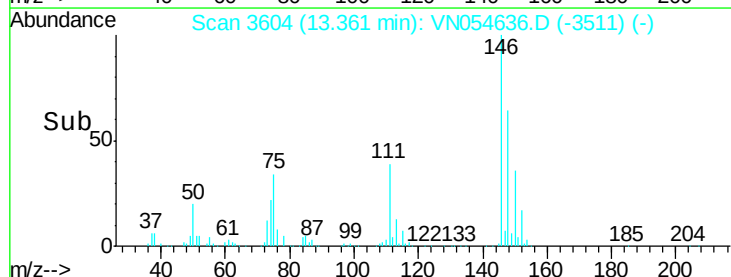
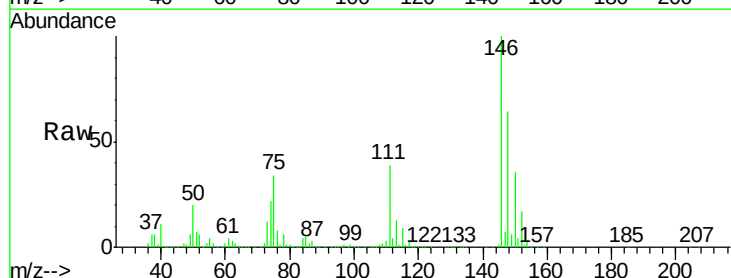
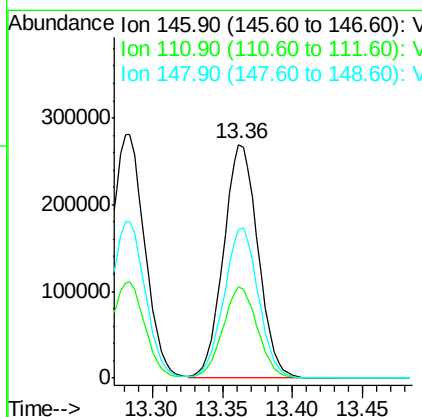
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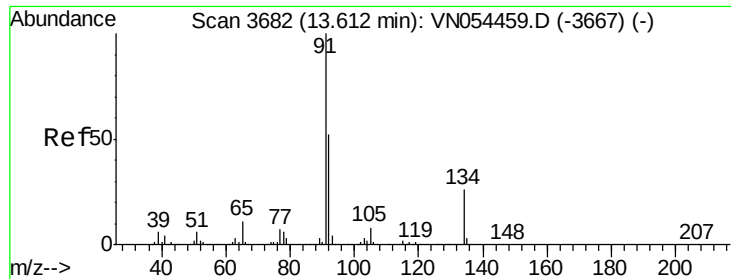
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#88
 1,4-Dichlorobenzene
 Concen: 48.623 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.2	18.1	54.1
148	64.5	32.0	96.0





#89

n-Butylbenzene

Concen: 48.224 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

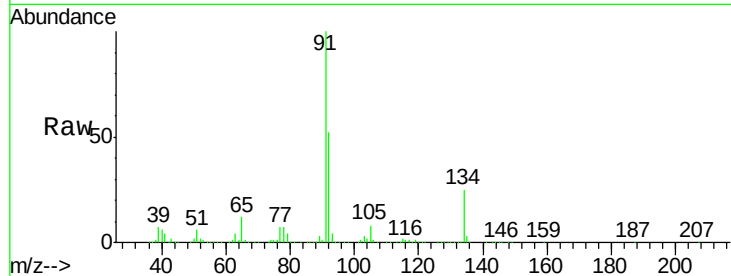
ClientSampleId :

VSTDCCC050EC

Tot Ion:	91	Resp:	707755
Ion Ratio	Lower	Upper	
91	100		
92	52.2	26.2	78.6
134	25.8	14.3	42.9

Manual Integrations
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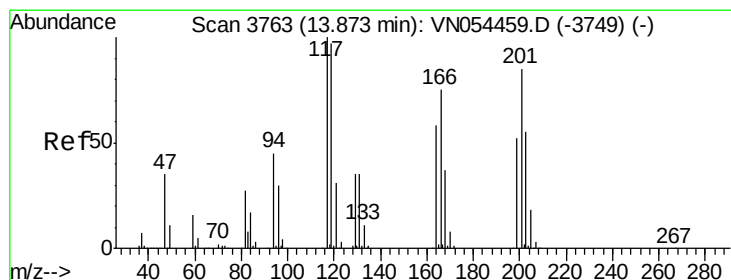
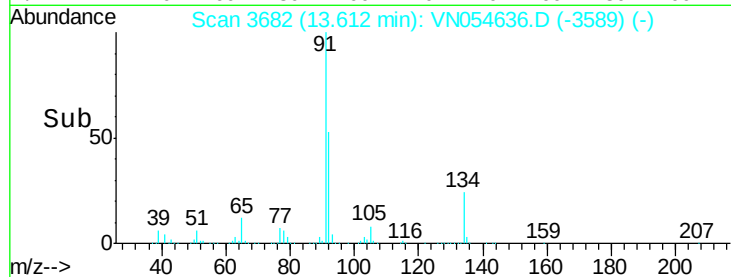
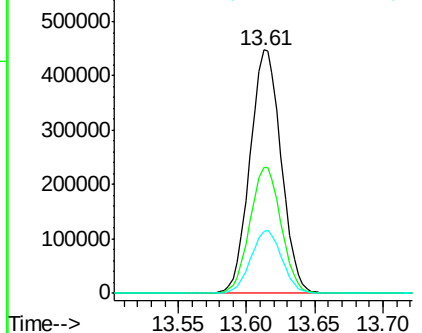
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3/25/2019 10:09:18 AM



Abundance Ion 91.00 (90.70 to 91.70): VN054459.D (-3667) (-)

Ion 92.00 (91.70 to 92.70): VN054459.D (-3667) (-)

Ion 134.00 (133.70 to 134.70): VN054459.D (-3667) (-)



#90

Hexachloroethane

Concen: 47.988 ug/l

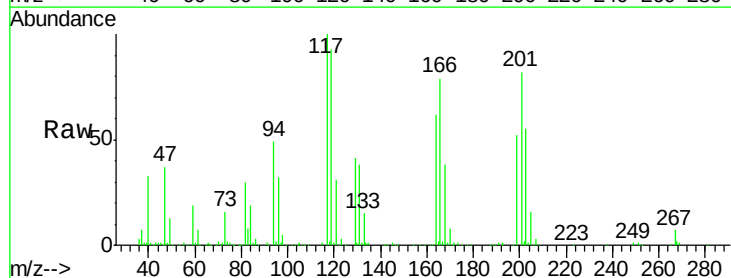
RT: 13.87 min Scan# 3763

Delta R.T. 0.00 min

Lab File: VN054636.D

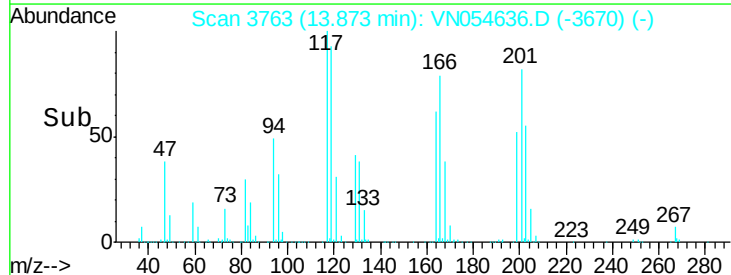
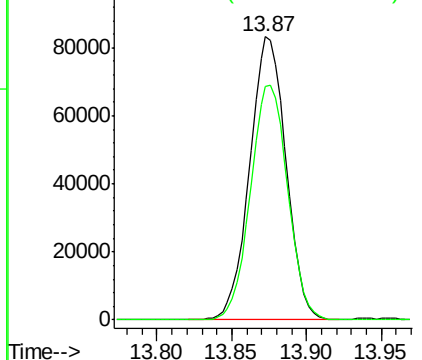
Acq: 24 Mar 2019 6:38

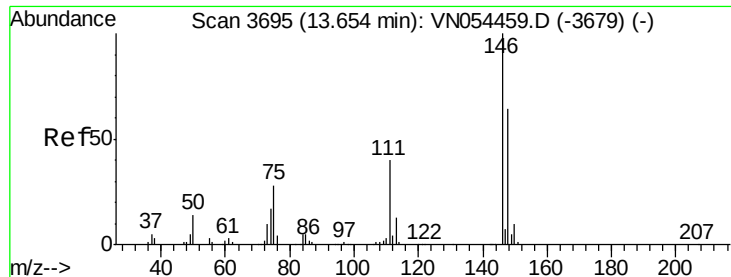
Tgt Ion:	117	Resp:	139810
Ion Ratio	Lower	Upper	
117	100		
201	85.4	48.1	144.4



Abundance Ion 116.80 (116.50 to 117.50): VN054459.D (-3749) (-)

Ion 200.70 (200.40 to 201.40): VN054459.D (-3749) (-)





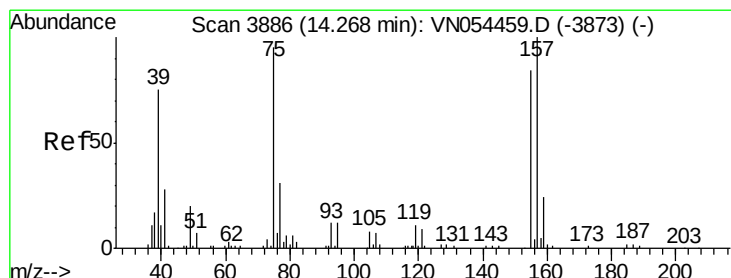
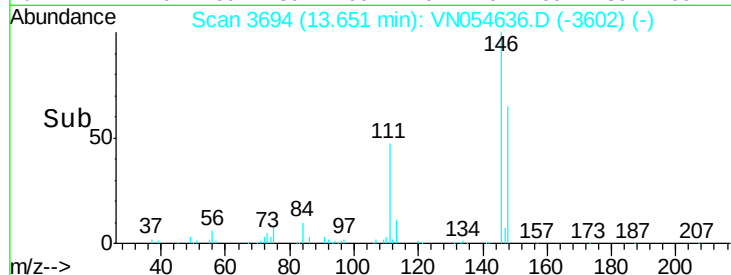
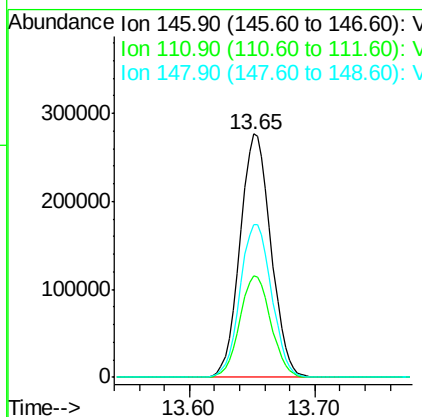
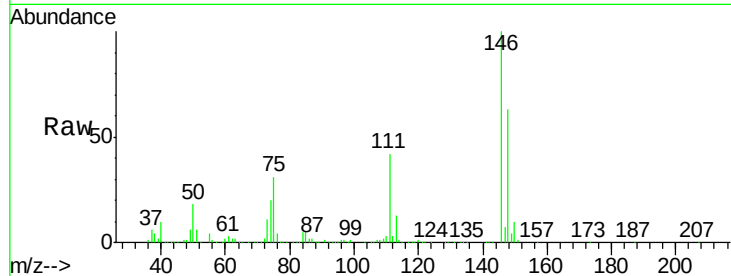
#91
 1,2-Dichlorobenzene
 Concen: 50.359 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.0	19.1	57.3
148	64.1	32.4	97.0

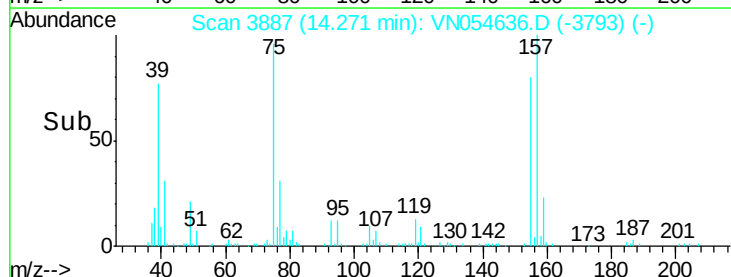
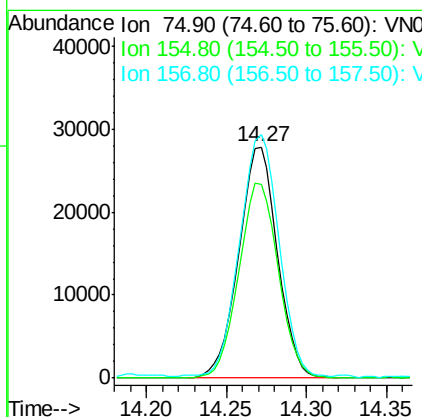
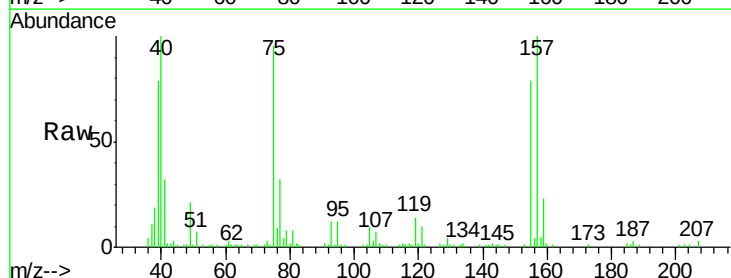
Manual Integrations
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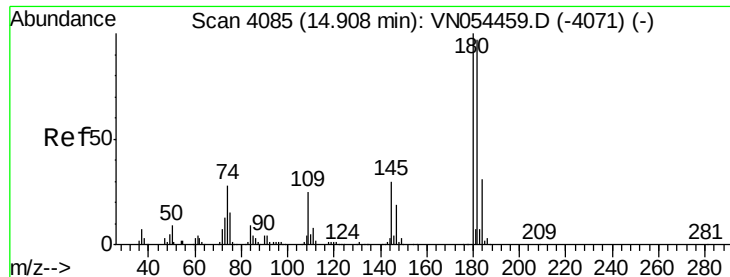
MMDadoda
 3/25/2019 10:09:18 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 57.922 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.0	50.1	150.3
157	105.9	63.1	189.3





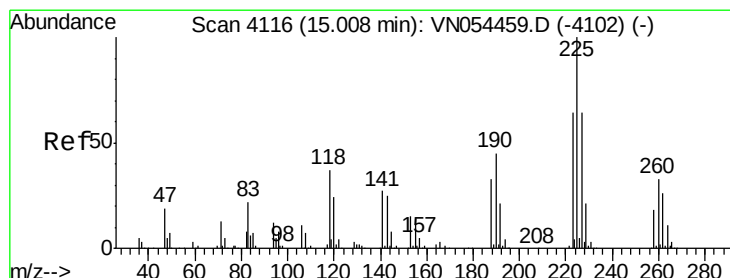
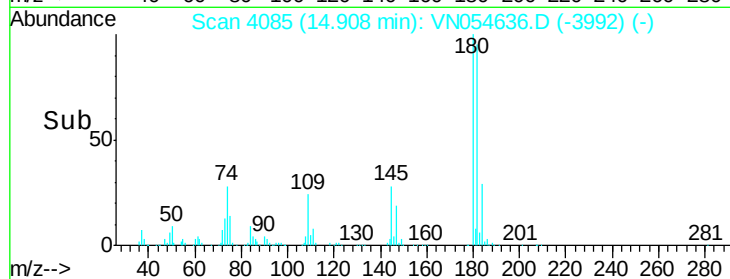
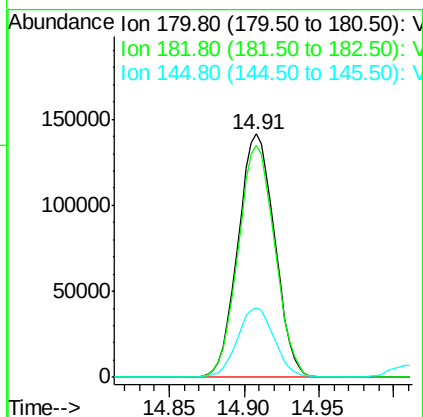
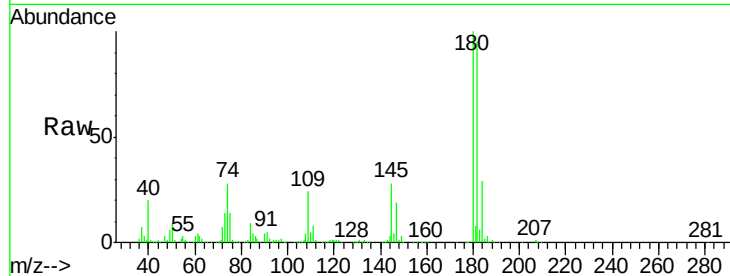
#93
 1,2,4-Trichlorobenzene
 Concen: 51.644 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	241774		
182	95.3	48.0	144.2	
145	28.4	14.2	42.8	

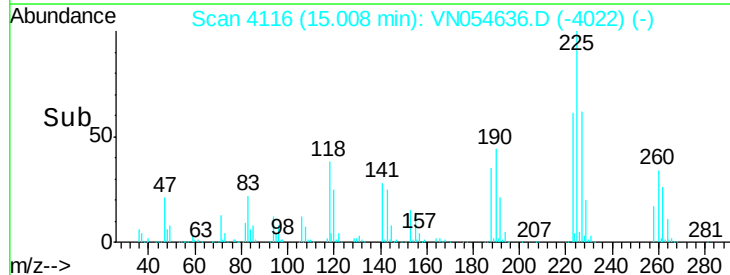
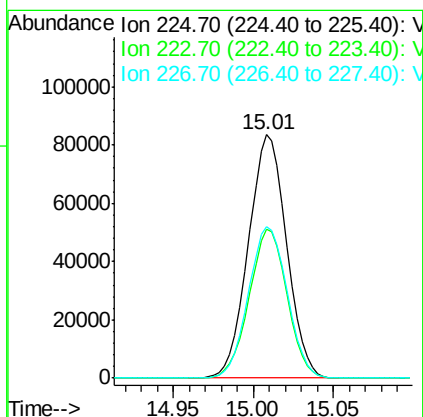
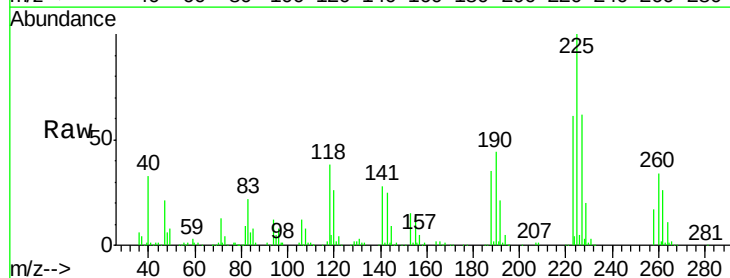
Manual Integrations
 APPROVED

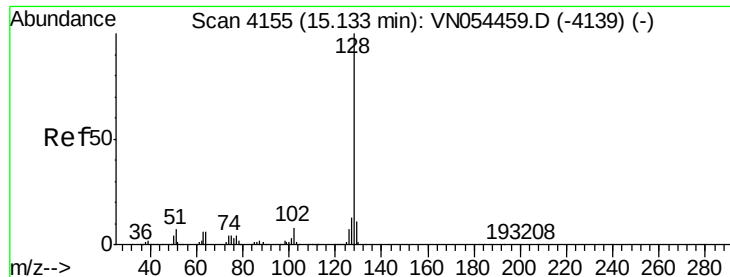
MMDadoda
 3/25/2019 10:09:18 AM



#94
 Hexachlorobutadiene
 Concen: 51.866 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN054636.D
 Acq: 24 Mar 2019 6:38

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	136180		
223	60.6	31.1	93.5	
227	63.3	31.9	95.9	





#95

Naphthalene

Concen: 56.752 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Instrument :

MSVOA_N

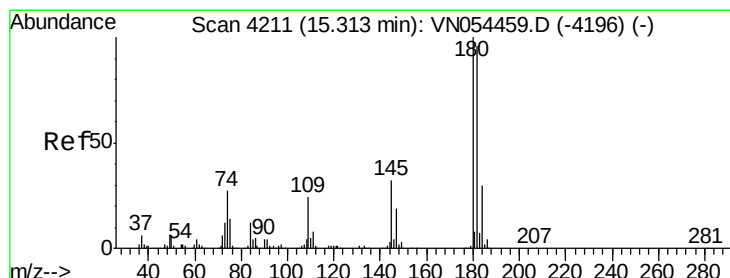
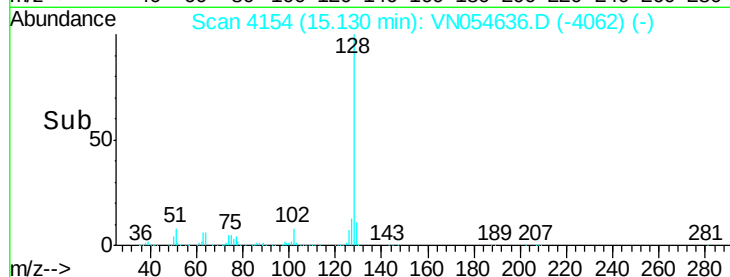
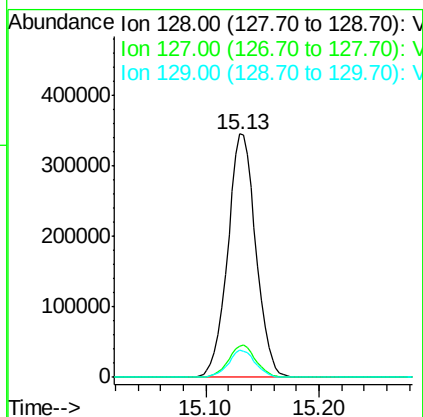
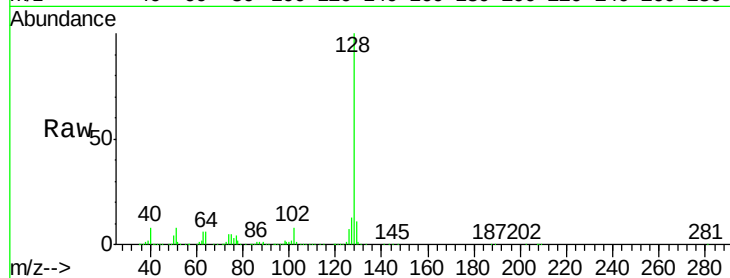
ClientSampleId :

VSTDCCC050EC

Tot Ion:	128	Resp:	592620
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.1	15.1
129	10.7	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/25/2019 10:09:18 AM



#96

1,2,3-Trichlorobenzene

Concen: 53.508 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054636.D

Acq: 24 Mar 2019 6:38

Tgt Ion:	180	Resp:	249314
Ion Ratio	Lower	Upper	
180	100		
182	94.1	47.5	142.6
145	30.0	14.8	44.3

