

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032019\
 Data File : VN054461.D
 Acq On : 20 Mar 2019 12:36
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

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 3/22/2019 3:16:56 PM

Quant Time: Mar 20 13:11:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 20 12:05:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	579795	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	903005	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	803986	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	383295	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	1001390	162.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	325.26%	
35) Dibromofluoromethane	7.59	113	849361	145.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	291.68%	
50) Toluene-d8	10.09	98	3218073	149.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	299.24%	
62) 4-Bromofluorobenzene	12.40	95	1135284	150.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	301.70%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	820550	149.327	ug/l	99
3) Chloromethane	2.06	50	1048931	196.515	ug/l	100
4) Vinyl Chloride	2.19	62	1073583	175.974	ug/l	99
5) Bromomethane	2.55	94	644046	152.424	ug/l	98
6) Chloroethane	2.70	64	619825	167.916	ug/l	98
7) Trichlorofluoromethane	3.02	101	1282126	158.068	ug/l	99
8) Diethyl Ether	3.41	74	483175	130.719	ug/l	75
9) 1,1,2-Trichlorotrifluoroet	3.75	101	729876	120.080	ug/l	97
10) Methyl Iodide	3.94	142	1203931	150.555	ug/l	95
11) Tert butyl alcohol	4.82	59	321760	762.248	ug/l	99
12) 1,1-Dichloroethene	3.73	96	749933	124.503	ug/l	84
13) Acrolein	3.61	56	478945	1197.378	ug/l	99
14) Allyl chloride	4.31	41	1554976	201.206	ug/l #	91
15) Acrylonitrile	4.99	53	1618628	933.497	ug/l	100
16) Acetone	3.82	43	1383212	784.571	ug/l	88
17) Carbon Disulfide	4.04	76	2283996	151.260	ug/l	99
18) Methyl Acetate	4.33	43	696287	195.209	ug/l	90
19) Methyl tert-butyl Ether	5.05	73	2341379	156.821	ug/l	96
20) Methylene Chloride	4.54	84	871907	150.616	ug/l #	85
21) trans-1,2-Dichloroethene	5.03	96	838838	145.348	ug/l	87
22) Diisopropyl ether	5.96	45	3055864	198.121	ug/l #	93
23) Vinyl Acetate	5.90	43	11564527	1016.893	ug/l #	94
24) 1,1-Dichloroethane	5.85	63	1603704	161.931	ug/l	99
25) 2-Butanone	6.85	43	2113415	1021.348	ug/l	90
26) 2,2-Dichloropropane	6.82	77	1202887	138.116	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	964899	149.864	ug/l	89
28) Bromochloromethane	7.19	49	792563	195.756	ug/l #	77
29) Tetrahydrofuran	7.22	42	1362823	1024.336	ug/l	87
30) Chloroform	7.37	83	1555432	150.510	ug/l	99
31) Cyclohexane	7.65	56	1552003	145.584	ug/l	88
32) 1,1,1-Trichloroethane	7.57	97	1366108	146.369	ug/l	97
36) 1,1-Dichloropropene	7.79	75	1243028	149.476	ug/l	97
37) Ethyl Acetate	6.94	43	902185	188.812	ug/l	97
38) Carbon Tetrachloride	7.77	117	1222808	140.219	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1411305	137.934	ug/l	91
40) Benzene	8.04	78	3562617	149.710	ug/l	100
41) Methacrylonitrile	7.17	41	537682	197.082	ug/l	88
42) 1,2-Dichloroethane	8.12	62	1235585	153.791	ug/l	98
43) Isopropyl Acetate	8.17	43	1636456	195.116	ug/l #	95
44) Trichloroethene	8.83	130	974378	131.808	ug/l	95
45) 1,2-Dichloropropane	9.12	63	974269	164.880	ug/l	98
46) Dibromomethane	9.21	93	573035	143.529	ug/l	92
47) Bromodichloromethane	9.40	83	1240359	154.971	ug/l	98
48) Methyl methacrylate	9.20	41	868884	204.140	ug/l	87
49) 1,4-Dioxane	9.20	88	178744	2968.923	ug/l #	87
51) 4-Methyl-2-Pentanone	9.99	43	4456604	1004.079	ug/l	95
52) Toluene	10.16	92	2229122	147.734	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	1316845	161.650	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	1503961	161.249	ug/l	92
55) 1,1,2-Trichloroethane	10.56	97	797621	144.773	ug/l	97
56) Ethyl methacrylate	10.43	69	1188440	180.907	ug/l #	87
57) 1,3-Dichloropropane	10.71	76	1408263	156.322	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	2522507	1013.661	ug/l	92
59) 2-Hexanone	10.75	43	2954004	1000.216	ug/l	94
60) Dibromochloromethane	10.90	129	962246	155.169	ug/l	99
61) 1,2-Dibromoethane	11.01	107	823584	147.099	ug/l	99
64) Tetrachloroethene	10.63	164	893631	114.961	ug/l	95
65) Chlorobenzene	11.43	112	2399010	135.895	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	910227	141.935	ug/l	99
67) Ethyl Benzene	11.51	91	4267437	145.828	ug/l	99
68) m/p-Xylenes	11.62	106	3229960	282.401	ug/l	98
69) o-Xylene	11.95	106	1552530	139.245	ug/l	98
70) Styrene	11.96	104	2680586	153.296	ug/l	98
71) Bromoform	12.13	173	629020	148.187	ug/l #	100
73) Isopropylbenzene	12.25	105	4097206	133.608	ug/l	99
74) N-amyl acetate	12.07	43	1392612	204.590	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.50	83	985522	150.840	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	851165m	151.009	ug/l	
77) Bromobenzene	12.53	156	1047664	129.107	ug/l	88
78) n-propylbenzene	12.59	91	4576204	137.528	ug/l	97
79) 2-Chlorotoluene	12.68	91	2749712	137.437	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	3446635	135.121	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	279748	169.662	ug/l	92
82) 4-Chlorotoluene	12.77	91	2848291	142.574	ug/l	96
83) tert-Butylbenzene	12.99	119	2876920	122.535	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	3438423	137.404	ug/l	98
85) sec-Butylbenzene	13.17	105	3686984	121.091	ug/l	98
86) p-Isopropyltoluene	13.29	119	3421547	128.089	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	1783021	130.400	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	1760082	131.033	ug/l	99
89) n-Butylbenzene	13.62	91	2848857	140.364	ug/l	99
90) Hexachloroethane	13.88	117	600294	135.718	ug/l	90
91) 1,2-Dichlorobenzene	13.65	146	1700071	127.183	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	160370	158.621	ug/l	90

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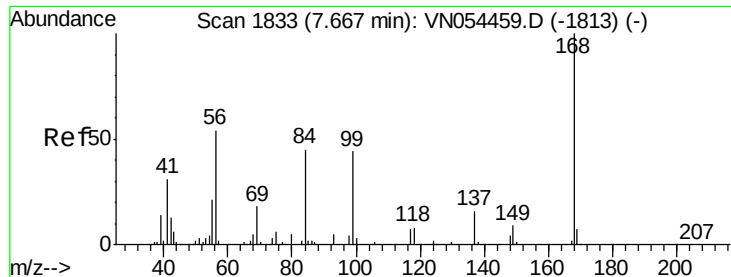
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	1012032	146.491	ug/l	98
94) Hexachlorobutadiene	15.01	225	495293	97.278	ug/l	99
95) Naphthalene	15.13	128	2338532	164.567	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	957120	134.763	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion:168 Resp: 579795

Ion Ratio Lower Upper

168 100

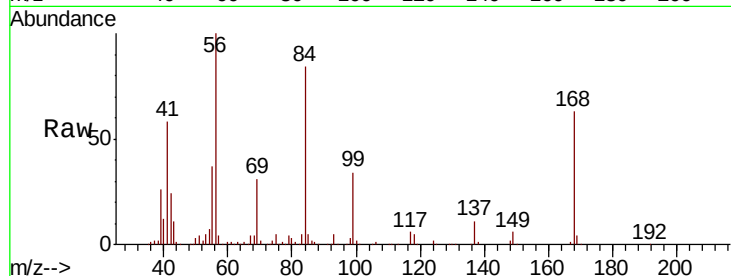
99 52.9 37.1 55.7

Manual Integrations

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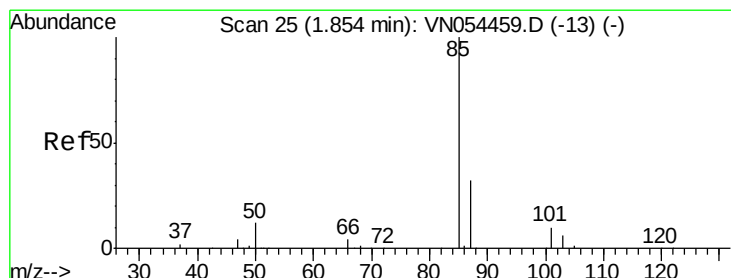
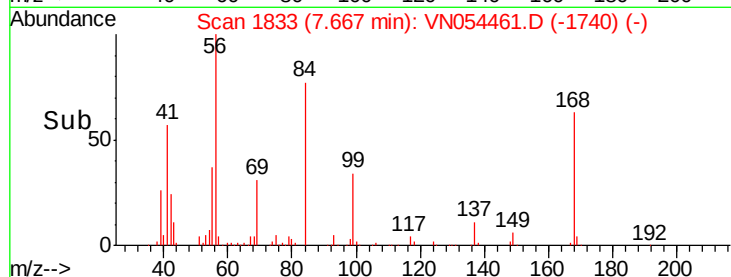
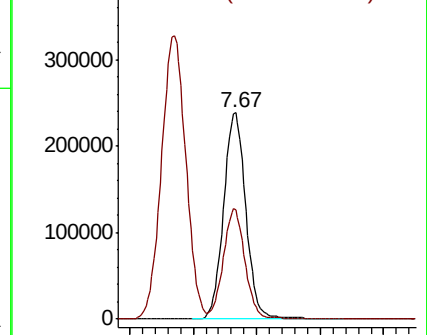
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNC



#2

Dichlorodifluoromethane

Concen: 149.327 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN054461.D

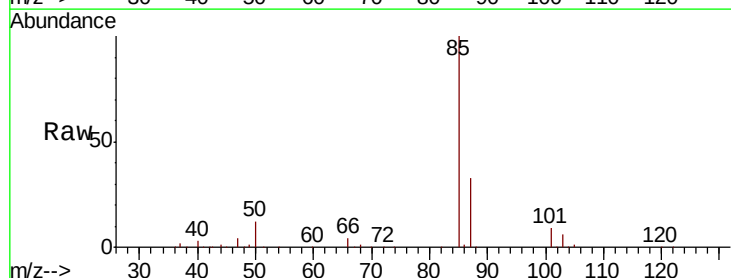
Acq: 20 Mar 2019 12:36

Tgt Ion: 85 Resp: 820550

Ion Ratio Lower Upper

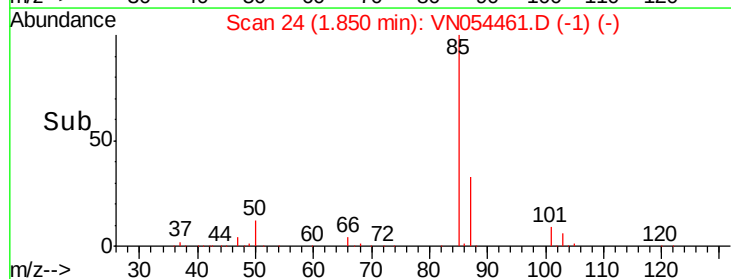
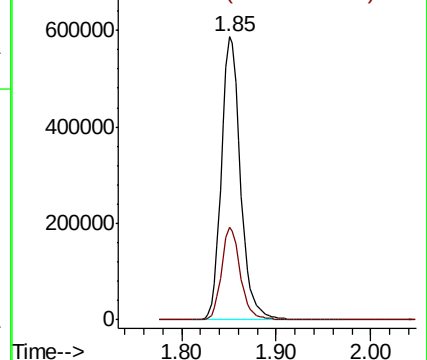
85 100

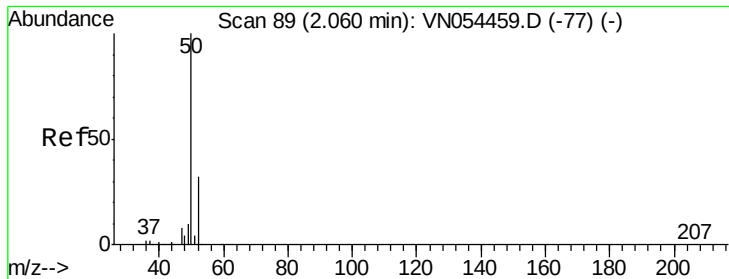
87 32.5 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNC

Ion 86.90 (86.60 to 87.60): VNC





#3

Chloromethane

Concen: 196.515 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Tot Ion: 50 Resp: 1048931

Ion Ratio Lower Upper

50 100

52 33.0 26.4 39.6

Instrument :

MSVOA_N

ClientSampleId :

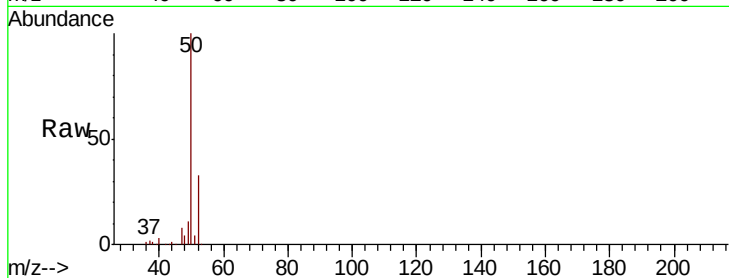
VSTDIC150

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VN054461.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN054461.D (-1) (-)

2.06

800000

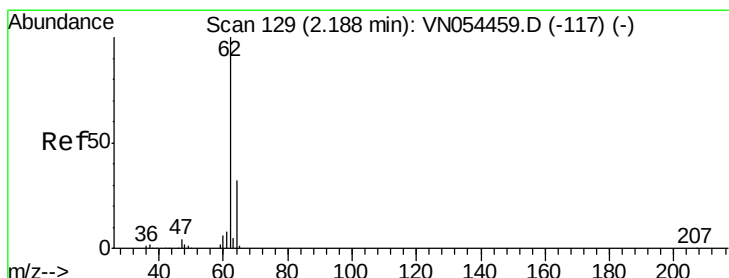
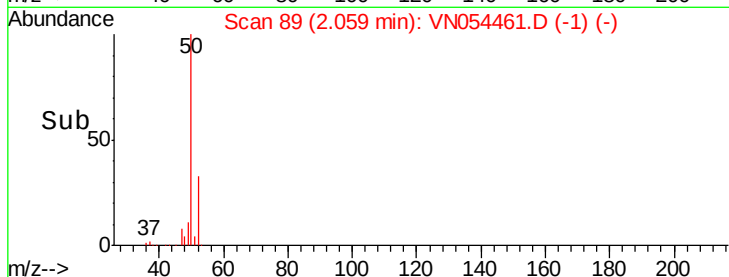
600000

400000

200000

0

Time-->



#4

Vinyl Chloride

Concen: 175.974 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN054461.D

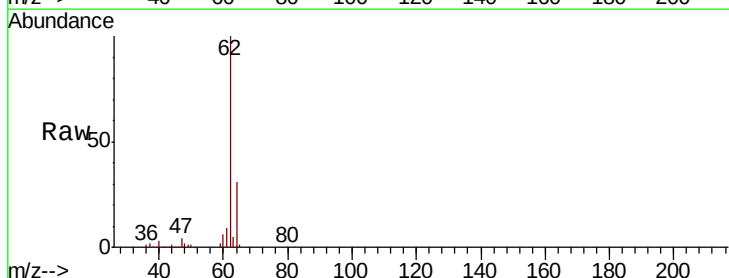
Acq: 20 Mar 2019 12:36

Tgt Ion: 62 Resp: 1073583

Ion Ratio Lower Upper

62 100

64 31.2 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN054461.D (-36) (-)

Ion 63.90 (63.60 to 64.60): VN054461.D (-36) (-)

2.19

800000

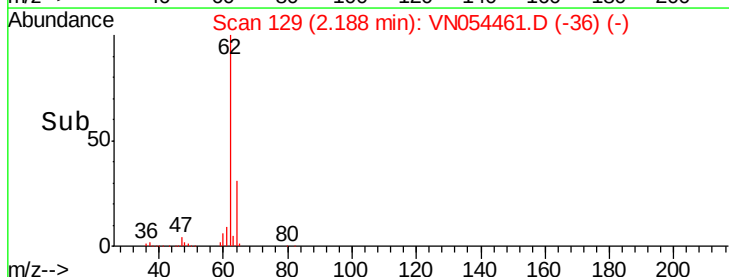
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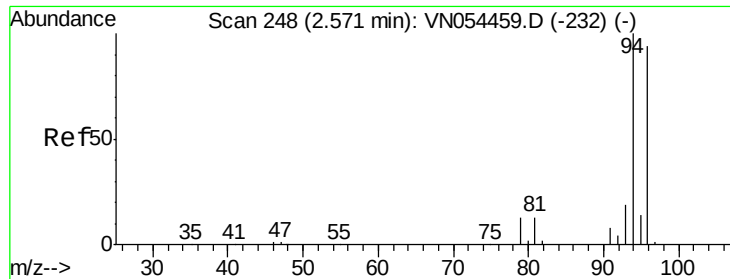
400000

200000

0

Time-->





#5

Bromomethane

Concen: 152.424 ug/l

RT: 2.55 min Scan# 243

Delta R.T. -0.02 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 94 Resp: 644046

Ion Ratio Lower Upper

94 100

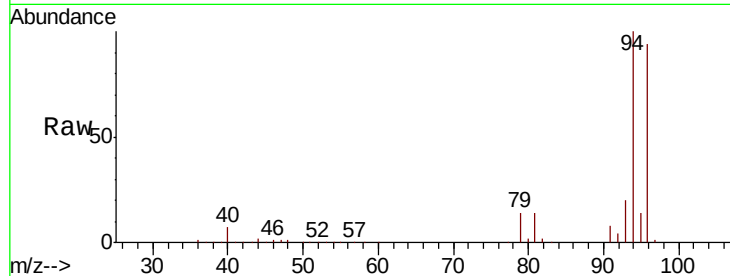
96 94.2 77.0 115.4

Manual Integrations

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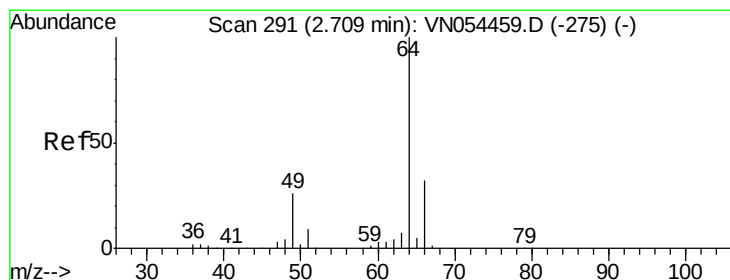
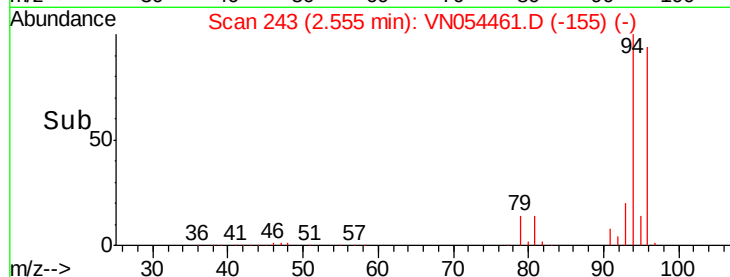
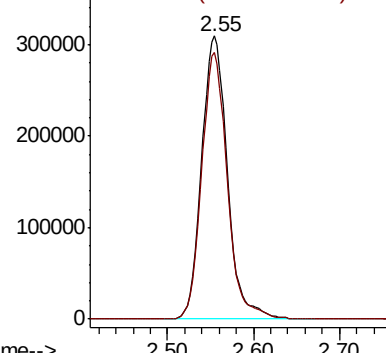
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 167.916 ug/l

RT: 2.70 min Scan# 289

Delta R.T. -0.01 min

Lab File: VN054461.D

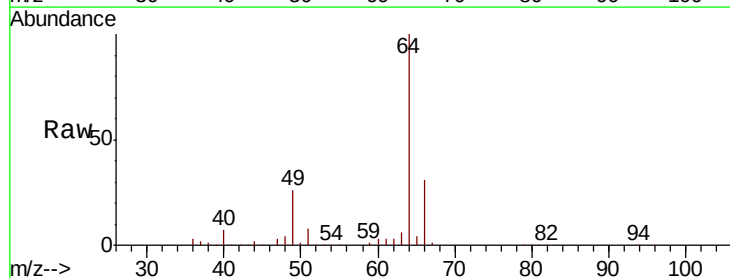
Acq: 20 Mar 2019 12:36

Tgt Ion: 64 Resp: 619825

Ion Ratio Lower Upper

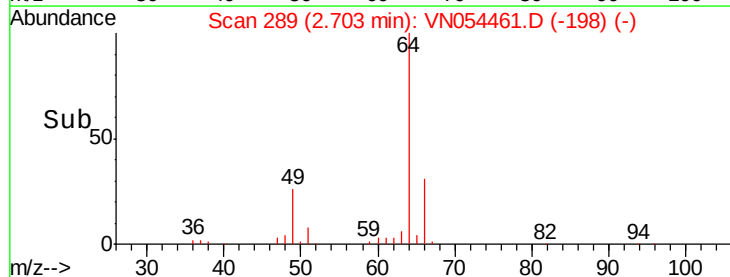
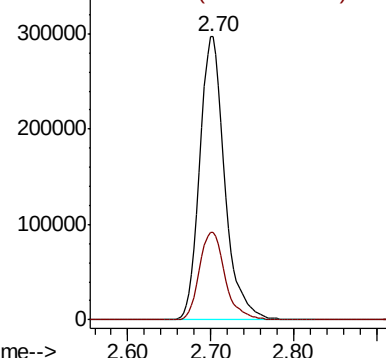
64 100

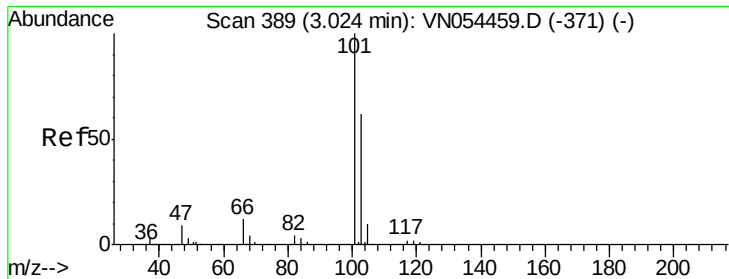
66 31.1 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

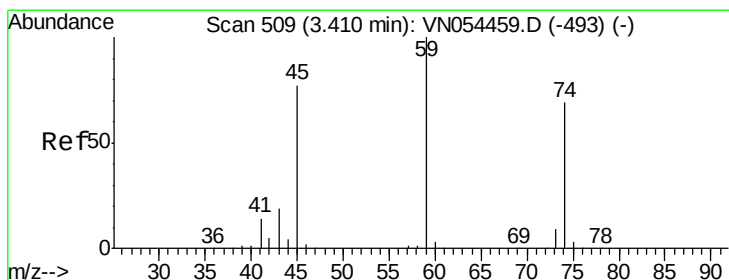
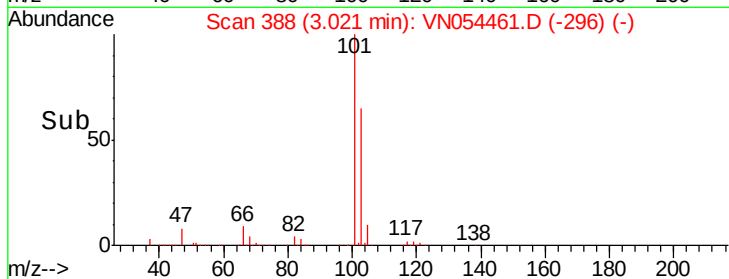
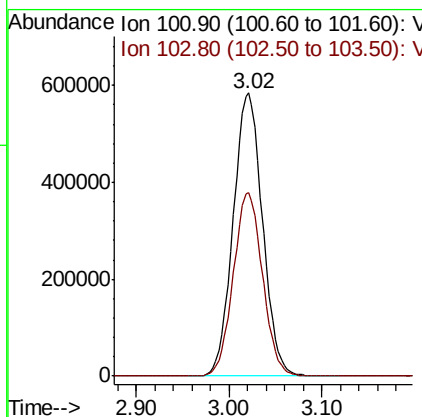
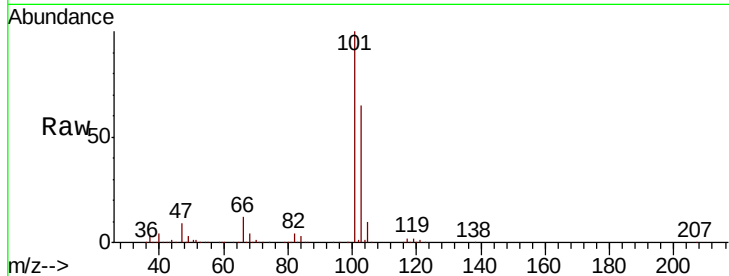
Trichlorofluoromethane
Concen: 158.068 ug/l
RT: 3.02 min Scan# 388
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:101 Resp: 1282126
Ion Ratio Lower Upper
101 100
103 64.8 51.4 77.2

Manual Integrations
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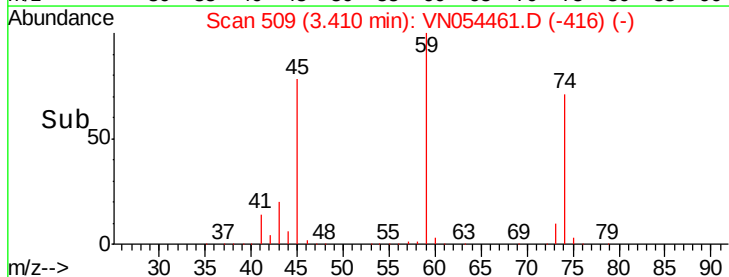
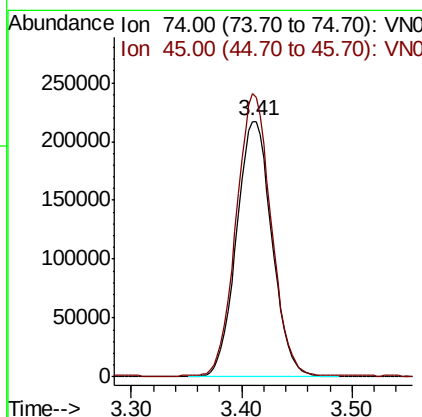
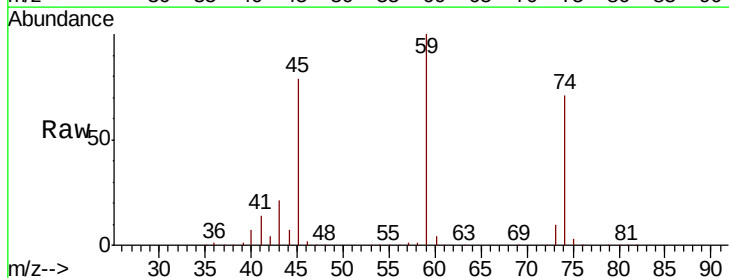
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3/22/2019 3:16:56 PM

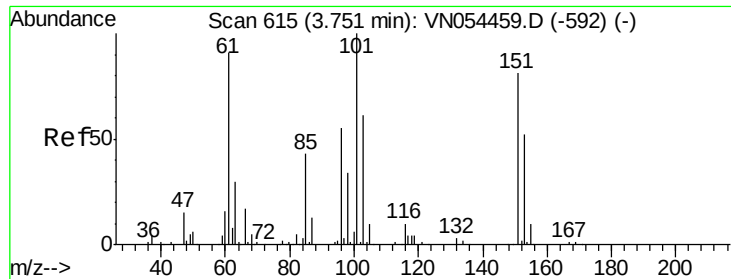


#8

Diethyl Ether
Concen: 130.719 ug/l
RT: 3.41 min Scan# 509
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Tgt Ion: 74 Resp: 483175
Ion Ratio Lower Upper
74 100
45 109.1 43.1 129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 120.080 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

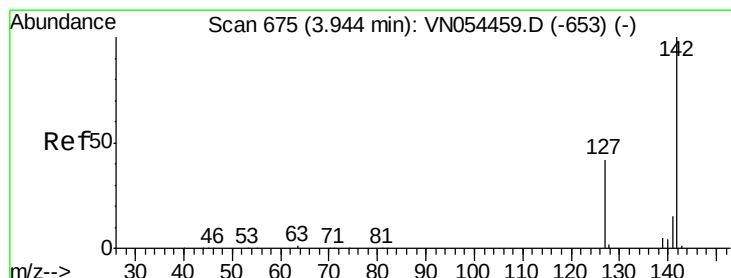
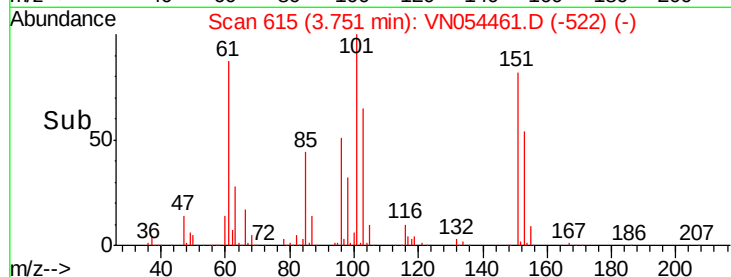
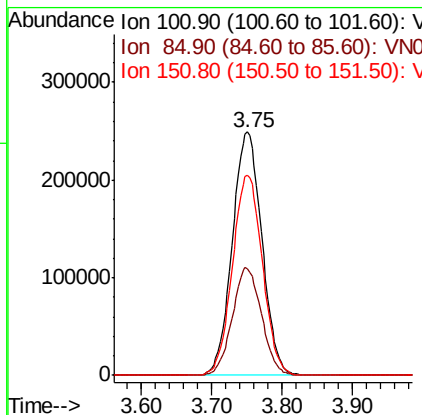
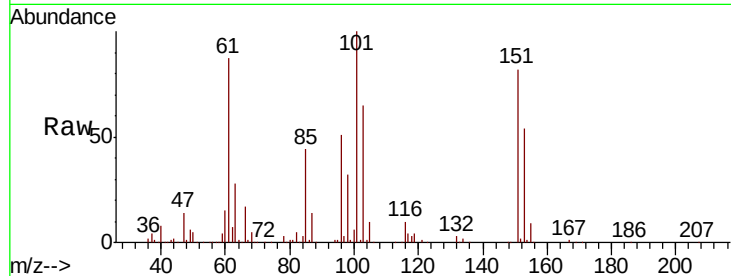
ClientSampleId :

VSTDIC150

Tot Ion:	101	Resp:	729876
Ion Ratio	Lower	Upper	
101	100		
85	43.8	32.4	48.6
151	83.2	68.2	102.2

Manual Integrations
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#10

Methyl Iodide

Concen: 150.555 ug/l

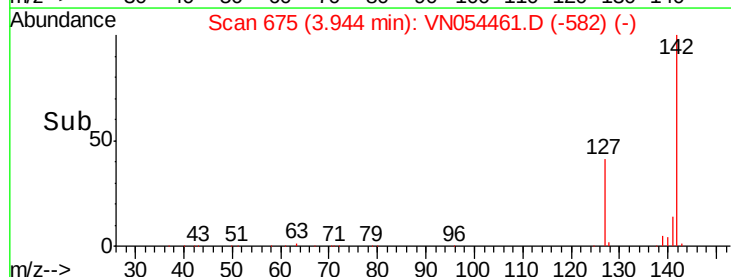
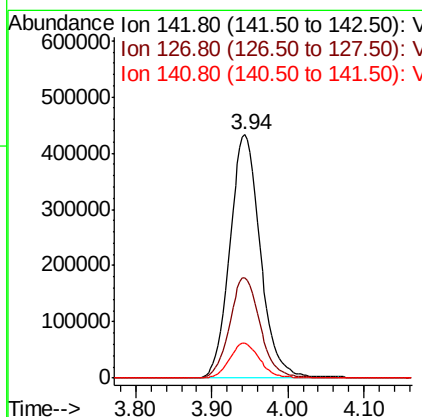
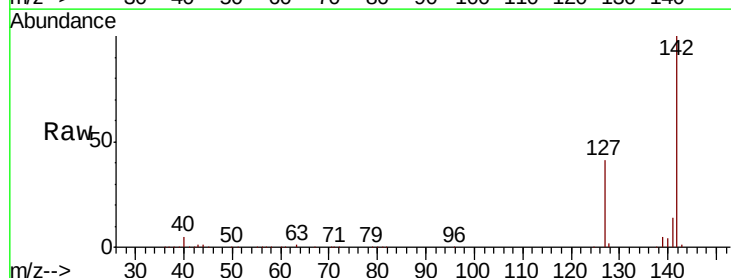
RT: 3.94 min Scan# 675

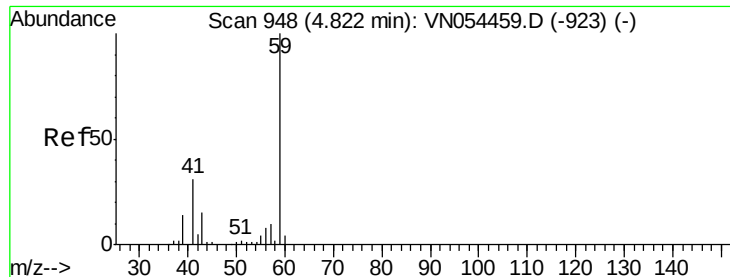
Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Tgt Ion:	142	Resp:	1203931
Ion Ratio	Lower	Upper	
142	100		
127	41.7	30.3	45.5
141	14.4	11.2	16.8





#11

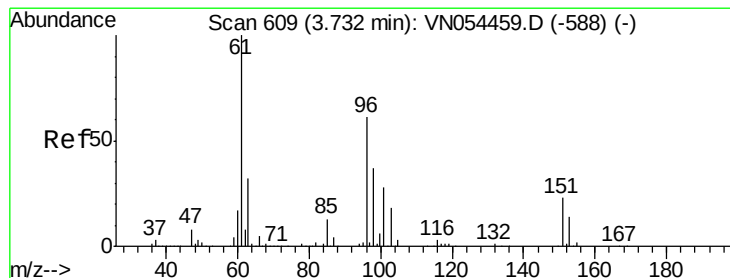
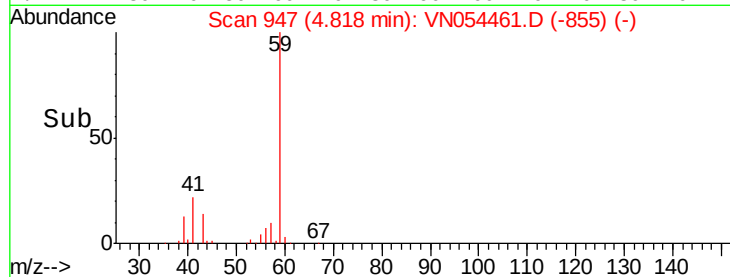
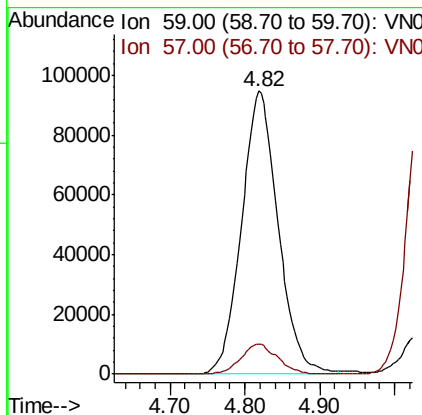
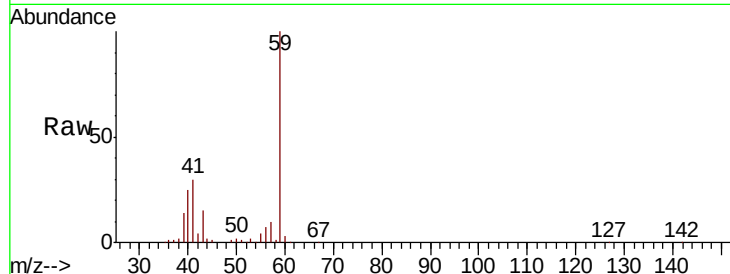
Tert butyl alcohol
 Concen: 762.248 ug/l
 RT: 4.82 min Scan# 947
 Delta R.T. -0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.7	9.0	13.6

Manual Integrations
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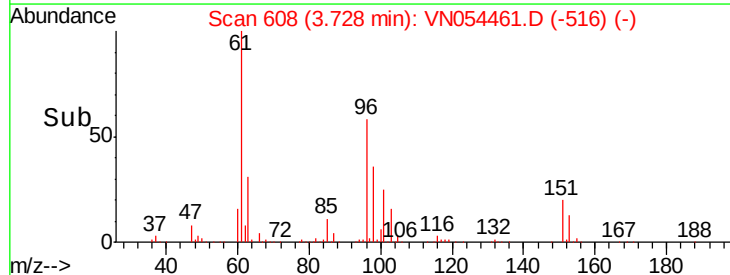
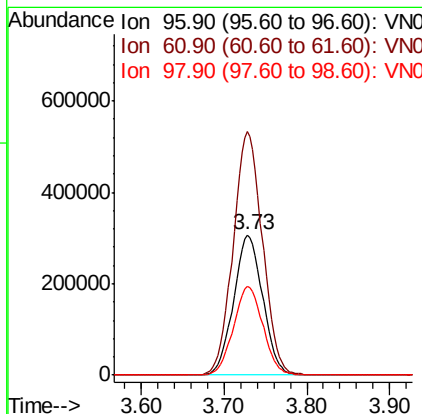
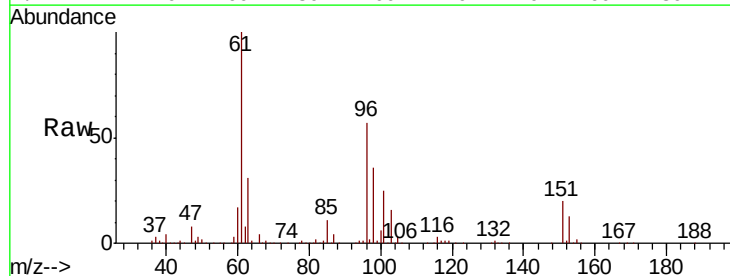
MMDadoda
 3/22/2019 3:16:56 PM

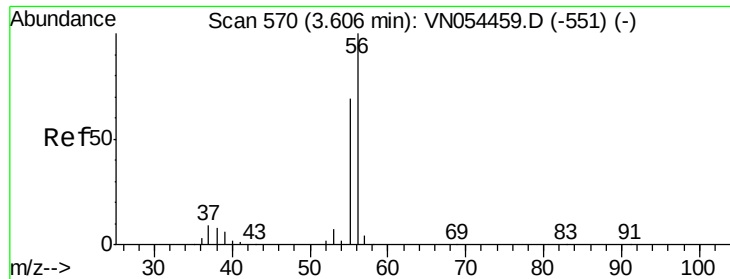


#12

1,1-Dichloroethene
 Concen: 124.503 ug/l
 RT: 3.73 min Scan# 608
 Delta R.T. -0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	174.0	116.5	174.7
98	63.4	51.0	76.4





#13

Acrolein

Concen: 1197.378 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 478945

Ion Ratio Lower Upper

56 100

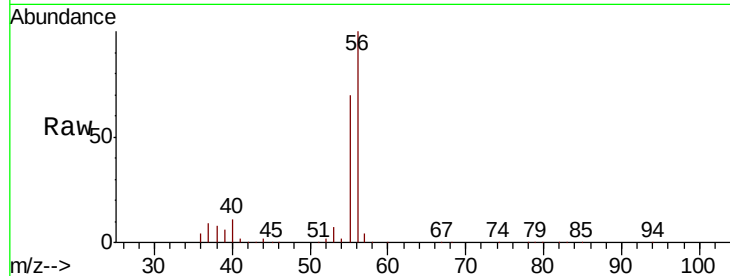
55 72.0 56.7 85.1

Manual Integrations

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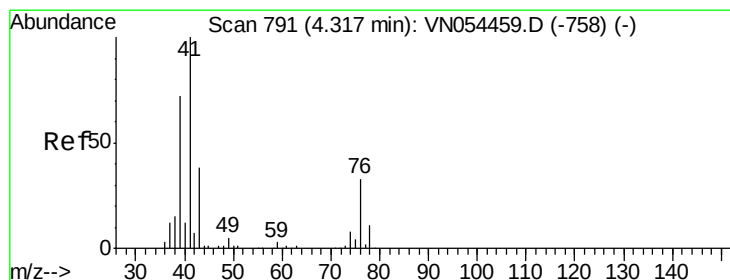
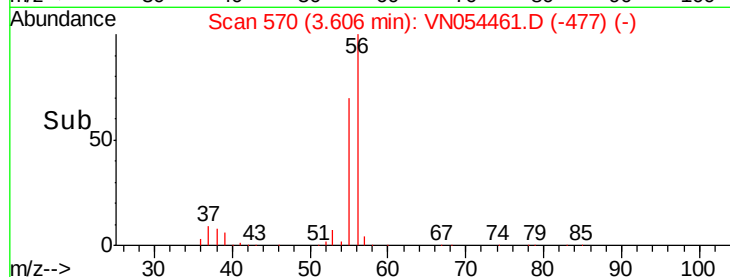
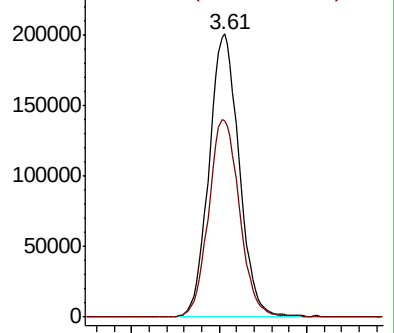
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 201.206 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

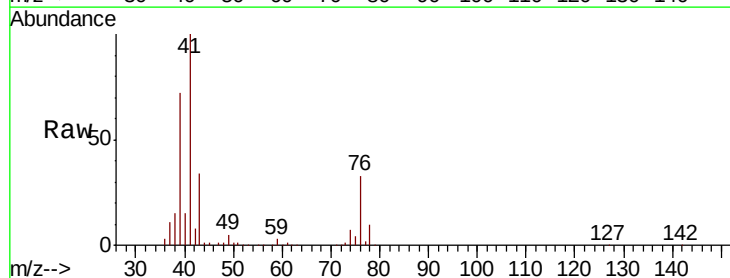
Tgt Ion: 41 Resp: 1554976

Ion Ratio Lower Upper

41 100

39 67.9 58.2 87.4

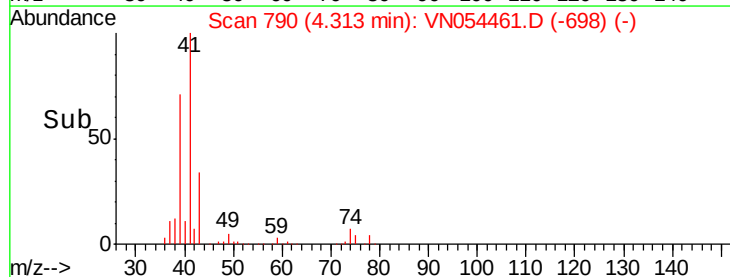
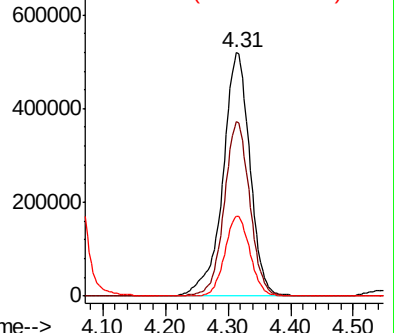
76 30.4 31.7 47.5#

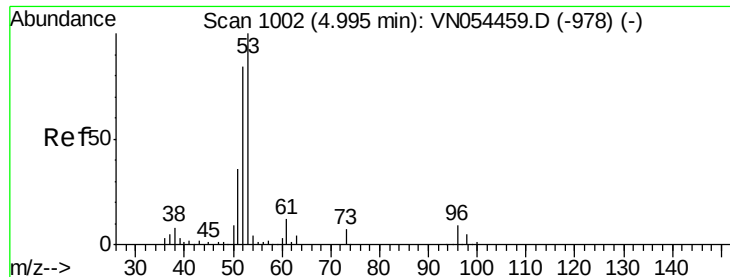


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 933.497 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 53 Resp: 1618628

Ion Ratio Lower Upper

53 100

52 83.1 66.4 99.6

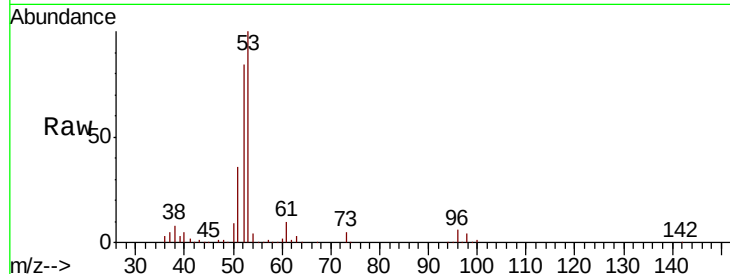
51 36.7 29.6 44.4

Manual Integrations

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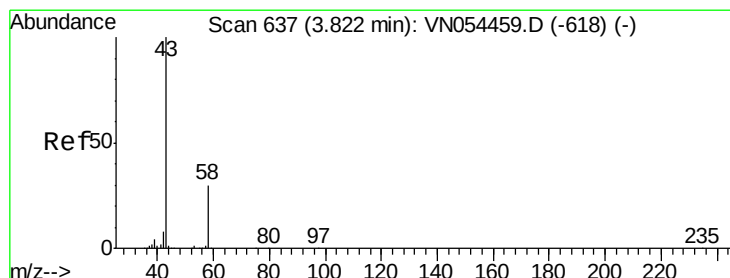
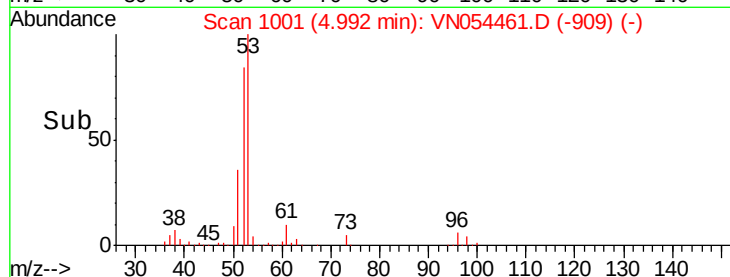
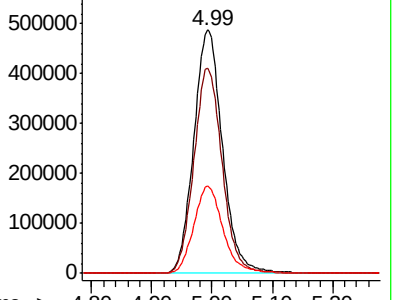
3/22/2019 3:16:56 PM



Abundance Ion 53.00 (52.70 to 53.70): VN054459.D (-978) (-)

Ion 52.00 (51.70 to 52.70): VN054459.D (-978) (-)

Ion 51.00 (50.70 to 51.70): VN054459.D (-978) (-)



#16

Acetone

Concen: 784.571 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN054461.D

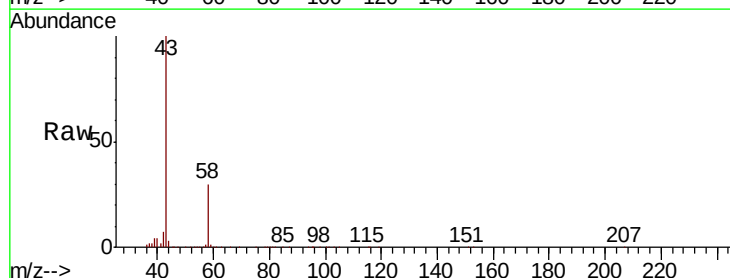
Acq: 20 Mar 2019 12:36

Tgt Ion: 43 Resp: 1383212

Ion Ratio Lower Upper

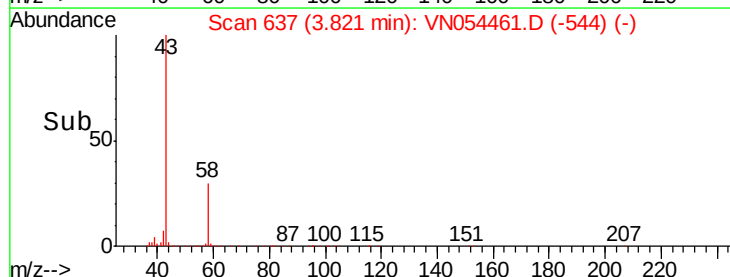
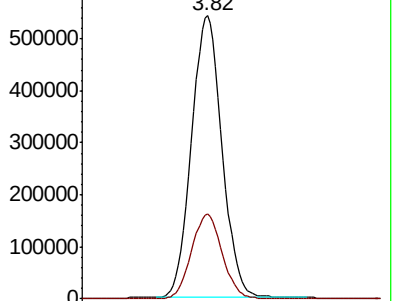
43 100

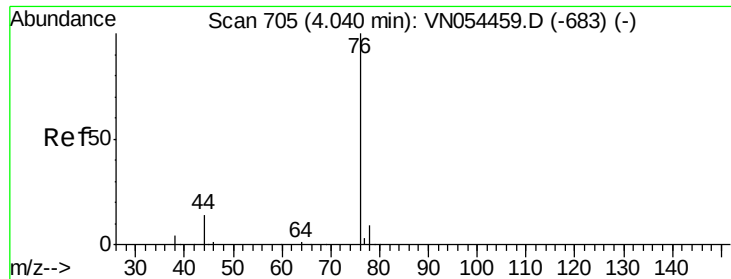
58 30.0 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-618) (-)

Ion 58.00 (57.70 to 58.70): VN054459.D (-618) (-)





#17

Carbon Disulfide

Concen: 151.260 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 76 Resp: 2283996

Ion Ratio Lower Upper

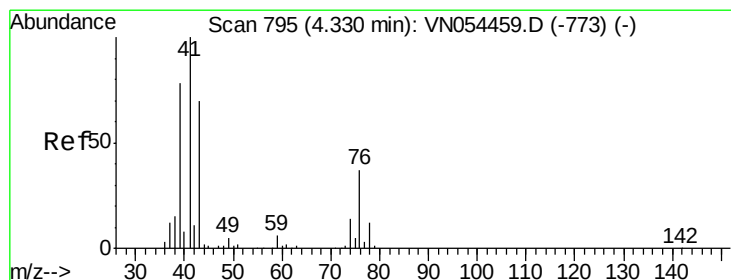
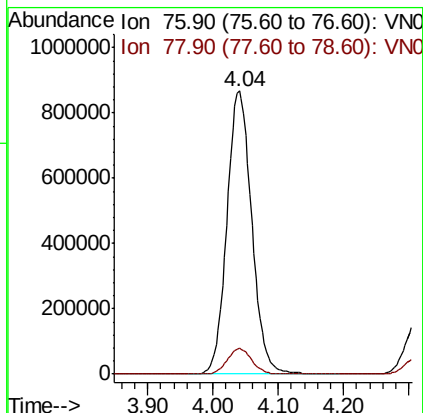
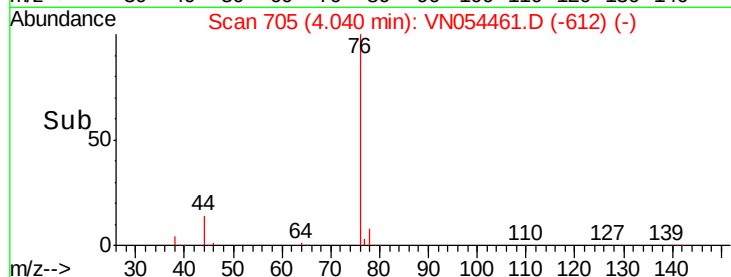
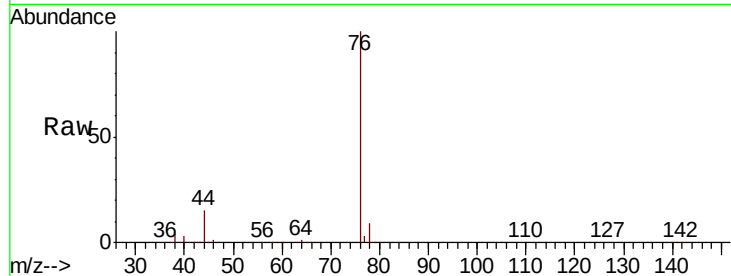
76 100

78 9.1 7.5 11.3

Manual Integrations
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#18

Methyl Acetate

Concen: 195.209 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN054461.D

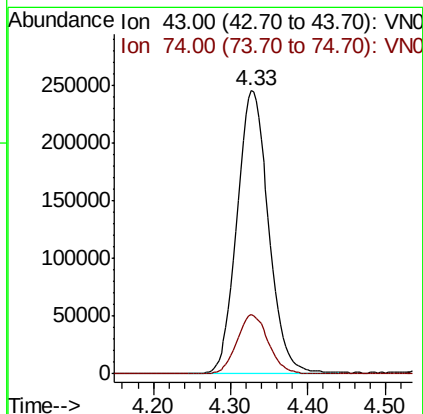
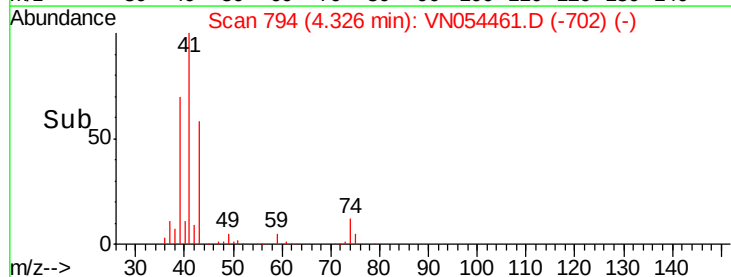
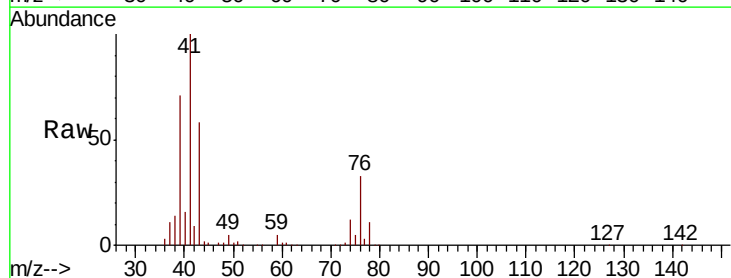
Acq: 20 Mar 2019 12:36

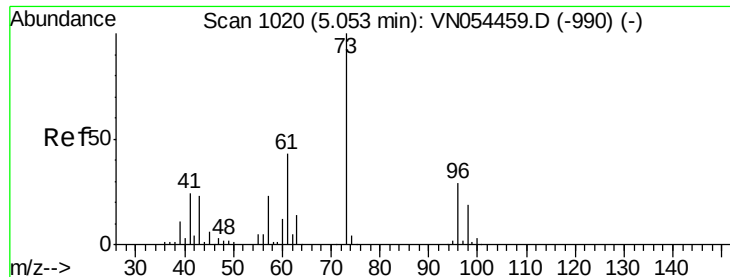
Tgt Ion: 43 Resp: 696287

Ion Ratio Lower Upper

43 100

74 20.9 20.8 31.2





#19

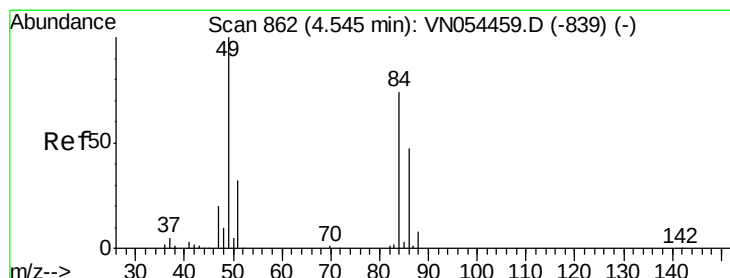
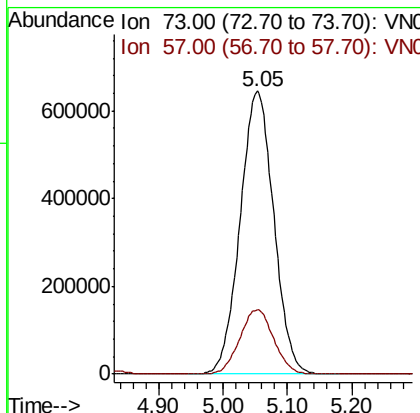
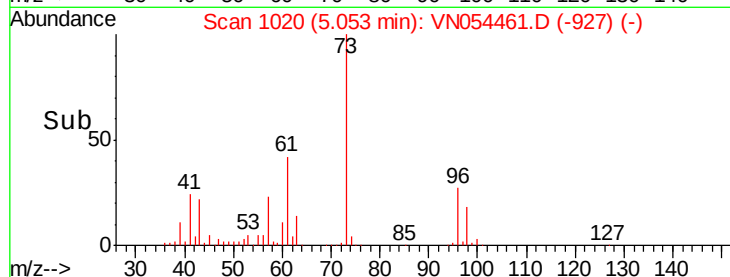
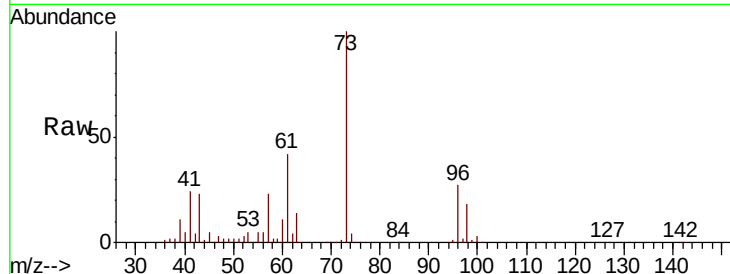
Methvl tert-butyl Ether
 Concen: 156.821 ug/l
 RT: 5.05 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 73 Resp: 2341379
 Ion Ratio Lower Upper
 73 100
 57 22.7 16.8 25.2

Manual Integrations
 APPROVED

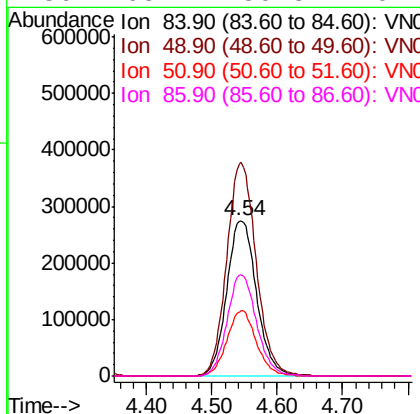
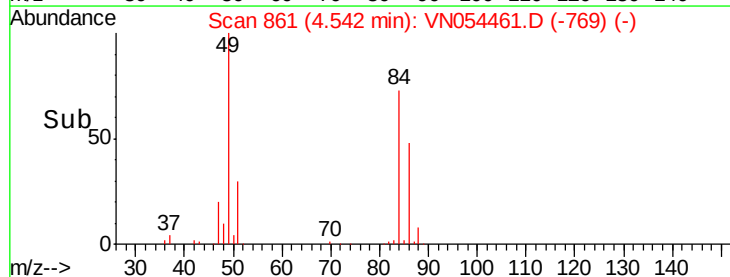
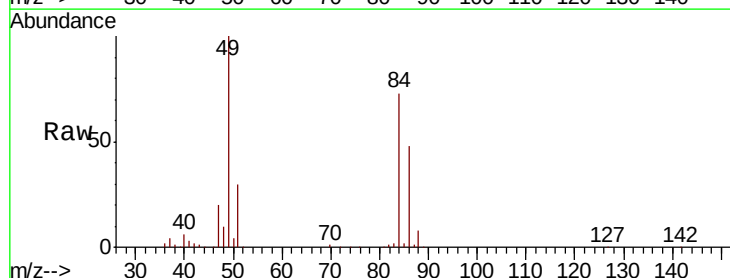
MMDadoda
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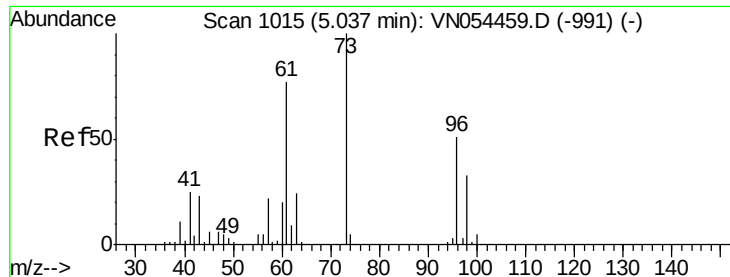


#20

Methylene Chloride
 Concen: 150.616 ug/l
 RT: 4.54 min Scan# 861
 Delta R.T. -0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Tgt Ion: 84 Resp: 871907
 Ion Ratio Lower Upper
 84 100
 49 136.8 89.7 134.5#
 51 41.3 28.2 42.4
 86 65.1 50.8 76.2





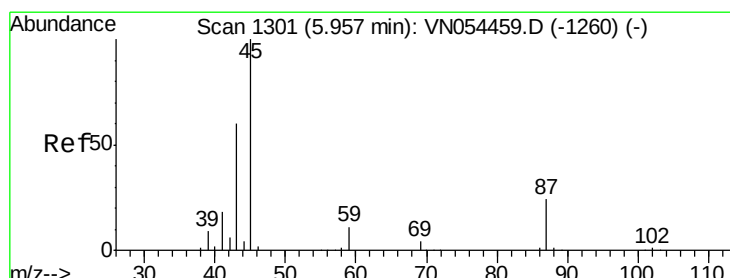
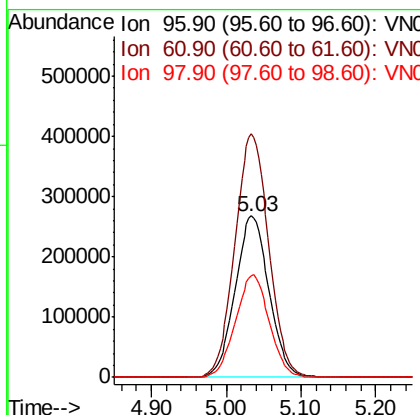
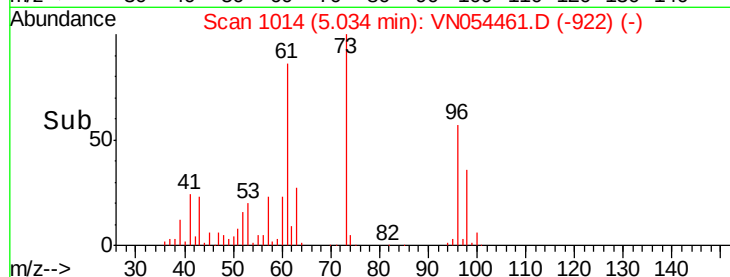
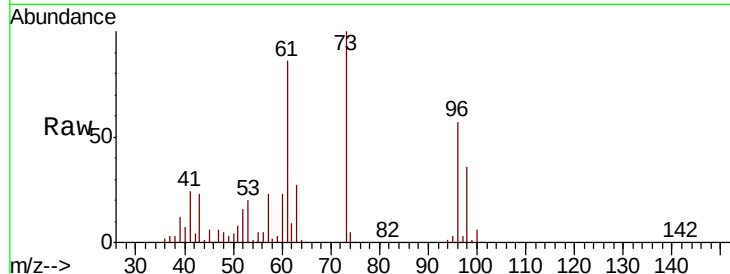
#21
trans-1,2-Dichloroethene
Concen: 145.348 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
96	100		
61	151.1	102.8	154.2
98	63.3	50.0	75.0

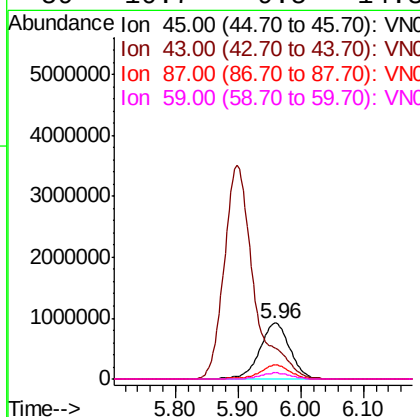
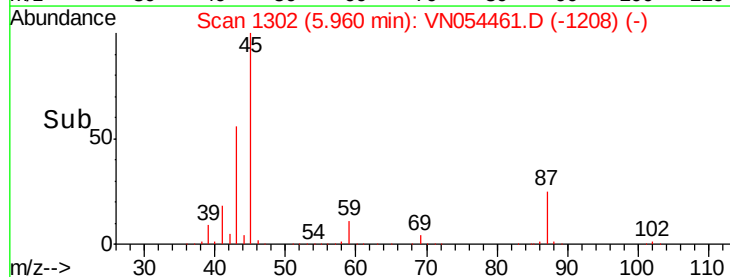
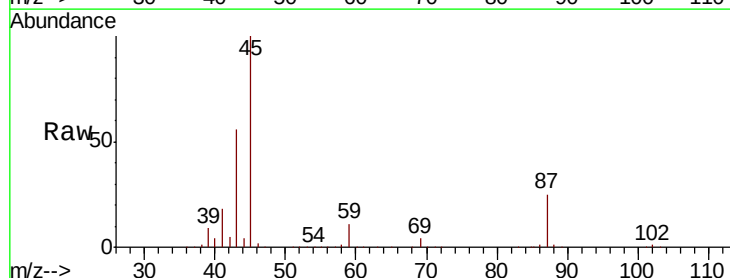
Manual Integrations
APPROVED

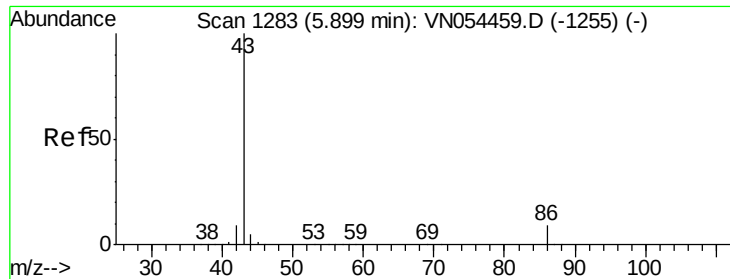
MMDadoda
3/22/2019 3:16:56 PM



#22
Diisopropyl ether
Concen: 198.121 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
45	100		
43	55.6	48.2	72.2
87	24.6	24.9	37.3
59	10.7	9.5	14.3





#23

Vinyl Acetate

Concen: 1016.893 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 11564527

Ion Ratio Lower Upper

43 100

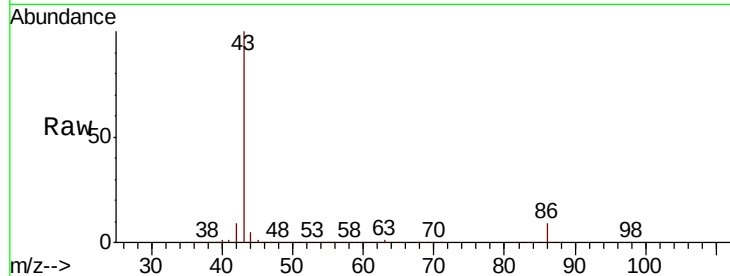
86 9.1 9.1 13.7#

Manual Integrations

APPROVED

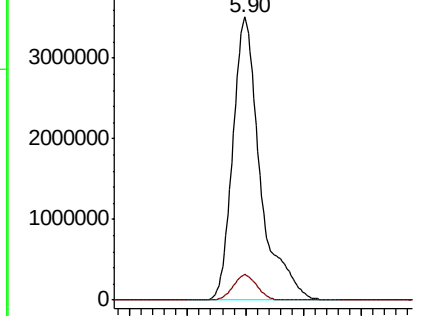
MMDadoda

3/22/2019 3:16:56 PM

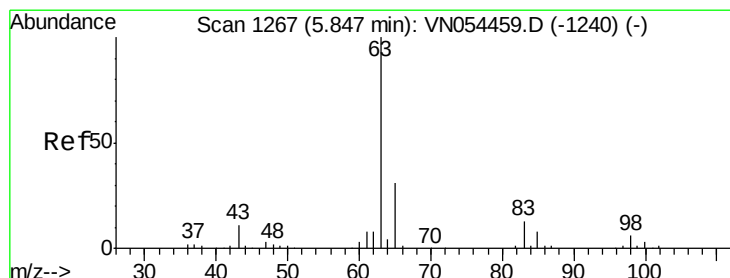
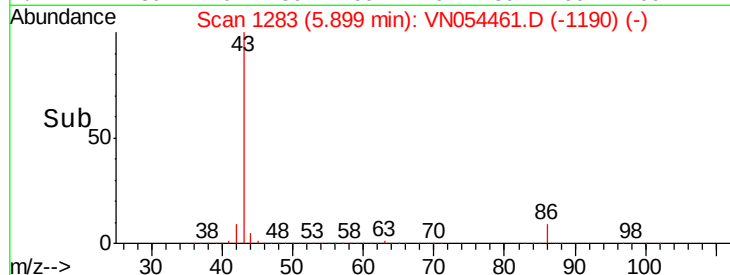


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



Time-->



#24

1,1-Dichloroethane

Concen: 161.931 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

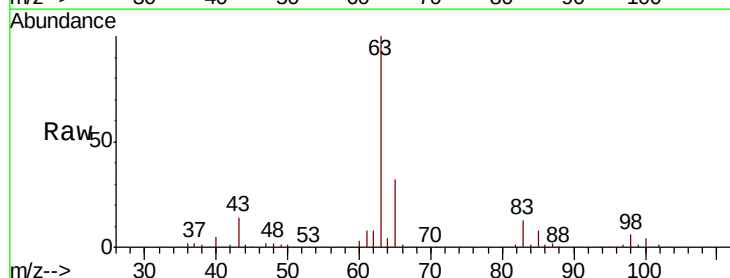
Tgt Ion: 63 Resp: 1603704

Ion Ratio Lower Upper

63 100

98 6.3 3.5 10.5

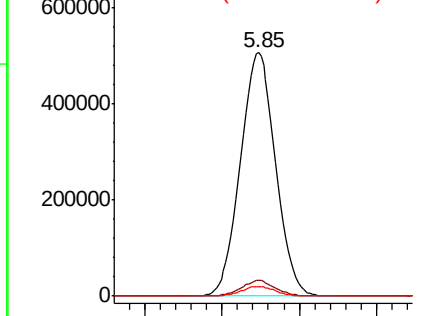
100 4.0 2.0 6.0



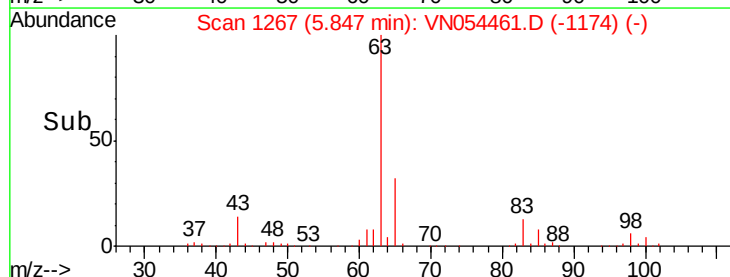
Abundance Ion 62.90 (62.60 to 63.60): VN0

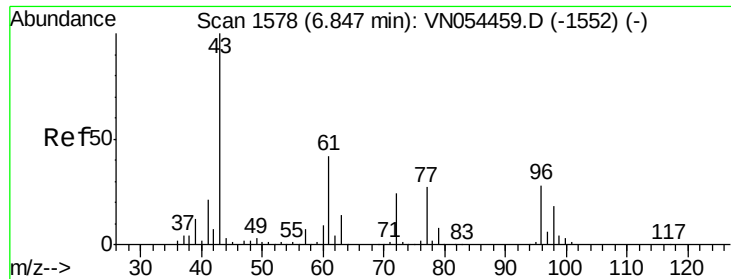
Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



Time-->





#25

2-Butanone

Concen: 1021.348 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 43 Resp: 2113415

Ion Ratio Lower Upper

43 100

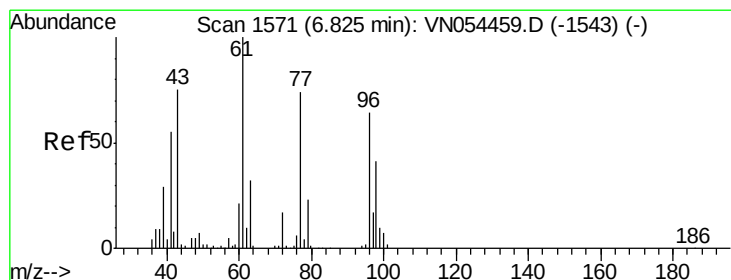
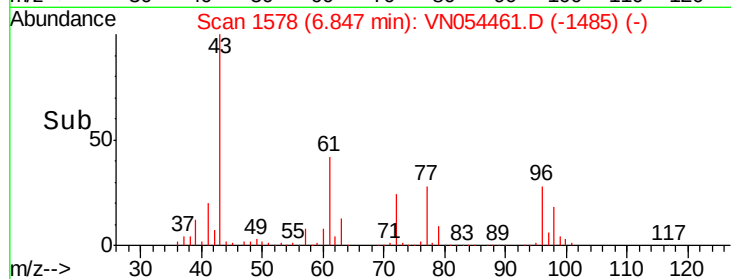
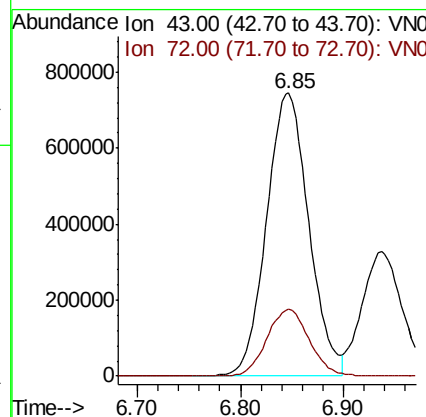
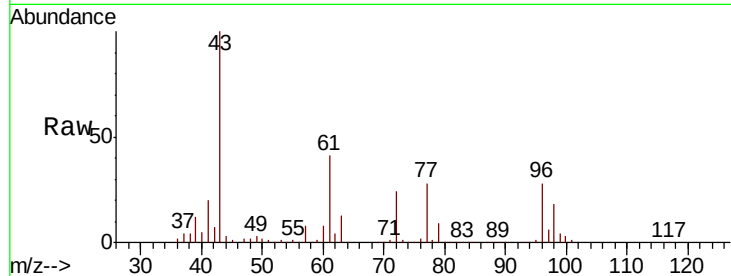
72 23.6 23.0 34.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 138.116 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054461.D

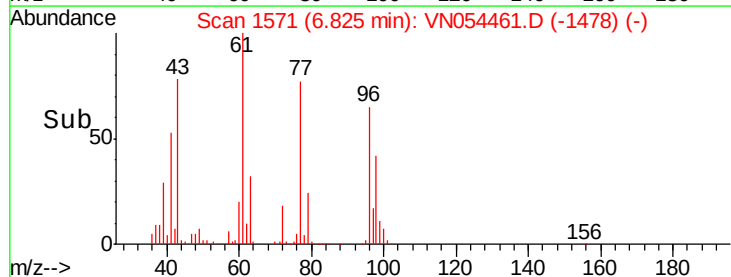
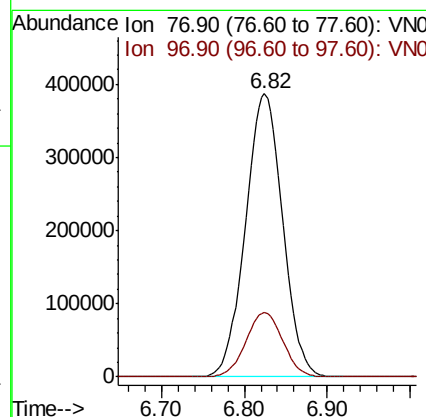
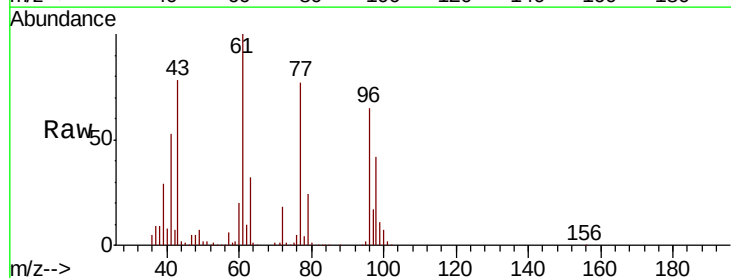
Acq: 20 Mar 2019 12:36

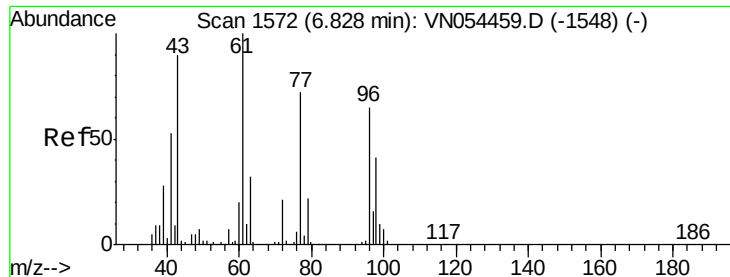
Tgt Ion: 77 Resp: 1202887

Ion Ratio Lower Upper

77 100

97 22.7 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 149.864 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 96 Resp: 964899

Ion Ratio Lower Upper

96 100

61 154.7 0.0 273.0

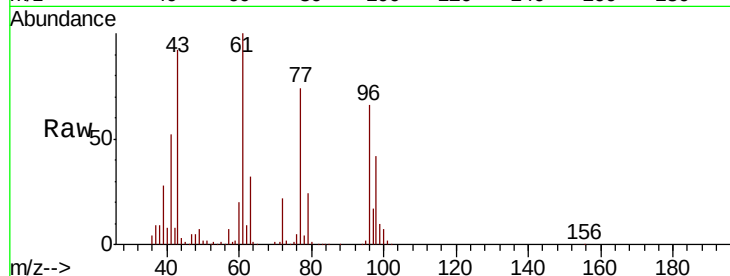
98 64.1 0.0 130.6

Manual Integrations

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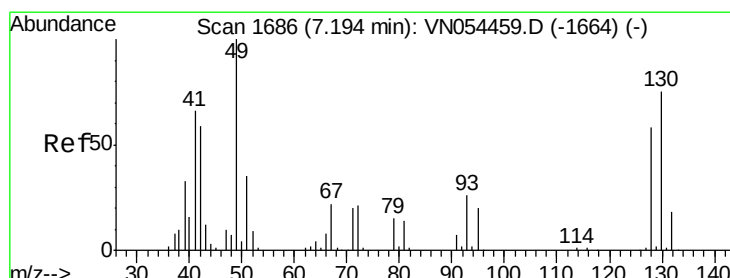
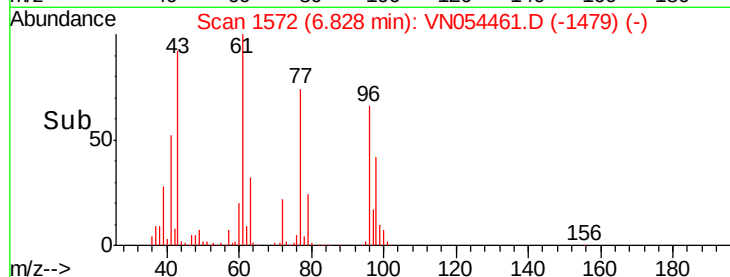
Abundance Ion 95.90 (95.60 to 96.60): VN054461.D (-1479) (-)

Ion 60.90 (60.60 to 61.60): VN054461.D (-1479) (-)

Ion 97.90 (97.60 to 98.60): VN054461.D (-1479) (-)

6.83

Time-->



#28

Bromochloromethane

Concen: 195.756 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

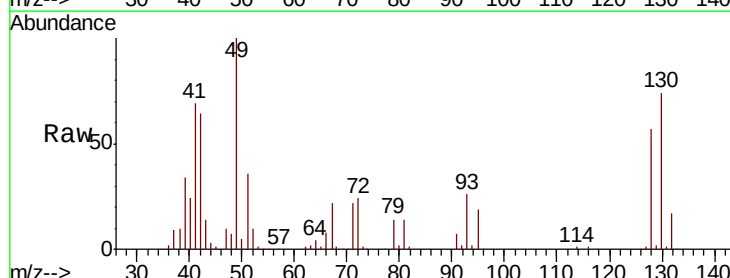
Tgt Ion: 49 Resp: 792563

Ion Ratio Lower Upper

49 100

129 2.1 0.0 4.6

130 73.3 76.7 115.1#



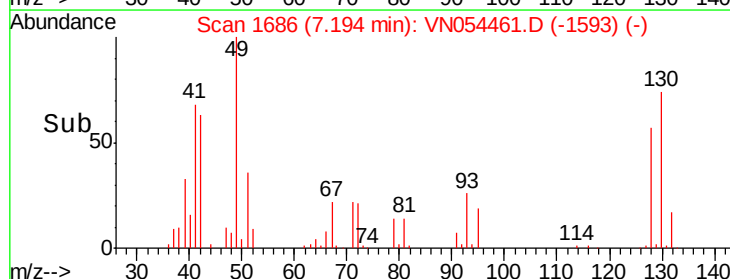
Abundance Ion 48.90 (48.60 to 49.60): VN054461.D (-1593) (-)

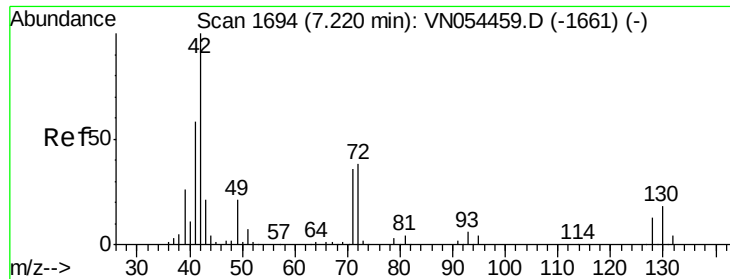
Ion 128.80 (128.50 to 129.50): VN054461.D (-1593) (-)

Ion 129.80 (129.50 to 130.50): VN054461.D (-1593) (-)

7.19

Time-->





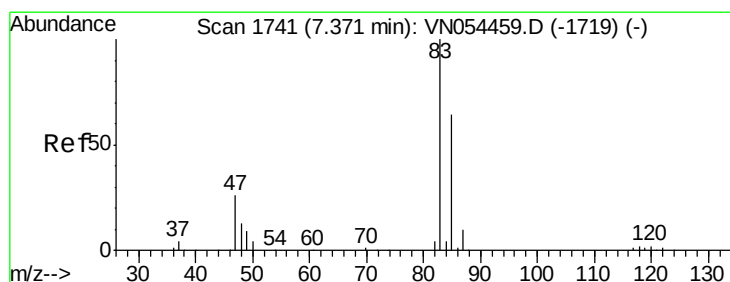
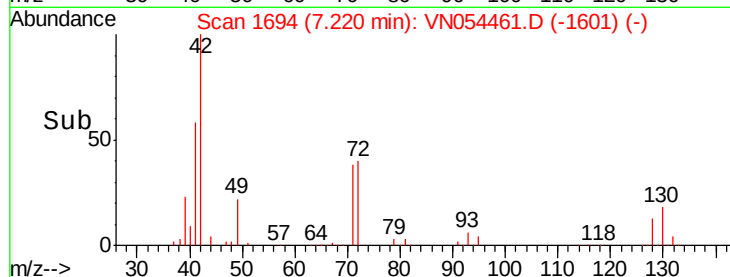
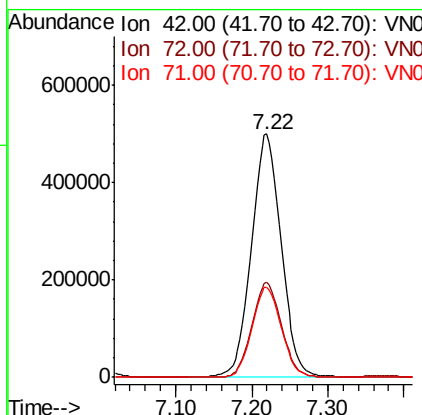
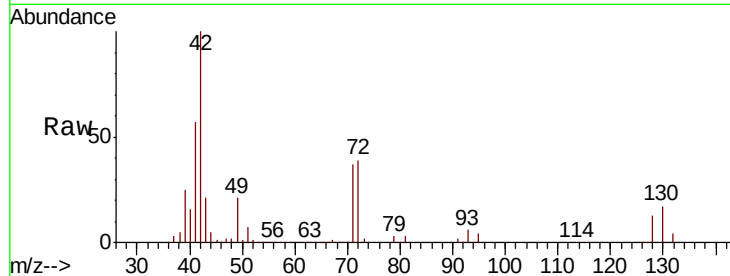
#29
Tetrahydrofuran
Concen: 1024.336 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 42 Resp: 1362823
Ion Ratio Lower Upper
42 100
72 38.3 37.8 56.6
71 36.5 36.2 54.2

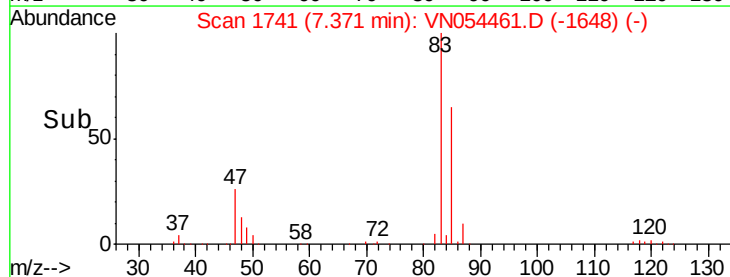
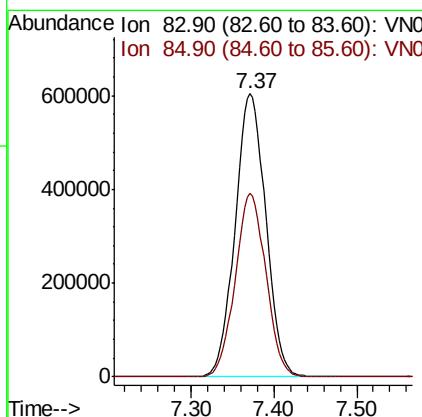
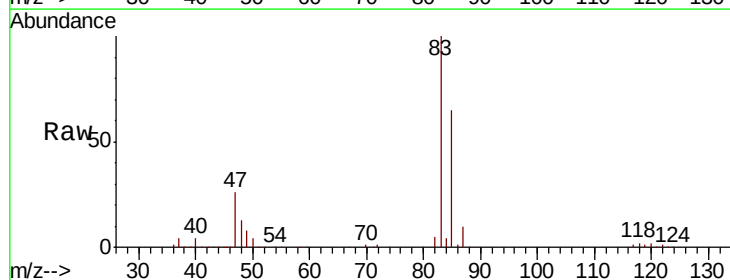
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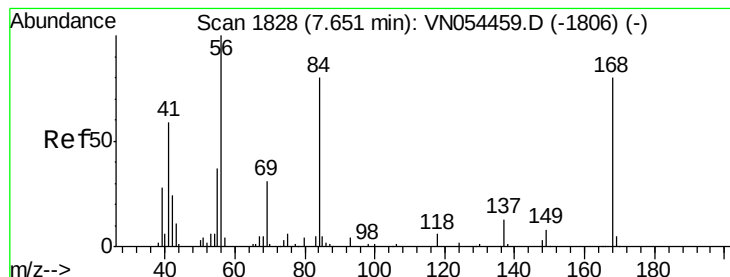
MMDadoda
3/22/2019 3:16:56 PM



#30
Chloroform
Concen: 150.510 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Tgt Ion: 83 Resp: 1555432
Ion Ratio Lower Upper
83 100
85 64.7 52.2 78.4





#31

Cyclohexane

Concen: 145.584 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 1552003

Ion Ratio Lower Upper

56 100

69 29.8 27.8 41.6

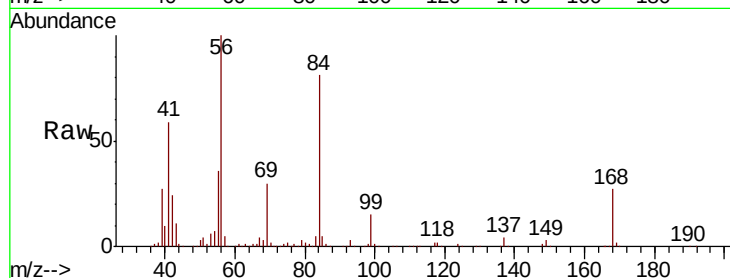
84 79.9 74.6 111.8

Manual Integrations

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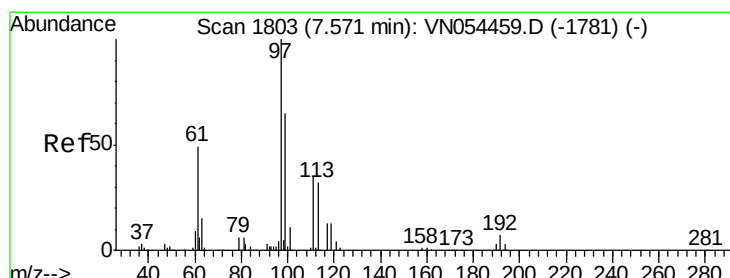
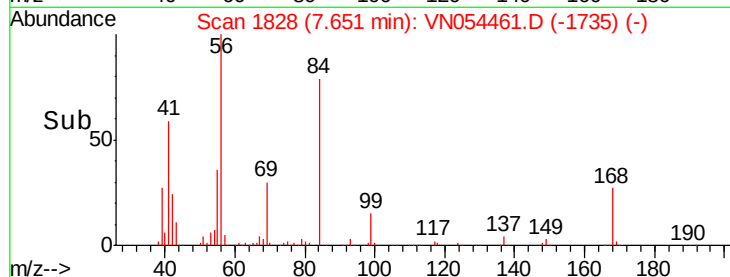
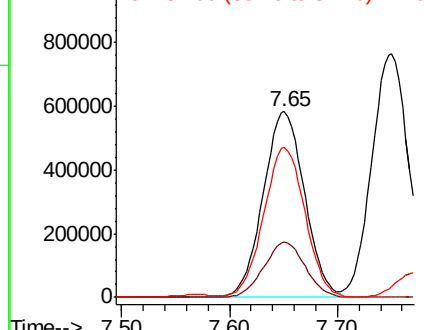


Abundance

Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 146.369 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

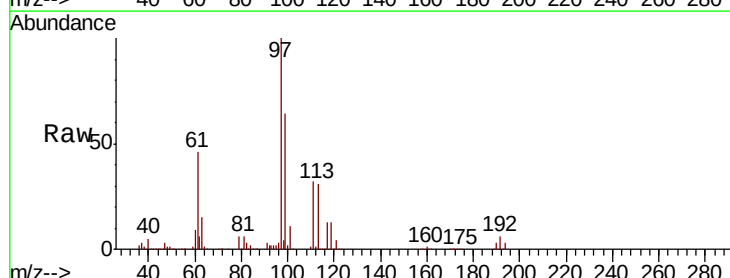
Tgt Ion: 97 Resp: 1366108

Ion Ratio Lower Upper

97 100

99 64.0 51.5 77.3

61 46.2 33.6 50.4

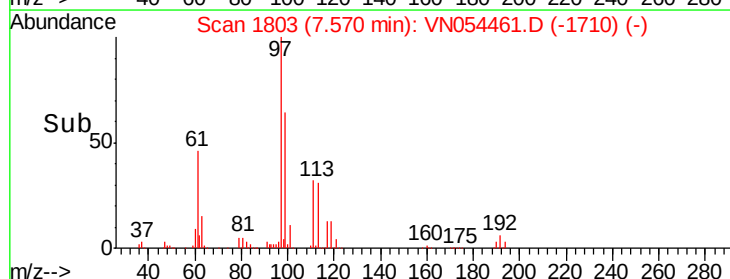
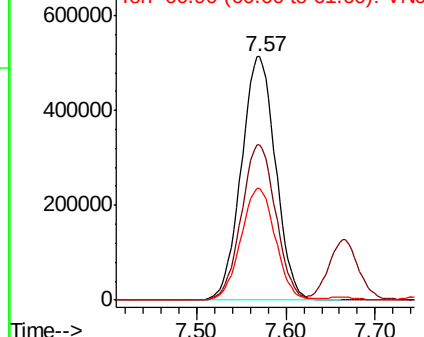


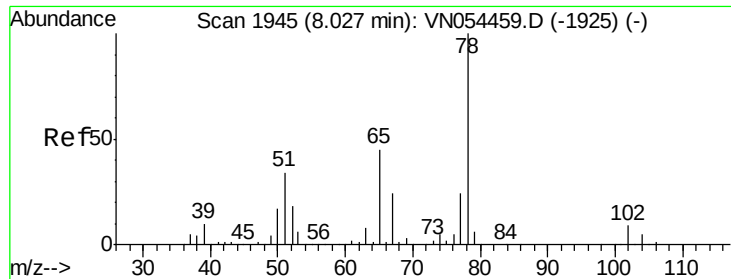
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





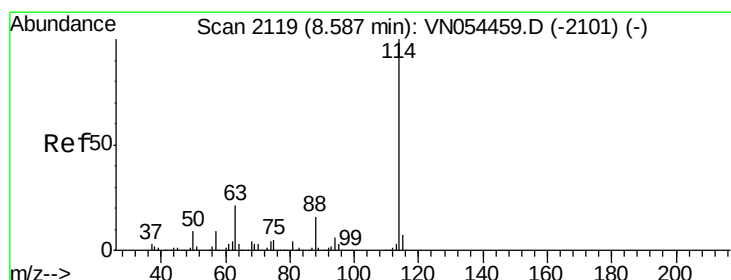
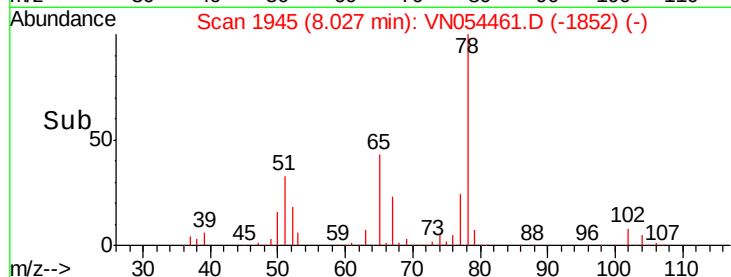
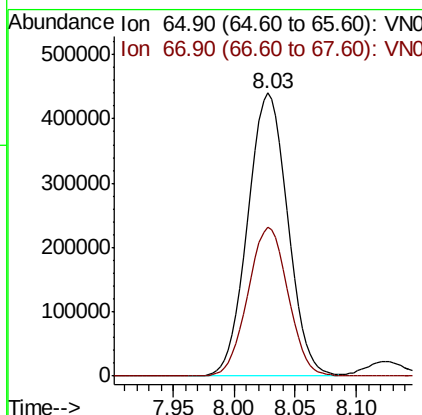
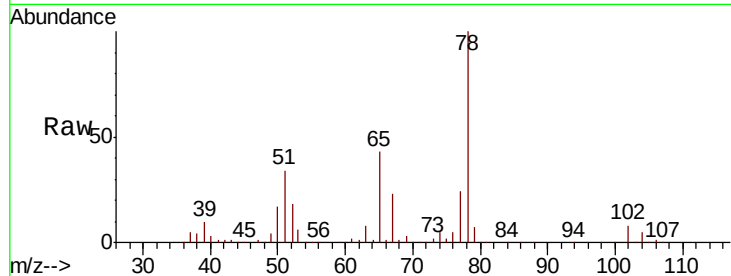
#33
 1,2-Dichloroethane-d4
 Concen: 162.631 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 65 Resp: 1001390
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 104.6

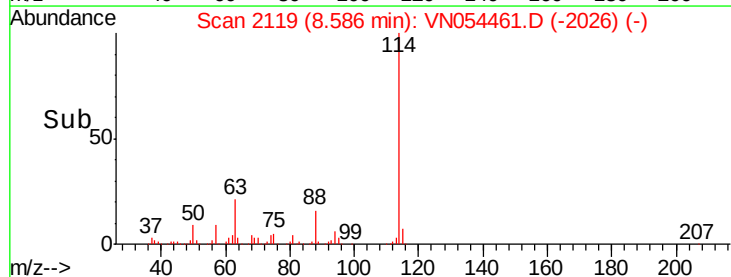
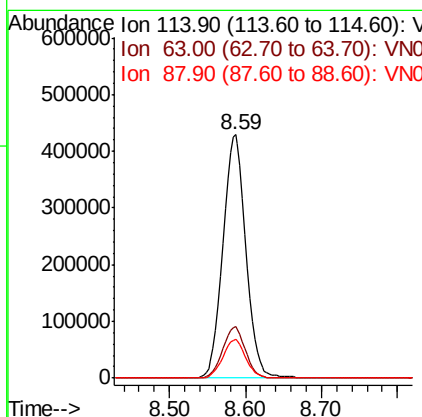
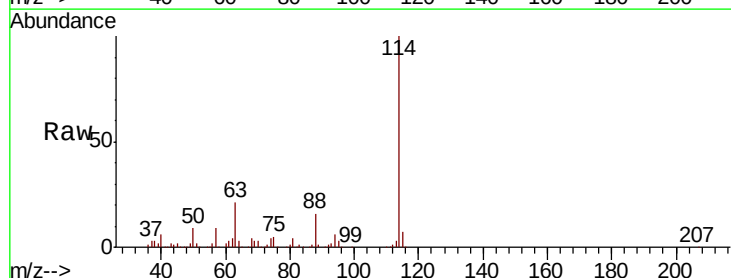
Manual Integrations
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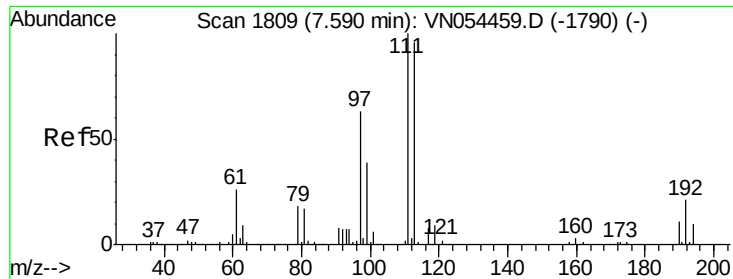
MMDadoda
 3/22/2019 3:16:56 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Tgt Ion: 114 Resp: 903005
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 35.2
 88 15.8 0.0 30.2





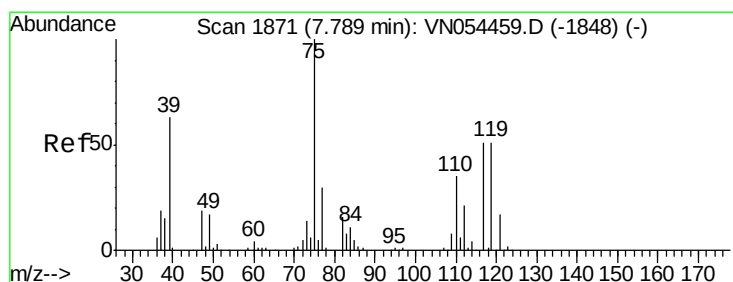
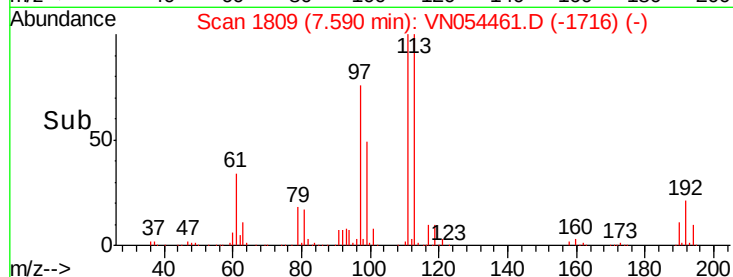
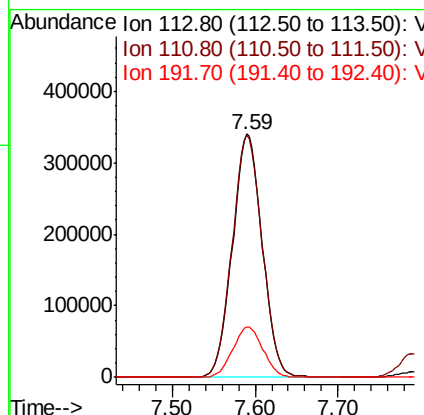
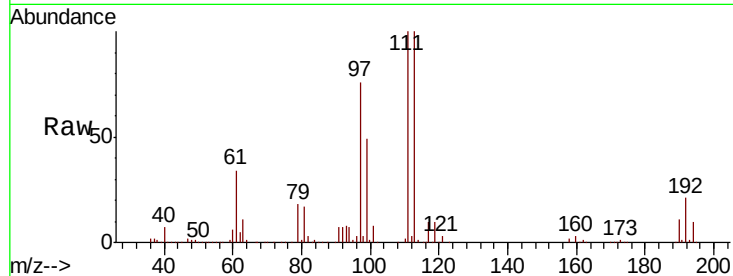
#35
 Dibromofluoromethane
 Concen: 145.838 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
113	100	849361		
111	100.6	82.2	123.4	
192	21.0	19.2	28.8	

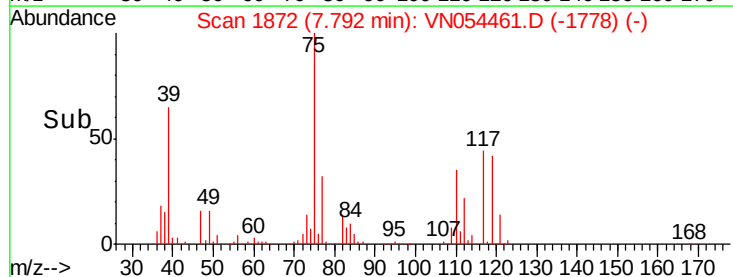
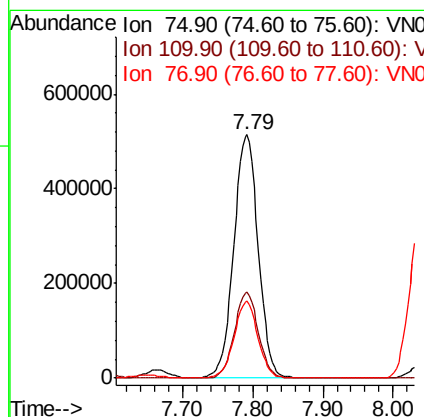
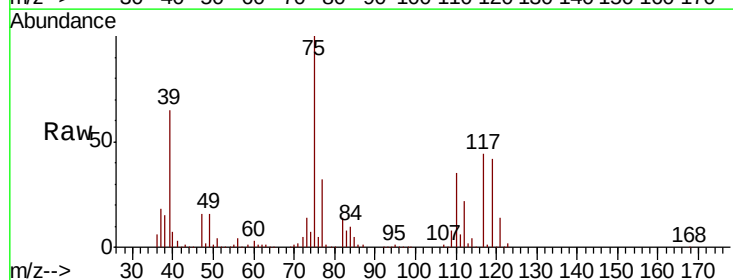
Manual Integrations
 APPROVED

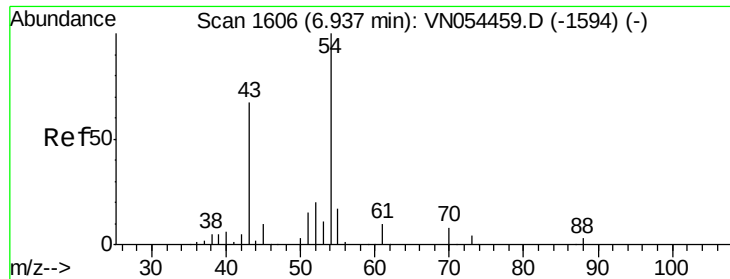
MMDadoda
 3/22/2019 3:16:56 PM



#36
 1,1-Dichloropropene
 Concen: 149.476 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1243028		
110	34.8	19.1	57.5	
77	31.2	25.0	37.4	





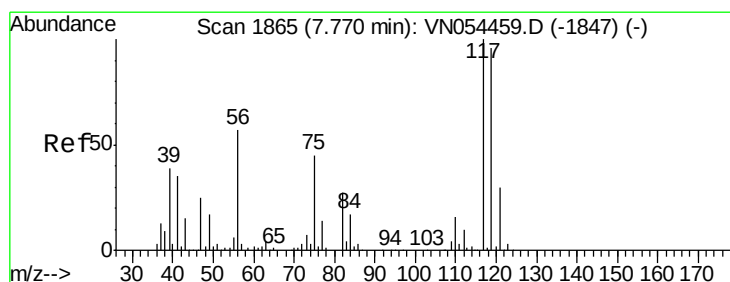
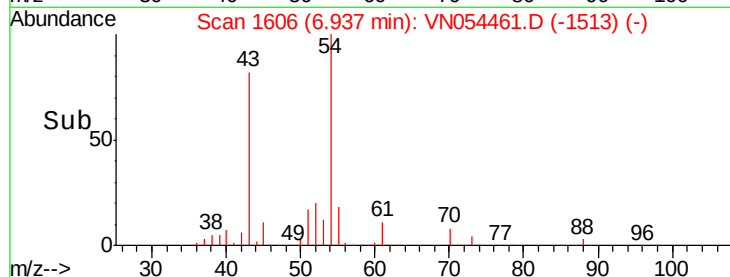
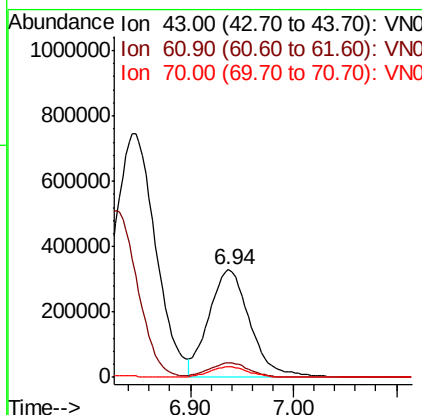
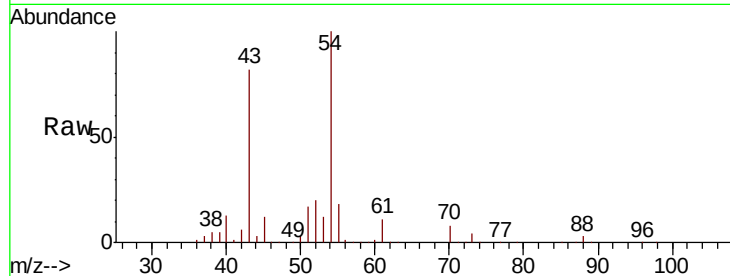
#37
Ethyl Acetate
Concen: 188.812 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.2	11.8	17.6
70	9.4	8.4	12.6

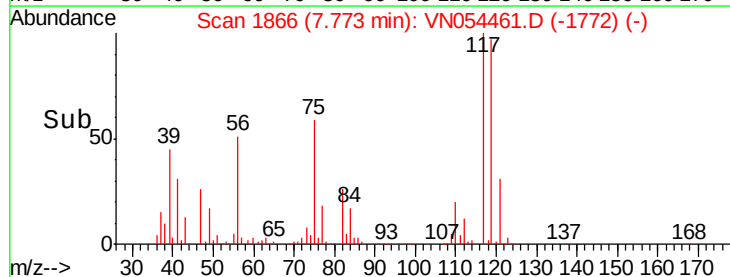
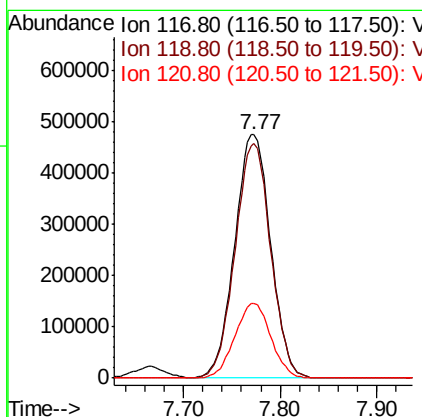
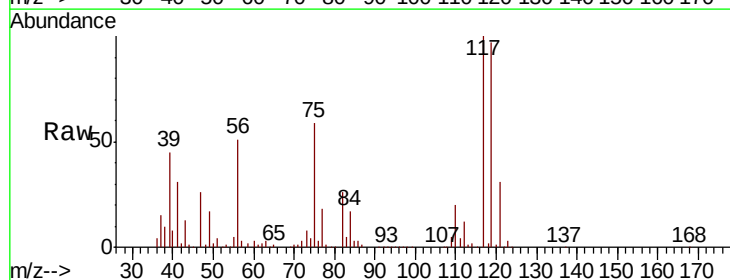
Manual Integrations
APPROVED

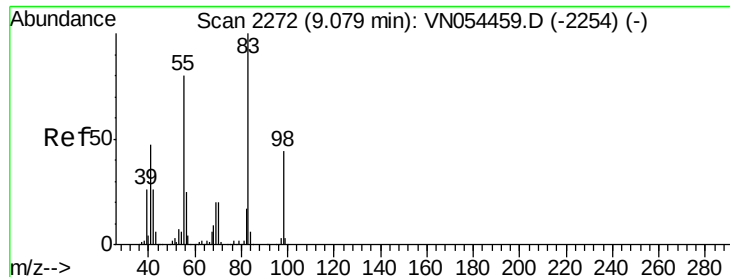
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#38
Carbon Tetrachloride
Concen: 140.219 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.3	114.5
121	30.6	24.6	36.8





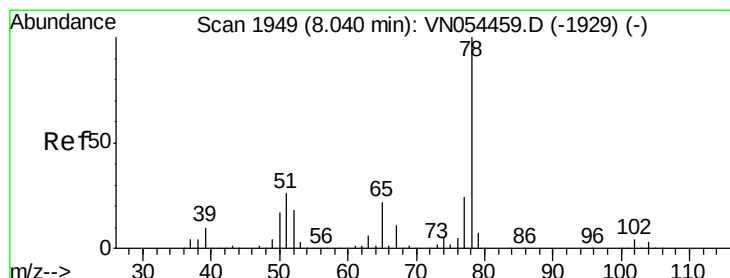
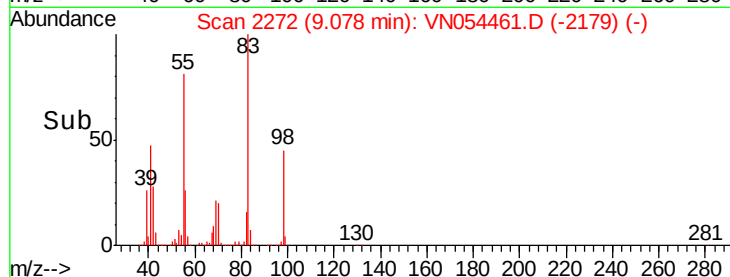
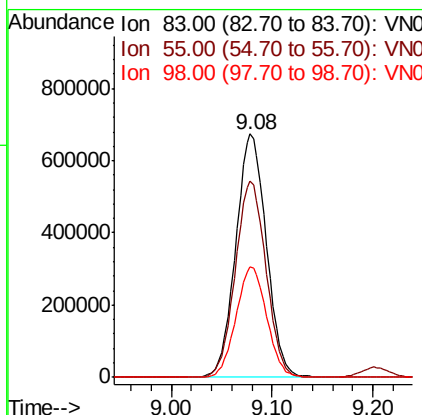
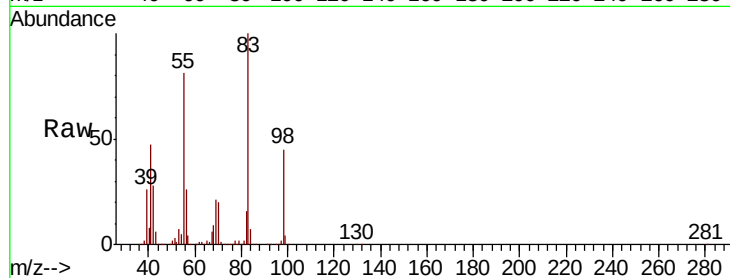
#39
Methylvlcyclohexane
Concen: 137.934 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 83 Resp: 1411305
Ion Ratio Lower Upper
83 100
55 80.7 56.6 84.8
98 45.4 38.4 57.6

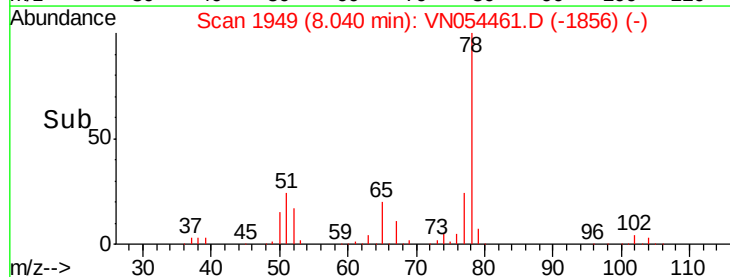
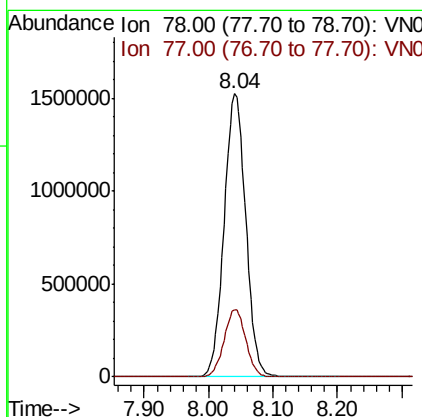
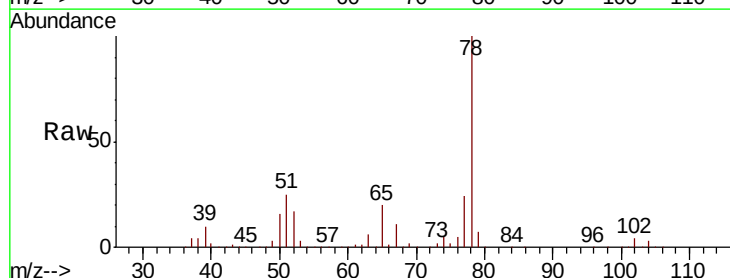
Manual Integrations
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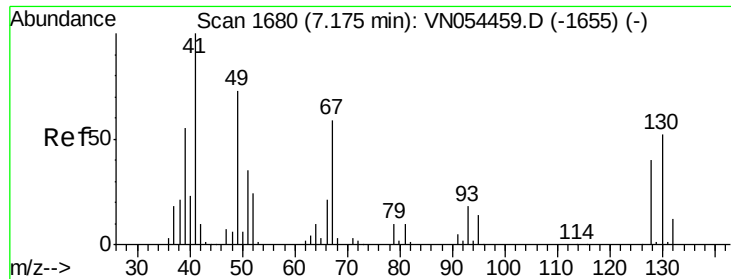
MMDadoda
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#40
Benzene
Concen: 149.710 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Tgt Ion: 78 Resp: 3562617
Ion Ratio Lower Upper
78 100
77 23.9 19.1 28.7





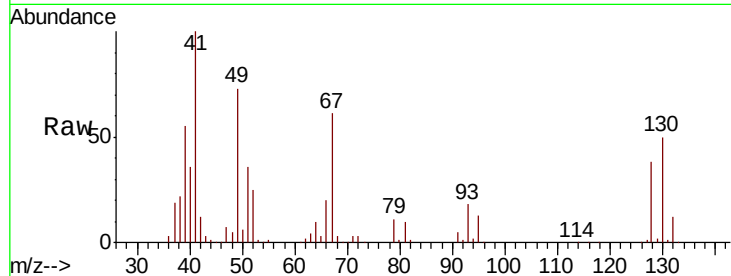
#41
Methacrylonitrile
Concen: 197.082 ug/l
RT: 7.17 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

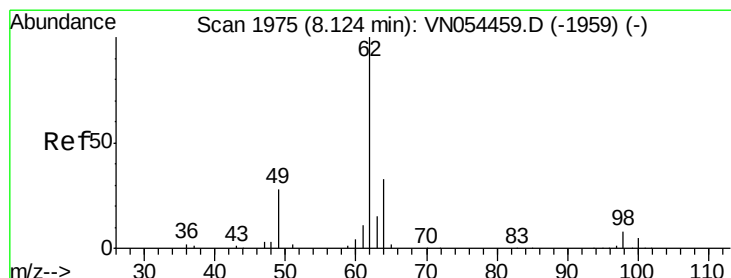
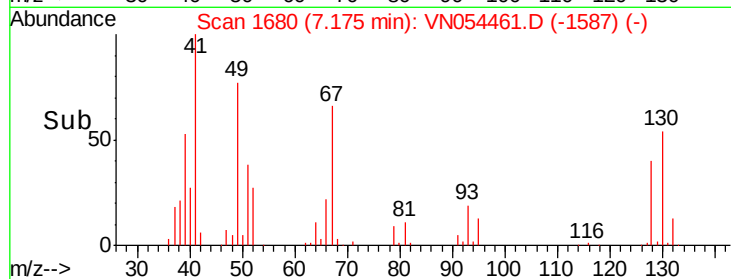
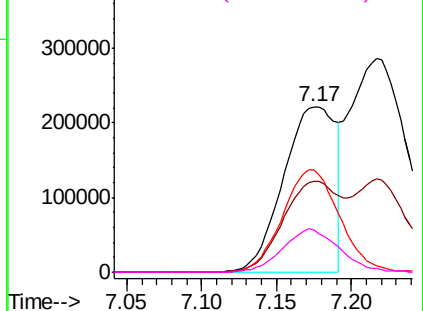
Tot Ion	41	Resp	537682
Ion Ratio	Lower	Upper	
41	100		
39	61.5	46.8	70.2
67	67.5	67.0	100.4
52	28.1	26.5	39.7

Manual Integrations
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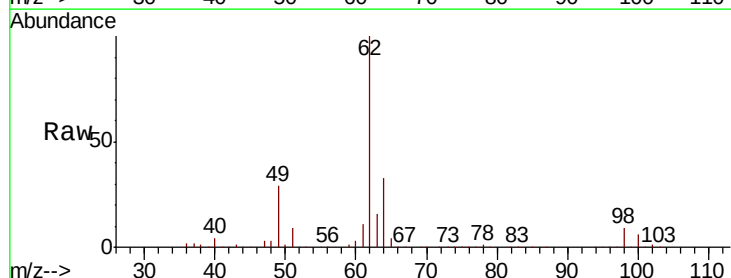


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

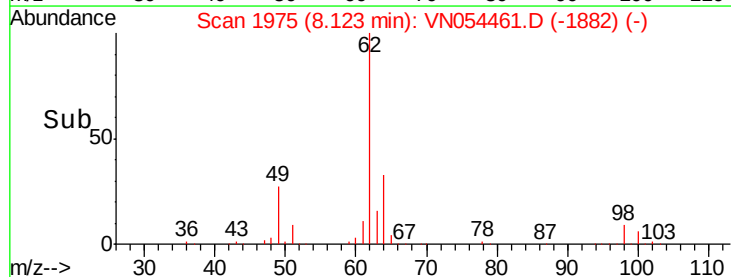
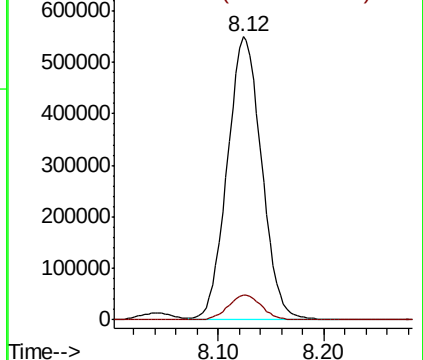


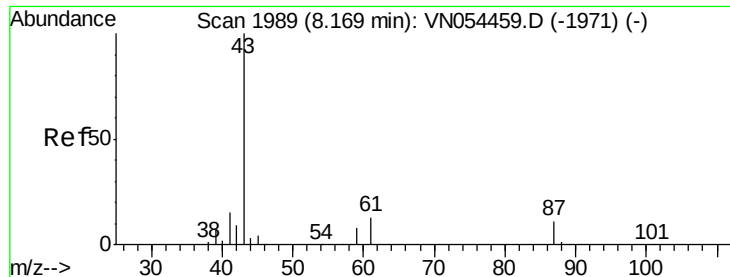
#42
1,2-Dichloroethane
Concen: 153.791 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Tgt Ion	62	Resp	1235585
Ion Ratio	Lower	Upper	
62	100		
98	8.6	0.0	18.4



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 97.90 (97.60 to 98.60): VNO





#43

Isopropyl Acetate

Concen: 195.116 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 1636456

Ion Ratio Lower Upper

43 100

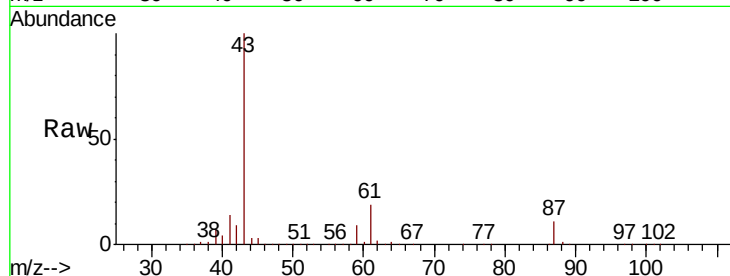
61 18.3 15.8 23.8

87 11.7 12.0 18.0#

Manual Integrations
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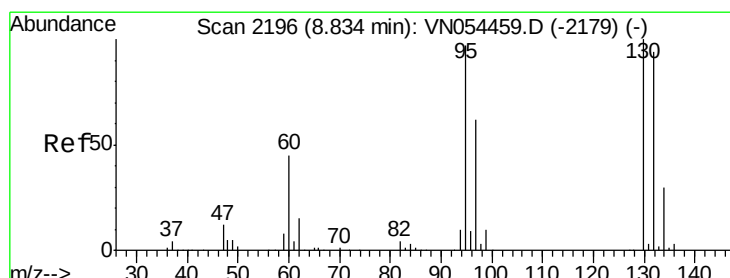
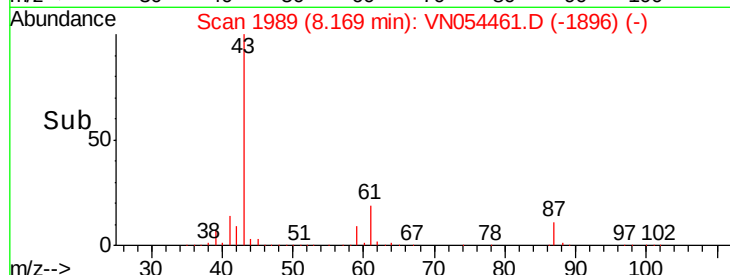
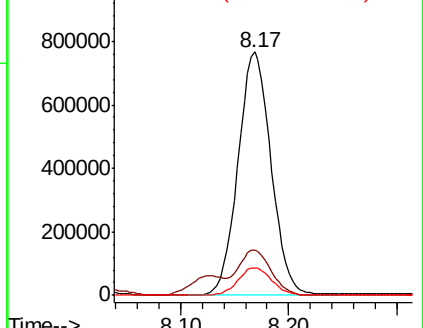
3/22/2019 3:16:56 PM



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-1971) (-)

Ion 61.00 (60.70 to 61.70): VN054459.D (-1971) (-)

Ion 87.00 (86.70 to 87.70): VN054459.D (-1971) (-)



#44

Trichloroethene

Concen: 131.808 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN054461.D

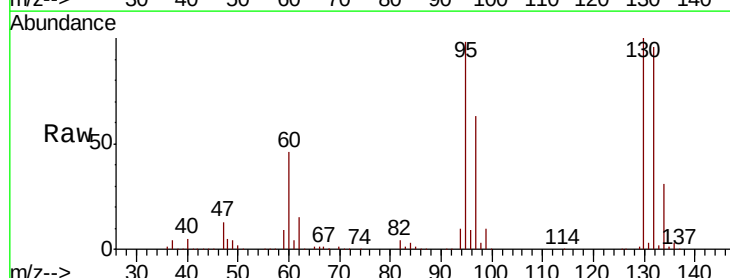
Acq: 20 Mar 2019 12:36

Tgt Ion:130 Resp: 974378

Ion Ratio Lower Upper

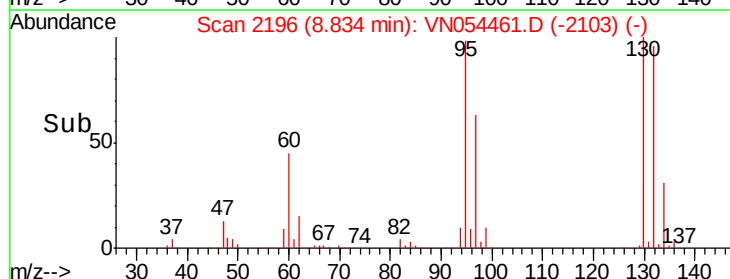
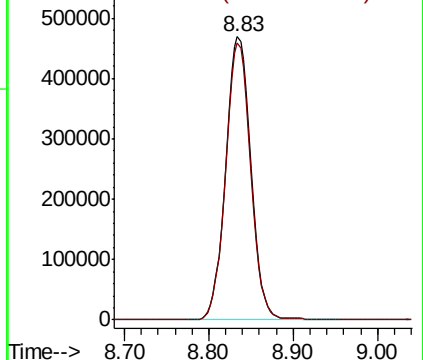
130 100

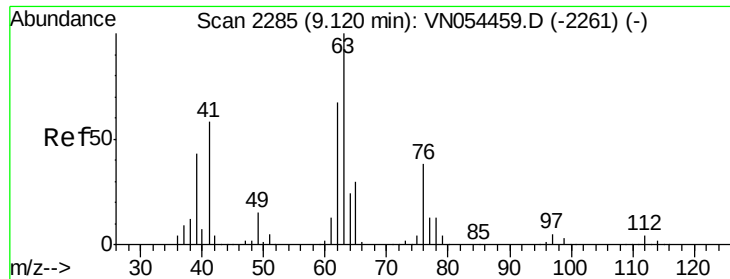
95 97.7 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): VN054459.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN054459.D (-2179) (-)





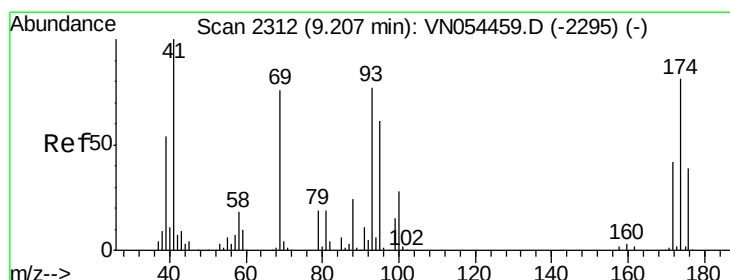
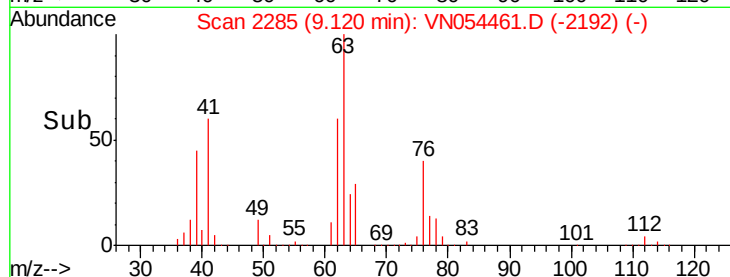
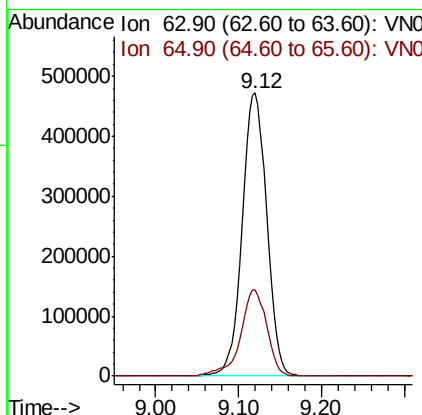
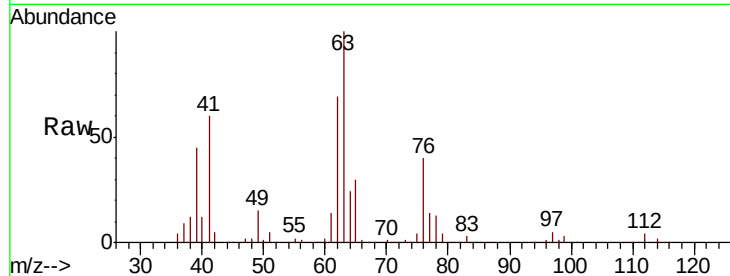
#45
 1,2-Dichloropropane
 Concen: 164.880 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 63 Resp: 974269
 Ion Ratio Lower Upper
 63 100
 65 30.3 25.0 37.6

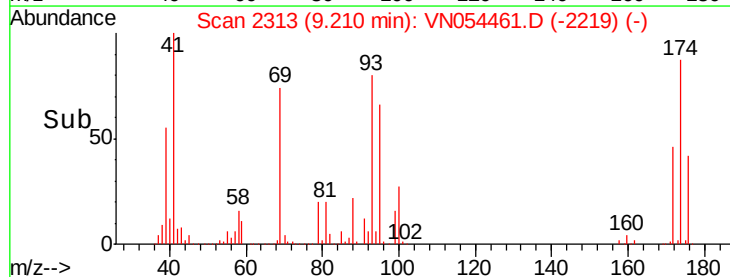
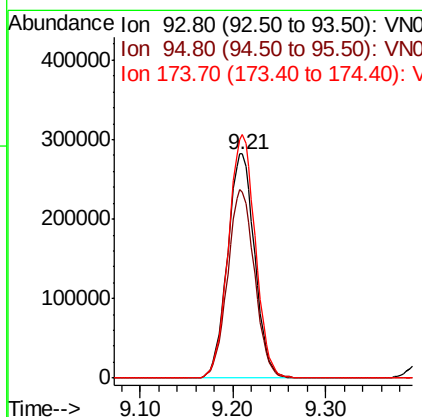
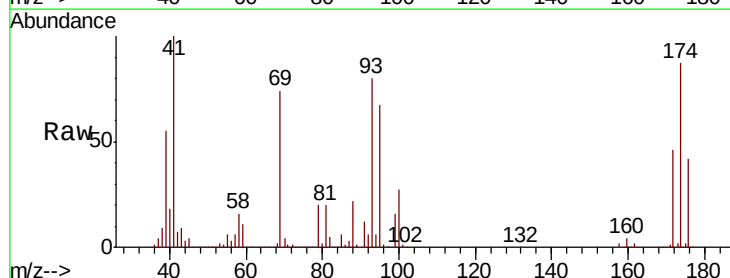
Manual Integrations
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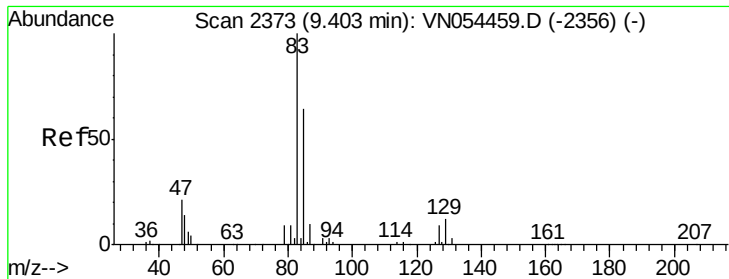
MMDadoda
 3/22/2019 3:16:56 PM



#46
 Dibromomethane
 Concen: 143.529 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Tgt Ion: 93 Resp: 573035
 Ion Ratio Lower Upper
 93 100
 95 83.1 66.7 100.1
 174 107.8 98.5 147.7





#47

Bromodichloromethane

Concen: 154.971 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 1240359

Ion Ratio Lower Upper

83 100

85 64.1 52.8 79.2

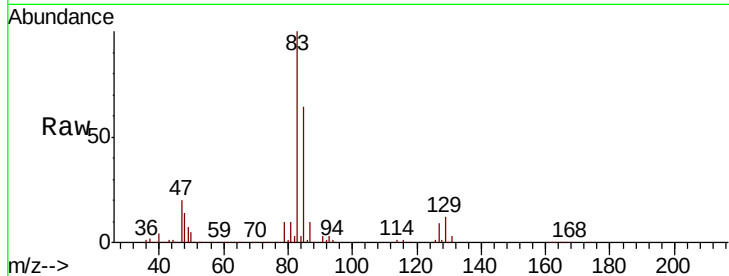
127 8.9 7.4 11.2

Manual Integrations

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MMDadoda

3/22/2019 3:16:56 PM



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): VN0

9.40

800000

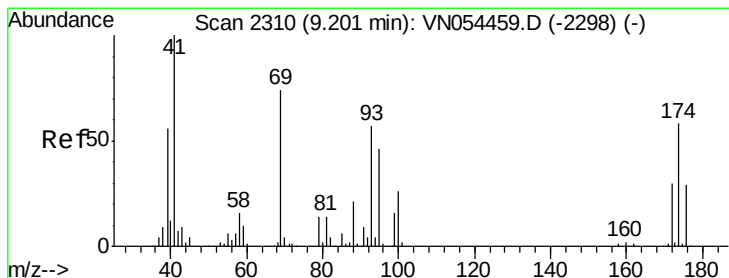
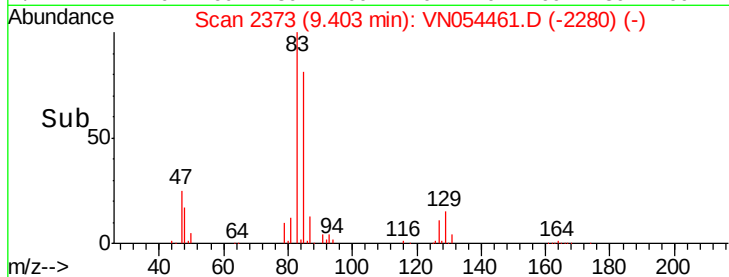
600000

400000

200000

0

Time-->



#48

Methyl methacrylate

Concen: 204.140 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

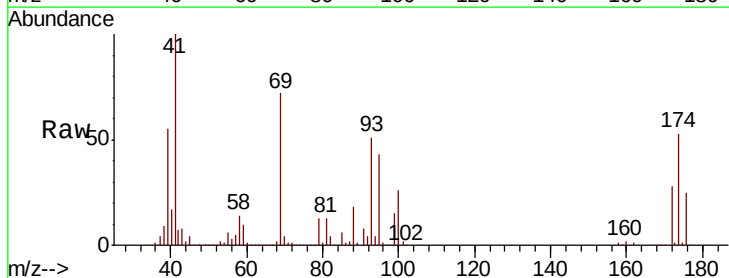
Tgt Ion: 41 Resp: 868884

Ion Ratio Lower Upper

41 100

69 73.3 72.6 108.8

39 55.6 47.5 71.3



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

600000

500000

400000

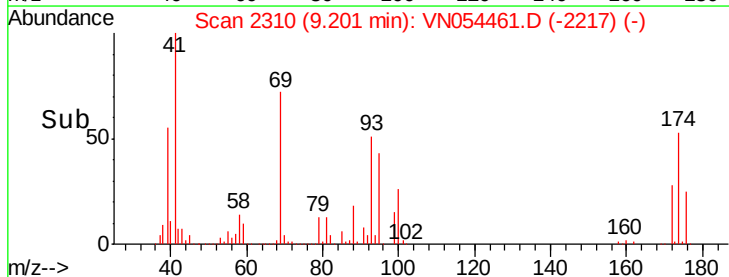
300000

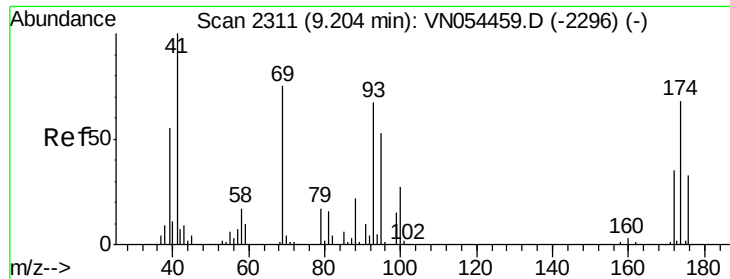
200000

100000

0

Time-->





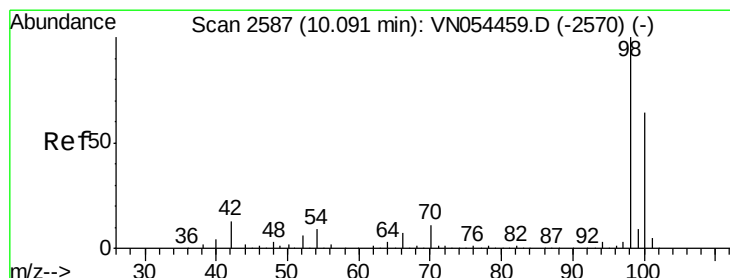
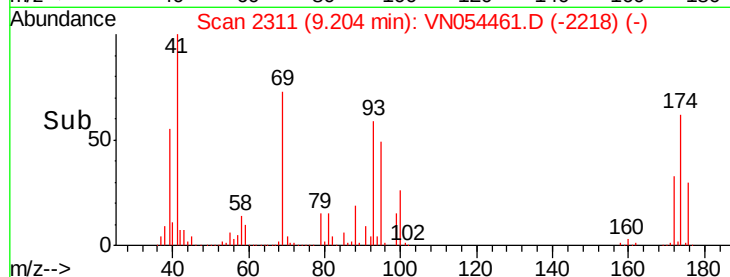
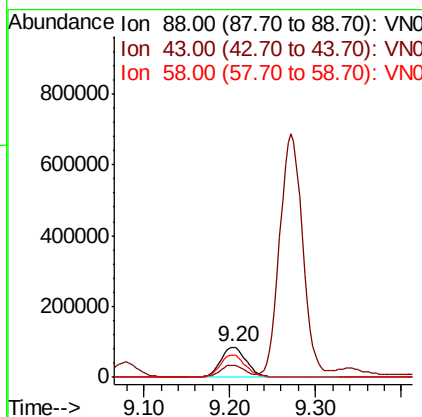
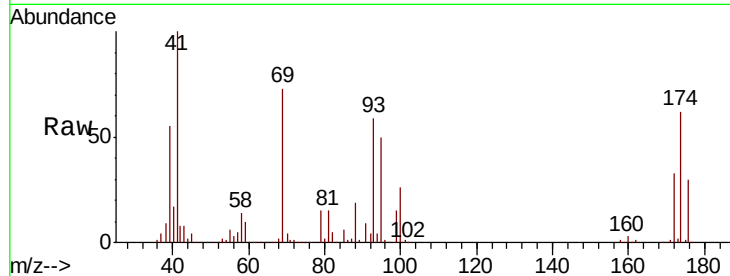
#49
1,4-Dioxane
Concen: 2968.923 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
88	100		
43	38.1	24.1	36.1#
58	72.7	50.8	76.2

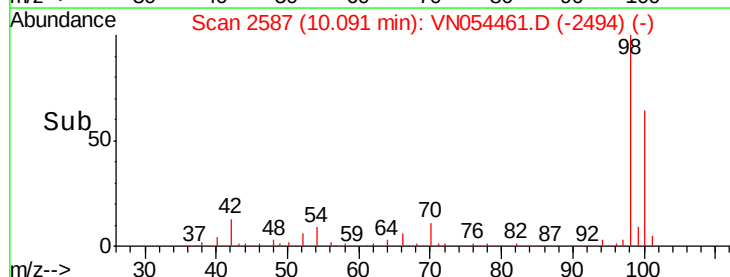
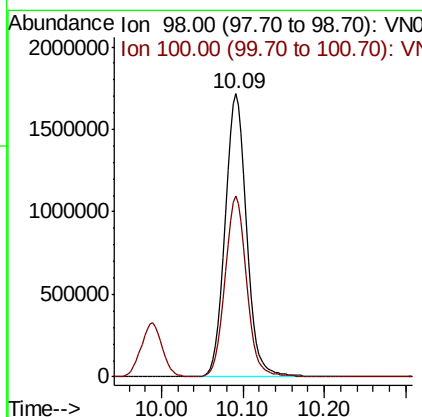
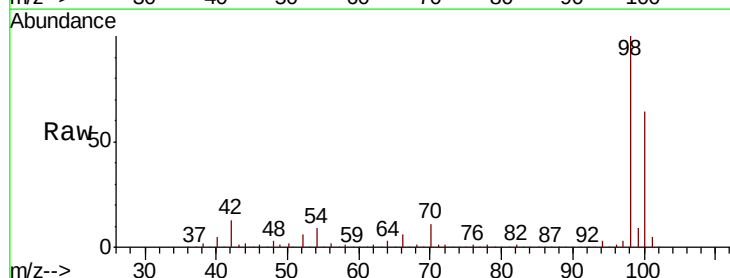
Manual Integrations
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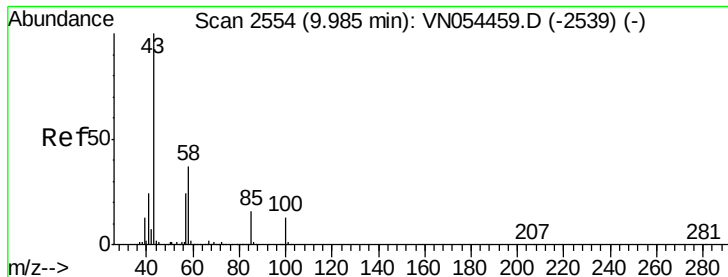
MMDadoda
3/22/2019 3:16:56 PM



#50
Toluene-d8
Concen: 149.616 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 1004.079 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 4456604

Ion Ratio Lower Upper

43 100

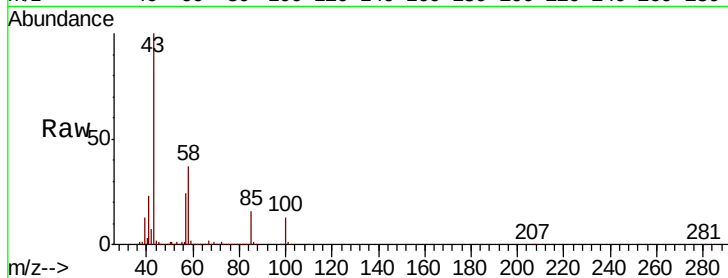
58 36.6 31.8 47.6

Manual Integrations

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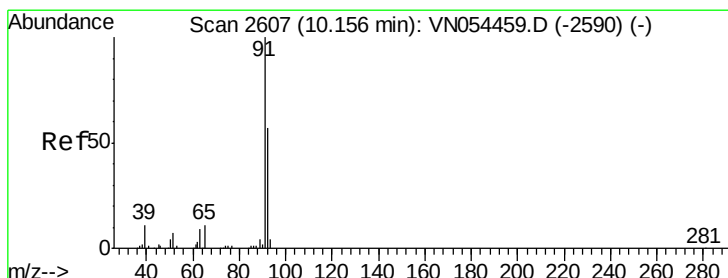
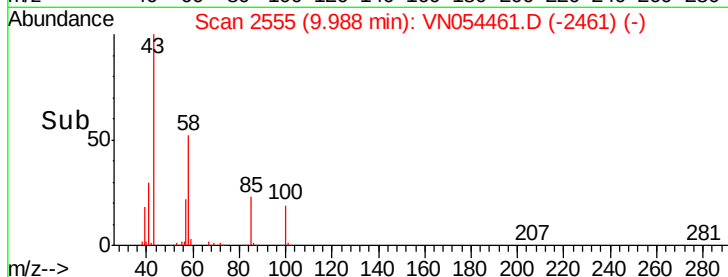
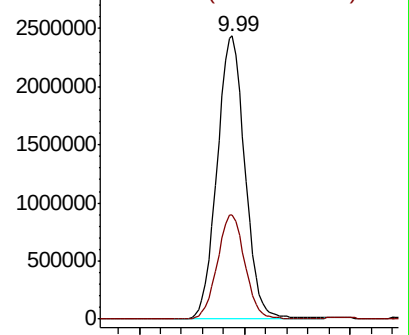
MMDadoda

3/22/2019 3:16:56 PM



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN054459.D (-2539) (-)



#52

Toluene

Concen: 147.734 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054461.D

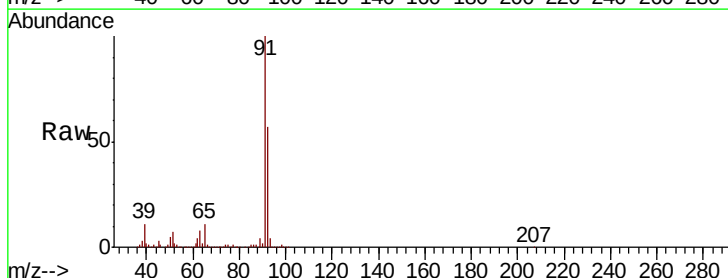
Acq: 20 Mar 2019 12:36

Tgt Ion: 92 Resp: 2229122

Ion Ratio Lower Upper

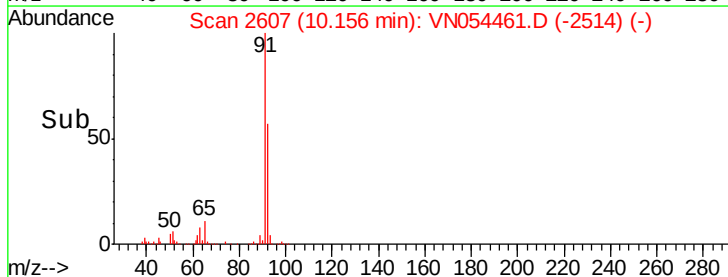
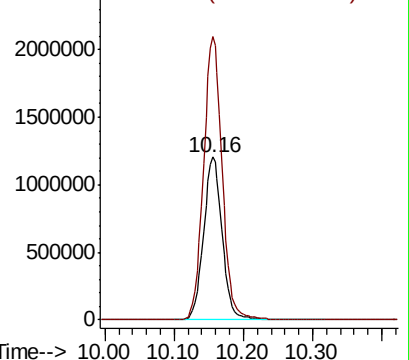
92 100

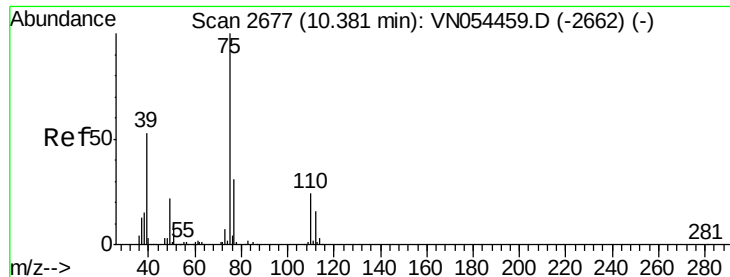
91 174.9 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN054459.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VN054459.D (-2590) (-)





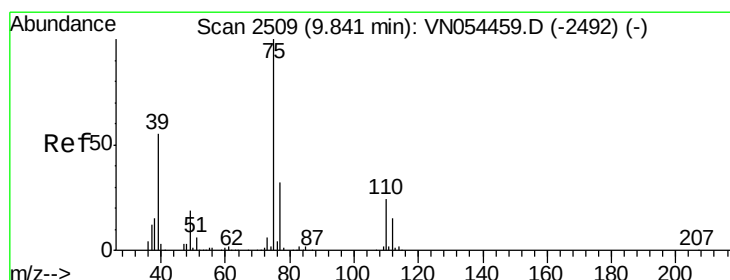
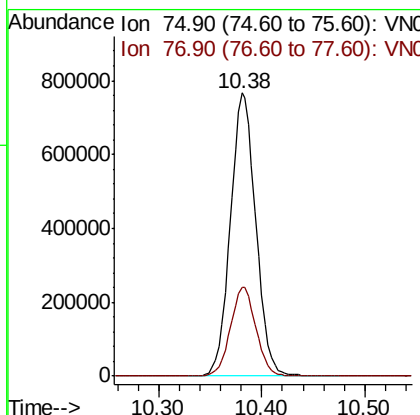
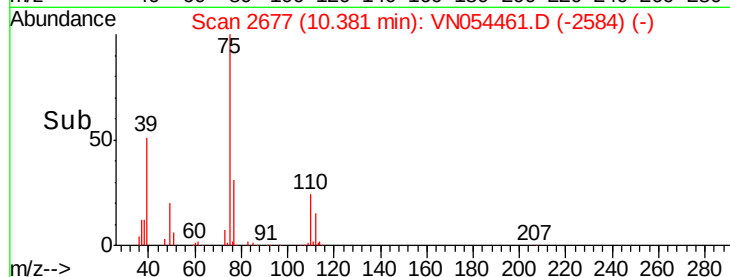
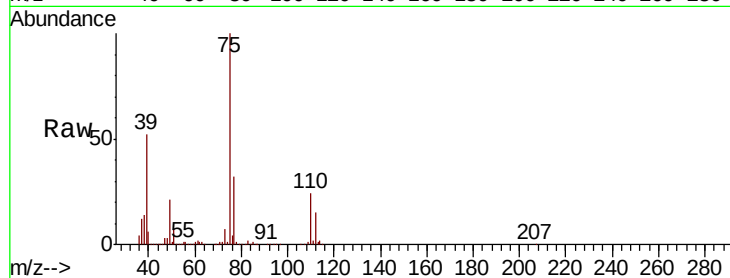
#53
t-1,3-Dichloropropene
Concen: 161.650 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 75 Resp: 1316845
Ion Ratio Lower Upper
75 100
77 31.5 25.8 38.8

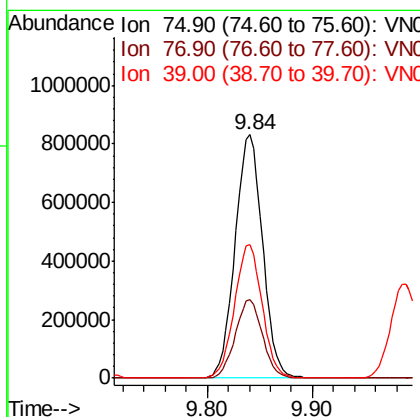
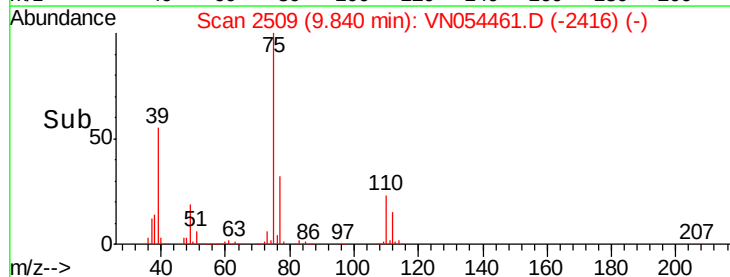
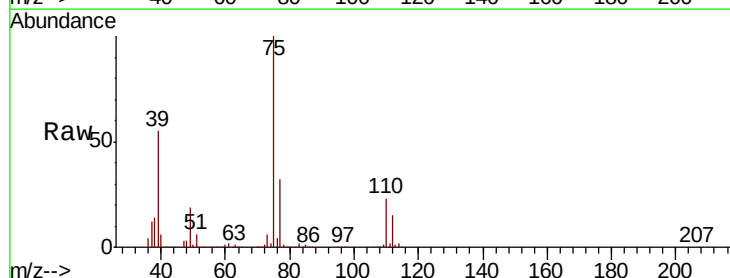
Manual Integrations
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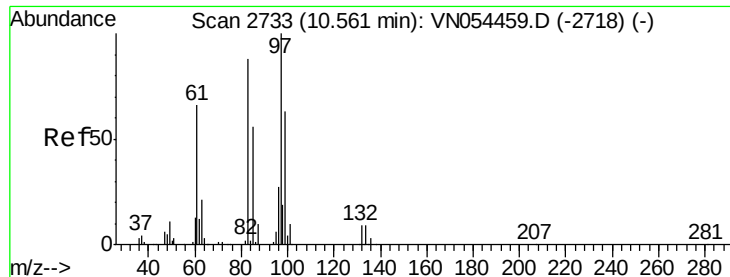
MMDadoda
3/22/2019 3:16:56 PM



#54
cis-1,3-Dichloropropene
Concen: 161.249 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Tgt Ion: 75 Resp: 1503961
Ion Ratio Lower Upper
75 100
77 32.2 25.4 38.0
39 54.9 37.2 55.8





#55

1,1,2-Trichloroethane

Concen: 144.773 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

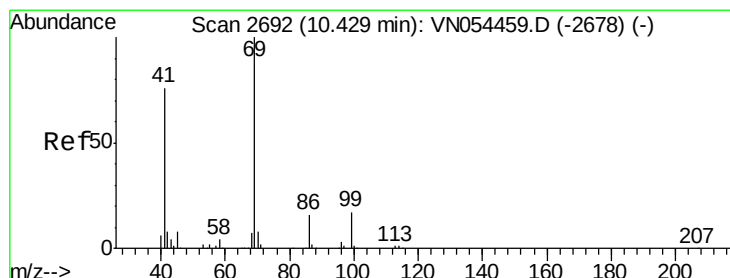
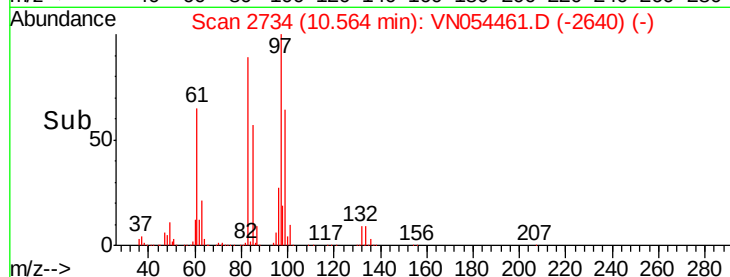
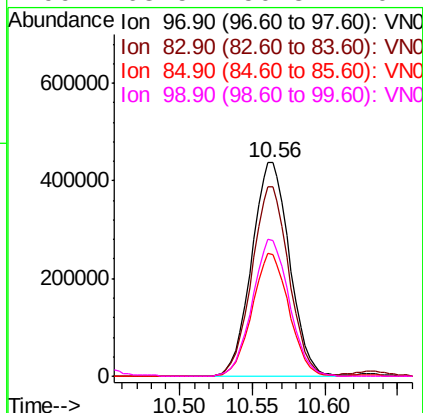
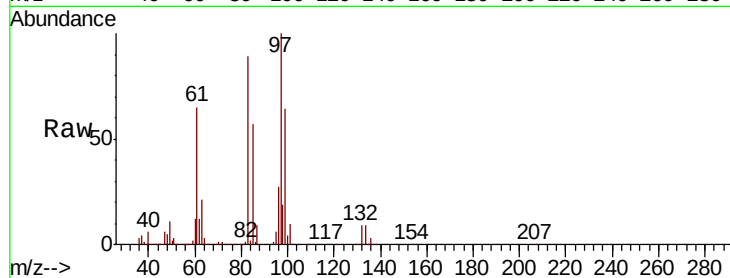
ClientSampleId :

VSTDIC150

Tot Ion:	97	Resp:	797621
Ion	Ratio	Lower	Upper
97	100		
83	88.5	66.6	100.0
85	56.9	44.4	66.6
99	63.5	50.8	76.2

Manual Integrations
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3/22/2019 3:16:56 PM



#56

Ethyl methacrylate

Concen: 180.907 ug/l

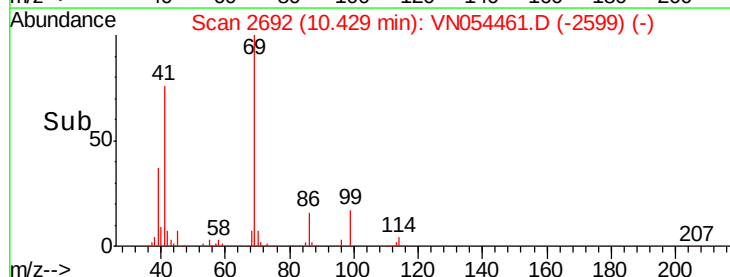
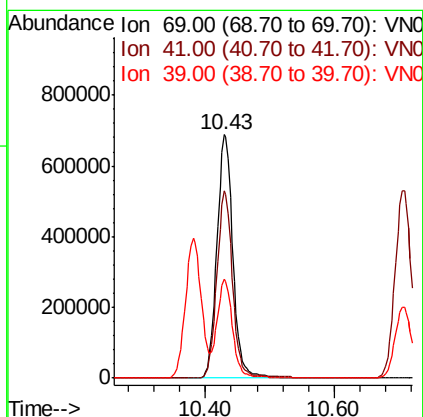
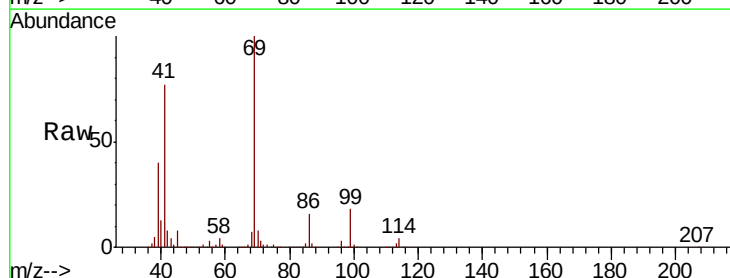
RT: 10.43 min Scan# 2692

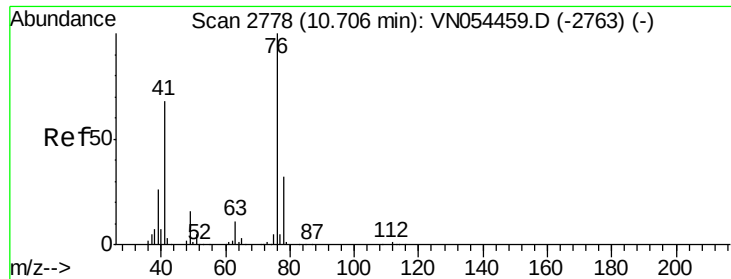
Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Tgt Ion:	69	Resp:	1188440
Ion	Ratio	Lower	Upper
69	100		
41	74.9	49.4	74.2#
39	39.4	28.3	42.5





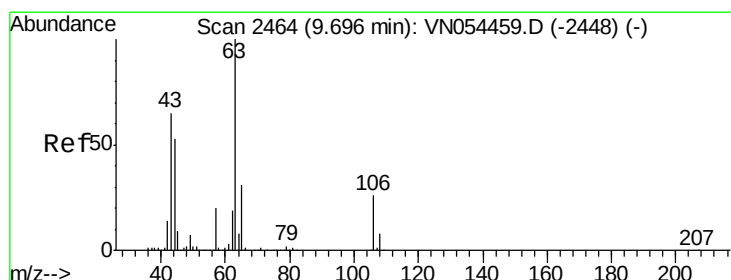
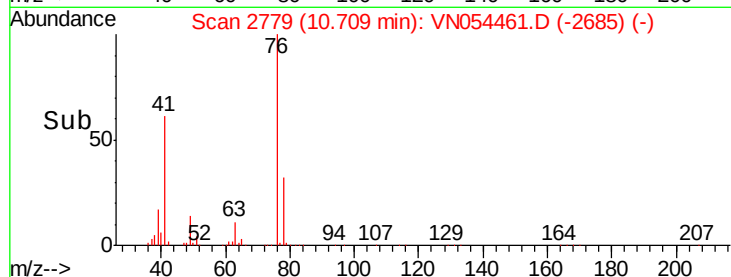
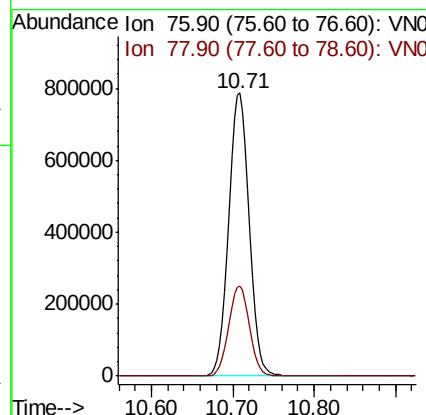
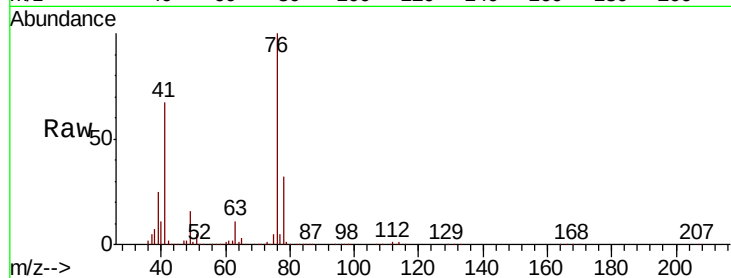
#57
 1,3-Dichloropropane
 Concen: 156.322 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion: 76 Resp: 1408263
 Ion Ratio Lower Upper
 76 100
 78 32.2 25.7 38.5

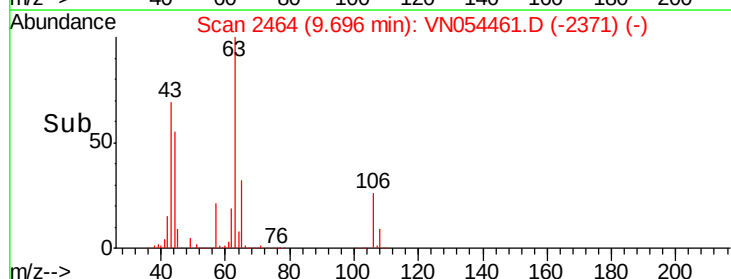
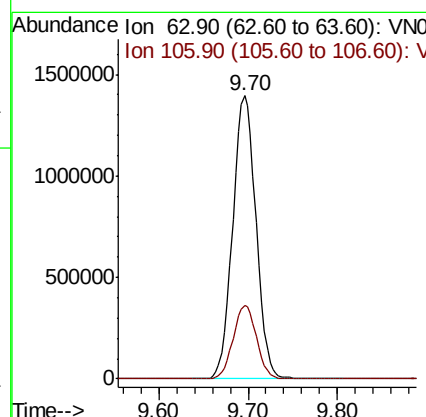
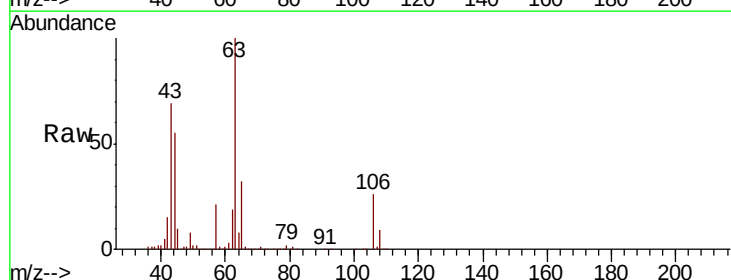
Manual Integrations
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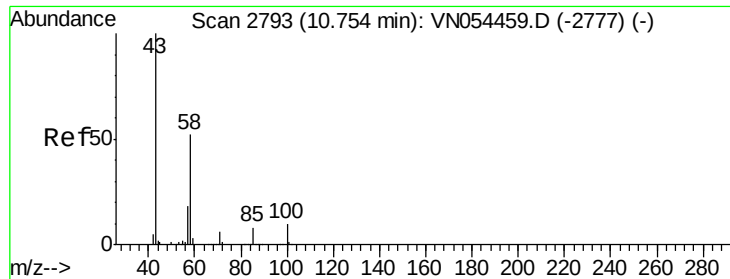
MMDadoda
 3/22/2019 3:16:56 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 1013.661 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. -0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Tgt Ion: 63 Resp: 2522507
 Ion Ratio Lower Upper
 63 100
 106 26.0 24.4 36.6





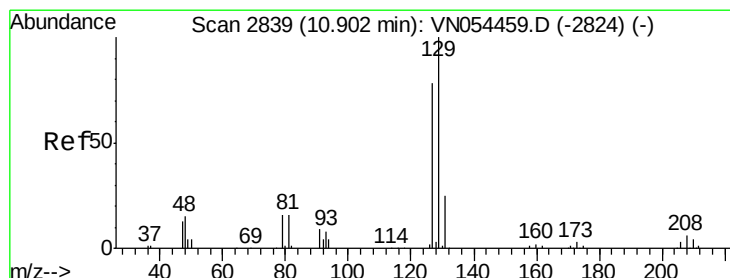
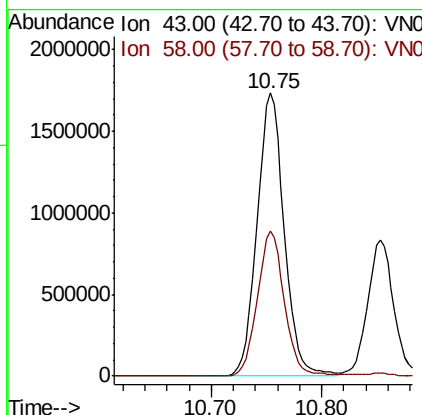
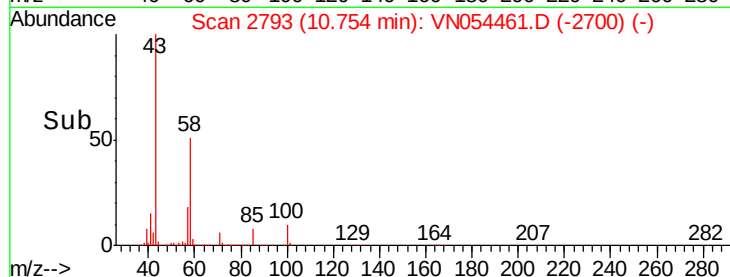
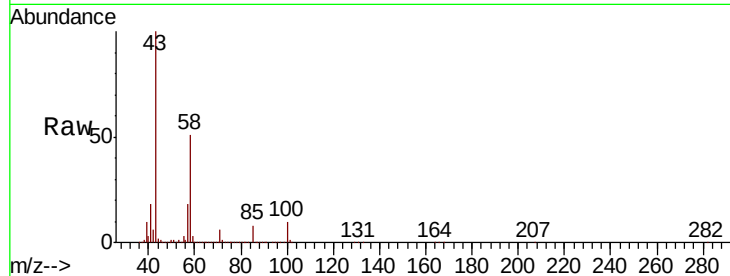
#59
2-Hexanone
Concen: 1000.216 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 43 Resp: 2954004
Ion Ratio Lower Upper
43 100
58 51.2 28.0 83.9

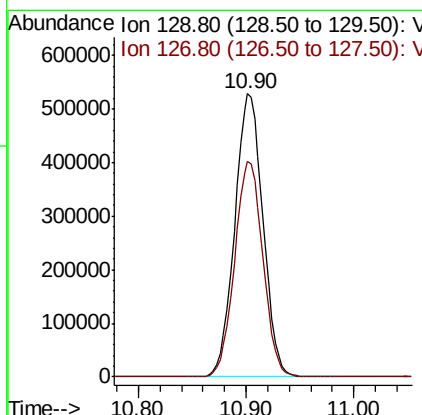
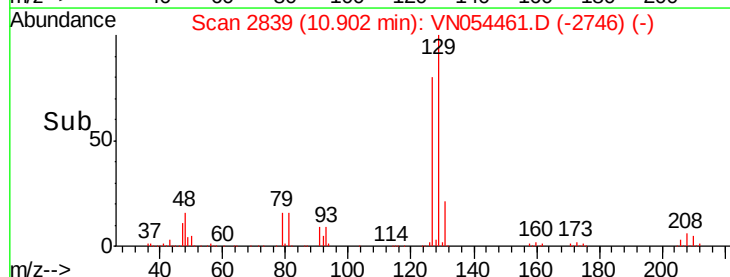
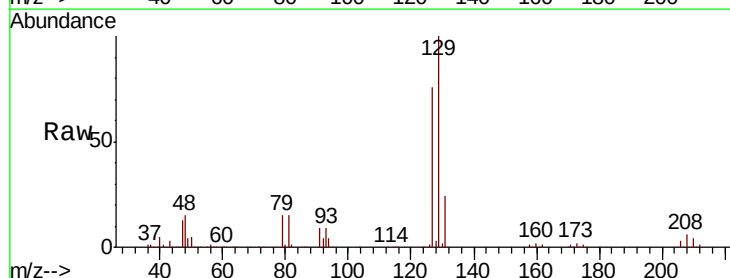
Manual Integrations
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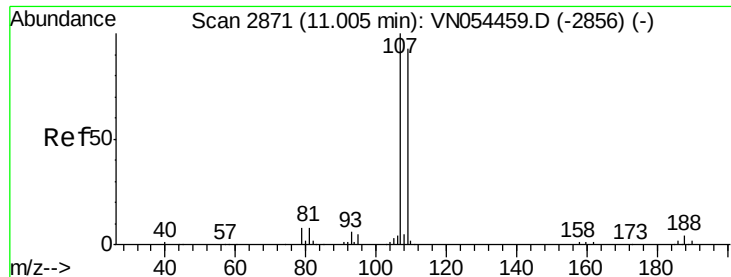
MMDadoda
3/22/2019 3:16:56 PM



#60
Dibromochloromethane
Concen: 155.169 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Tgt Ion: 129 Resp: 962246
Ion Ratio Lower Upper
129 100
127 76.2 38.6 115.8





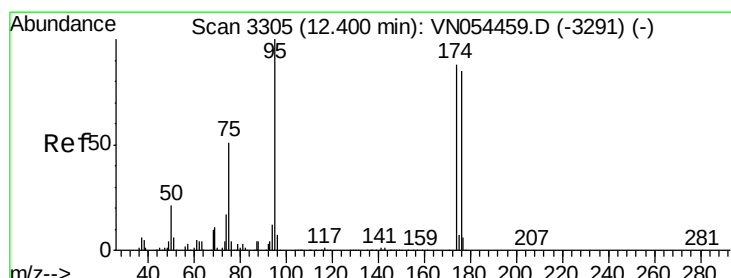
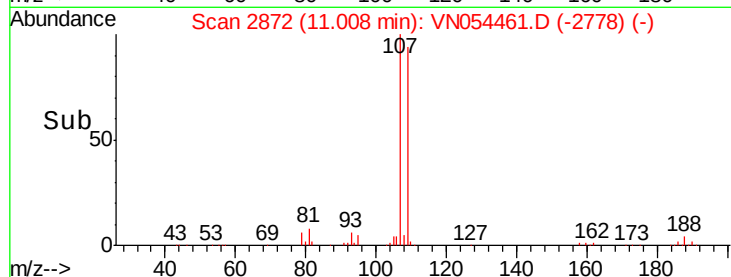
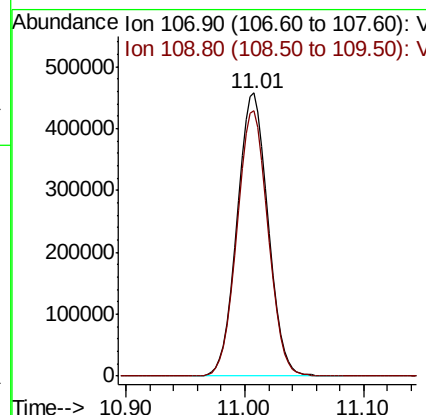
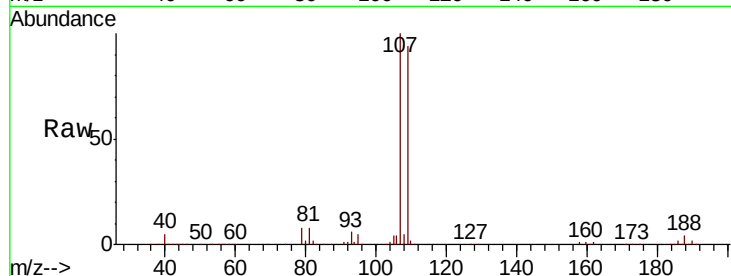
#61
 1,2-Dibromoethane
 Concen: 147.099 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.9	113.9

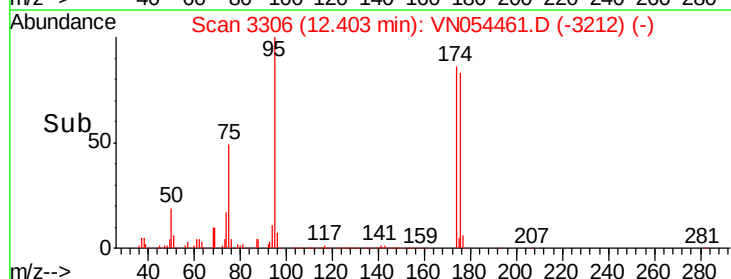
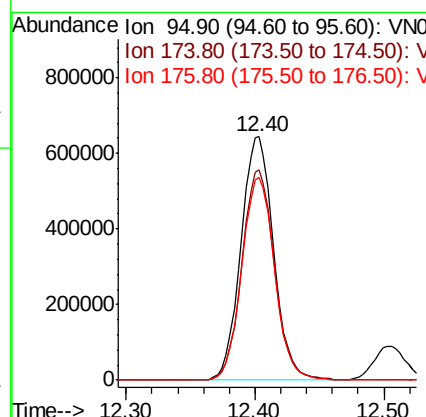
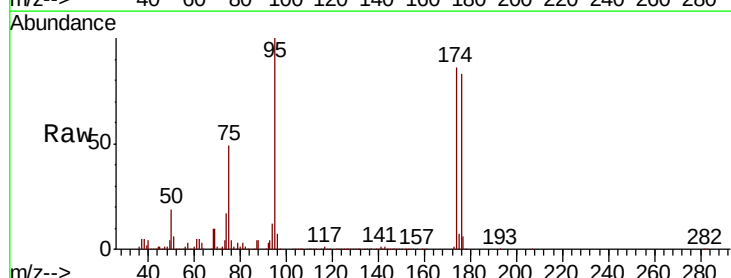
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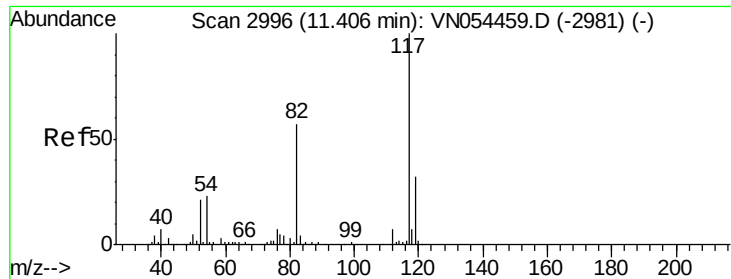
MMDadoda
 3/22/2019 3:16:56 PM



#62
 4-Bromofluorobenzene
 Concen: 150.848 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
95	100		
174	85.8	0.0	191.0
176	83.6	0.0	187.4





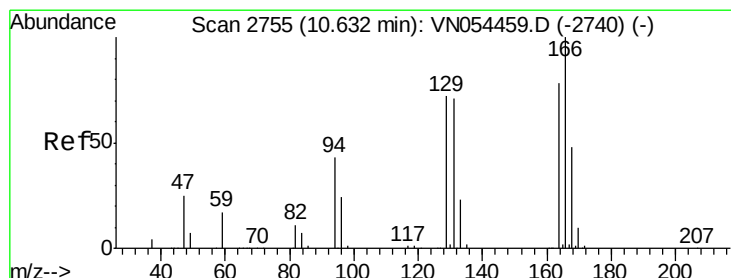
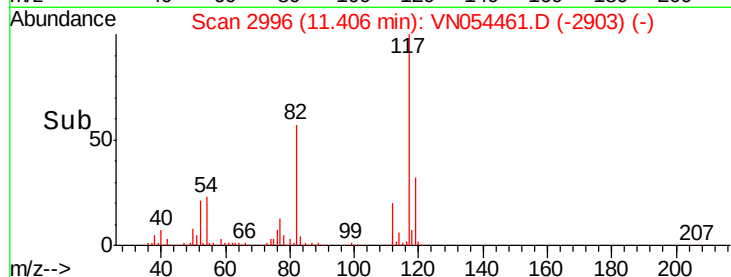
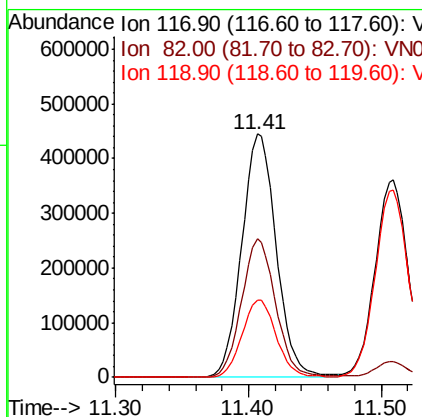
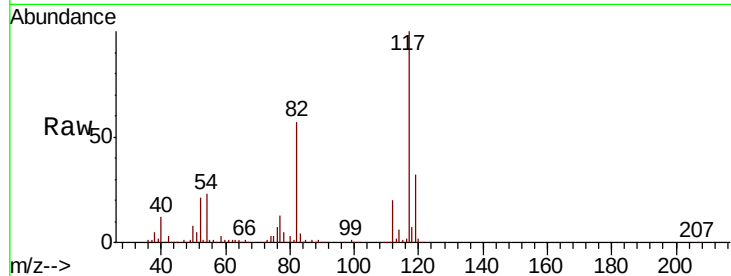
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.7	40.0	60.0
119	31.9	25.8	38.6

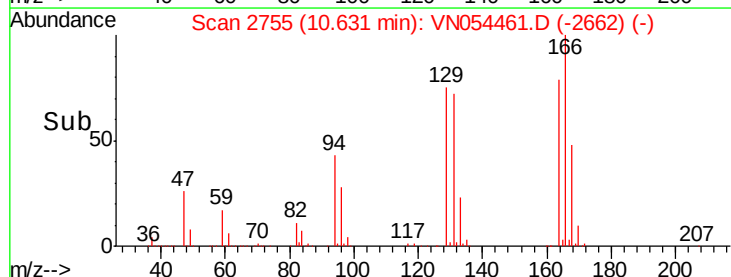
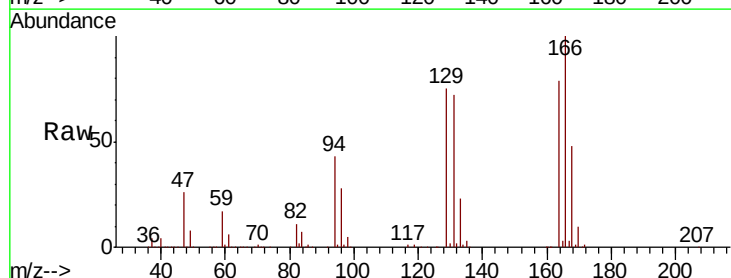
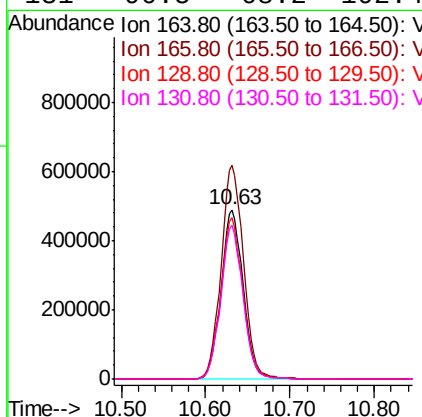
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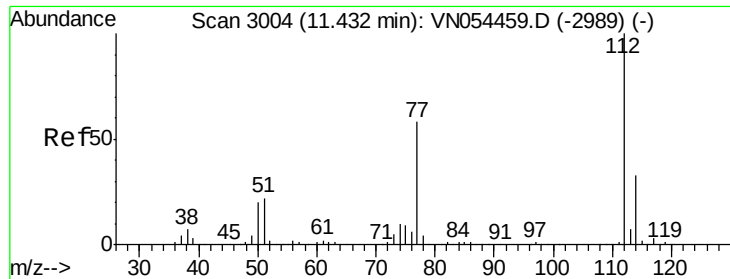
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#64
Tetrachloroethene
Concen: 114.961 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.9	103.9	155.9
129	94.7	71.1	106.7
131	90.5	68.2	102.4





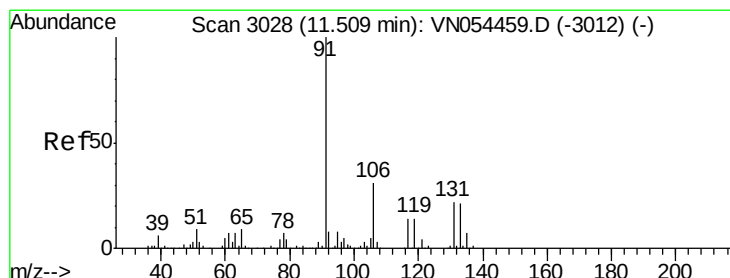
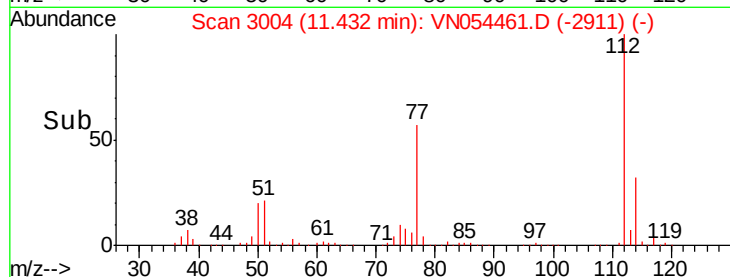
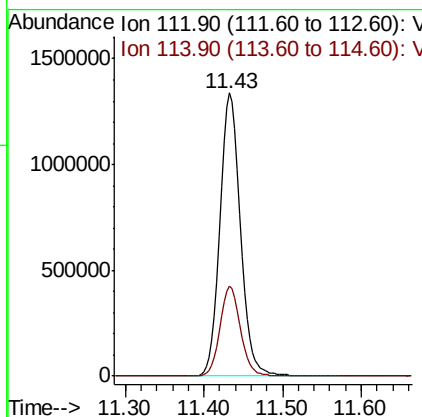
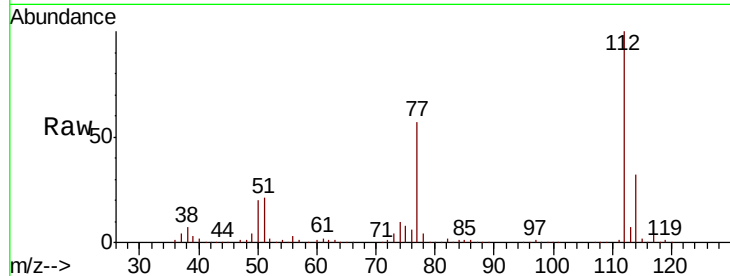
#65
Chlorobenzene
Concen: 135.895 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:112 Resp: 2399010
Ion Ratio Lower Upper
112 100
114 31.8 25.9 38.9

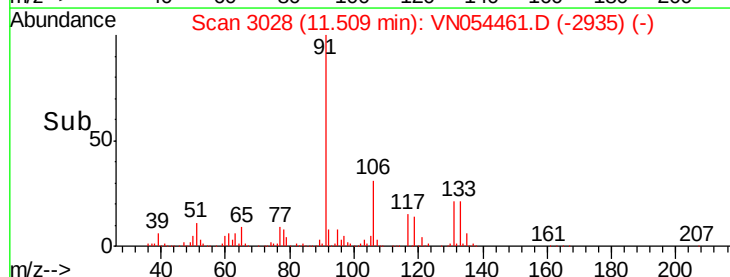
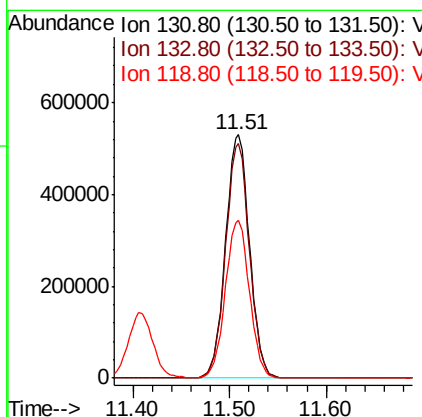
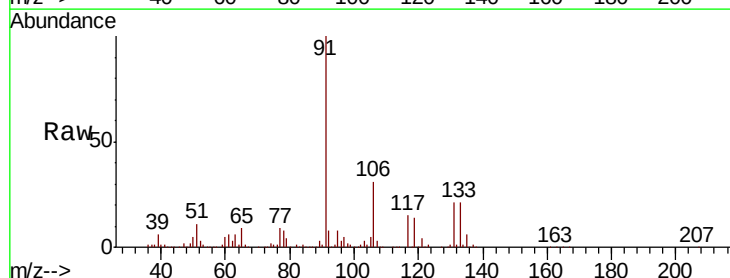
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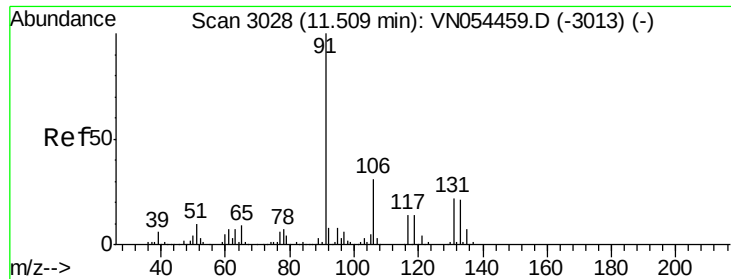
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 141.935 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Tgt Ion:131 Resp: 910227
Ion Ratio Lower Upper
131 100
133 96.0 47.6 142.9
119 65.2 32.4 97.0





#67

Ethyl Benzene

Concen: 145.828 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 4267437

Ion Ratio Lower Upper

91 100

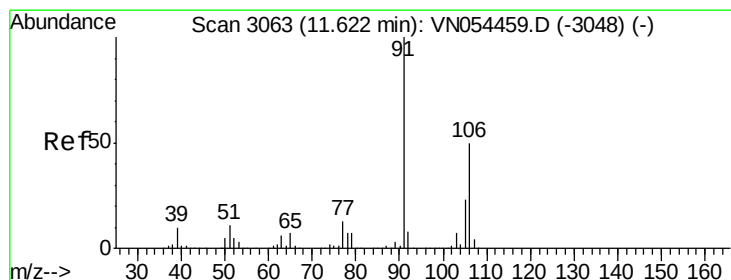
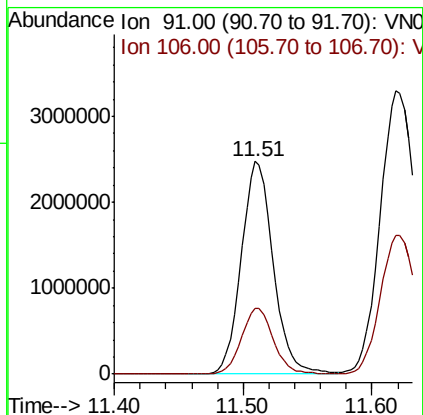
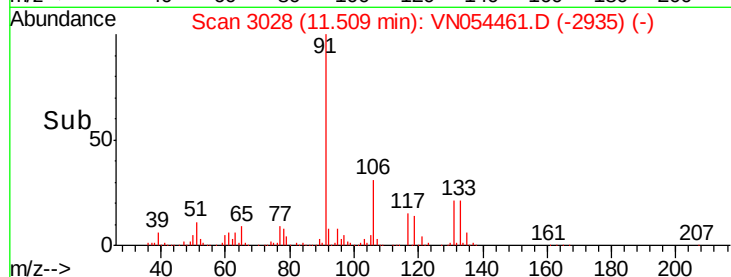
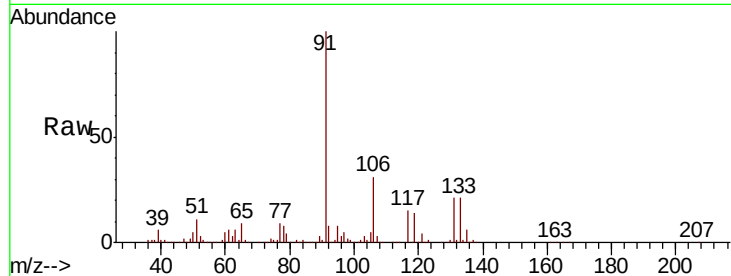
106 31.3 25.5 38.3

Manual Integrations

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#68

m/p-Xylenes

Concen: 282.401 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN054461.D

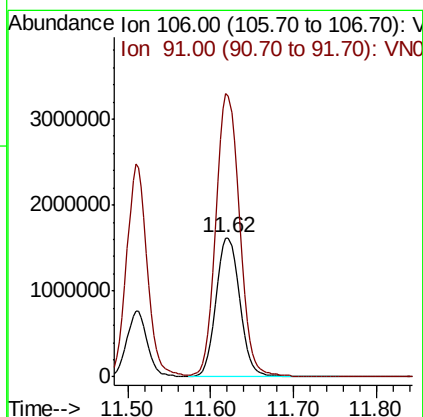
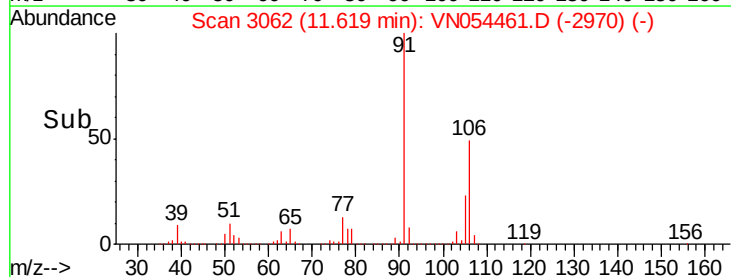
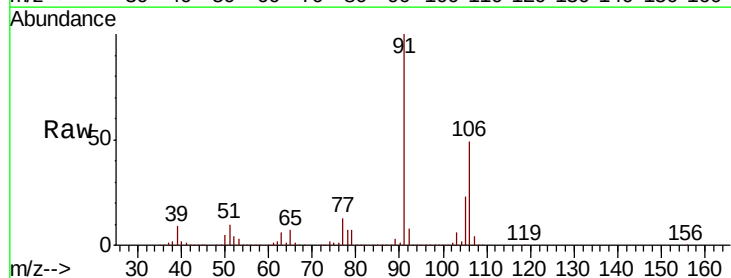
Acq: 20 Mar 2019 12:36

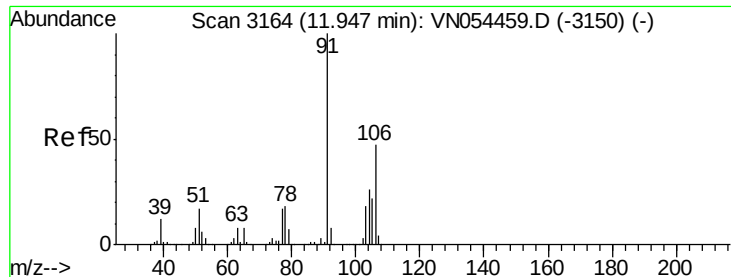
Tgt Ion: 106 Resp: 3229960

Ion Ratio Lower Upper

106 100

91 203.1 159.4 239.2





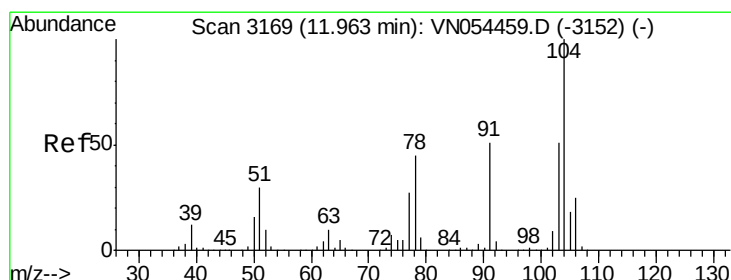
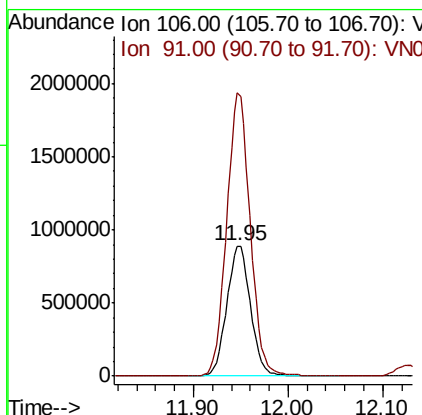
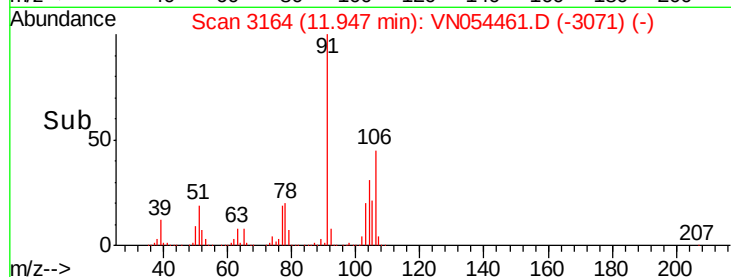
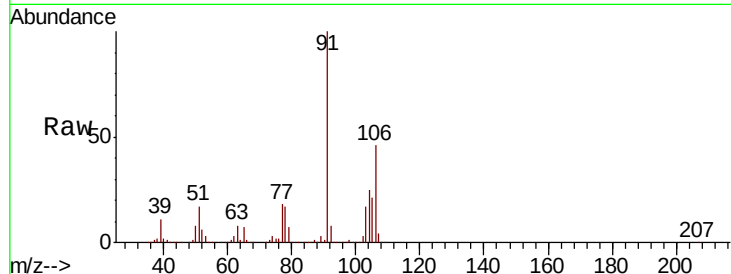
#69
o-Xylene
Concen: 139.245 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:106 Resp: 1552530
Ion Ratio Lower Upper
106 100
91 215.3 105.7 317.1

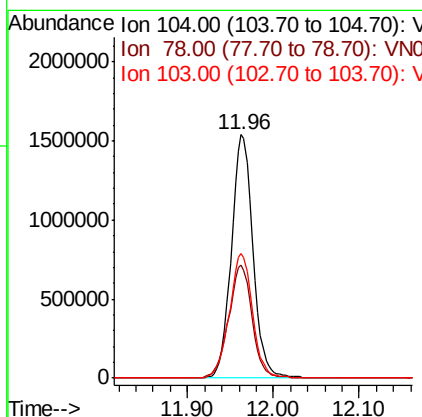
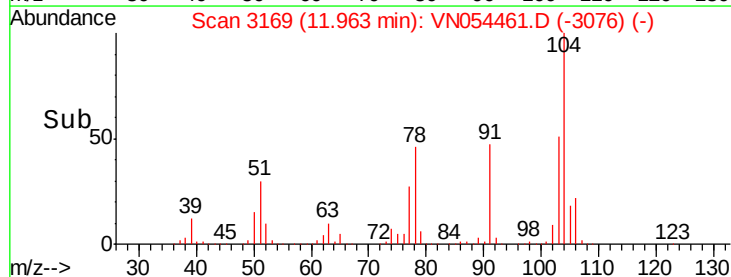
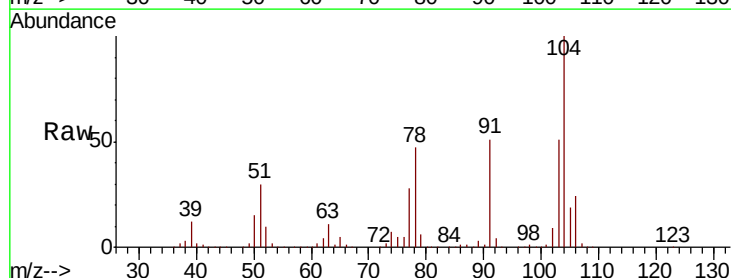
Manual Integrations
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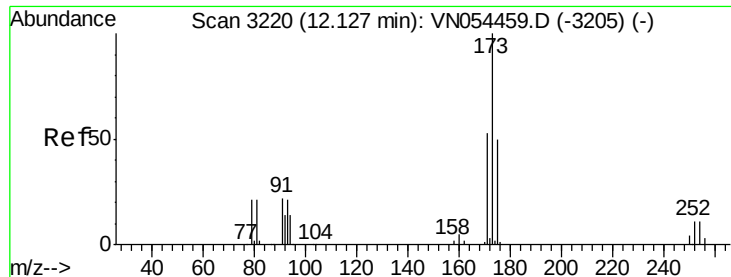
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#70
Styrene
Concen: 153.296 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054461.D
Acq: 20 Mar 2019 12:36

Tgt Ion:104 Resp: 2680586
Ion Ratio Lower Upper
104 100
78 50.5 38.2 57.2
103 55.1 44.4 66.6





#71

Bromoform

Concen: 148.187 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:173 Resp: 629020

Ion Ratio Lower Upper

173 100

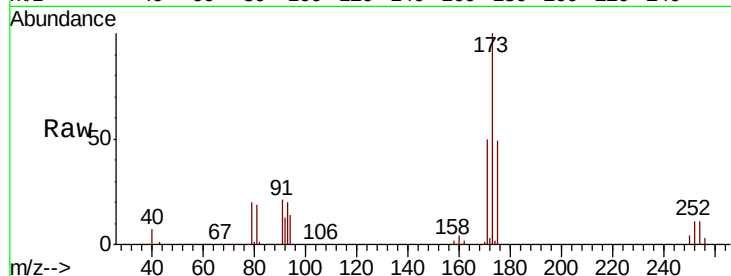
175 48.7 24.4 73.2

254 0.2 0.1 0.1#

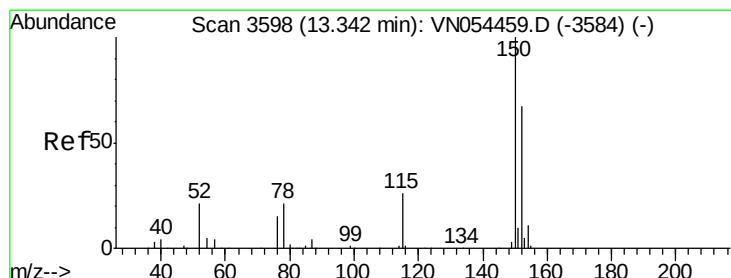
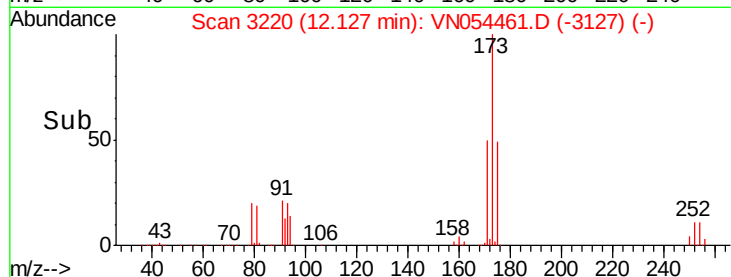
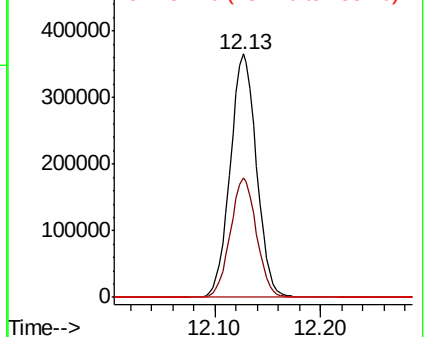
Manual Integrations
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

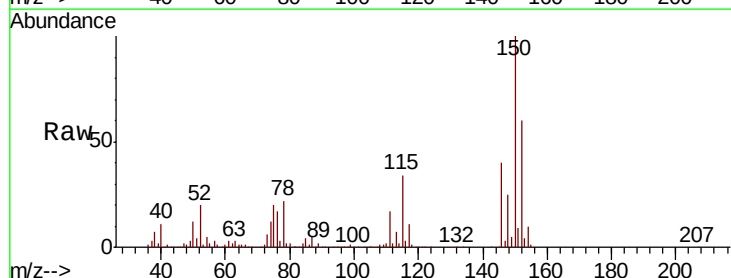
Tgt Ion:152 Resp: 383295

Ion Ratio Lower Upper

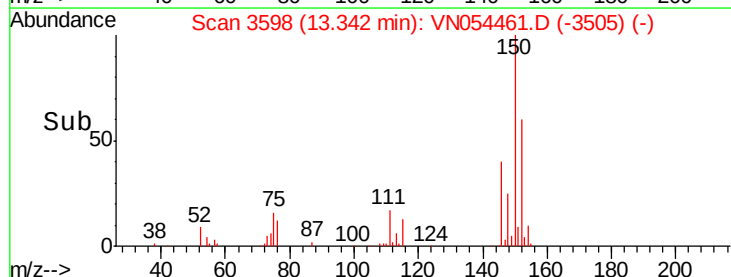
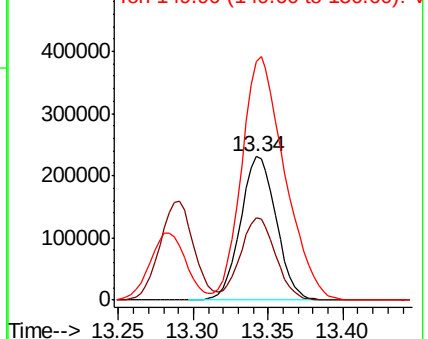
152 100

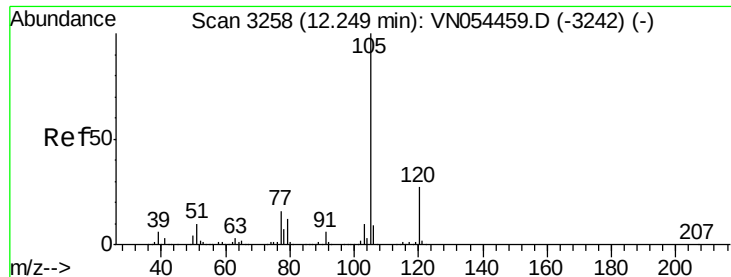
115 56.5 27.2 81.6

150 204.5 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: 133.608 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion:105 Resp: 4097206

Ion Ratio Lower Upper

105 100

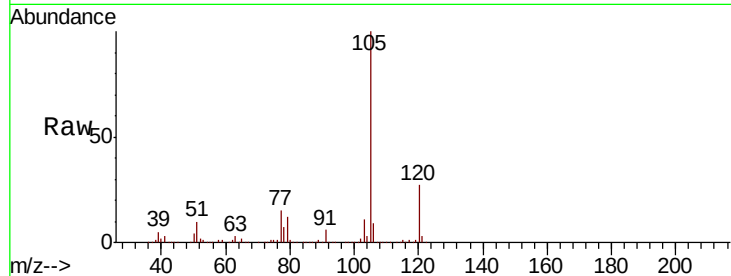
120 26.8 13.8 41.3

Manual Integrations

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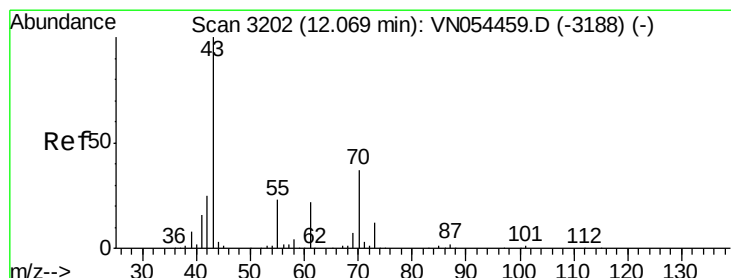
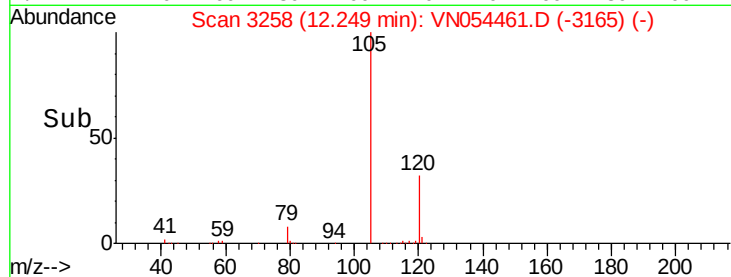
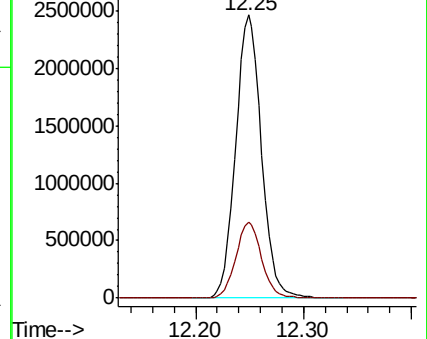
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 204.590 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Tgt Ion: 43 Resp: 1392612

Ion Ratio Lower Upper

43 100

70 38.1 35.4 53.0

55 22.5 19.8 29.6

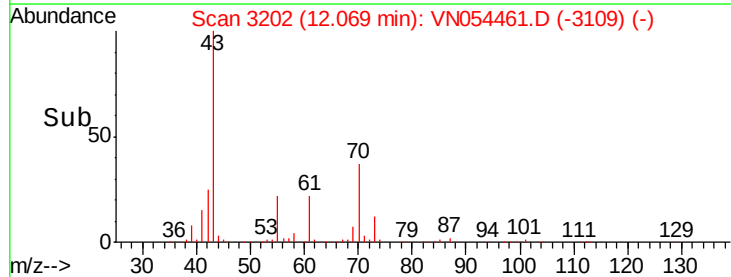
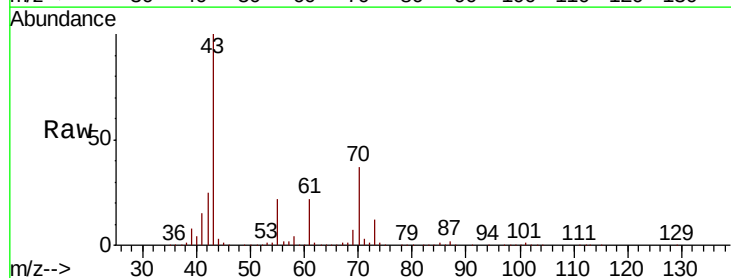
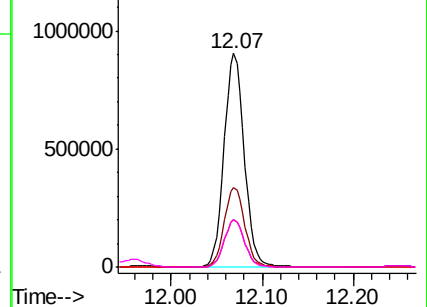
61 22.2 19.8 29.6

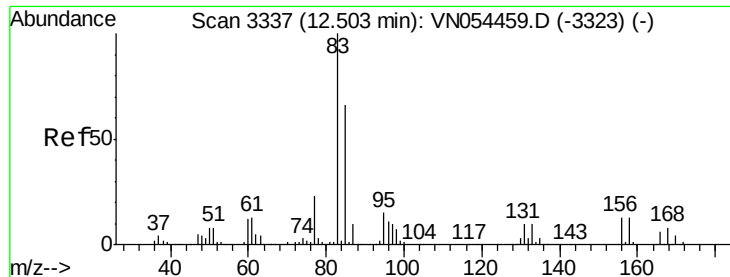
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 150.840 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

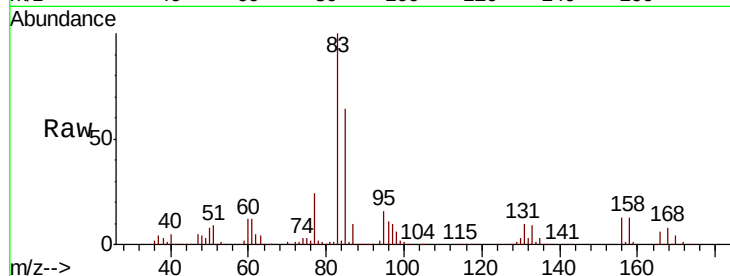
ClientSampled :

VSTDIC150

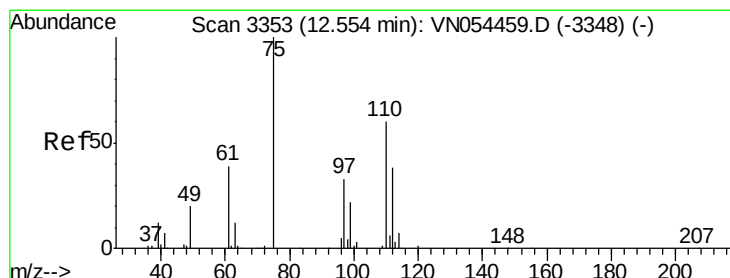
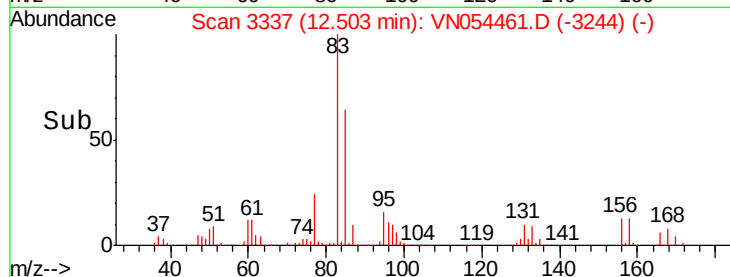
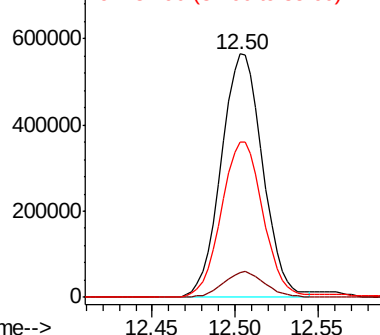
Tot Ion:	83	Resp:	985522
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.8	17.4
85	64.4	32.2	96.6

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN054461.D (-3244) (-)



#76

1,2,3-Trichloropropane

Concen: 151.009 ug/l m

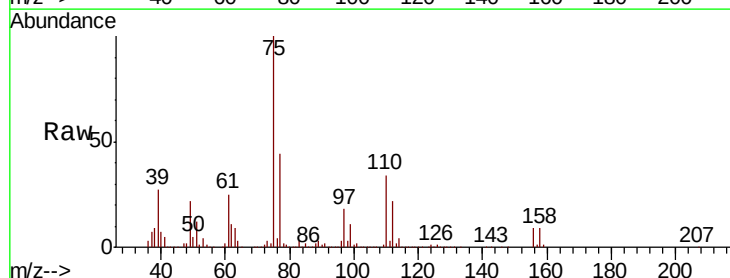
RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

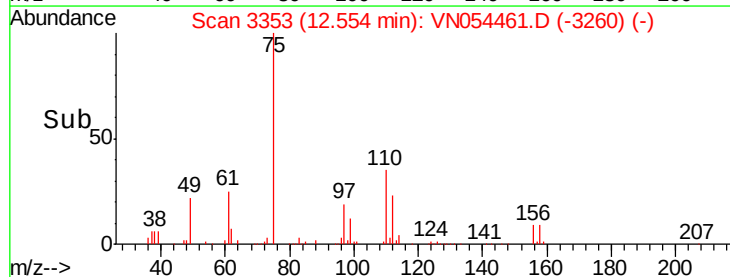
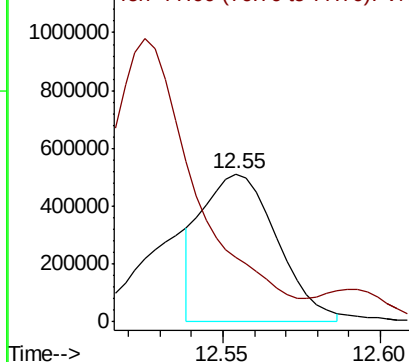
Lab File: VN054461.D

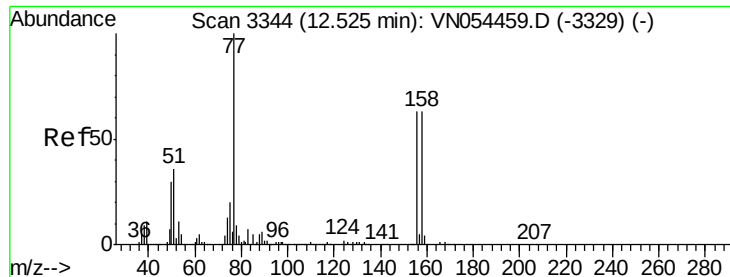
Acq: 20 Mar 2019 12:36

Tgt Ion:	75	Resp:	851165
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN054461.D (-3260) (-)





#77

Bromobenzene

Concen: 129.107 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:156 Resp: 1047664

Ion Ratio Lower Upper

156 100

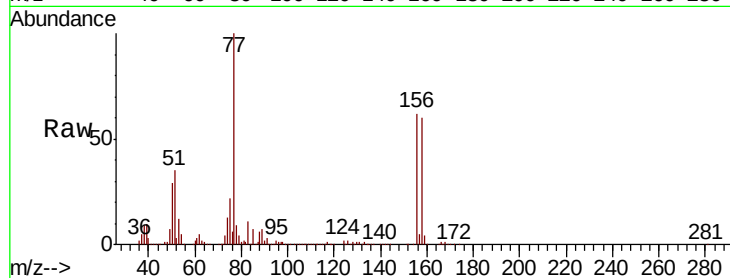
77 188.8 81.5 244.4

158 97.7 49.0 147.2

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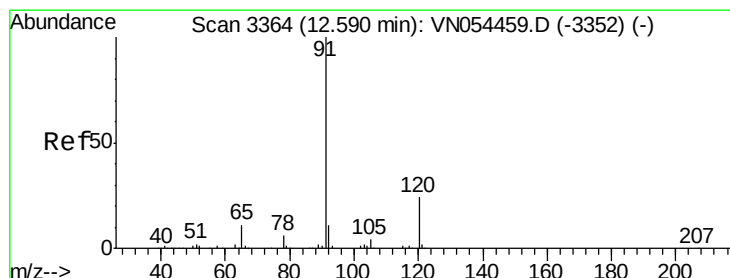
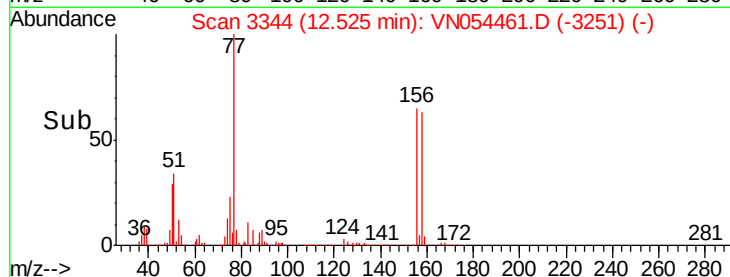
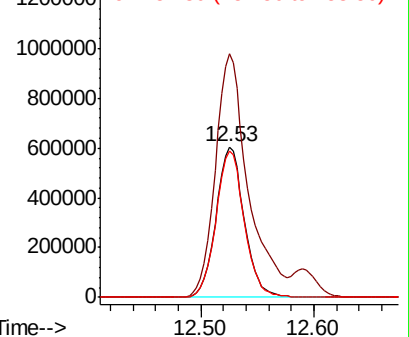
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 137.528 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN054461.D

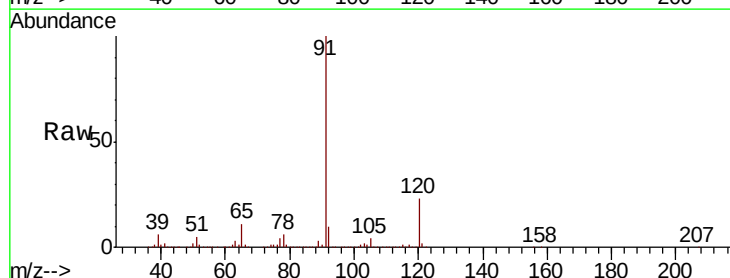
Acq: 20 Mar 2019 12:36

Tgt Ion: 91 Resp: 4576204

Ion Ratio Lower Upper

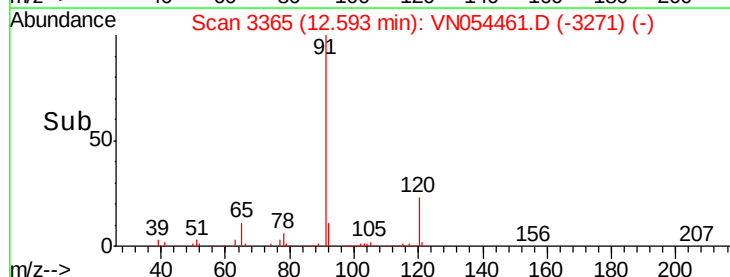
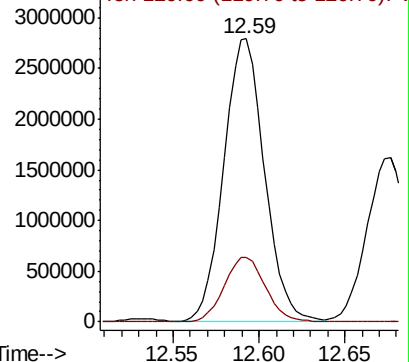
91 100

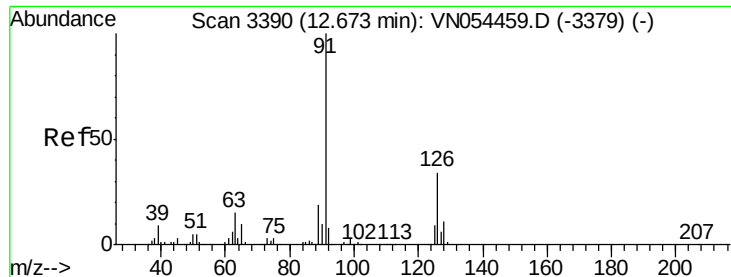
120 23.3 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 137.437 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 2749712

Ion Ratio Lower Upper

91 100

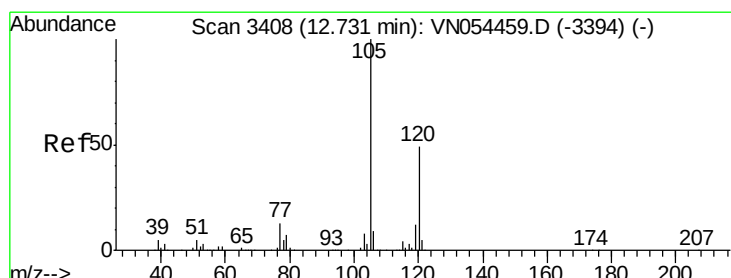
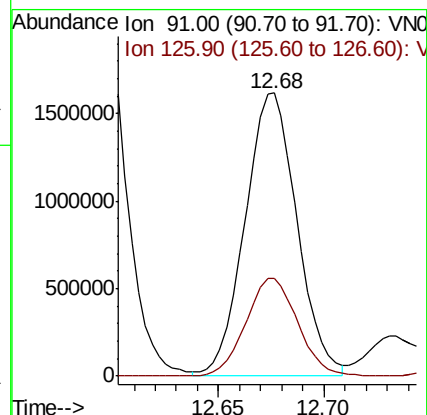
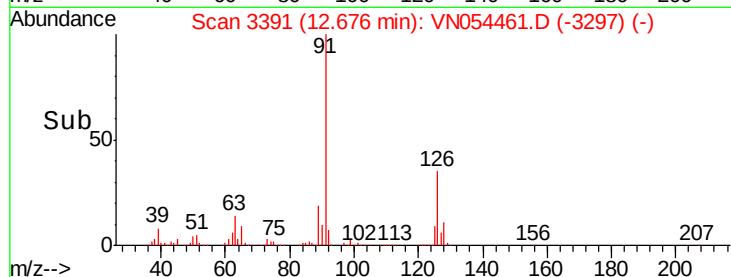
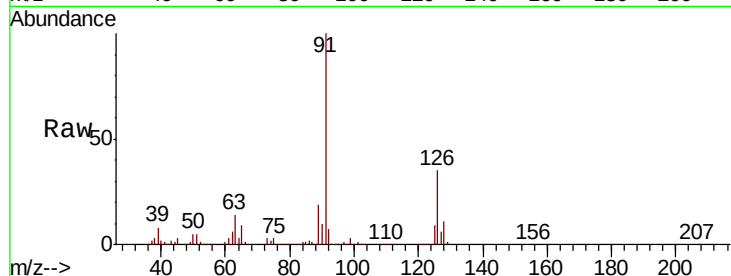
126 34.8 18.7 56.1

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 135.121 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054461.D

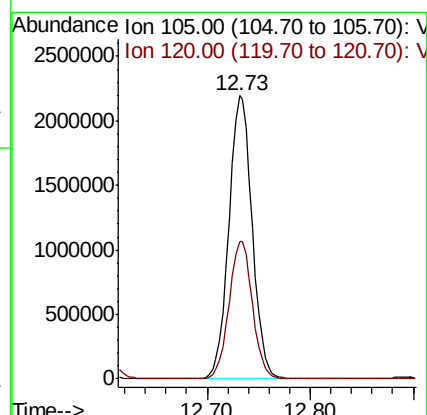
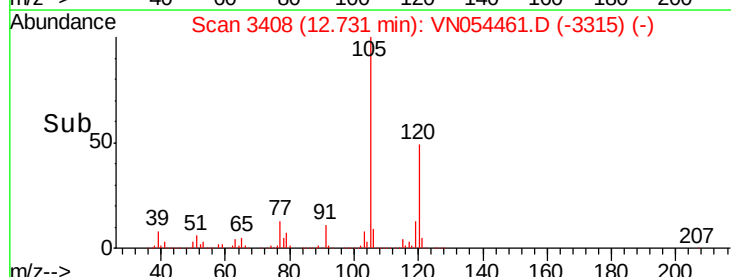
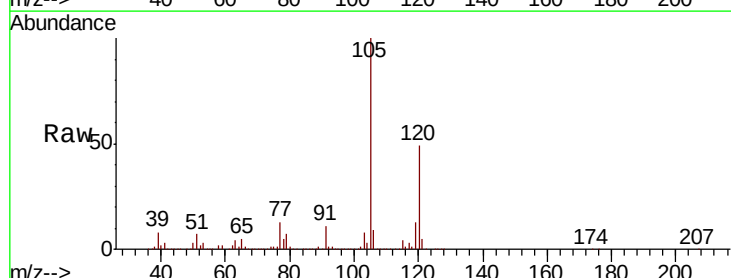
Acq: 20 Mar 2019 12:36

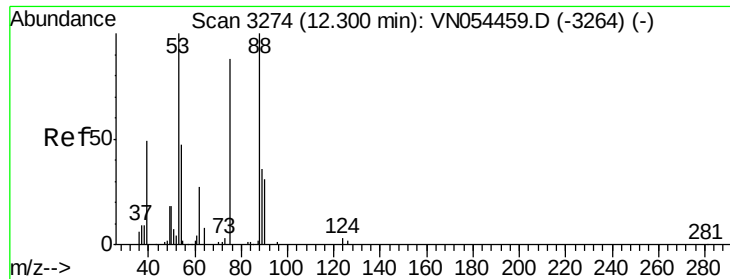
Tgt Ion:105 Resp: 3446635

Ion Ratio Lower Upper

105 100

120 48.8 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 169.662 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

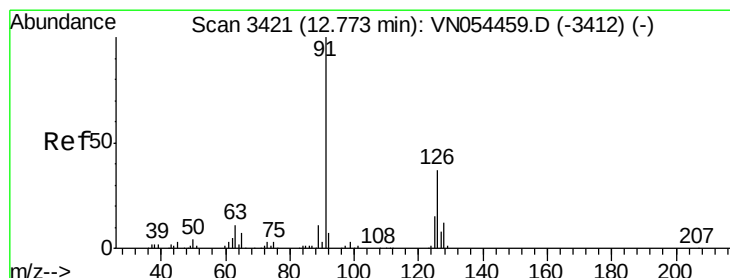
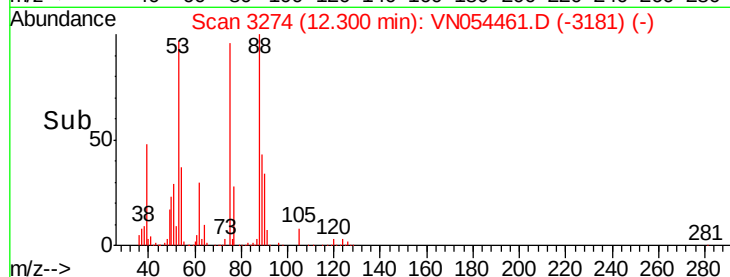
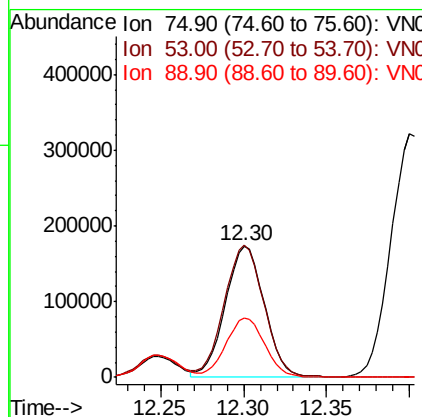
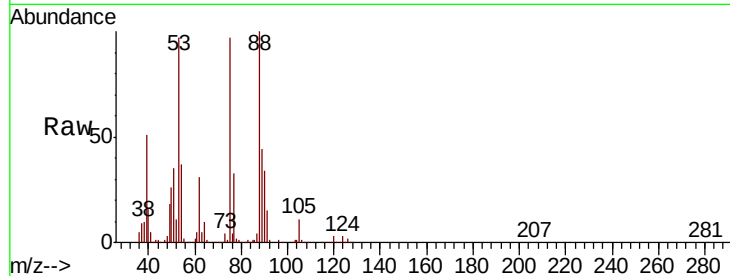
ClientSampleId :

VSTDIC150

Tot Ion:	75	Resp:	279748
Ion	Ratio	Lower	Upper
75	100		
53	104.5	76.2	114.2
89	46.0	39.2	58.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 142.574 ug/l

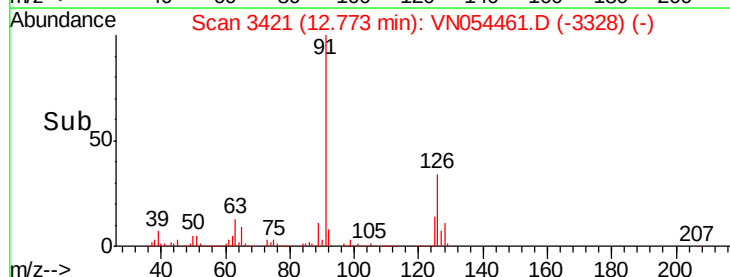
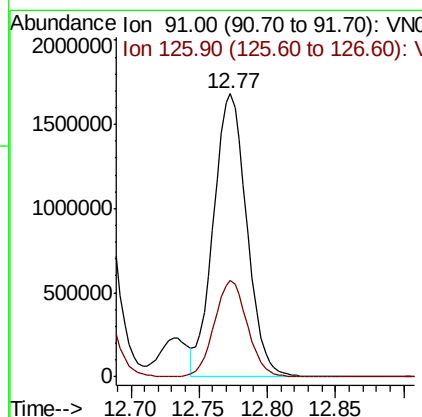
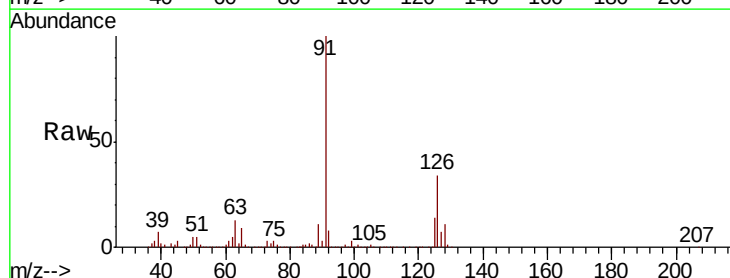
RT: 12.77 min Scan# 3421

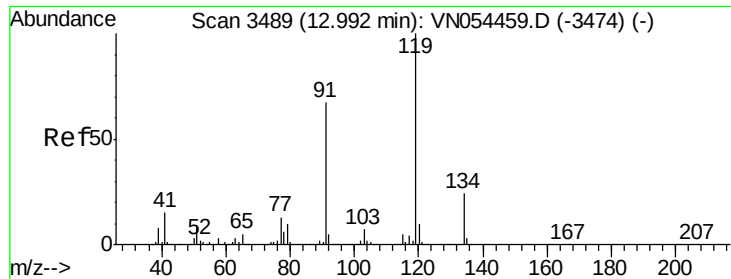
Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Tgt Ion:	91	Resp:	2848291
Ion	Ratio	Lower	Upper
91	100		
126	33.9	18.1	54.1





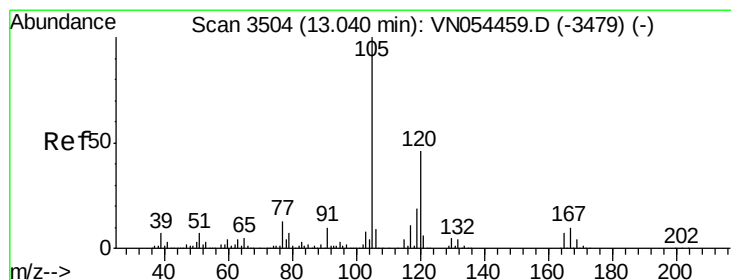
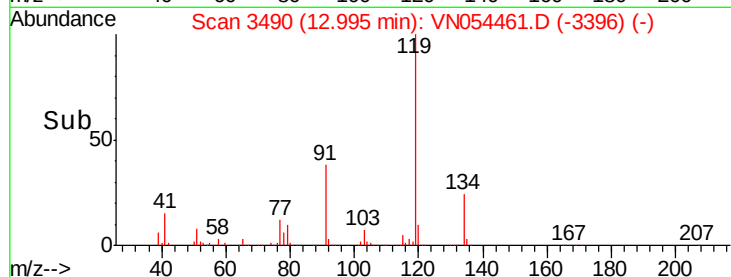
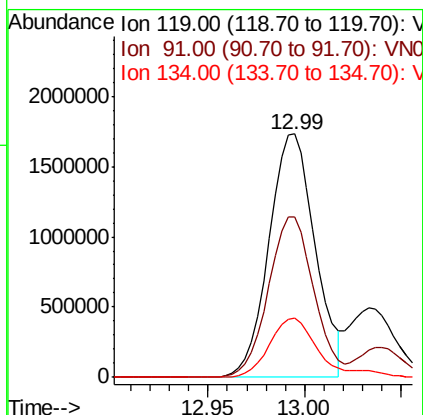
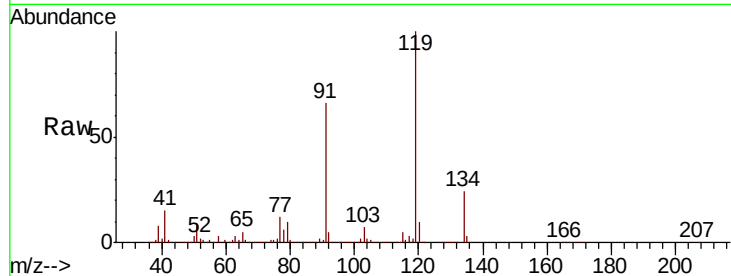
#83
 tert-Butylbenzene
 Concen: 122.535 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion:119 Resp: 2876920
 Ion Ratio Lower Upper
 119 100
 91 65.1 30.9 92.8
 134 26.3 13.2 39.6

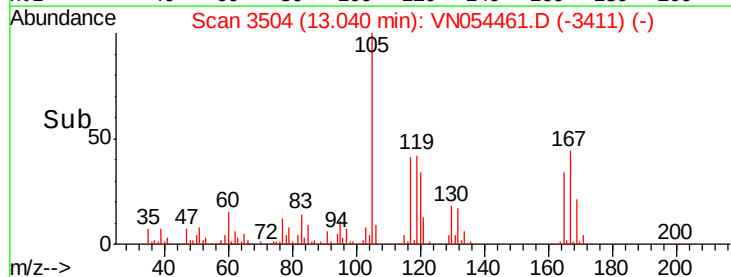
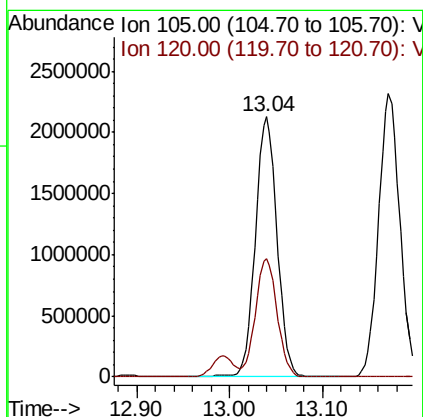
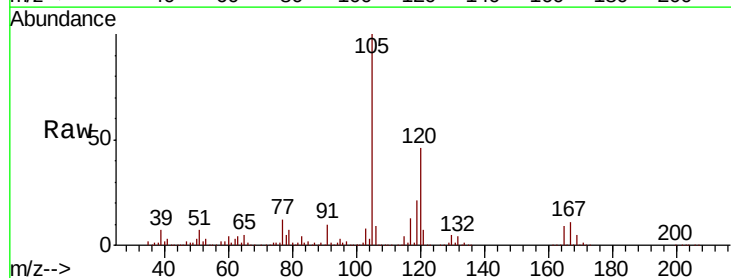
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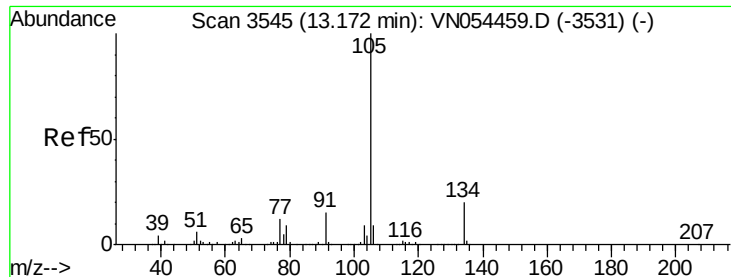
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 137.404 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Tgt Ion:105 Resp: 3438423
 Ion Ratio Lower Upper
 105 100
 120 45.7 23.4 70.3





#85

sec-Butylbenzene

Concen: 121.091 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 3686984

Ion Ratio Lower Upper

105 100

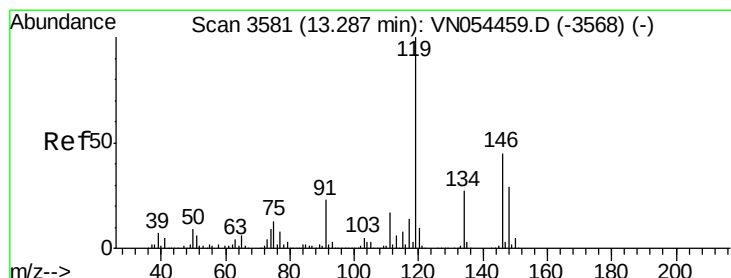
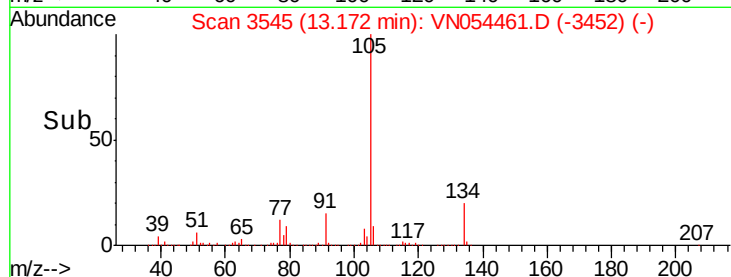
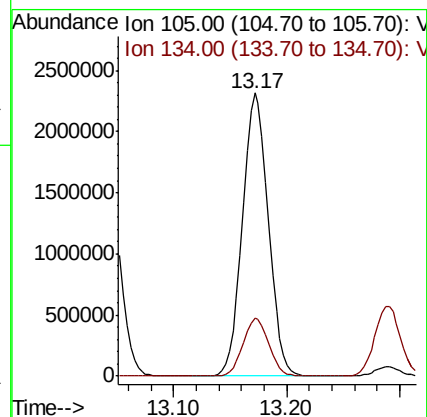
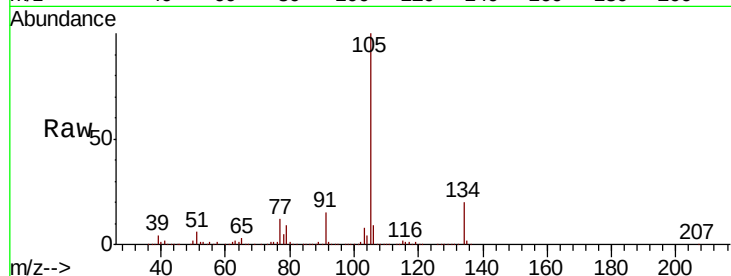
134 20.4 10.7 32.1

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 128.089 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

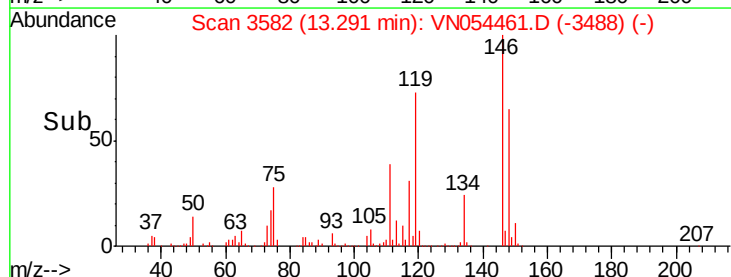
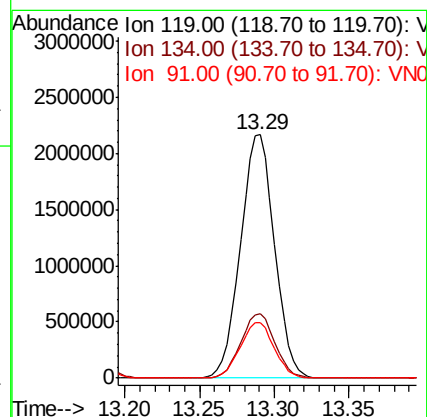
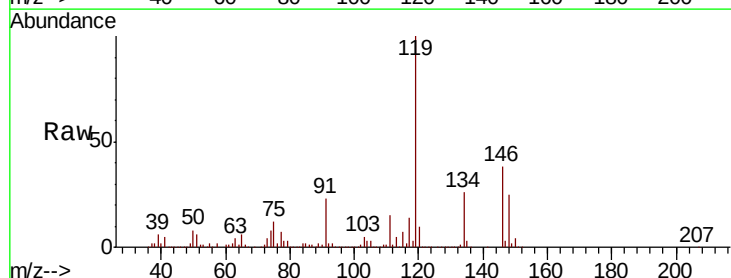
Tgt Ion:119 Resp: 3421547

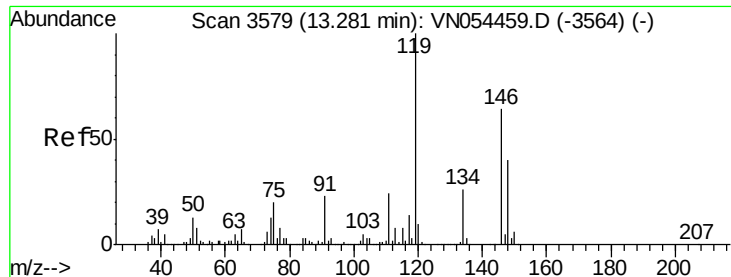
Ion Ratio Lower Upper

119 100

134 26.6 13.6 40.8

91 23.0 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 130.400 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:146 Resp: 1783021

Ion Ratio Lower Upper

146 100

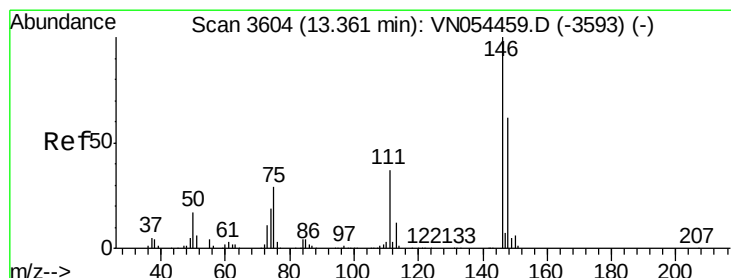
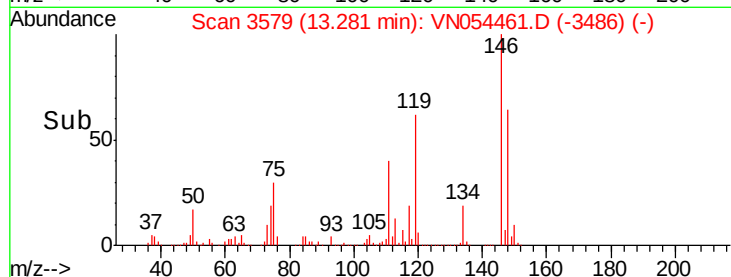
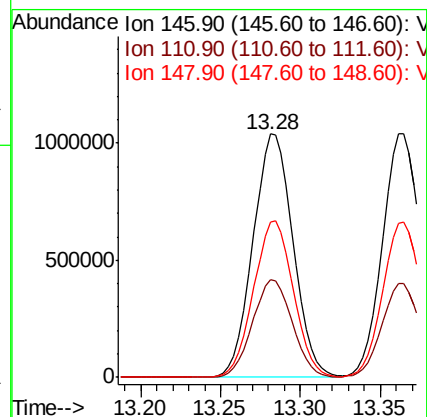
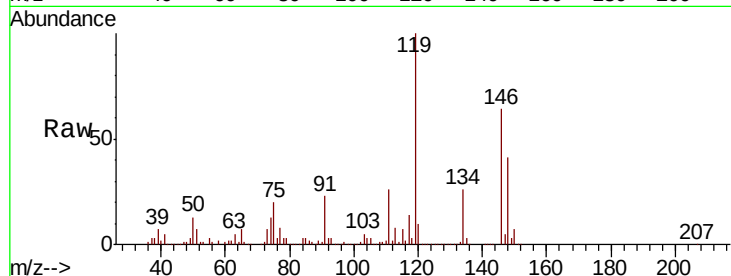
111 39.7 18.8 56.3

148 64.0 32.2 96.6

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 131.033 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

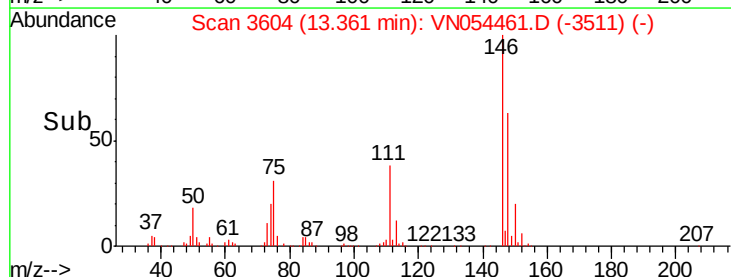
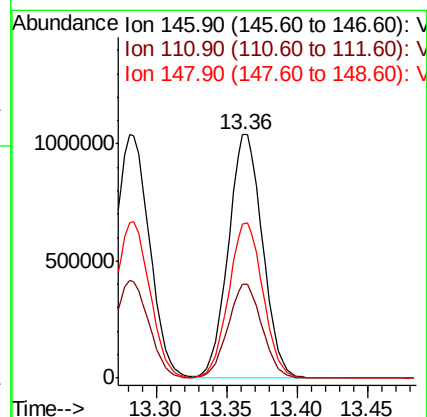
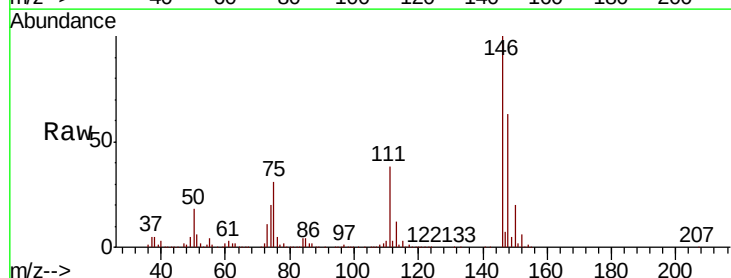
Tgt Ion:146 Resp: 1760082

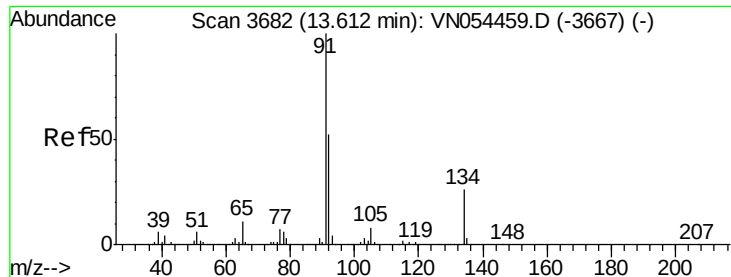
Ion Ratio Lower Upper

146 100

111 38.3 18.1 54.1

148 64.0 32.0 96.0





#89

n-Butylbenzene

Concen: 140.364 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 2848857

Ion Ratio Lower Upper

91 100

92 52.7 26.2 78.6

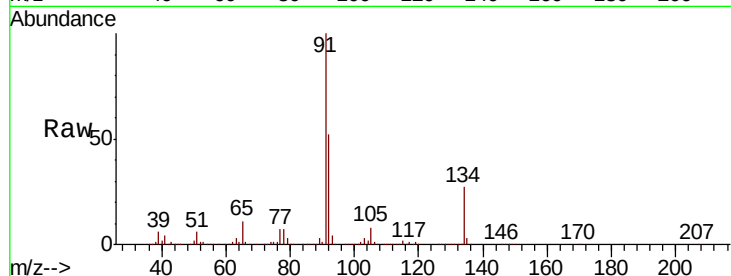
134 26.9 14.3 42.9

Manual Integrations

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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) (-)

2500000

2000000

1500000

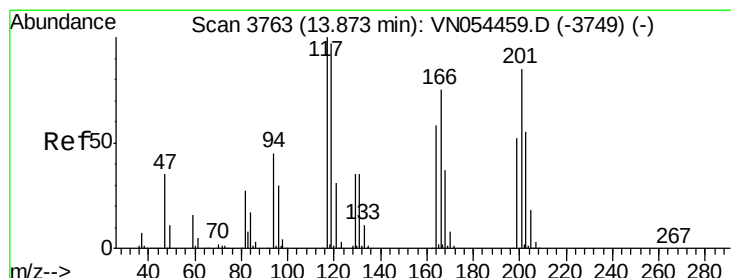
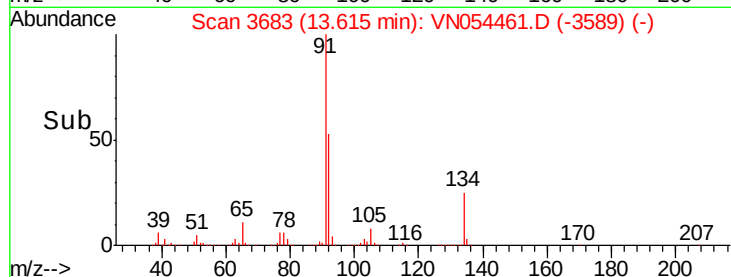
1000000

500000

0

13.60 13.70

Time-->



#90

Hexachloroethane

Concen: 135.718 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN054461.D

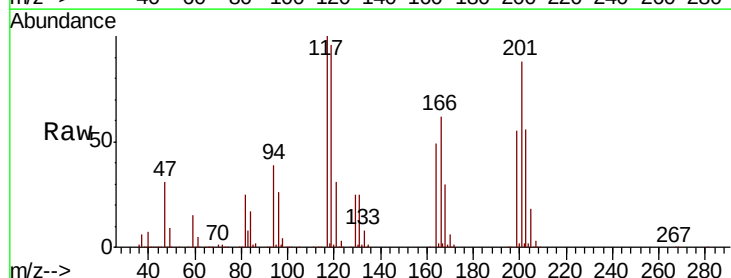
Acq: 20 Mar 2019 12:36

Tgt Ion: 117 Resp: 600294

Ion Ratio Lower Upper

117 100

201 86.9 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) (-)

400000

300000

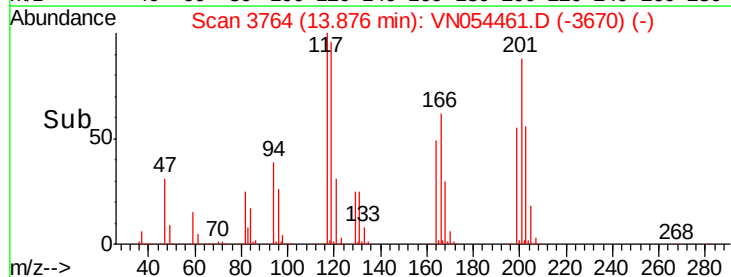
200000

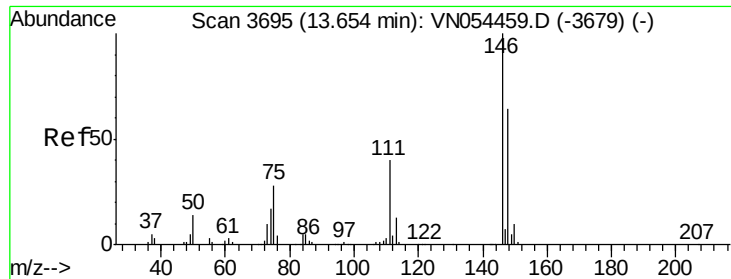
100000

0

13.80 13.85 13.90 13.95

Time-->





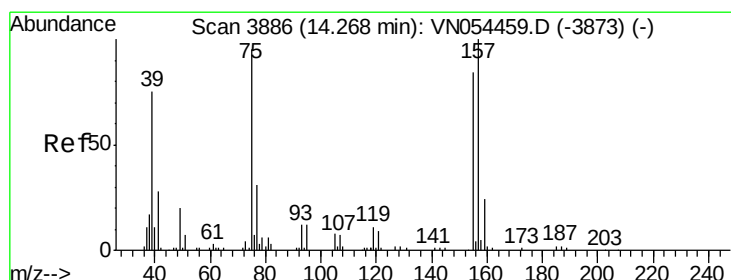
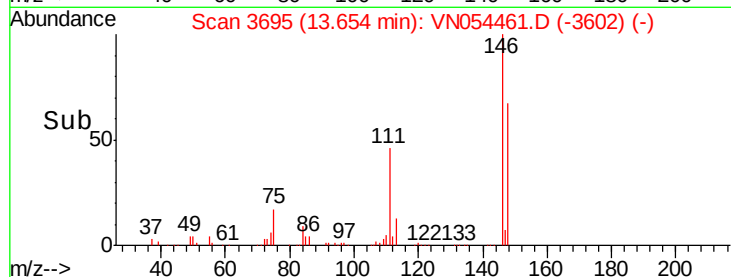
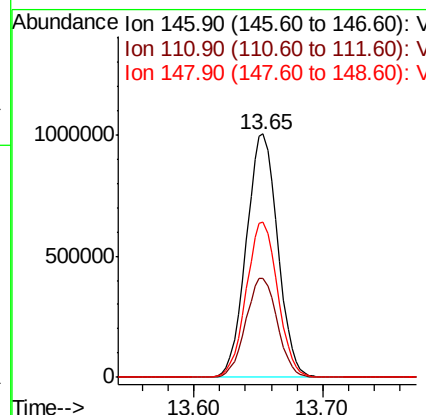
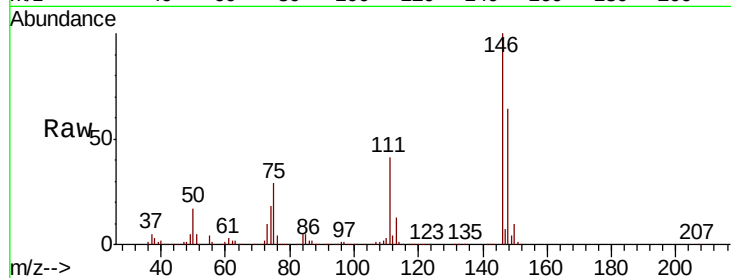
#91
 1,2-Dichlorobenzene
 Concen: 127.183 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.0	19.1	57.3
148	63.7	32.4	97.0

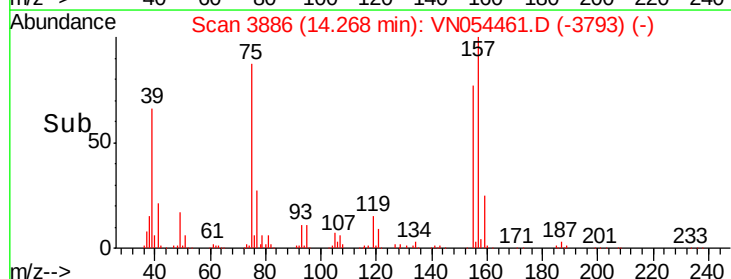
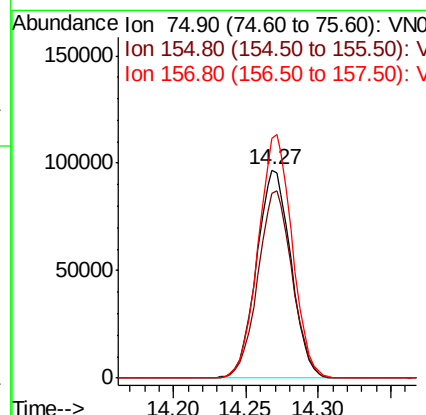
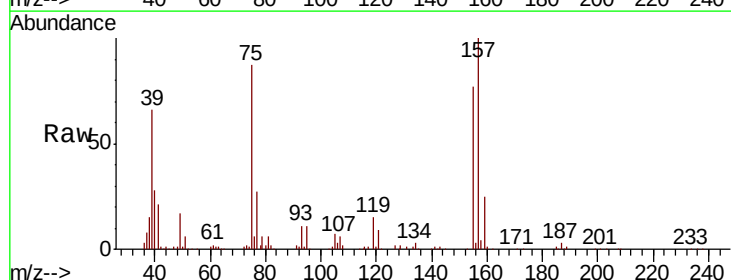
Manual Integrations
 APPROVED

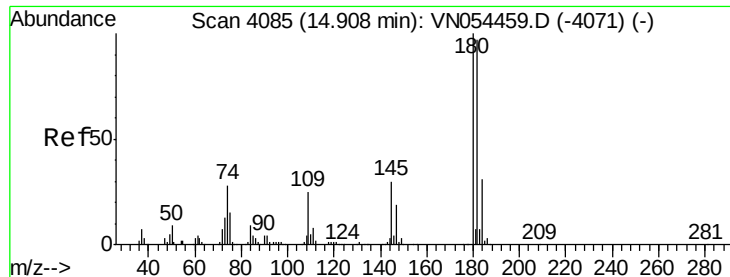
MMDadoda
 3/22/2019 3:16:56 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 158.621 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN054461.D
 Acq: 20 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.2	50.1	150.3
157	115.1	63.1	189.3





#93

1,2,4-Trichlorobenzene

Concen: 146.491 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:180 Resp: 1012032

Ion Ratio Lower Upper

180 100

182 93.7 48.0 144.2

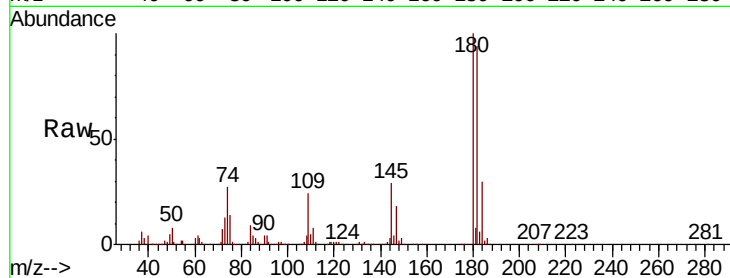
145 28.6 14.2 42.8

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:16:56 PM

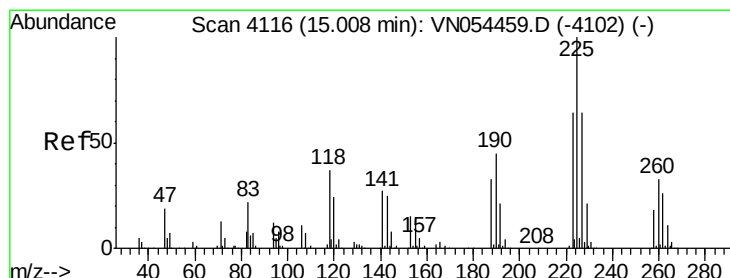
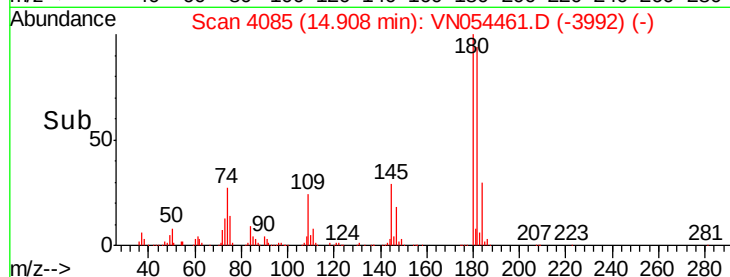
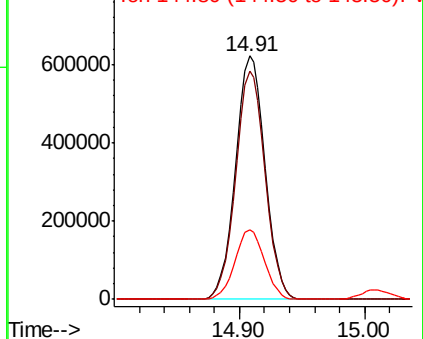


Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 97.278 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

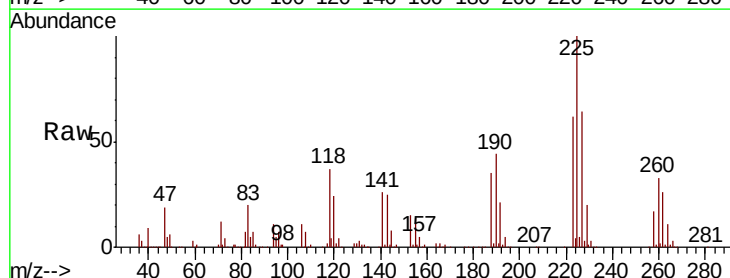
Tgt Ion:225 Resp: 495293

Ion Ratio Lower Upper

225 100

223 62.5 31.1 93.5

227 64.6 31.9 95.9

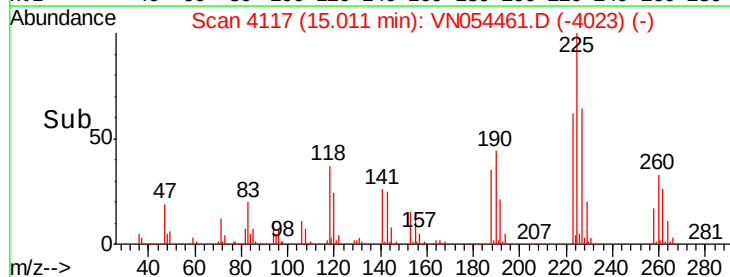
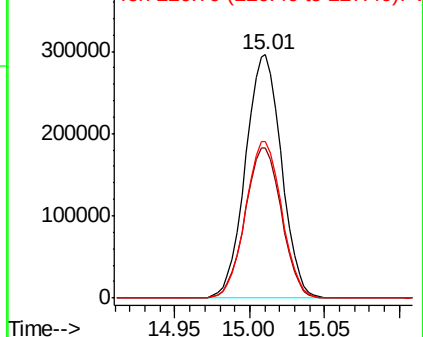


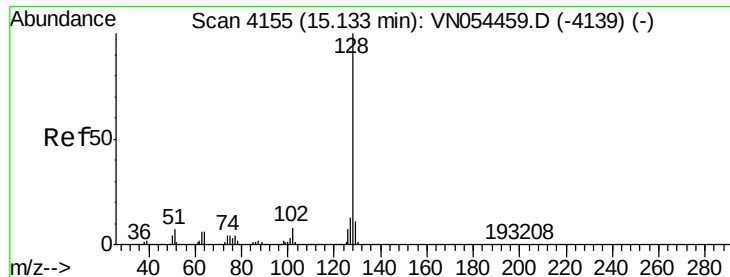
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 164.567 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:128 Resp: 2338532

Ion Ratio Lower Upper

128 100

127 13.1 10.1 15.1

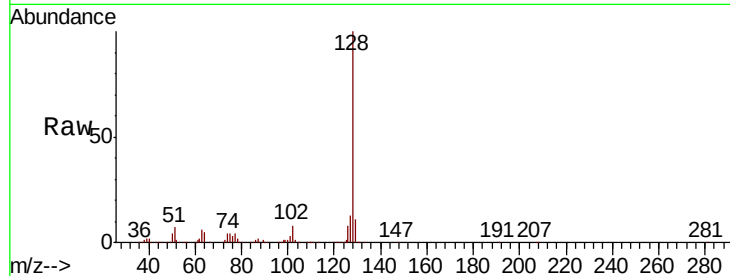
129 10.9 8.7 13.1

Manual Integrations

APPROVED

MMDadoda

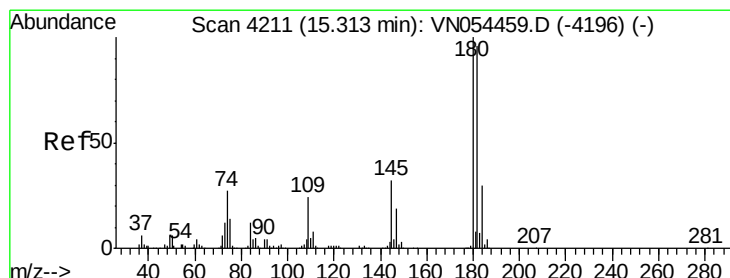
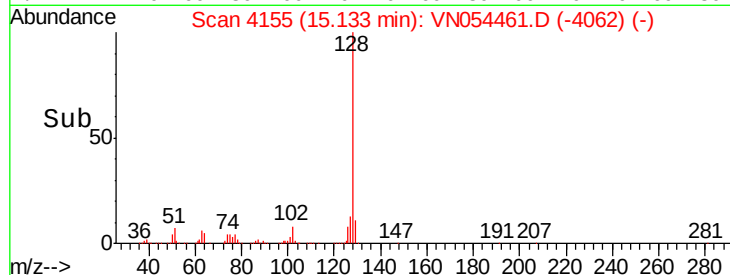
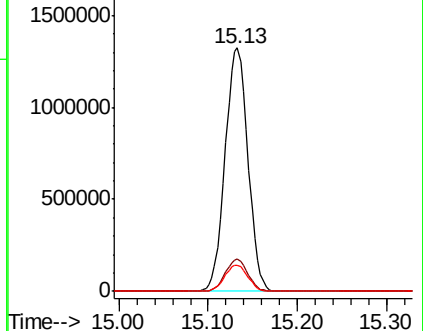
3/22/2019 3:16:56 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 134.763 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN054461.D

Acq: 20 Mar 2019 12:36

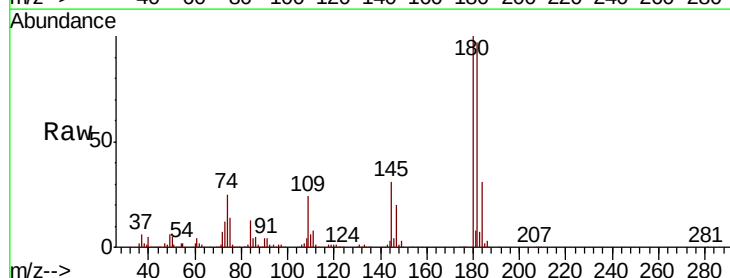
Tgt Ion:180 Resp: 957120

Ion Ratio Lower Upper

180 100

182 96.2 47.5 142.6

145 30.7 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

