

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031619\
 Data File : VN054349.D
 Acq On : 16 Mar 2019 20:52
 Operator : JC/SP
 Sample : VN0316WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/18/2019 11:31:20 AM

Quant Time: Mar 18 07:27:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1283011	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1952453	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1698639	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	756581	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	693553	50.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.80%	
35) Dibromofluoromethane	7.59	113	646987	51.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.76%	
50) Toluene-d8	10.09	98	2304321	49.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.10%	
62) 4-Bromofluorobenzene	12.40	95	772653	47.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	250678	20.616	ug/l	99
3) Chloromethane	2.06	50	230249	19.493	ug/l	98
4) Vinyl Chloride	2.19	62	272180	20.161	ug/l	100
5) Bromomethane	2.57	94	169620	18.141	ug/l	96
6) Chloroethane	2.71	64	161855	19.815	ug/l	96
7) Trichlorofluoromethane	3.02	101	351362	19.575	ug/l	99
8) Diethyl Ether	3.41	74	178704	21.848	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	276481	20.556	ug/l	99
10) Methyl Iodide	3.94	142	391685	21.389	ug/l	100
11) Tert butyl alcohol	4.82	59	83660	89.563	ug/l	100
12) 1,1-Dichloroethene	3.73	96	282893	21.224	ug/l	98
13) Acrolein	3.61	56	77703	87.786	ug/l	99
14) Allyl chloride	4.32	41	331358	19.376	ug/l	98
15) Acrylonitrile	5.00	53	422978	110.237	ug/l	98
16) Acetone	3.82	43	309223	79.261	ug/l	99
17) Carbon Disulfide	4.04	76	537134	16.075	ug/l	99
18) Methyl Acetate	4.33	43	200146	25.357	ug/l	99
19) Methyl tert-butyl Ether	5.06	73	707227	21.406	ug/l	98
20) Methylene Chloride	4.55	84	276043	21.549	ug/l	98
21) trans-1,2-Dichloroethene	5.03	96	262482	20.553	ug/l	97
22) Diisopropyl ether	5.96	45	740602	21.698	ug/l	98
23) Vinyl Acetate	5.90	43	2528777	100.485	ug/l	100
24) 1,1-Dichloroethane	5.85	63	468293	21.368	ug/l	99
25) 2-Butanone	6.85	43	477433	104.267	ug/l	98
26) 2,2-Dichloropropane	6.82	77	283163	14.693	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	308598	21.660	ug/l	96
28) Bromochloromethane	7.20	49	199174	22.231	ug/l	96
29) Tetrahydrofuran	7.22	42	311208	105.706	ug/l	99
30) Chloroform	7.37	83	498121	21.782	ug/l	99
31) Cyclohexane	7.65	56	408837	19.197	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	419013	20.288	ug/l	99
36) 1,1-Dichloropropene	7.79	75	355888	19.793	ug/l	99
37) Ethyl Acetate	6.94	43	215422	20.851	ug/l	99
38) Carbon Tetrachloride	7.77	117	357776	18.974	ug/l	98

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	404280	18.274	ug/l	99
40) Benzene	8.04	78	1101964	21.417	ug/l	98
41) Methacrylonitrile	7.18	41	123315	20.905	ug/l	98
42) 1,2-Dichloroethane	8.12	62	366060	21.073	ug/l	98
43) Isopropyl Acetate	8.17	43	348141	19.198	ug/l	99
44) Trichloroethene	8.83	130	327852	20.512	ug/l	99
45) 1,2-Dichloropropane	9.12	63	277755	21.740	ug/l	99
46) Dibromomethane	9.21	93	186499	21.605	ug/l	98
47) Bromodichloromethane	9.40	83	349002	20.167	ug/l	99
48) Methyl methacrylate	9.20	41	191424	20.800	ug/l	98
49) 1,4-Dioxane	9.20	88	56964	437.600	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	1026947	107.009	ug/l	98
52) Toluene	10.16	92	683476	20.950	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	301433	16.610	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	378397	18.764	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	258700	21.717	ug/l	98
56) Ethyl methacrylate	10.43	69	296685	20.887	ug/l	98
57) 1,3-Dichloropropane	10.71	76	420948	21.611	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	545286	99.359	ug/l	99
59) 2-Hexanone	10.75	43	637161	99.780	ug/l	99
60) Dibromochloromethane	10.90	129	257035	19.170	ug/l	99
61) 1,2-Dibromoethane	11.01	107	253252	20.920	ug/l	99
64) Tetrachloroethene	10.63	164	334307	20.356	ug/l	100
65) Chlorobenzene	11.43	112	786278	21.081	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	278977	20.590	ug/l	98
67) Ethyl Benzene	11.51	91	1292574	20.906	ug/l	100
68) m/p-Xylenes	11.62	106	1002850	41.500	ug/l	100
69) o-Xylene	11.95	106	500410	21.243	ug/l	99
70) Styrene	11.96	104	775006	20.977	ug/l	99
71) Bromoform	12.13	173	157127	16.848	ug/l #	100
73) Isopropylbenzene	12.25	105	1301703	21.505	ug/l	100
74) N-amyl acetate	12.07	43	275341	20.493	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	288480	22.369	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	251096m	22.569	ug/l	
77) Bromobenzene	12.53	156	348957	21.786	ug/l	97
78) n-propylbenzene	12.59	91	1385406	21.093	ug/l	100
79) 2-Chlorotoluene	12.68	91	849943	21.522	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1056230	20.978	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	44456	13.659	ug/l #	81
82) 4-Chlorotoluene	12.77	91	825896	20.944	ug/l	99
83) tert-Butylbenzene	12.99	119	974027	21.018	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1048572	21.228	ug/l	100
85) sec-Butylbenzene	13.17	105	1205939	20.065	ug/l	99
86) p-Isopropyltoluene	13.29	119	1037019	19.668	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	568396	21.060	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	558143	21.051	ug/l	99
89) n-Butylbenzene	13.62	91	743682	18.563	ug/l	99
90) Hexachloroethane	13.88	117	147994	16.951	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	576804	21.861	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	38359	19.221	ug/l	99

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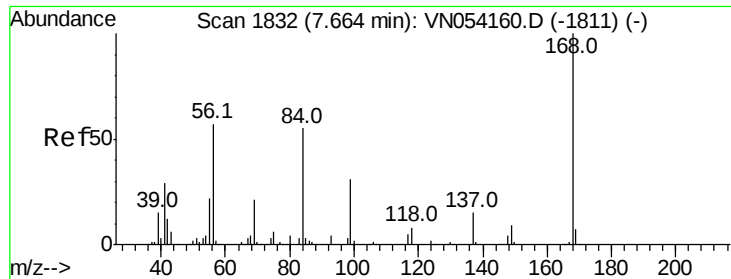
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	256292	17.796	ug/l	98
94) Hexachlorobutadiene	15.01	225	167584	16.675	ug/l	99
95) Naphthalene	15.13	128	548872	18.862	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	268940	19.184	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD01

Tot Ion:168 Resp: 1283011

Ion Ratio Lower Upper

168 100

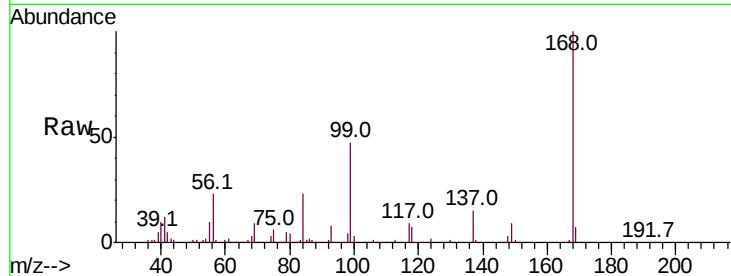
99 46.3 37.1 55.7

Manual Integrations

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3/18/2019 11:31:20 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

600000

500000

400000

300000

200000

100000

0

7.50

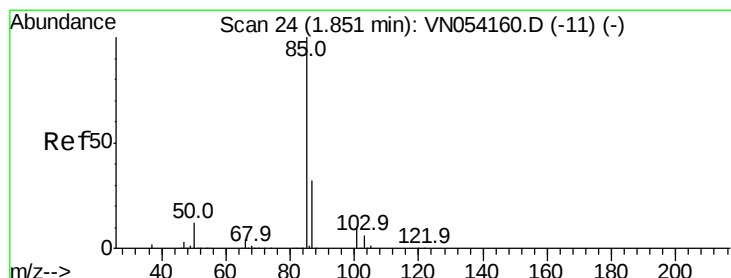
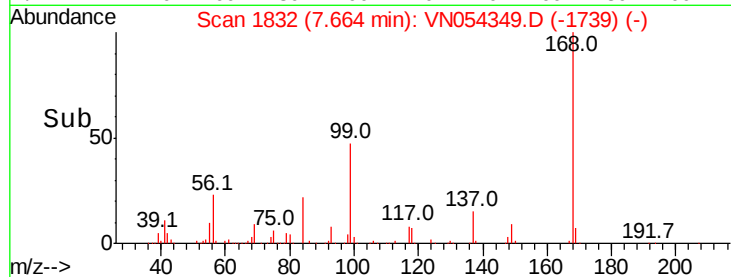
7.60

7.70

7.80

7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 20.616 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN054349.D

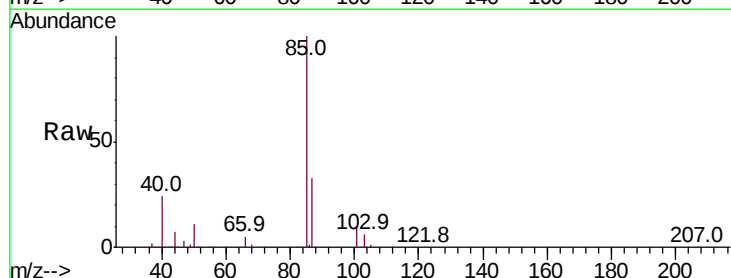
Acq: 16 Mar 2019 20:52

Tgt Ion: 85 Resp: 250678

Ion Ratio Lower Upper

85 100

87 32.5 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

200000

150000

100000

50000

0

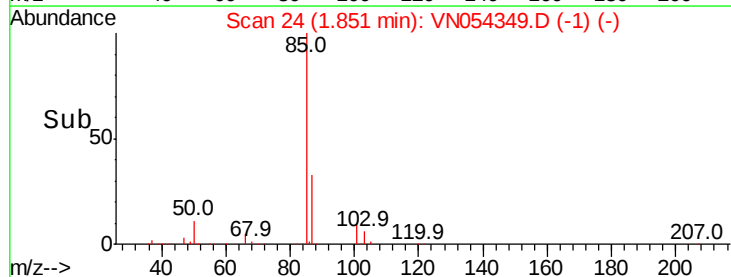
1.80

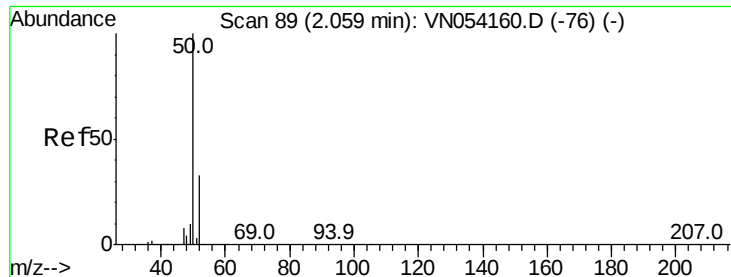
1.85

1.90

1.95

Time-->





#3

Chloromethane

Concen: 19.493 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampled :

VN0316WBSD01

Tot Ion: 50 Resp: 230249

Ion Ratio Lower Upper

50 100

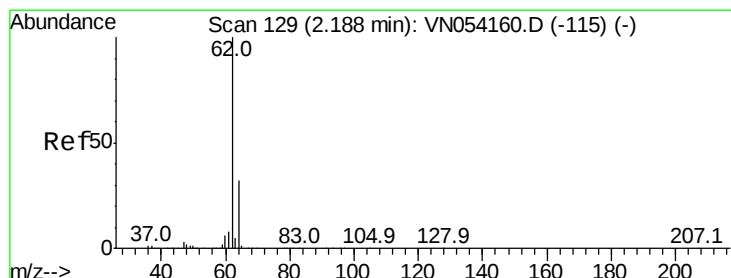
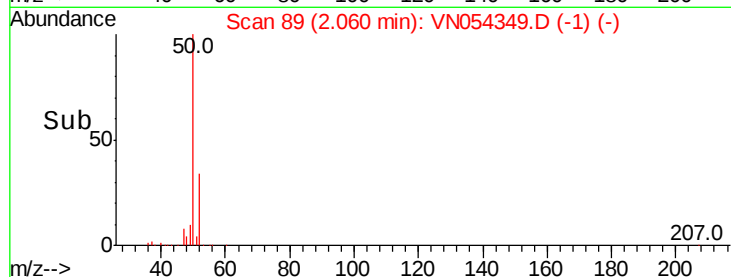
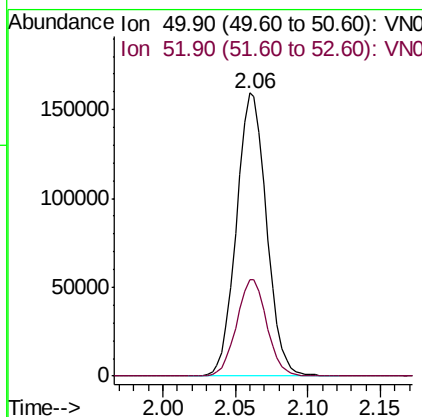
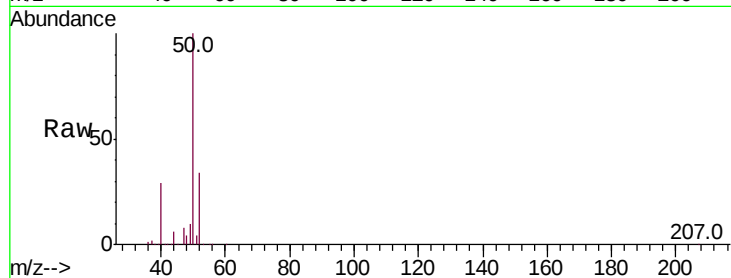
52 34.2 26.4 39.6

Manual Integrations

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3/18/2019 11:31:20 AM



#4

Vinyl Chloride

Concen: 20.161 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054349.D

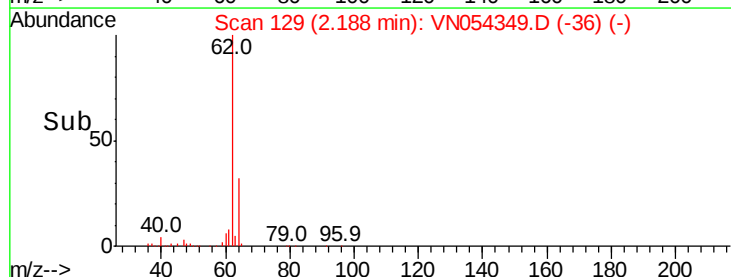
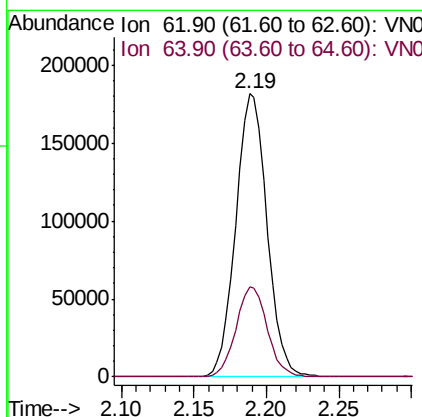
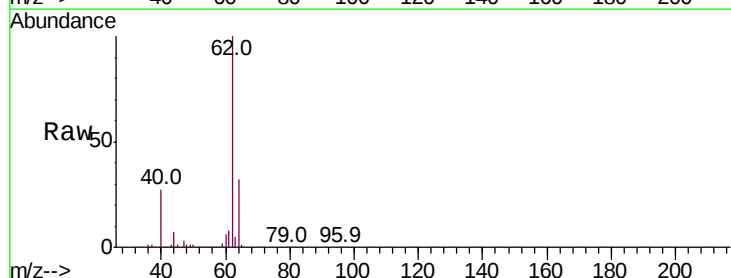
Acq: 16 Mar 2019 20:52

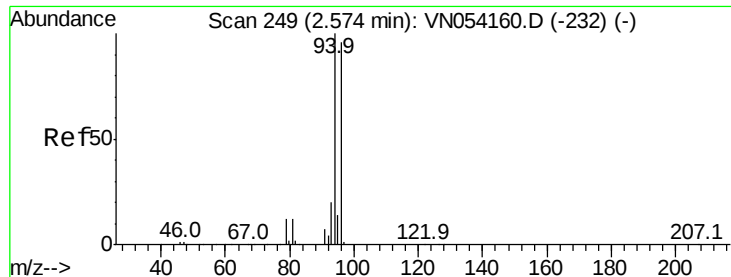
Tgt Ion: 62 Resp: 272180

Ion Ratio Lower Upper

62 100

64 31.6 25.5 38.3





#5

Bromomethane

Concen: 18.141 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD01

Tot Ion: 94 Resp: 169620

Ion Ratio Lower Upper

94 100

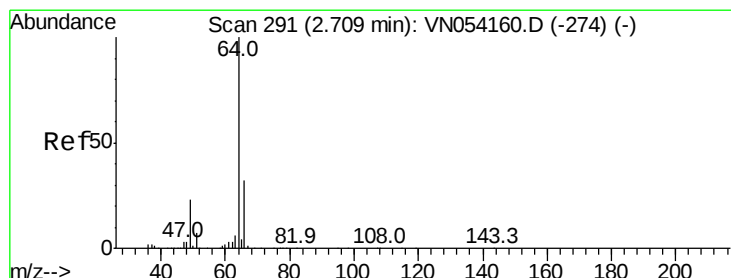
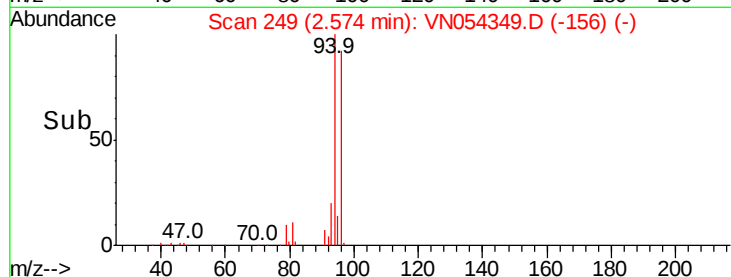
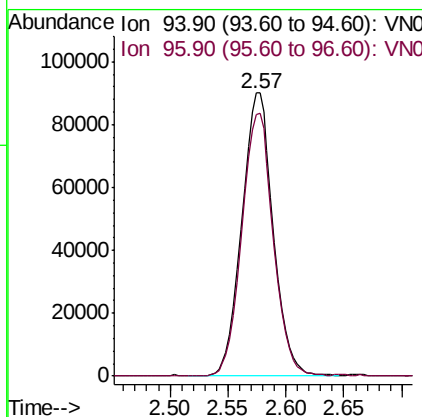
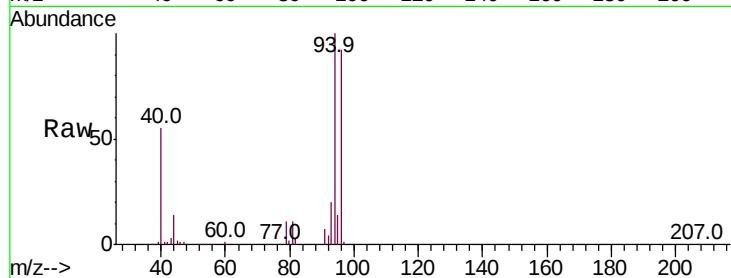
96 92.4 77.0 115.4

Manual Integrations

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3/18/2019 11:31:20 AM



#6

Chloroethane

Concen: 19.815 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054349.D

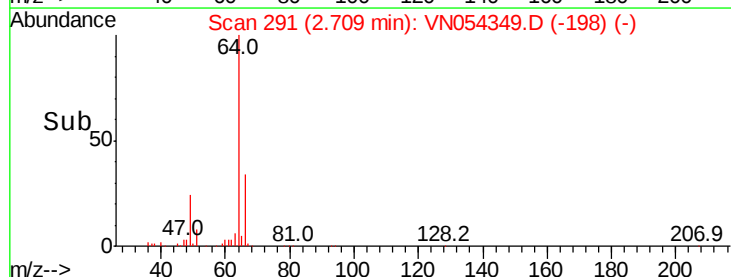
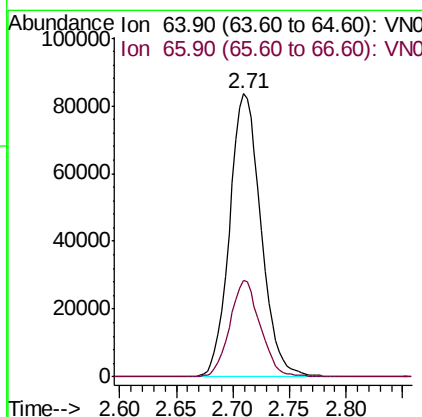
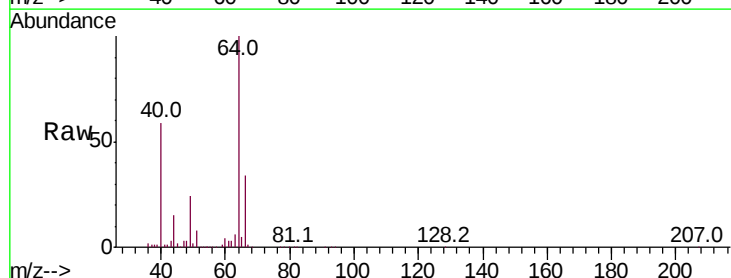
Acq: 16 Mar 2019 20:52

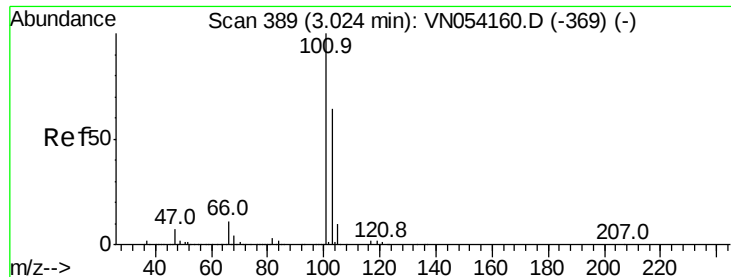
Tgt Ion: 64 Resp: 161855

Ion Ratio Lower Upper

64 100

66 34.1 25.7 38.5





#7

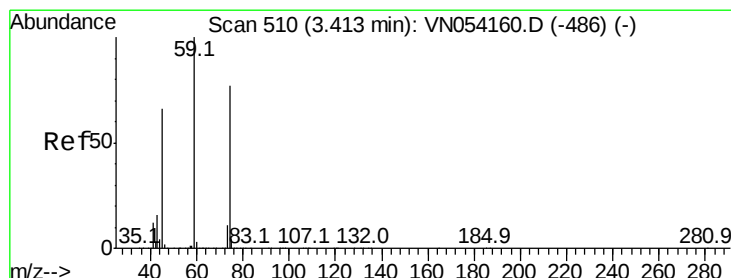
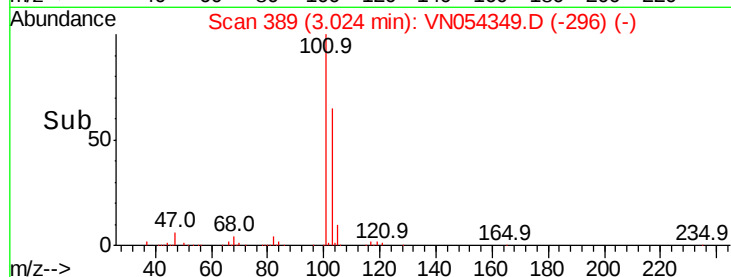
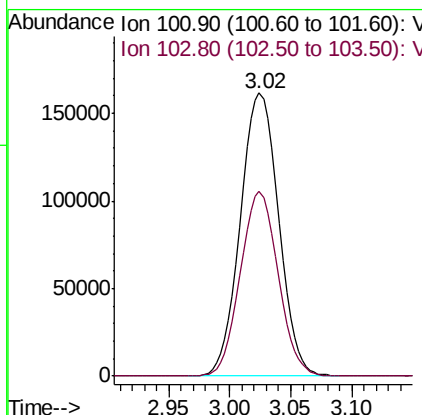
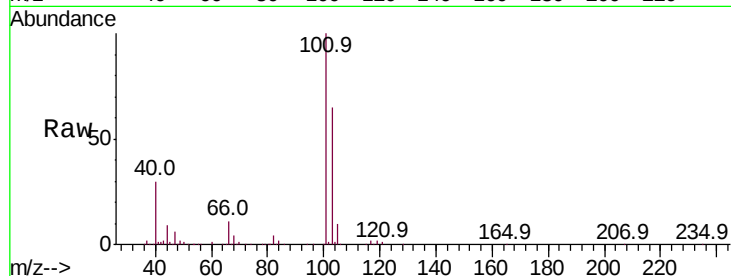
Trichlorofluoromethane
 Concen: 19.575 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN054349.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.4	51.4	77.2

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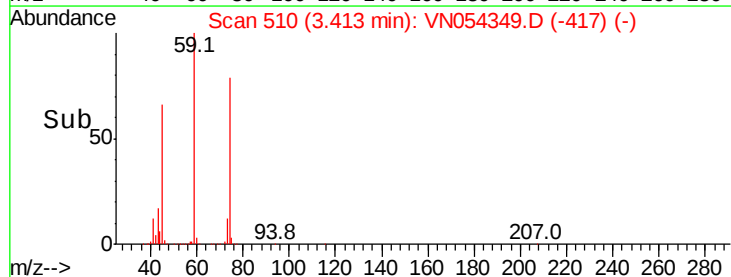
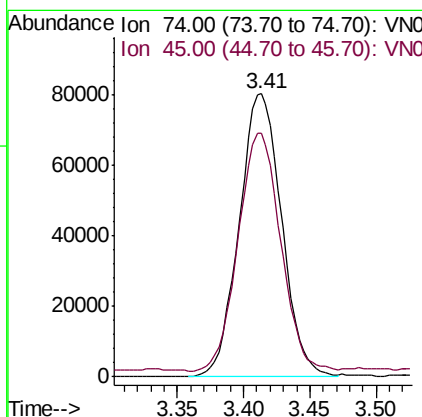
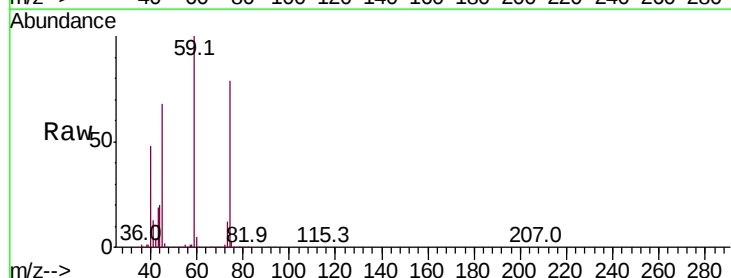
MMDadoda
 3/18/2019 11:31:20 AM

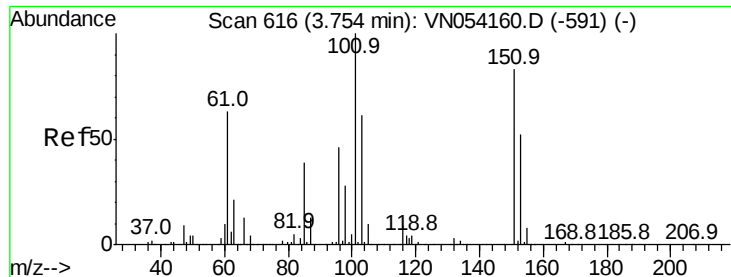


#8

Diethyl Ether
 Concen: 21.848 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN054349.D
 Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Lower	Upper
74	100		
45	83.9	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.556 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

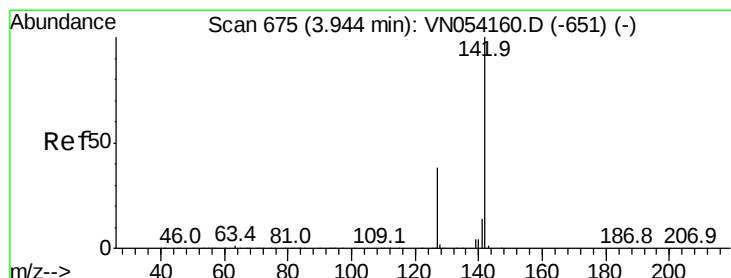
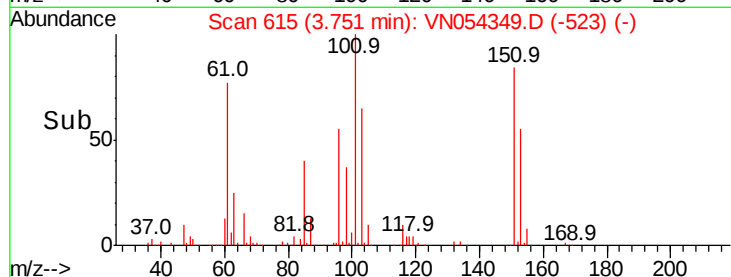
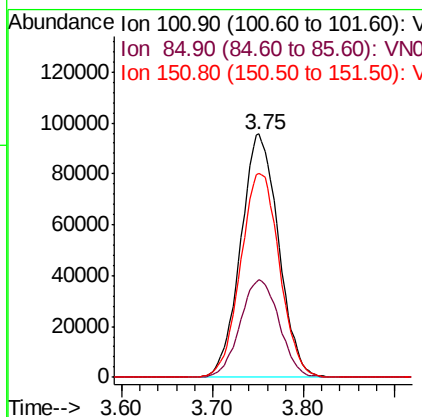
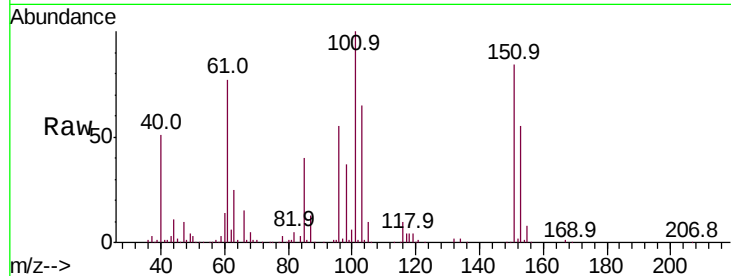
ClientSampleId :

VN0316WBSD01

Tot Ion:	101	Resp:	276481
Ion Ratio	Lower	Upper	
101	100		
85	41.3	32.4	48.6
151	86.1	68.2	102.2

Manual Integrations
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#10

Methyl Iodide

Concen: 21.389 ug/l

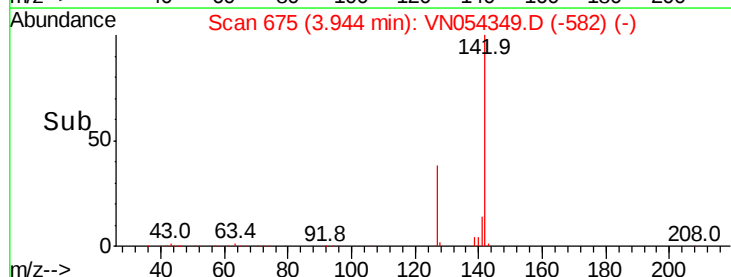
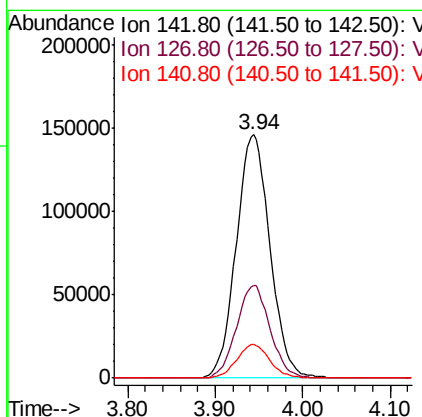
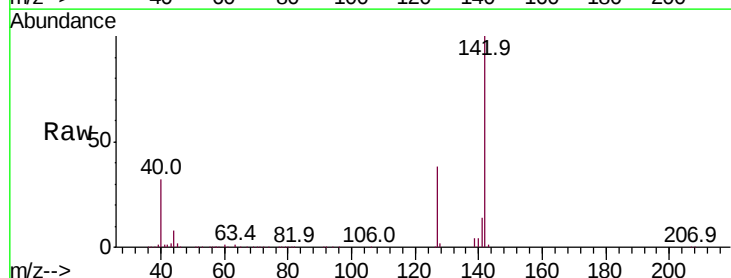
RT: 3.94 min Scan# 675

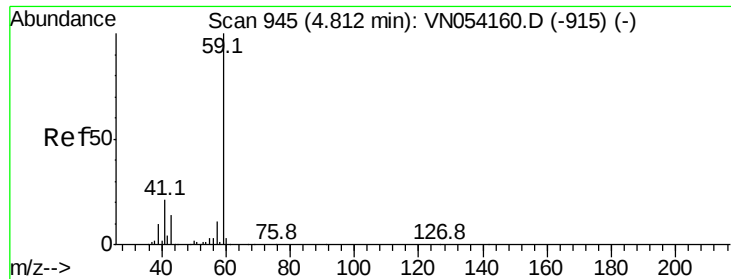
Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Tgt Ion:	142	Resp:	391685
Ion Ratio	Lower	Upper	
142	100		
127	37.8	30.3	45.5
141	13.5	11.2	16.8





#11

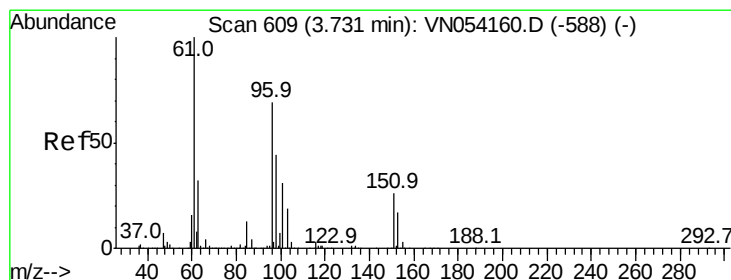
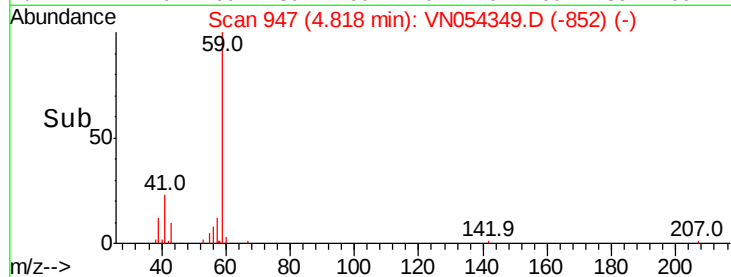
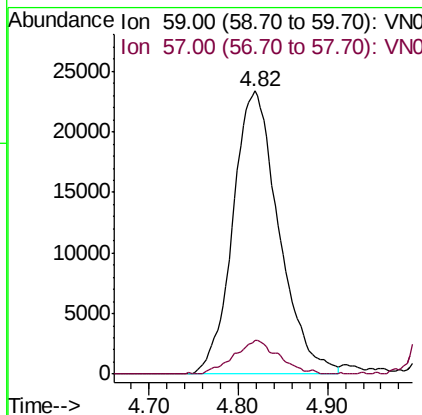
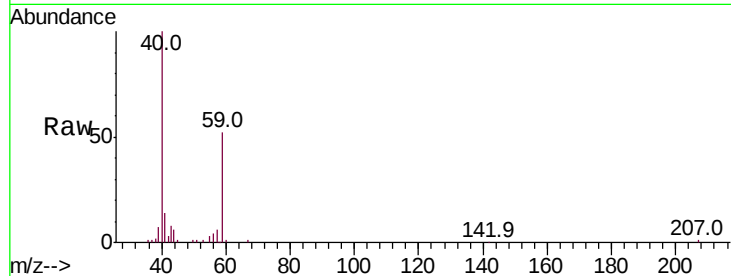
Tert butyl alcohol
 Concen: 89.563 ug/l
 RT: 4.82 min Scan# 947
 Delta R.T. 0.01 min
 Lab File: VN054349.D
 Acq: 16 Mar 2019 20:52

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0316WBSD01

Tot Ion	59	Resp	83660
Ion Ratio	100	Lower	Upper
57	11.4	9.0	13.6

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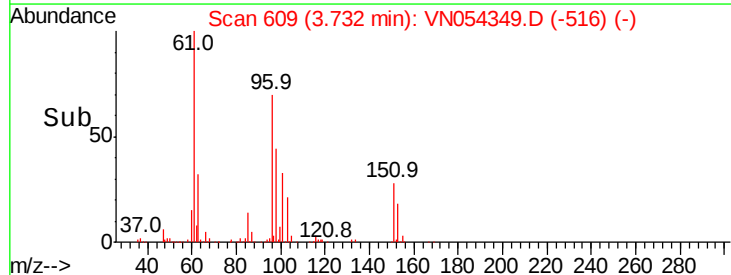
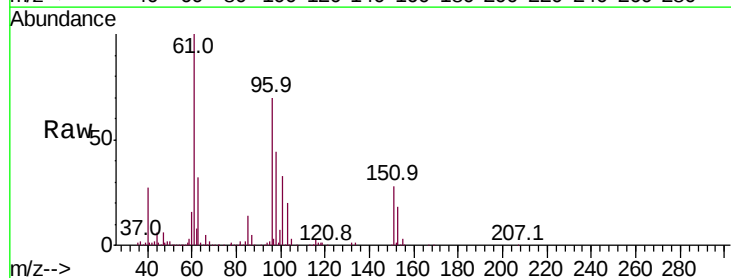
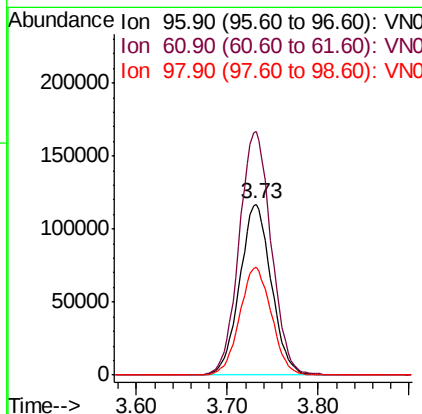
MMDadoda
 3/18/2019 11:31:20 AM

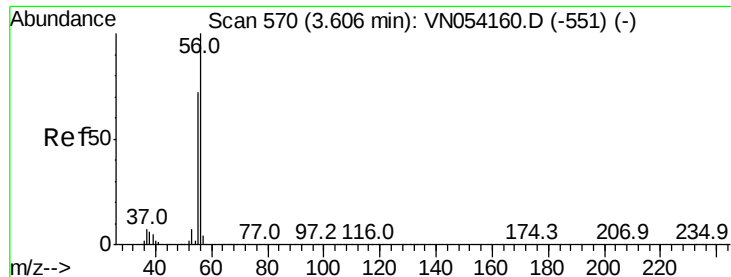


#12

1,1-Dichloroethene
 Concen: 21.224 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. 0.00 min
 Lab File: VN054349.D
 Acq: 16 Mar 2019 20:52

Tgt Ion	96	Resp	282893
Ion Ratio	100	Lower	Upper
61	142.4	116.5	174.7
98	63.2	51.0	76.4





#13

Acrolein

Concen: 87.786 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD01

Tot Ion: 56 Resp: 77703

Ion Ratio Lower Upper

56 100

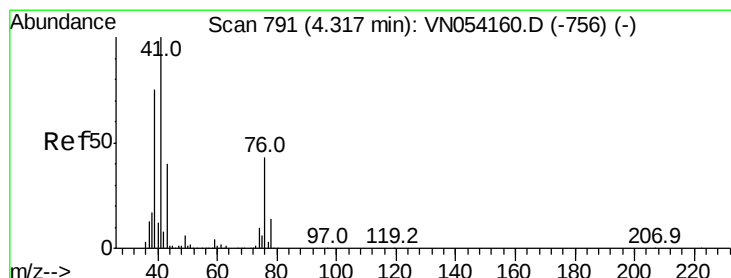
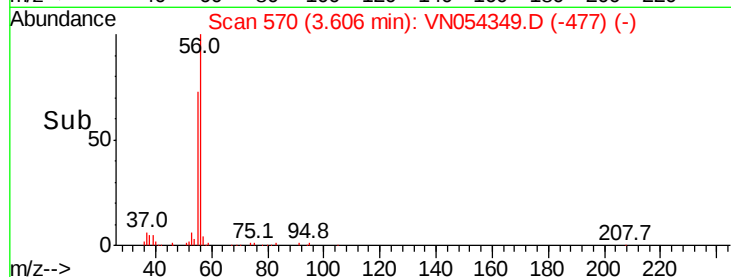
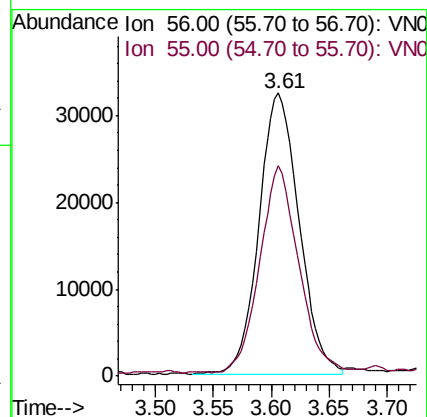
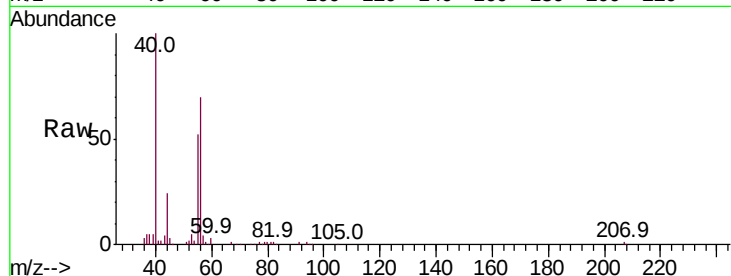
55 71.3 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 19.376 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

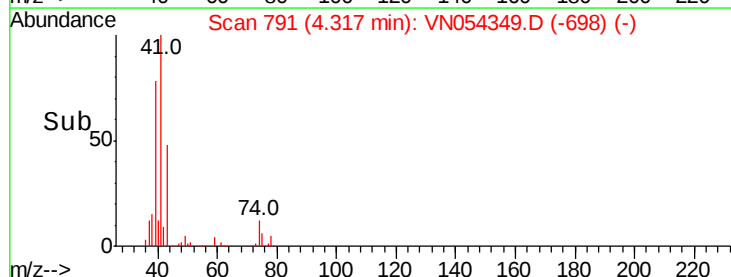
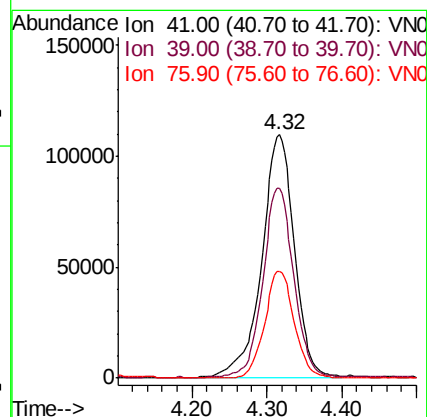
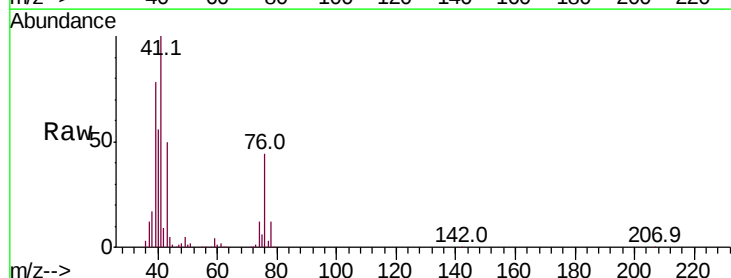
Tgt Ion: 41 Resp: 331358

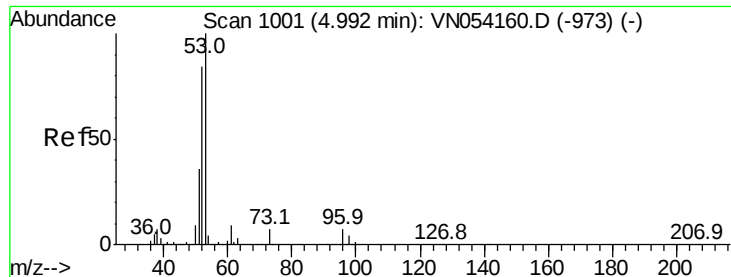
Ion Ratio Lower Upper

41 100

39 75.0 58.2 87.4

76 40.0 31.7 47.5





#15

Acrylonitrile

Concen: 110.237 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

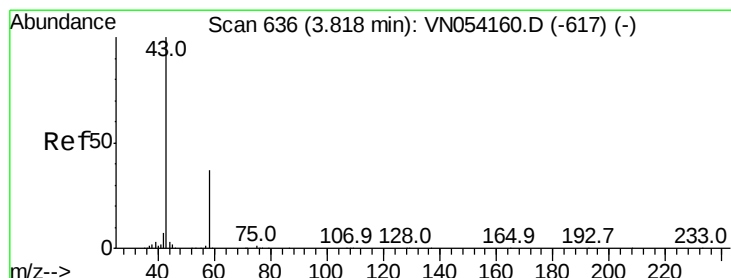
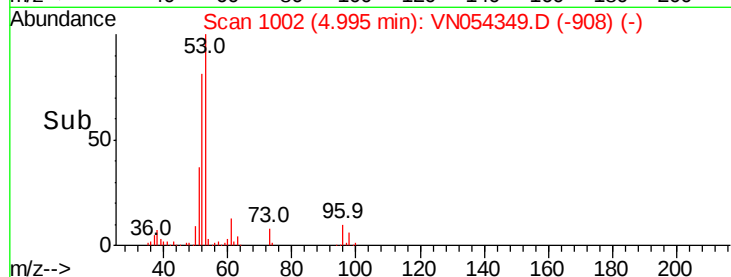
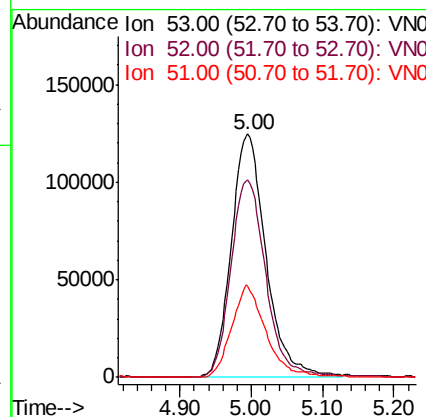
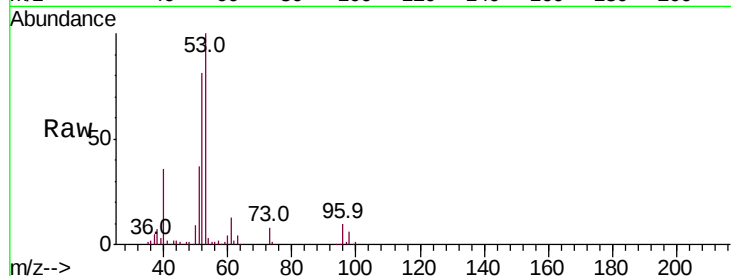
ClientSampleId :

VN0316WBSD01

Tot Ion:	53	Resp:	422978
Ion Ratio	Lower	Upper	
53	100		
52	81.1	66.4	99.6
51	37.1	29.6	44.4

Manual Integrations
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#16

Acetone

Concen: 79.261 ug/l

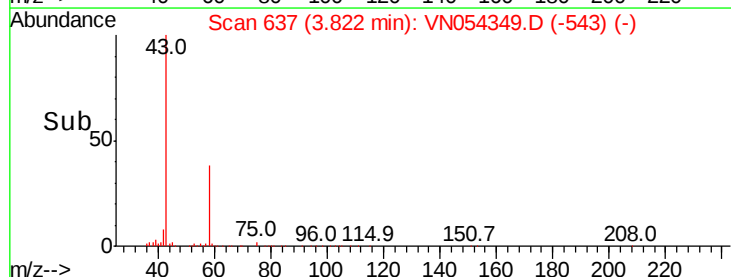
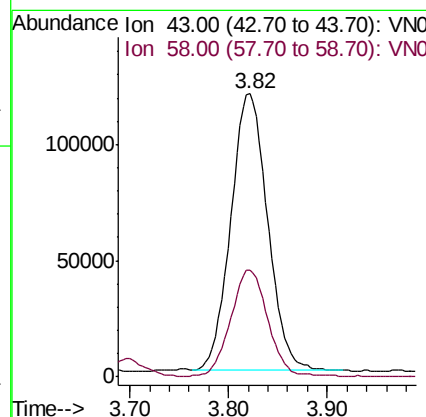
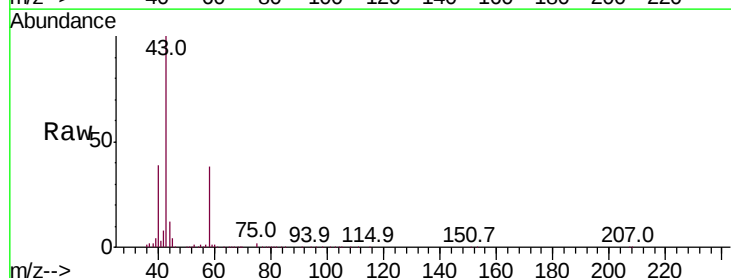
RT: 3.82 min Scan# 637

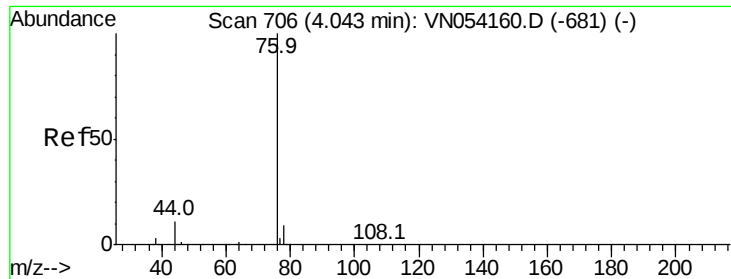
Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Tgt Ion:	43	Resp:	309223
Ion Ratio	Lower	Upper	
43	100		
58	38.2	29.9	44.9





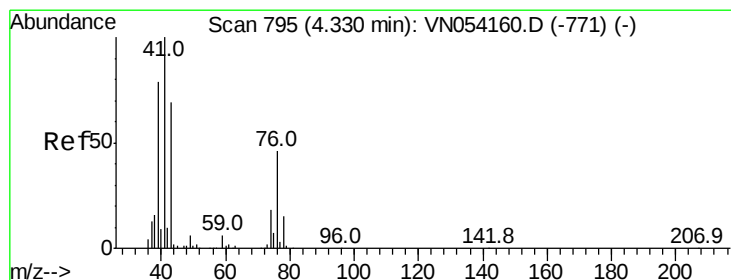
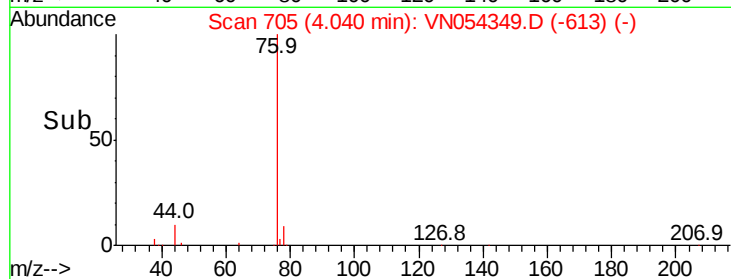
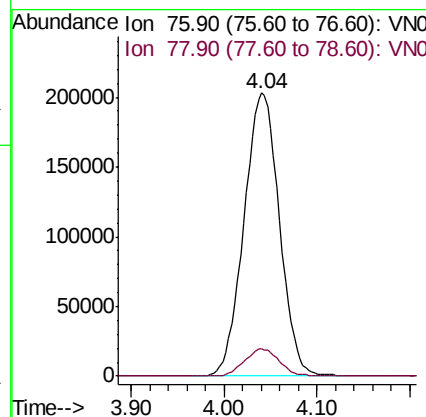
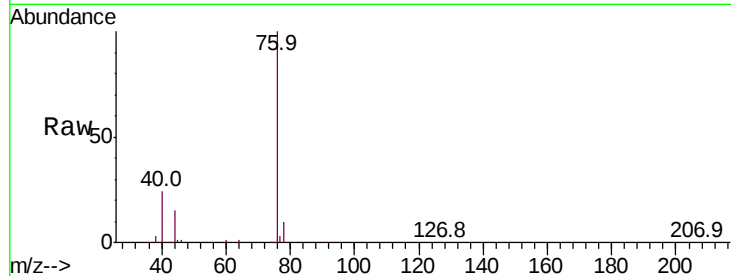
#17
Carbon Disulfide
Concen: 16.075 ug/l
RT: 4.04 min Scan# 705
Delta R.T. -0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.5	11.3

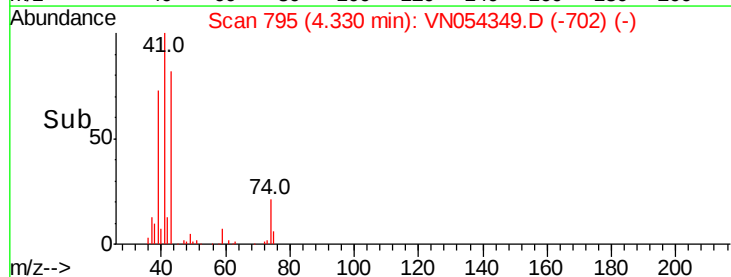
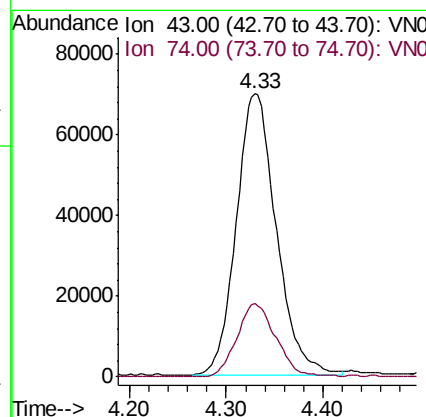
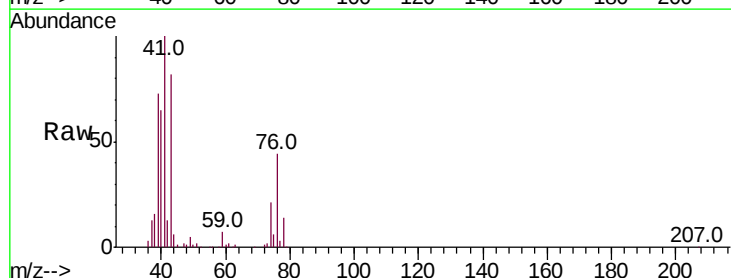
Manual Integrations
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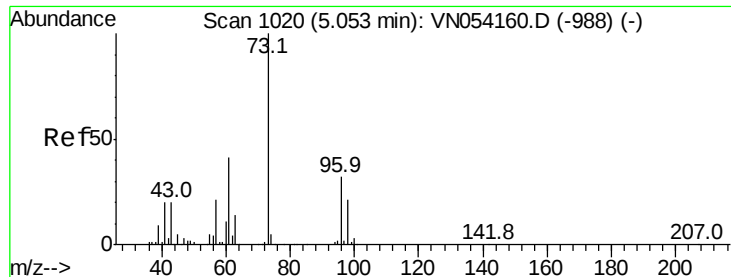
MMDadoda
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#18
Methyl Acetate
Concen: 25.357 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.4	20.8	31.2





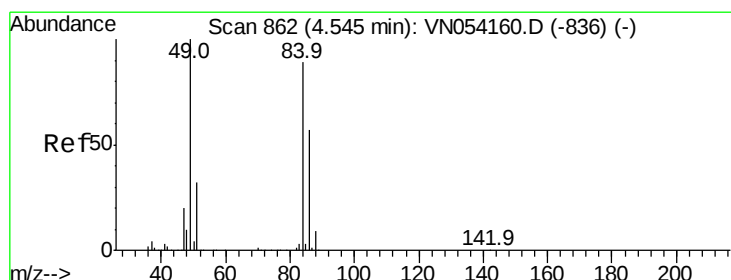
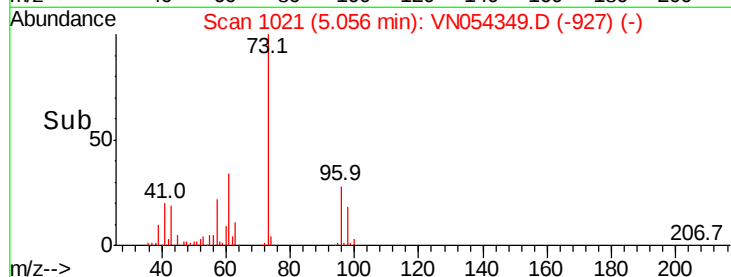
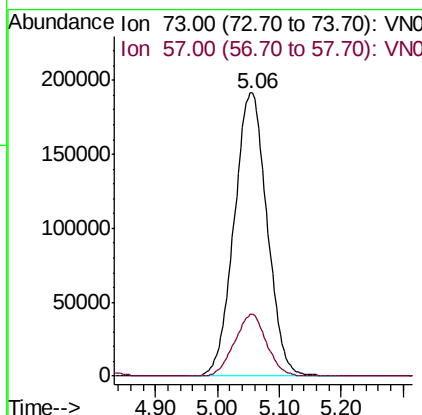
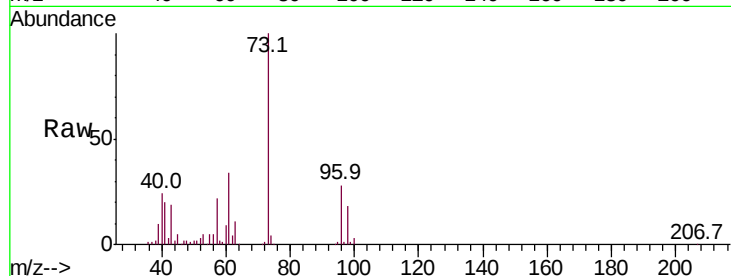
#19
Methvl tert-butvl Ether
Concen: 21.406 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD01

Tot Ion: 73 Resp: 707227
Ion Ratio Lower Upper
73 100
57 22.1 16.8 25.2

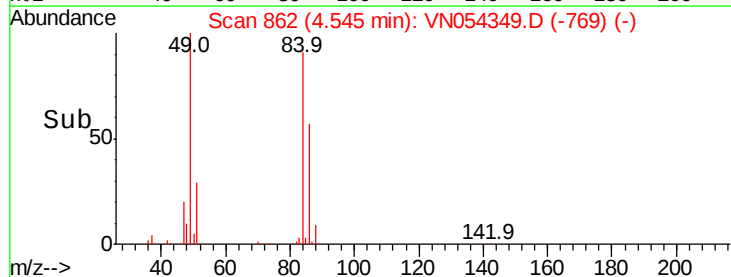
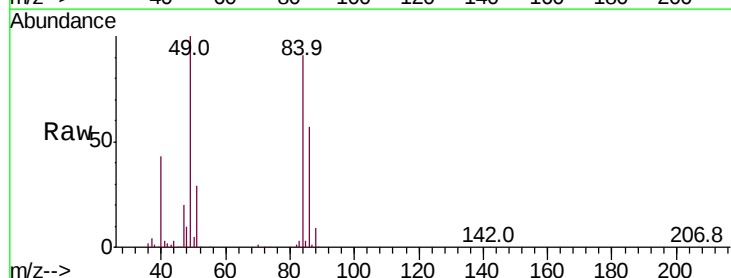
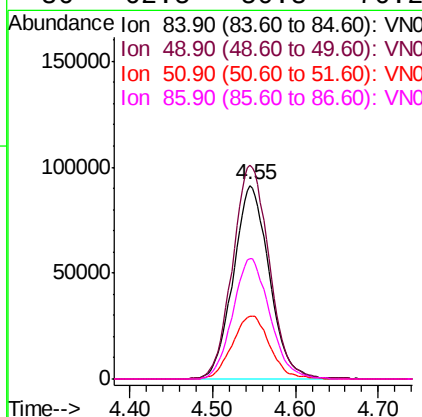
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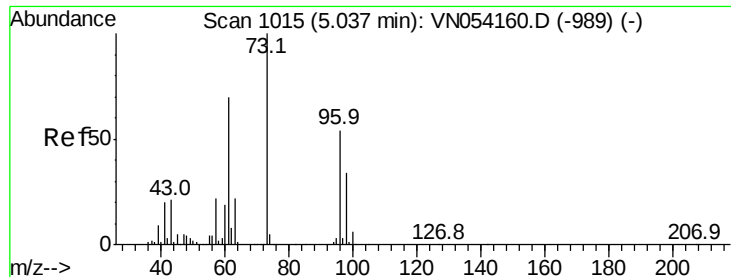
MMDadoda
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#20
Methylene Chloride
Concen: 21.549 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Tgt Ion: 84 Resp: 276043
Ion Ratio Lower Upper
84 100
49 110.2 89.7 134.5
51 32.2 28.2 42.4
86 62.5 50.8 76.2





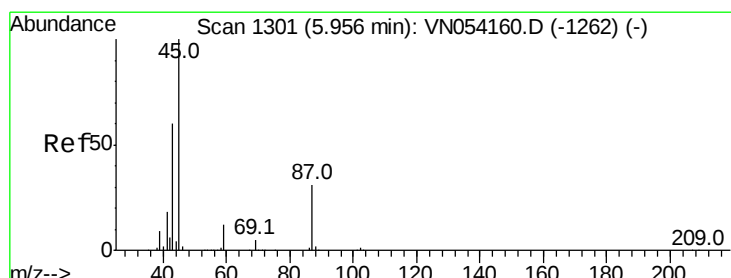
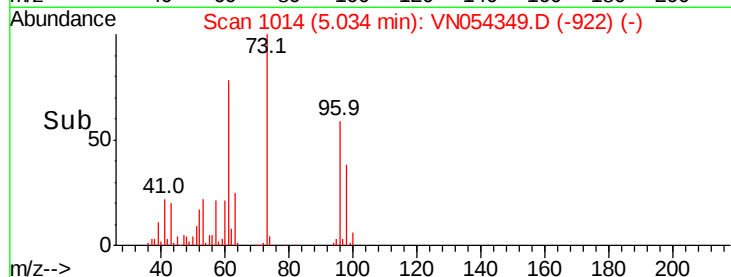
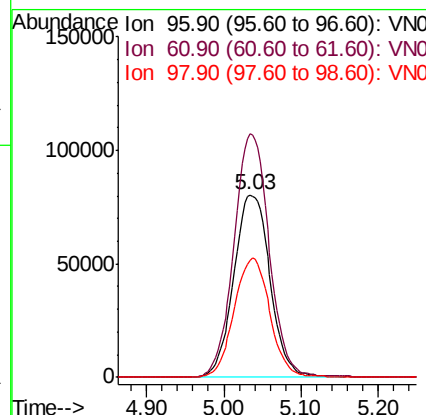
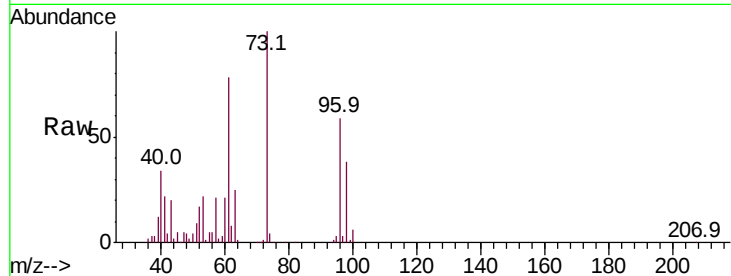
#21
trans-1,2-Dichloroethene
Concen: 20.553 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. -0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	133.3	102.8	154.2
98	64.1	50.0	75.0

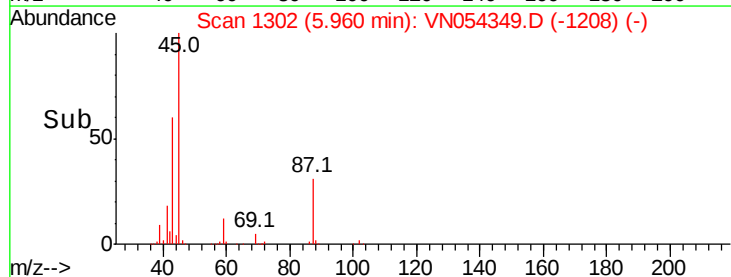
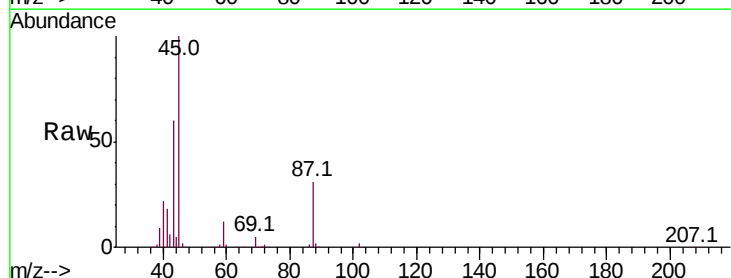
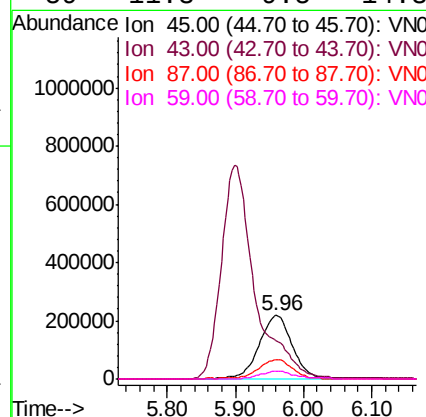
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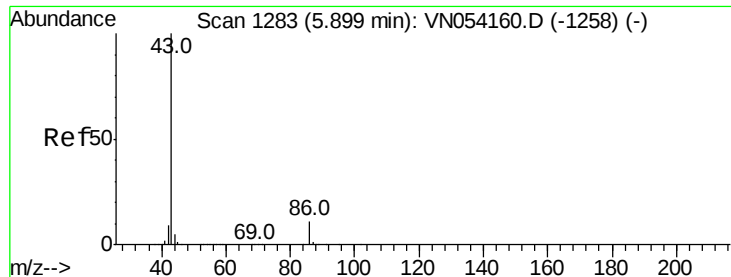
MMDadoda
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#22
Diisopropyl ether
Concen: 21.698 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.7	48.2	72.2
87	30.0	24.9	37.3
59	11.3	9.5	14.3





#23

Vinyl Acetate

Concen: 100.485 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD01

Tot Ion: 43 Resp: 2528777

Ion Ratio Lower Upper

43 100

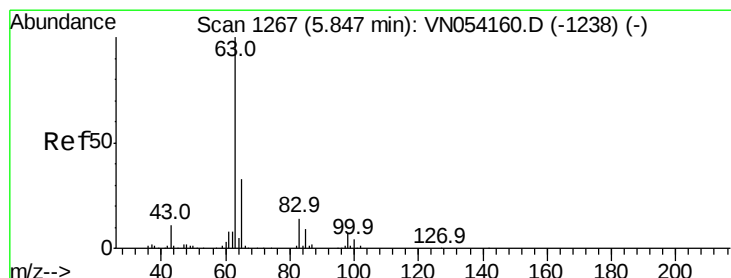
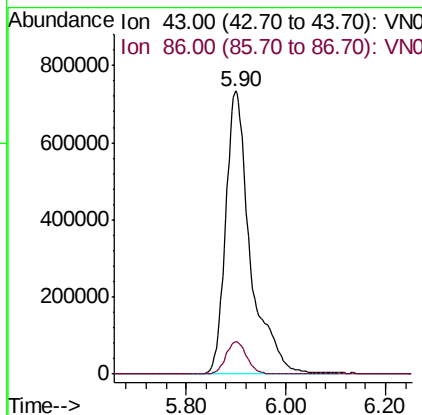
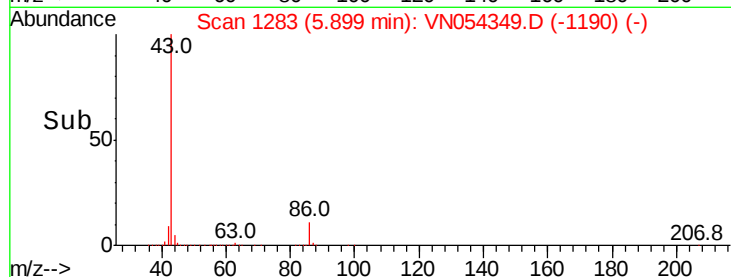
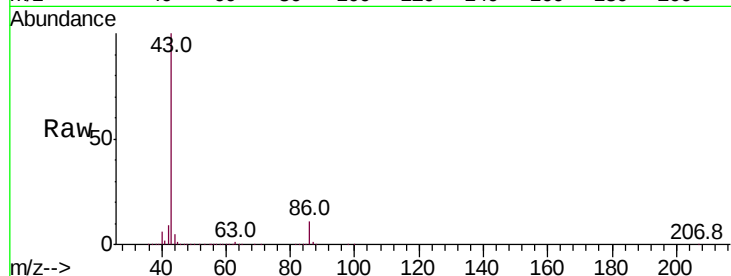
86 11.4 9.1 13.7

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 21.368 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

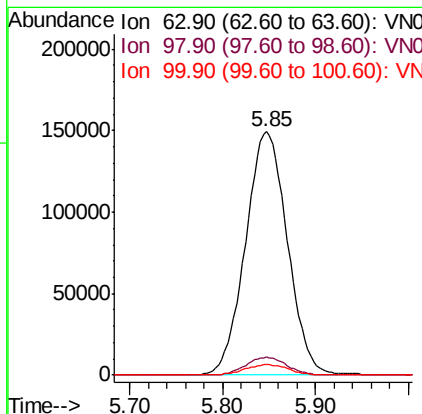
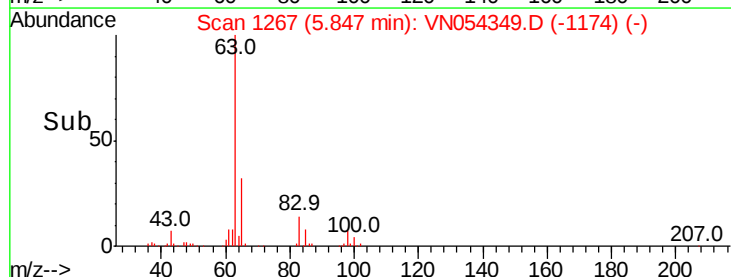
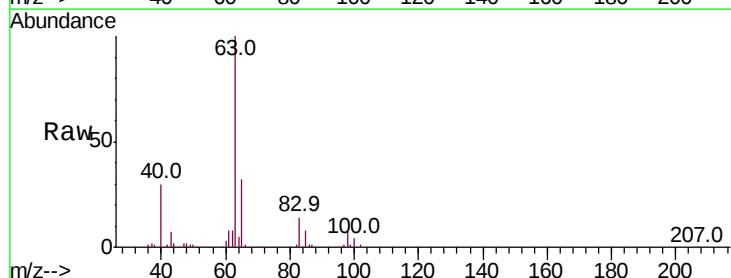
Tgt Ion: 63 Resp: 468293

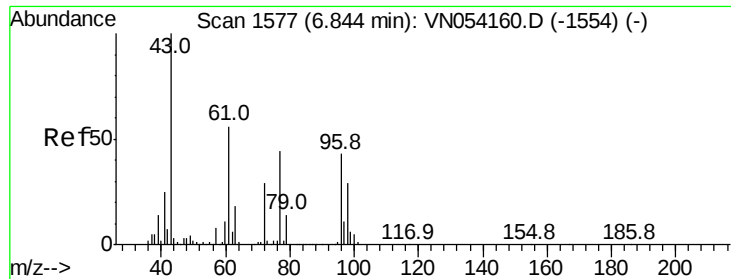
Ion Ratio Lower Upper

63 100

98 7.3 3.5 10.5

100 4.5 2.0 6.0





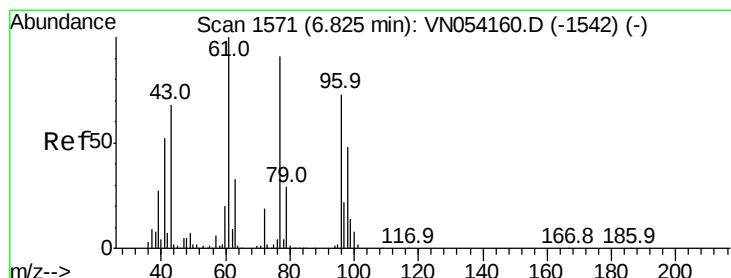
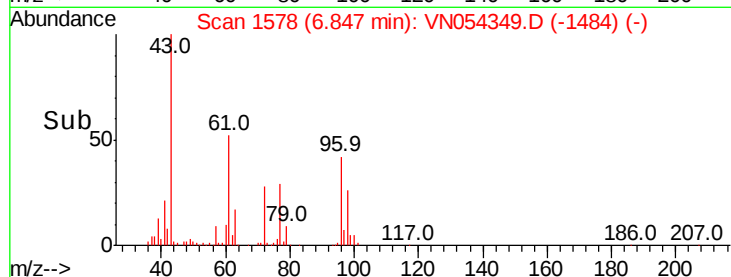
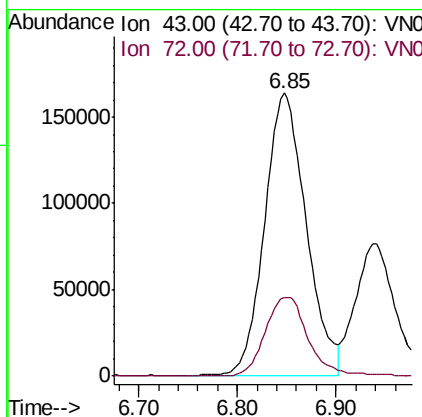
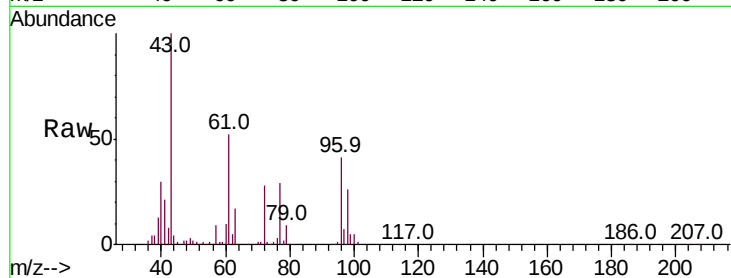
#25
 2-Butanone
 Concen: 104.267 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VN054349.D
 Acq: 16 Mar 2019 20:52

Instrument :
 MSVOA_N
 ClientSampled :
 VN0316WBSD01

Tot Ion: 43 Resp: 477433
 Ion Ratio Lower Upper
 43 100
 72 27.9 23.0 34.6

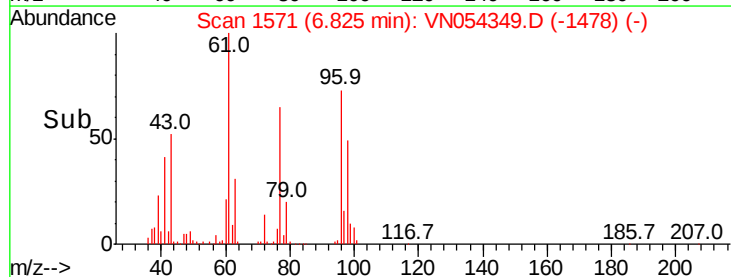
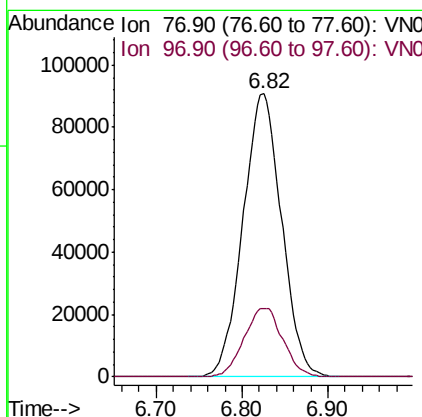
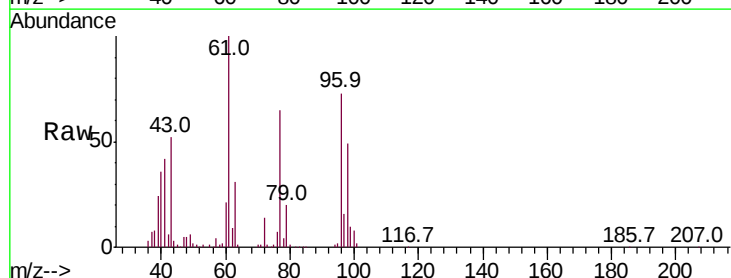
Manual Integrations
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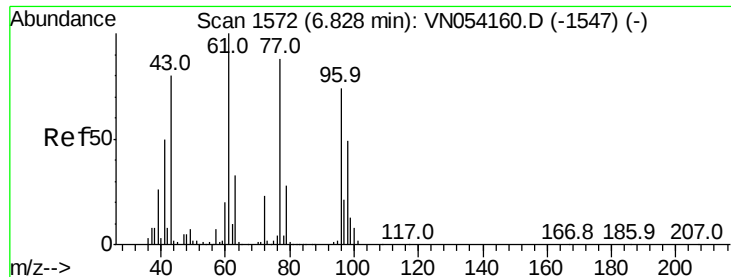
MMDadoda
 3/18/2019 11:31:20 AM



#26
 2,2-Dichloropropane
 Concen: 14.693 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VN054349.D
 Acq: 16 Mar 2019 20:52

Tgt Ion: 77 Resp: 283163
 Ion Ratio Lower Upper
 77 100
 97 24.5 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 21.660 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054349.D

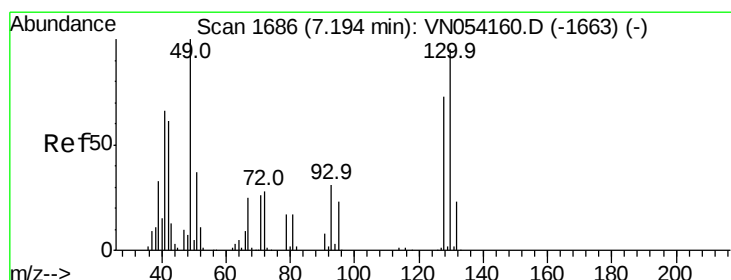
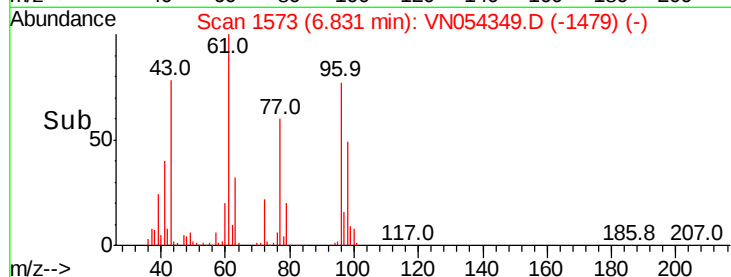
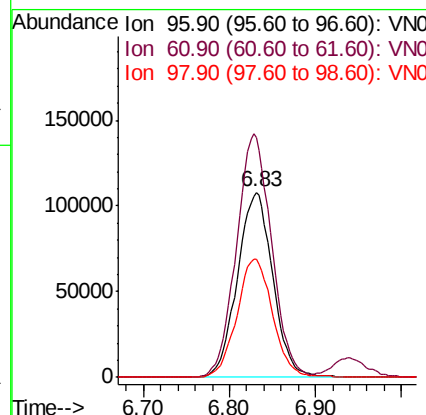
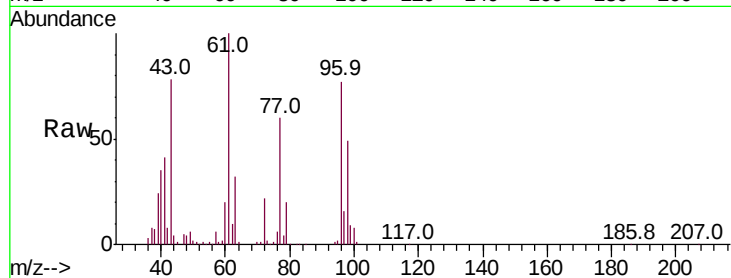
Acq: 16 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	308598		
61	130.5	0.0	273.0	
98	64.3	0.0	130.6	

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#28

Bromochloromethane

Concen: 22.231 ug/l

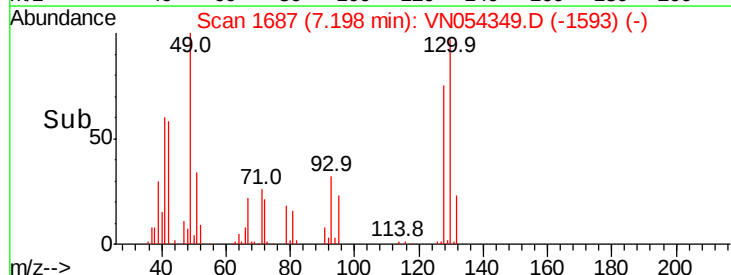
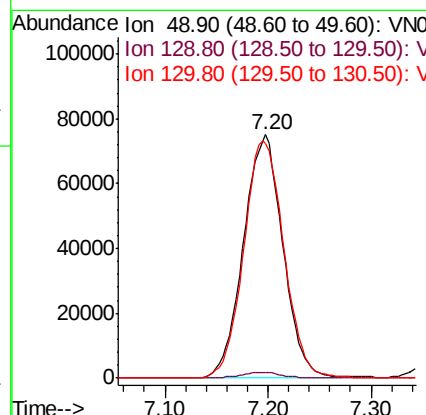
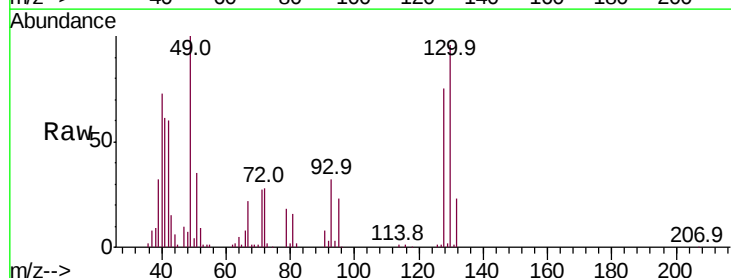
RT: 7.20 min Scan# 1687

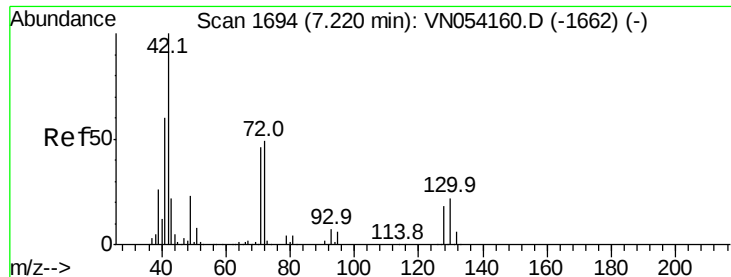
Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	199174		
129	2.3	0.0	4.6	
130	99.6	76.7	115.1	





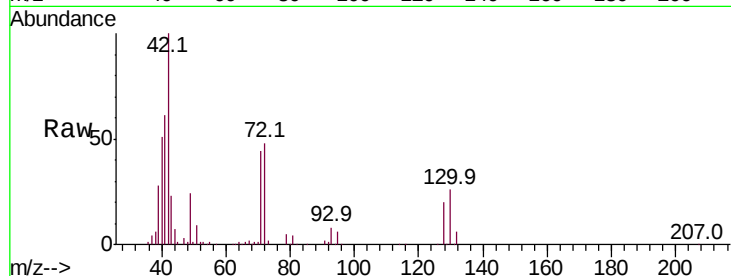
#29
Tetrahydrofuran
Concen: 105.706 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD01

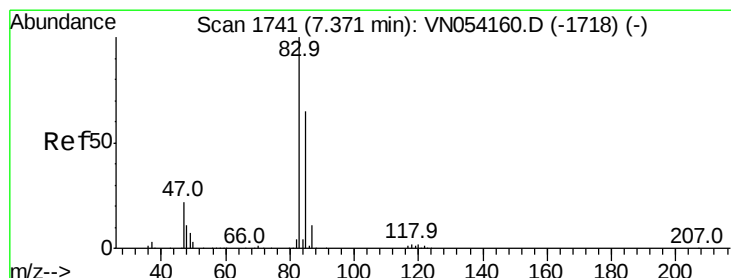
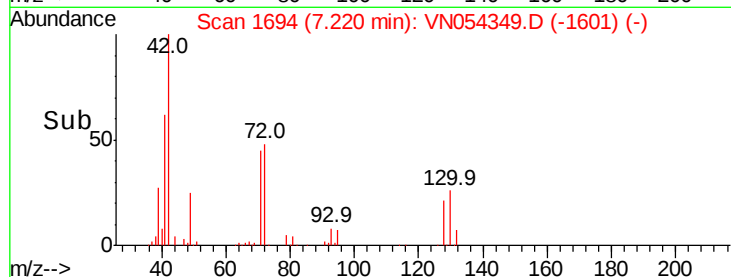
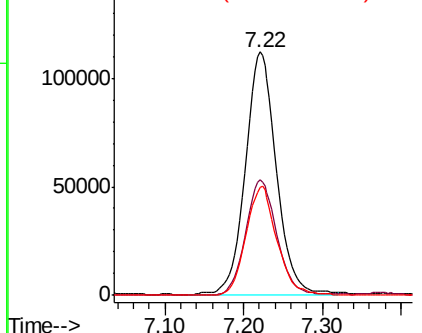
Tot Ion	Ratio	Lower	Upper
42	100		
72	48.3	37.8	56.6
71	45.1	36.2	54.2

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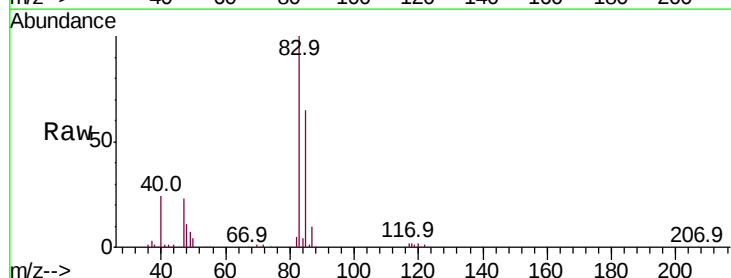


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

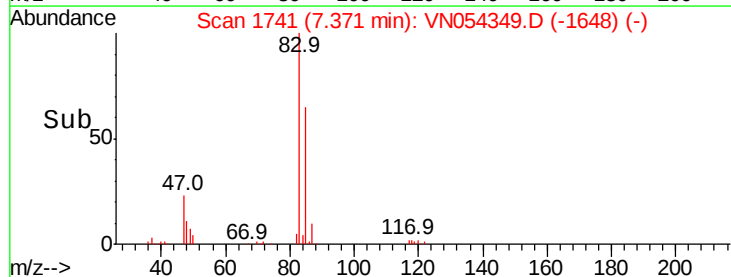
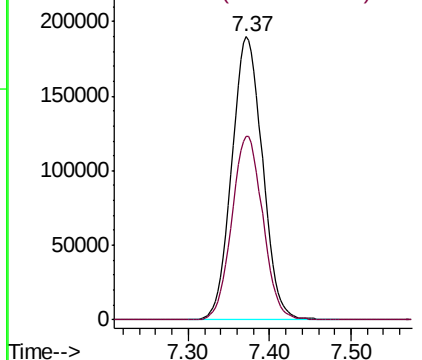


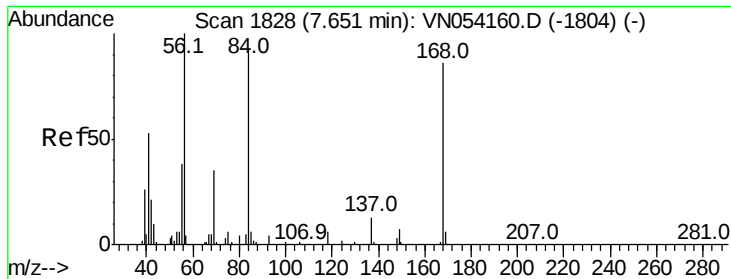
#30
Chloroform
Concen: 21.782 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.2	78.4



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 19.197 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

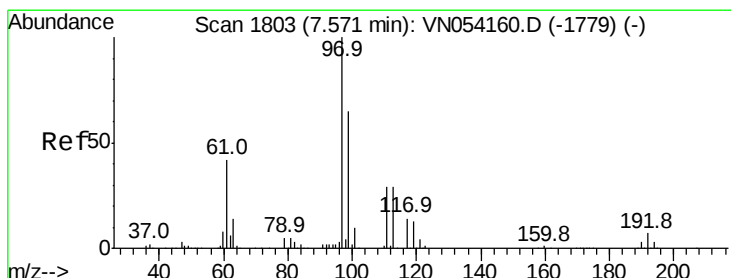
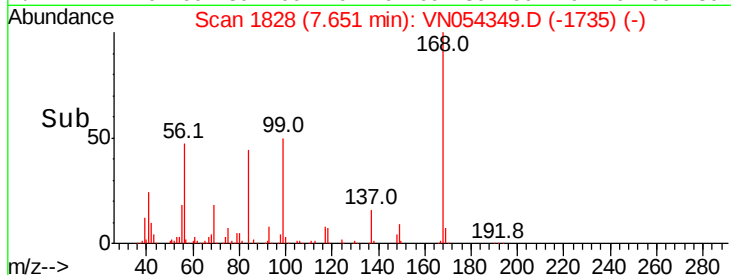
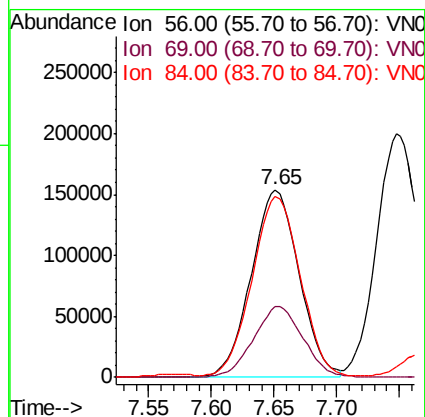
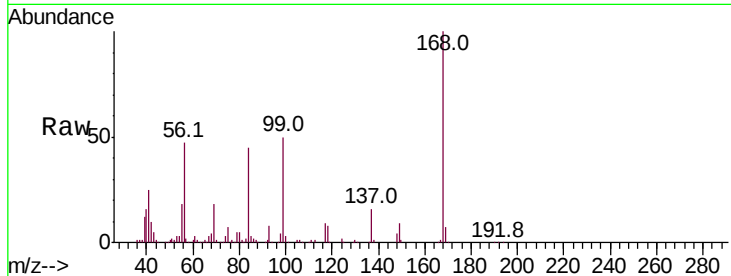
ClientSampleId :

VN0316WBSD01

Tot Ion:	56	Resp:	408837
Ion Ratio	Lower	Upper	
56	100		
69	37.5	27.8	41.6
84	95.0	74.6	111.8

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 20.288 ug/l

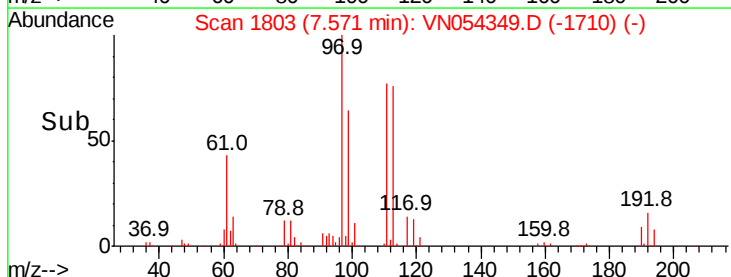
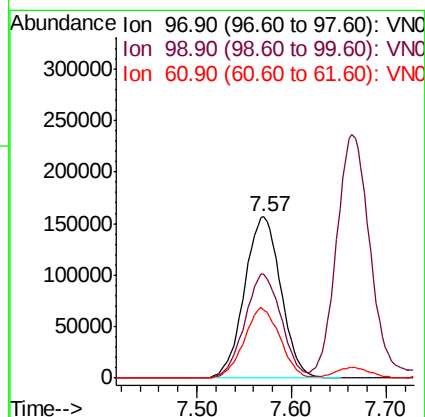
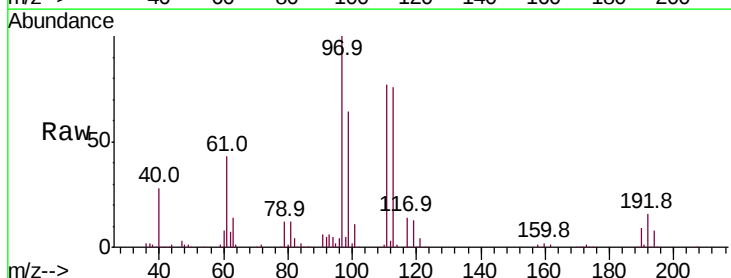
RT: 7.57 min Scan# 1803

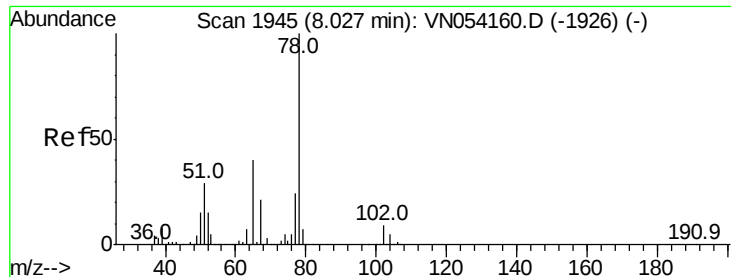
Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Tgt Ion:	97	Resp:	419013
Ion Ratio	Lower	Upper	
97	100		
99	64.3	51.5	77.3
61	42.9	33.6	50.4





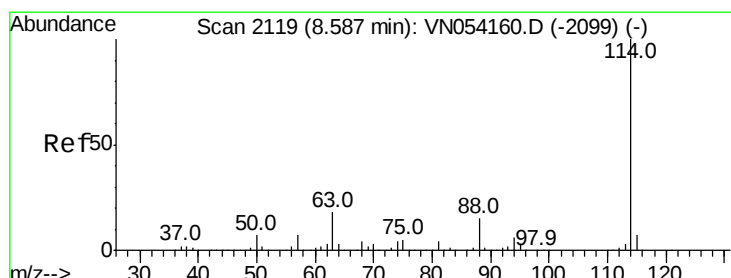
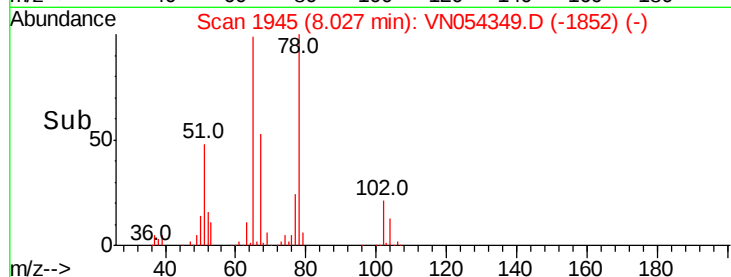
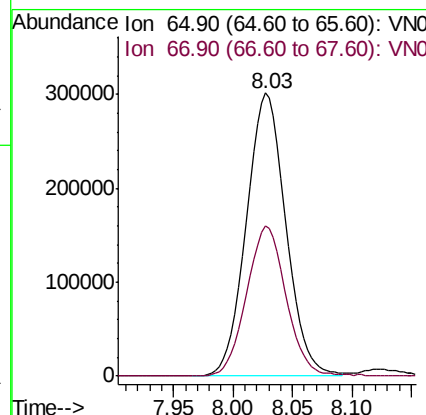
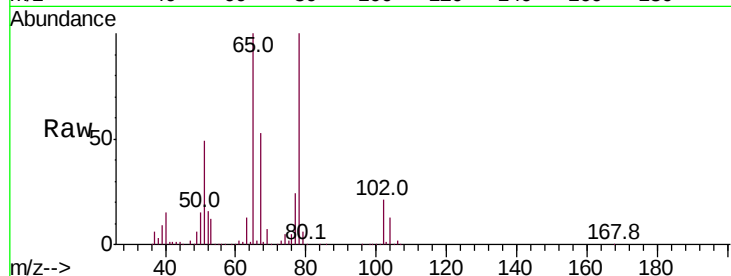
#33
 1,2-Dichloroethane-d4
 Concen: 50.901 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054349.D
 Acq: 16 Mar 2019 20:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	693553		
67	53.0	0.0	104.6	

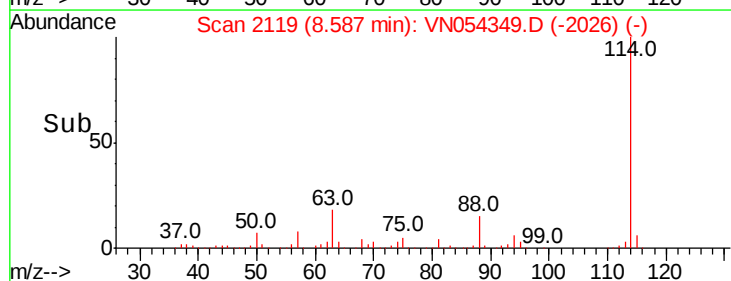
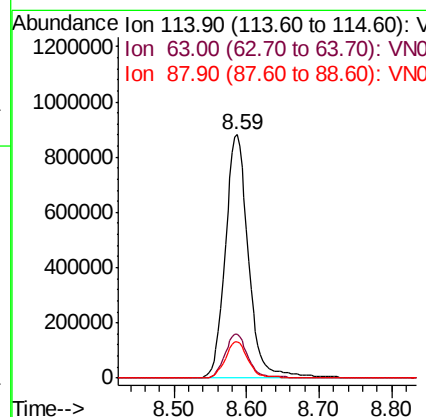
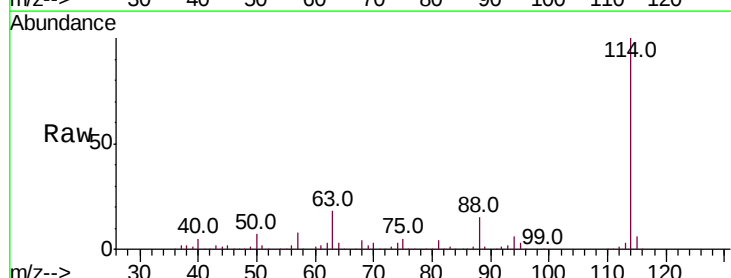
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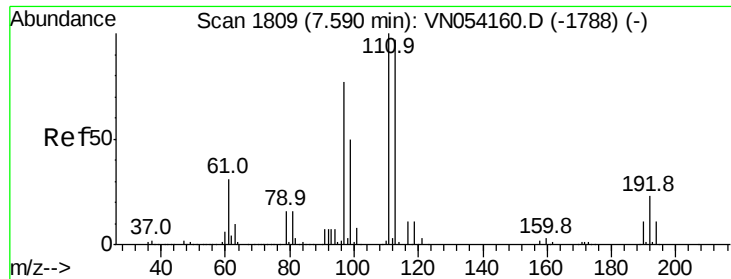
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 3/18/2019 11:31:20 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054349.D
 Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1952453		
63	17.8	0.0	35.2	
88	15.0	0.0	30.2	





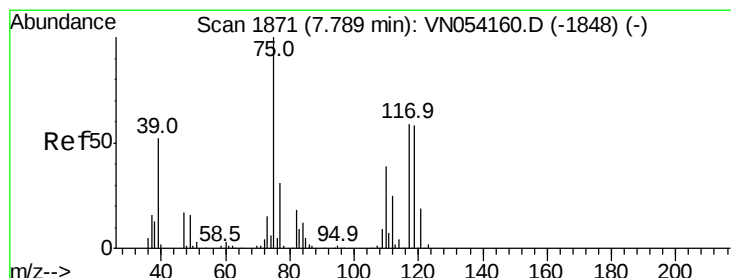
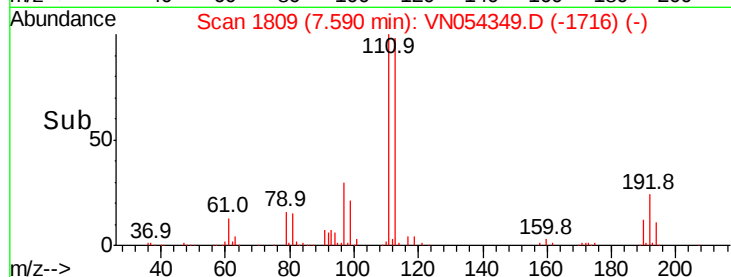
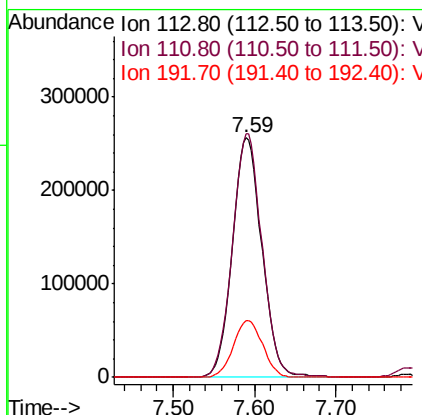
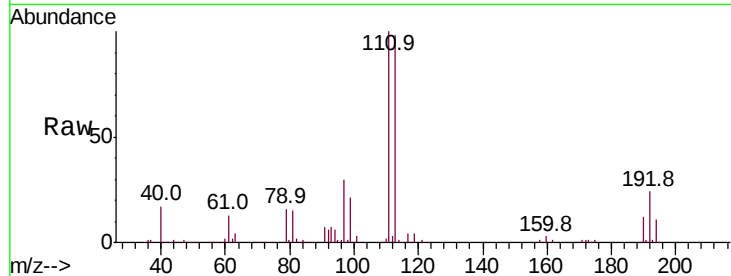
#35
Dibromofluoromethane
Concen: 51.379 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD01

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.2	123.4
192	23.7	19.2	28.8

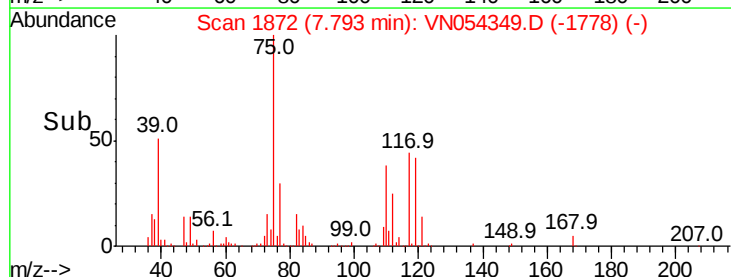
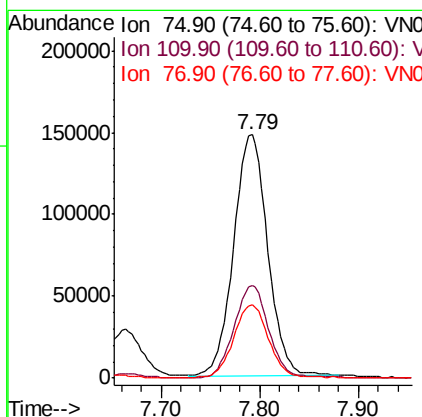
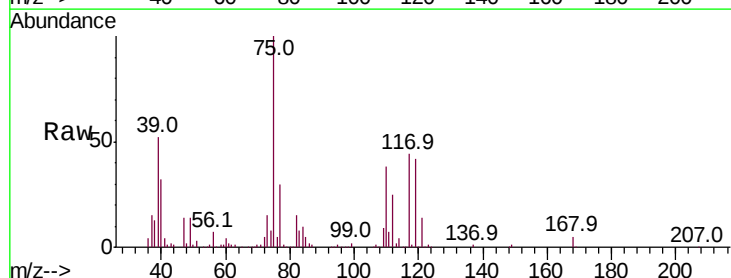
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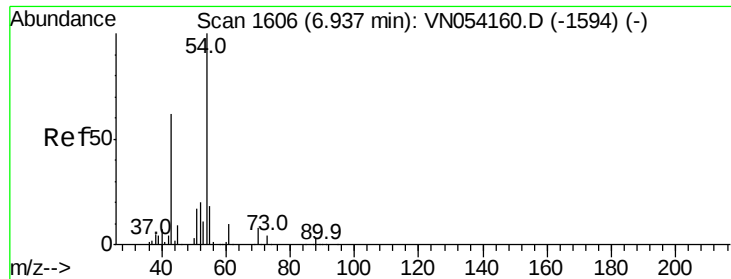
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#36
1,1-Dichloropropene
Concen: 19.793 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Lower	Upper
75	100		
110	38.9	19.1	57.5
77	31.3	25.0	37.4





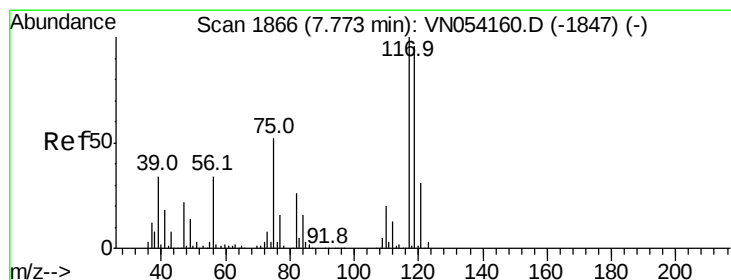
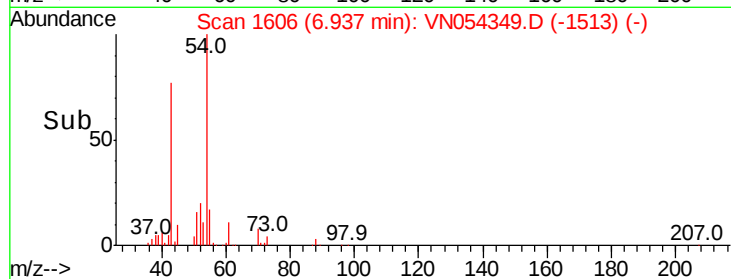
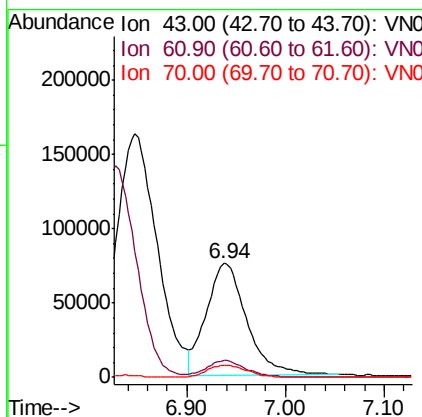
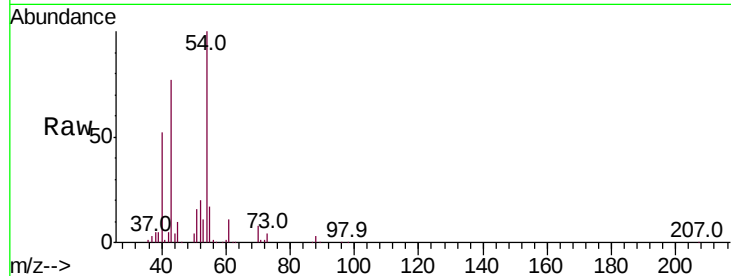
#37
Ethyl Acetate
Concen: 20.851 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.3	11.8	17.6
70	10.4	8.4	12.6

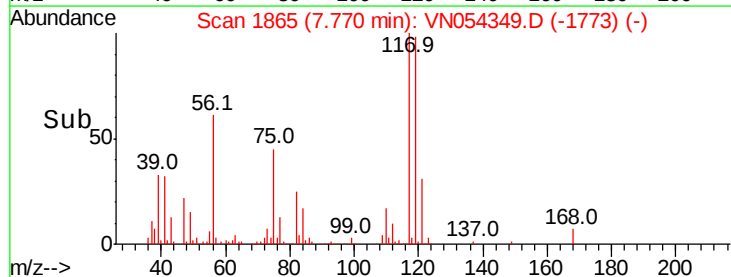
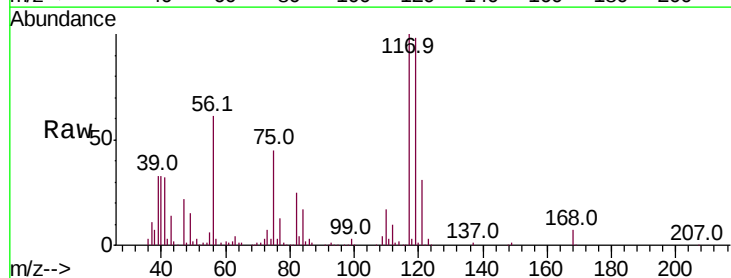
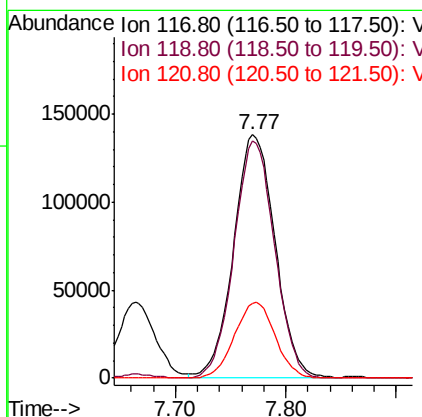
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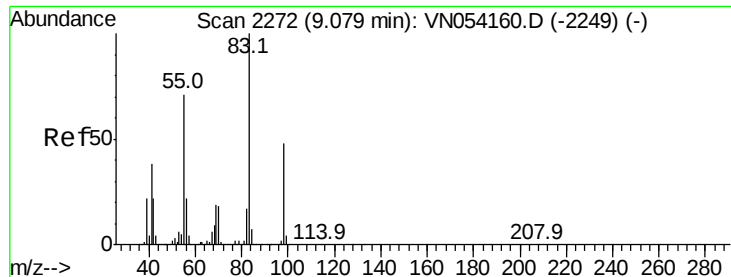
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#38
Carbon Tetrachloride
Concen: 18.974 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.7	76.3	114.5
121	31.0	24.6	36.8





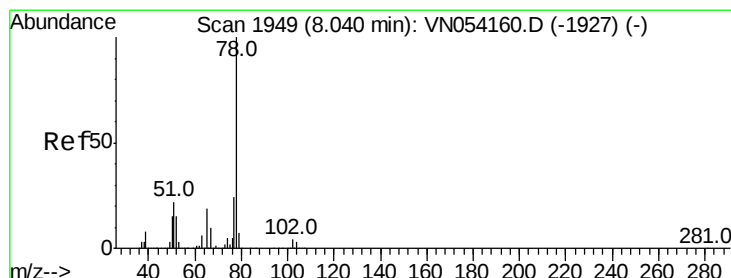
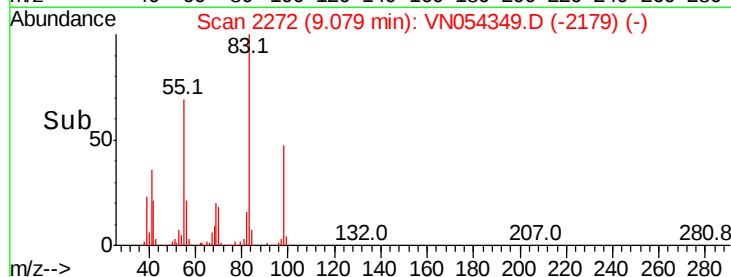
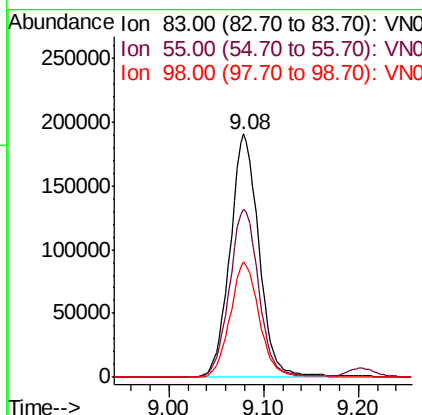
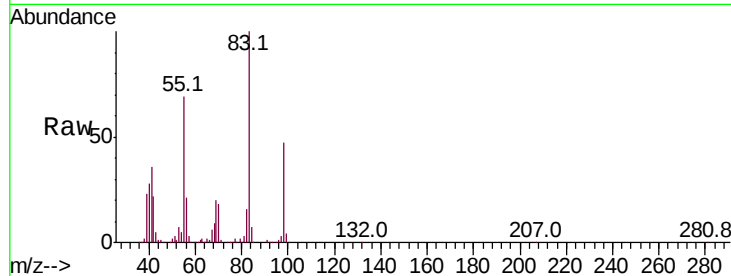
#39
Methvlcvclohexane
Concen: 18.274 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD01

Tot Ion	83	Resp	404280
Ion Ratio	100	Lower	Upper
83	100		
55	69.2	56.6	84.8
98	47.3	38.4	57.6

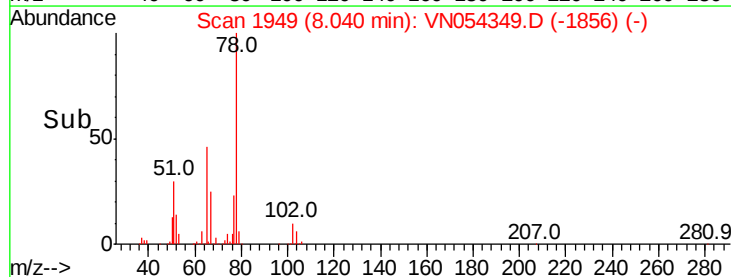
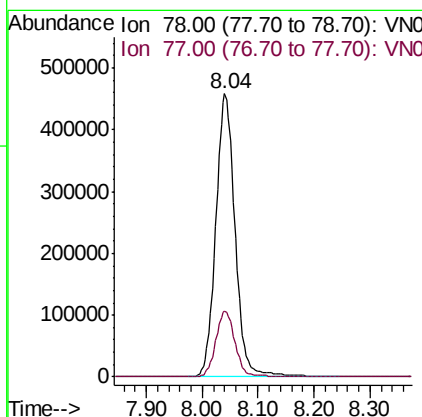
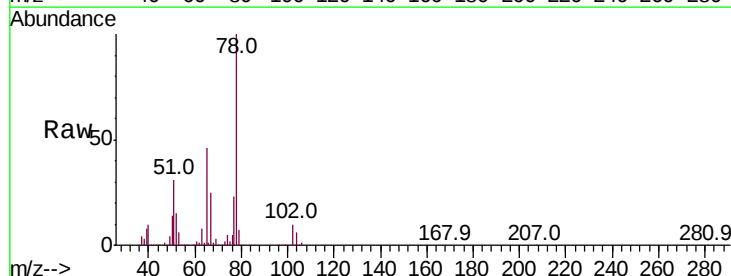
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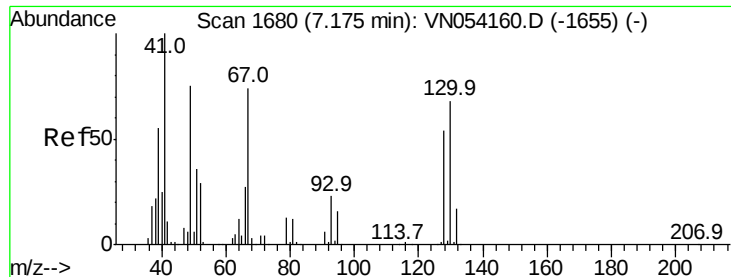
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#40
Benzene
Concen: 21.417 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Tgt Ion	78	Resp	1101964
Ion Ratio	100	Lower	Upper
78	100		
77	23.2	19.1	28.7





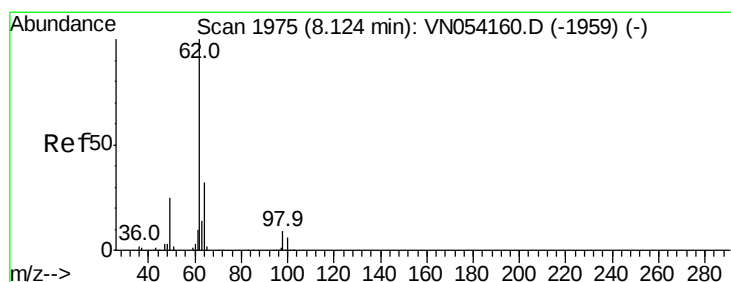
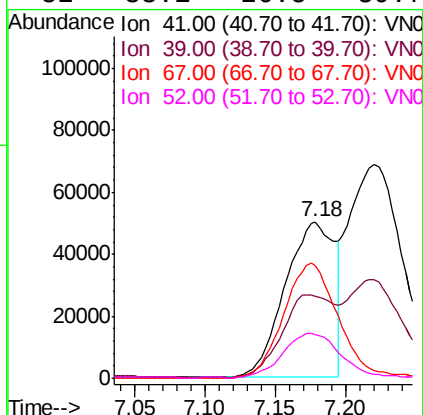
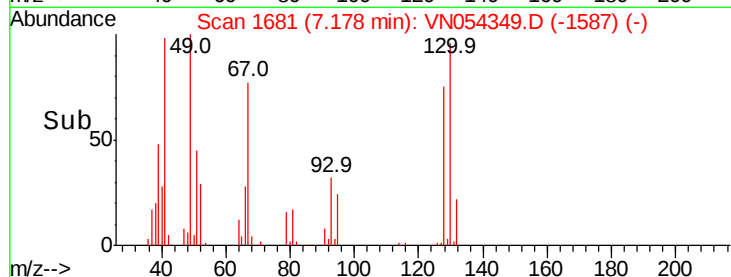
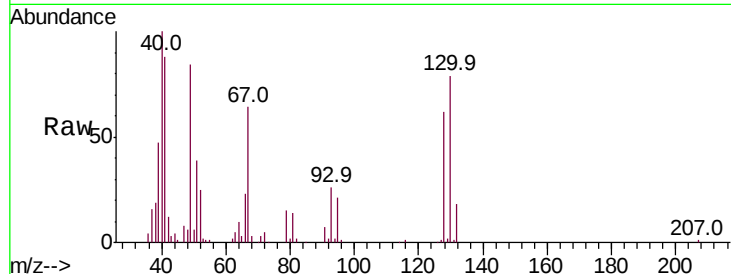
#41
Methacrylonitrile
Concen: 20.905 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampled :
VN0316WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	56.4	46.8	70.2	
67	82.0	67.0	100.4	
52	33.1	26.5	39.7	

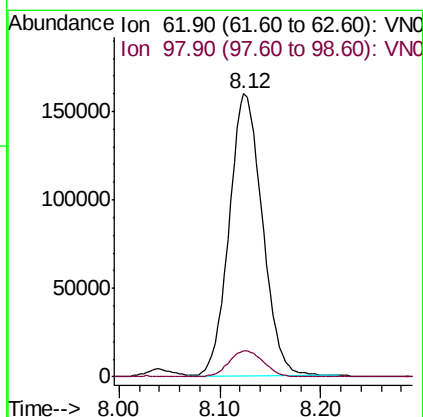
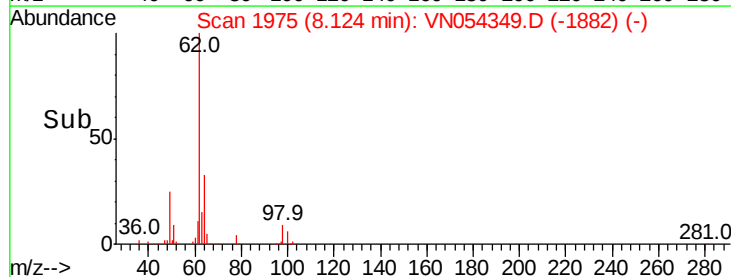
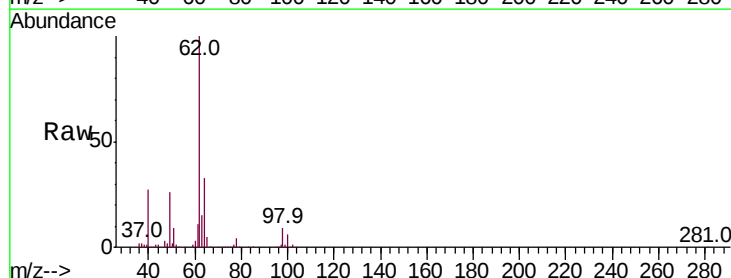
Manual Integrations
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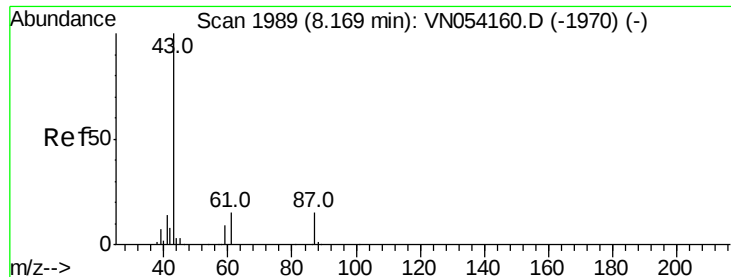
MMDadoda
3/18/2019 11:31:20 AM



#42
1,2-Dichloroethane
Concen: 21.073 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.8	0.0	18.4	





#43

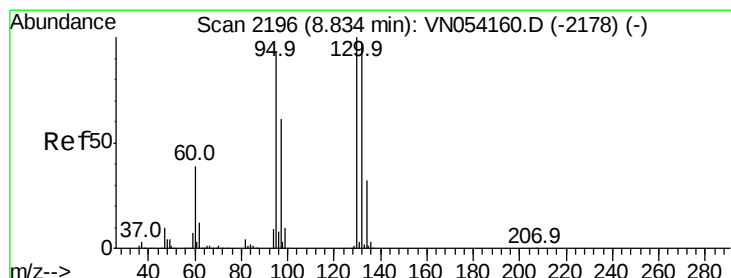
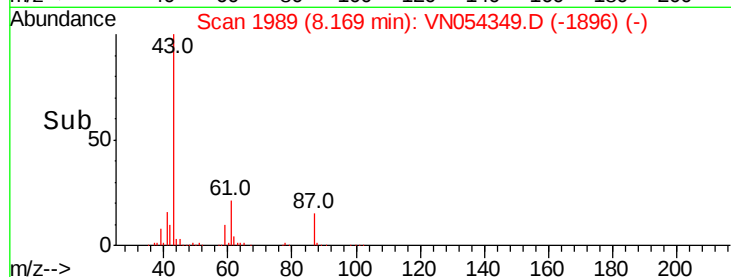
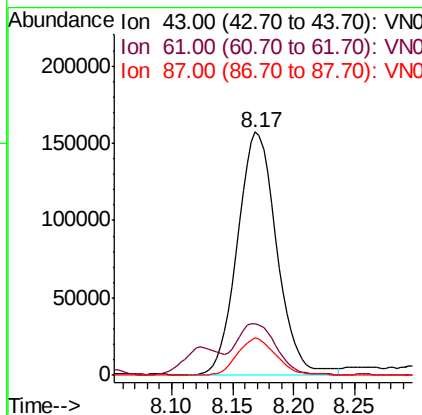
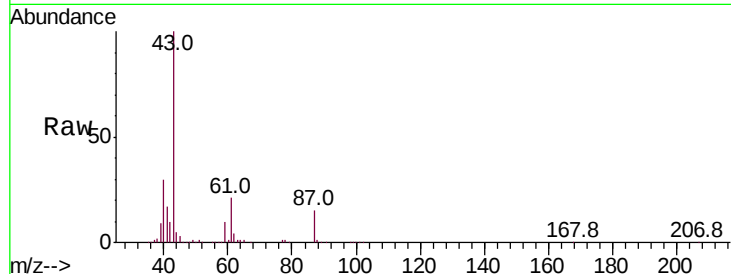
Isopropyl Acetate
 Concen: 19.198 ug/l
 RT: 8.17 min Scan# 1989
 Delta R.T. 0.00 min
 Lab File: VN054349.D
 Acq: 16 Mar 2019 20:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.9	15.8	23.8
87	15.1	12.0	18.0

Manual Integrations
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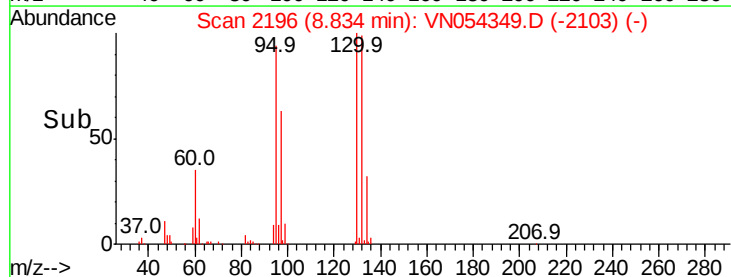
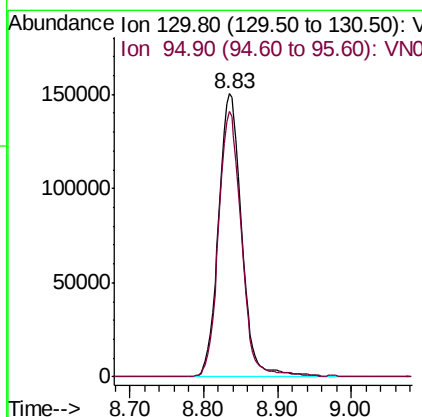
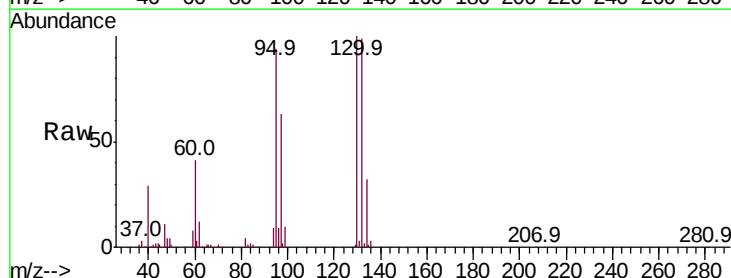
MMDadoda
 3/18/2019 11:31:20 AM

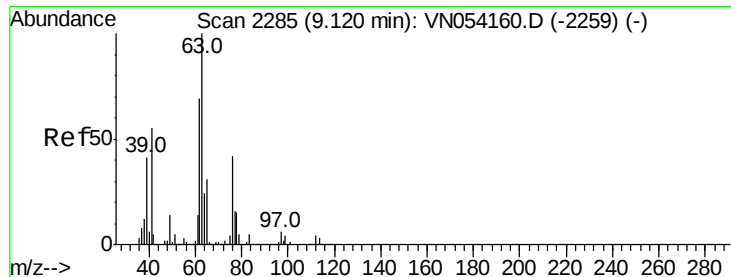


#44

Trichloroethene
 Concen: 20.512 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. 0.00 min
 Lab File: VN054349.D
 Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.9	0.0	185.2





#45

1,2-Dichloropropane

Concen: 21.740 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampled :

VN0316WBSD01

Tot Ion: 63 Resp: 277755

Ion Ratio Lower Upper

63 100

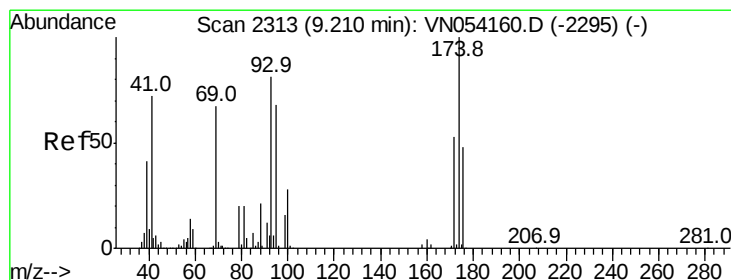
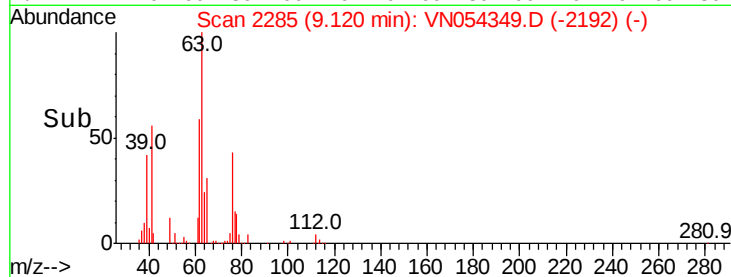
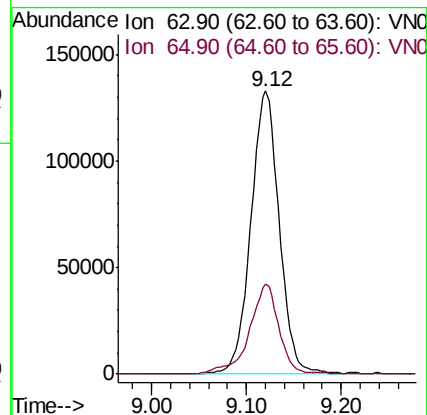
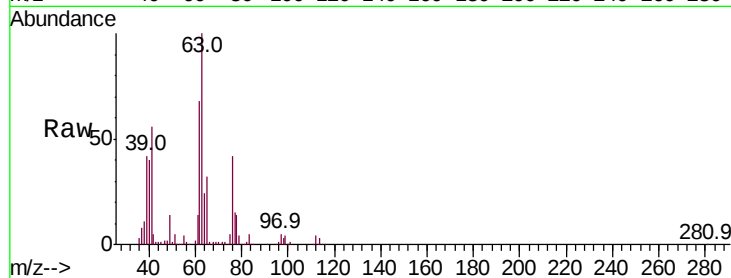
65 32.0 25.0 37.6

Manual Integrations

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3/18/2019 11:31:20 AM



#46

Dibromomethane

Concen: 21.605 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

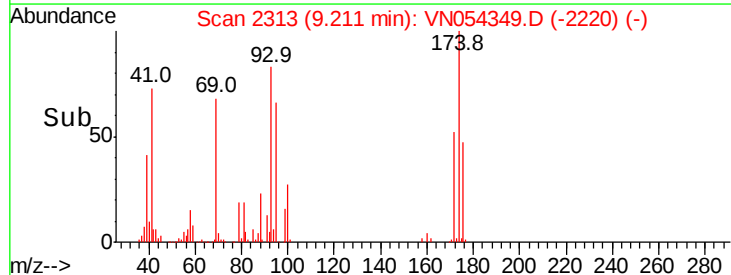
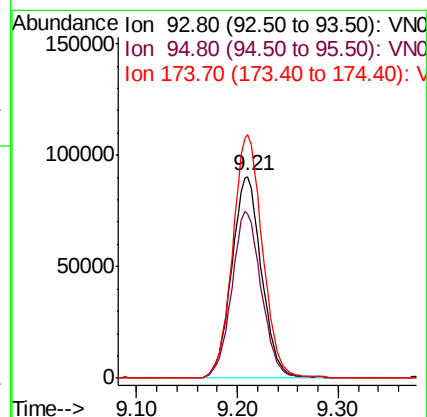
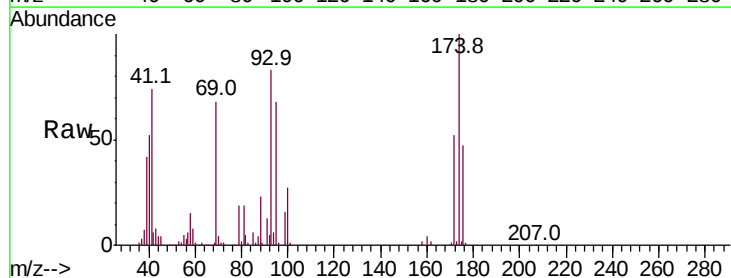
Tgt Ion: 93 Resp: 186499

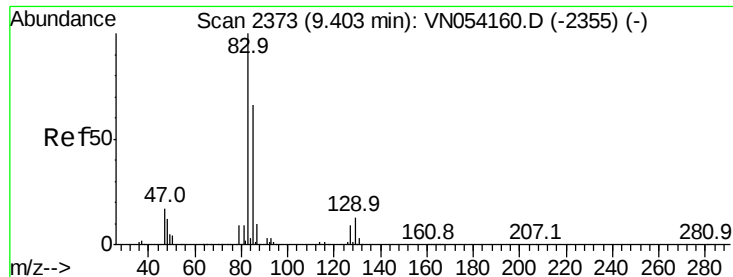
Ion Ratio Lower Upper

93 100

95 81.8 66.7 100.1

174 120.7 98.5 147.7





#47

Bromodichloromethane

Concen: 20.167 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

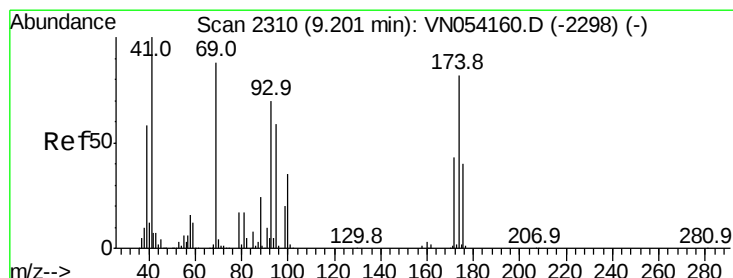
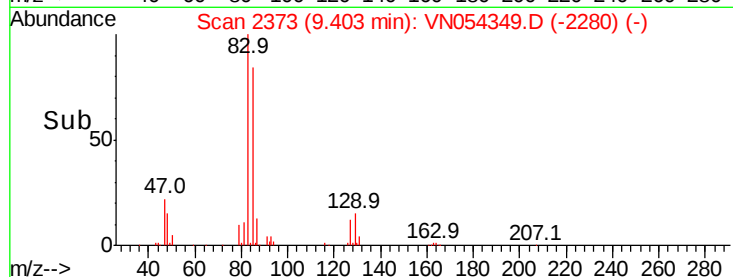
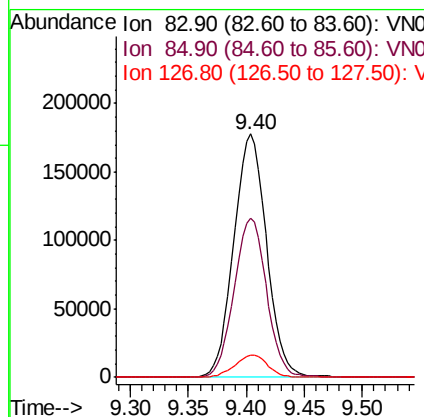
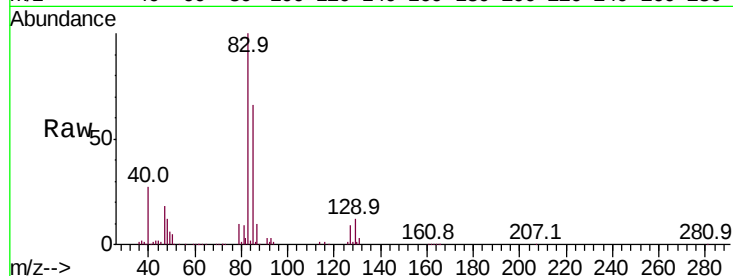
ClientSampleId :

VN0316WBSD01

Tot Ion:	83	Resp:	349002
Ion Ratio	Lower	Upper	
83	100		
85	65.5	52.8	79.2
127	9.1	7.4	11.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 20.800 ug/l

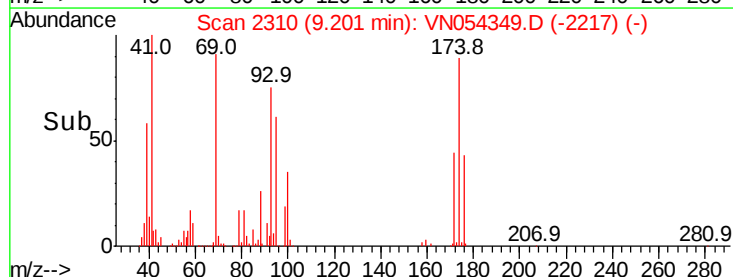
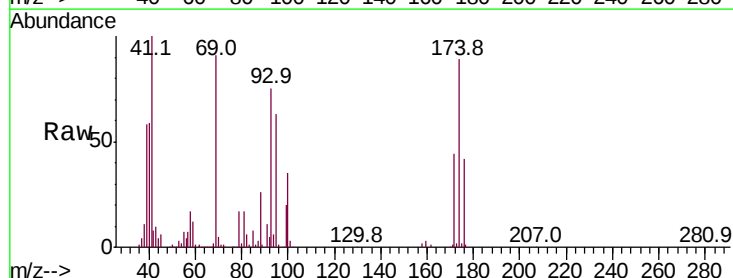
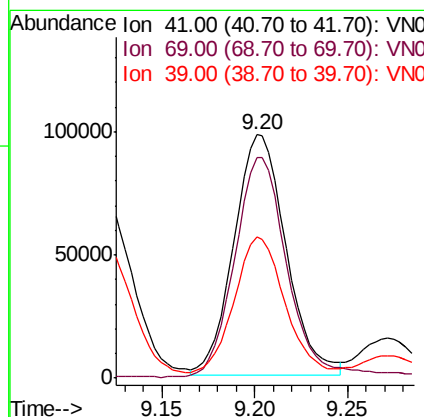
RT: 9.20 min Scan# 2310

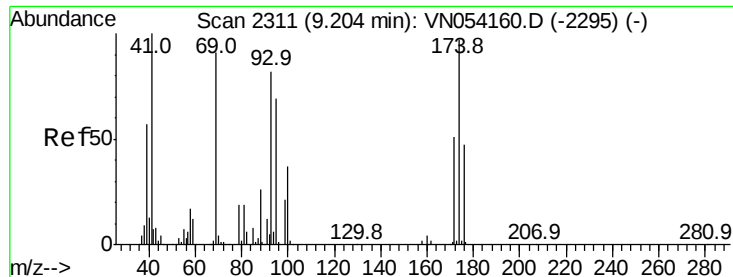
Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Tgt Ion:	41	Resp:	191424
Ion Ratio	Lower	Upper	
41	100		
69	93.1	72.6	108.8
39	57.7	47.5	71.3





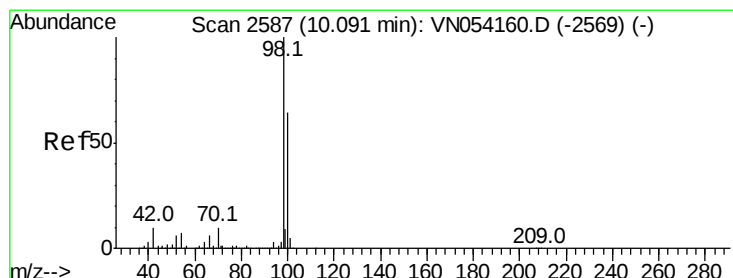
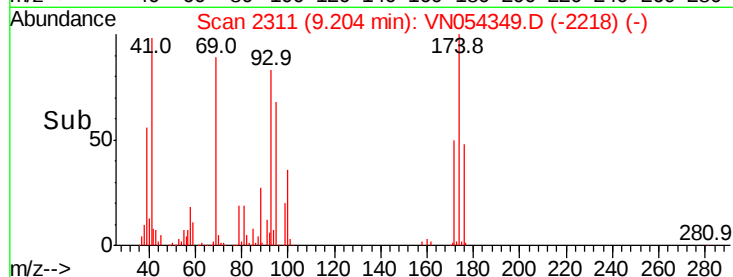
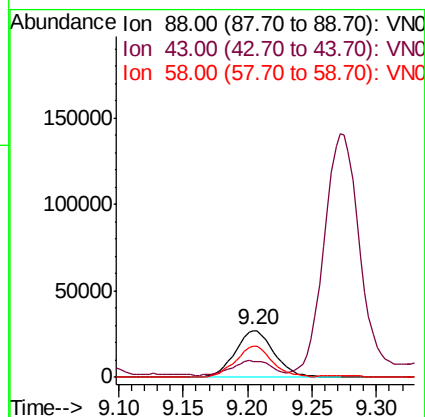
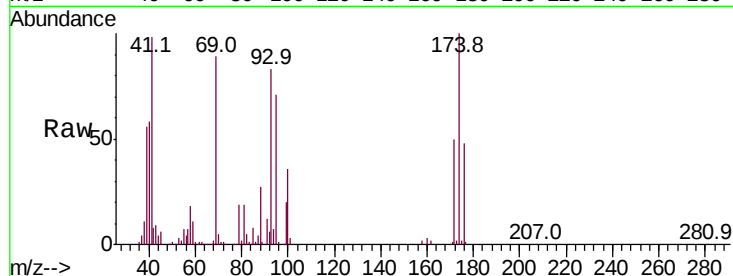
#49
1,4-Dioxane
Concen: 437.600 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.6	24.1	36.1
58	62.6	50.8	76.2

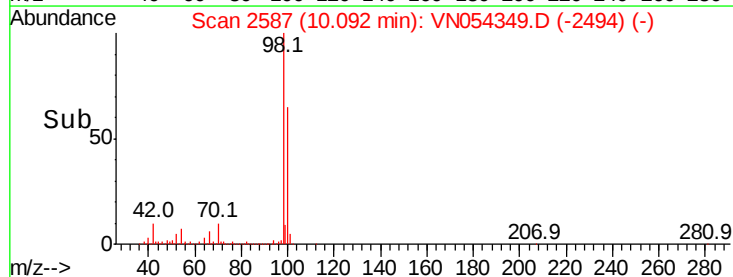
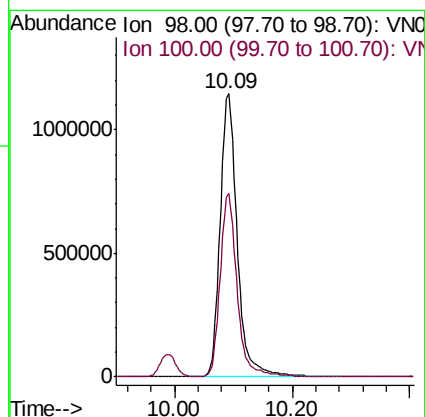
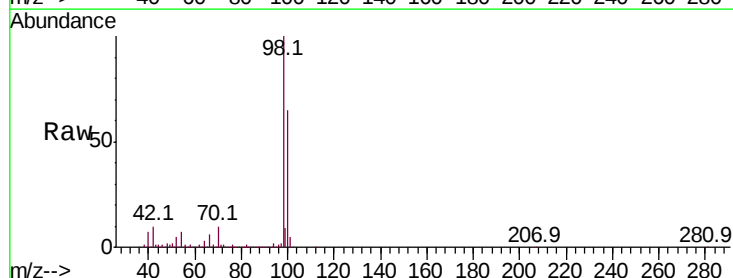
Manual Integrations
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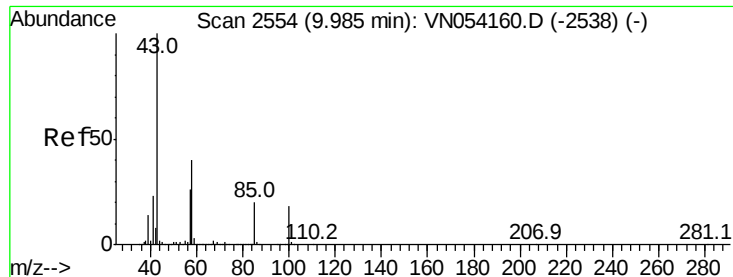
MMDadoda
3/18/2019 11:31:20 AM



#50
Toluene-d8
Concen: 49.549 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 107.009 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD01

Tot Ion: 43 Resp: 1026947

Ion Ratio Lower Upper

43 100

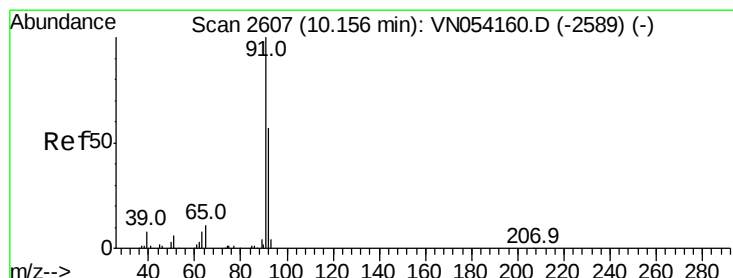
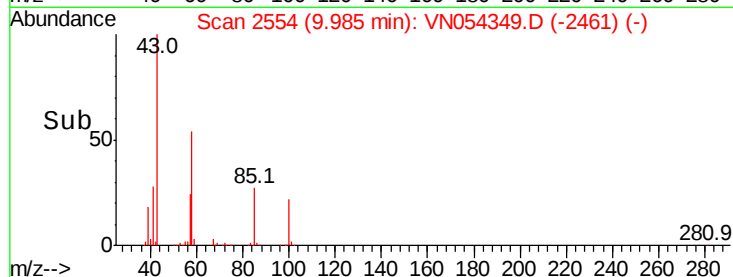
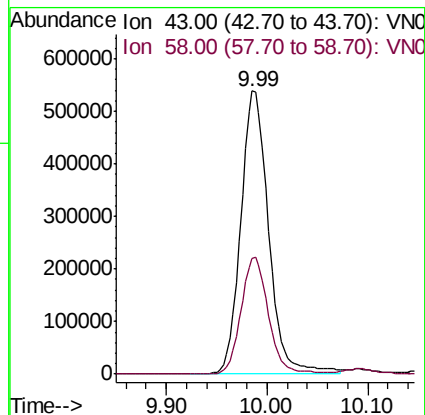
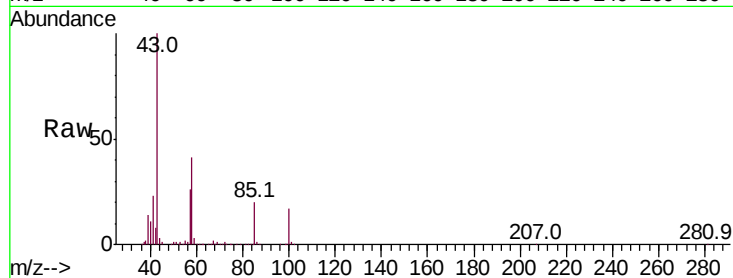
58 40.9 31.8 47.6

Manual Integrations

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#52

Toluene

Concen: 20.950 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054349.D

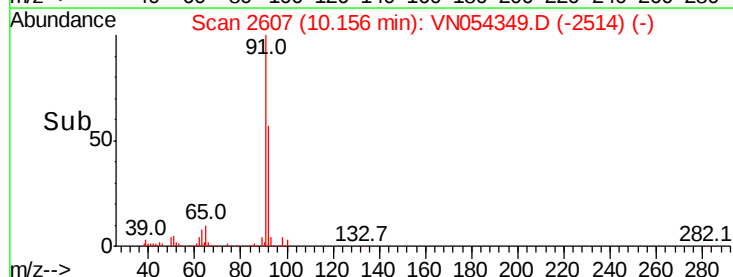
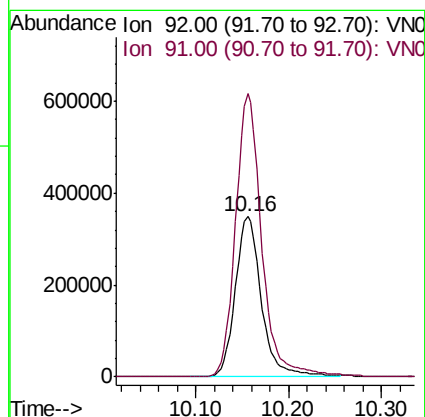
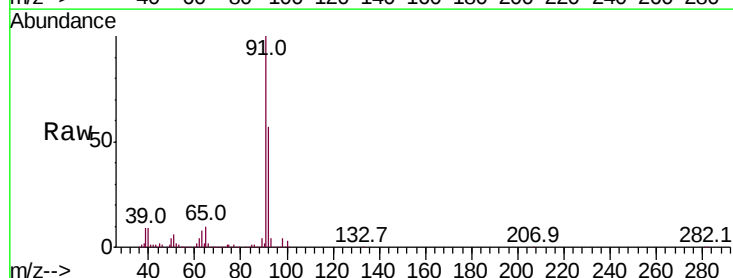
Acq: 16 Mar 2019 20:52

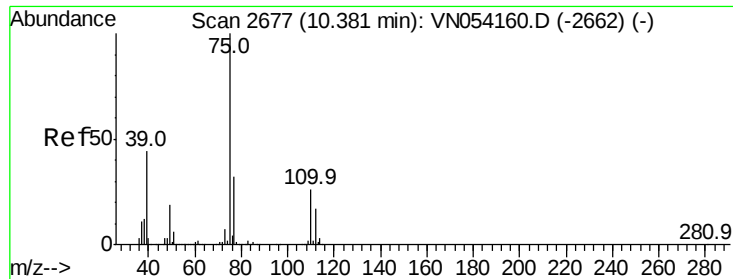
Tgt Ion: 92 Resp: 683476

Ion Ratio Lower Upper

92 100

91 177.3 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 16.610 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampled :

VN0316WBSD01

Tot Ion: 75 Resp: 301433

Ion Ratio Lower Upper

75 100

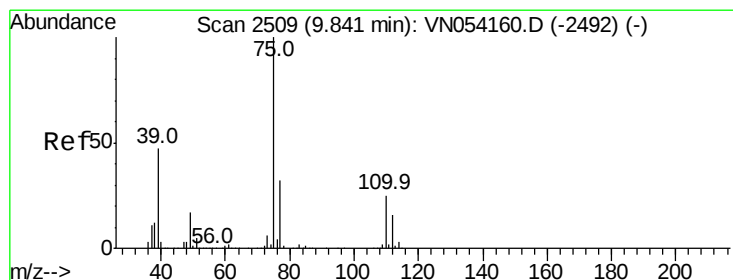
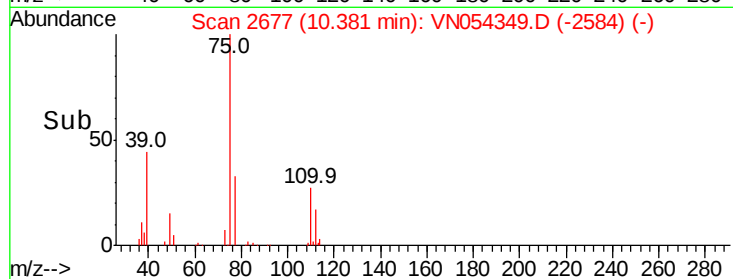
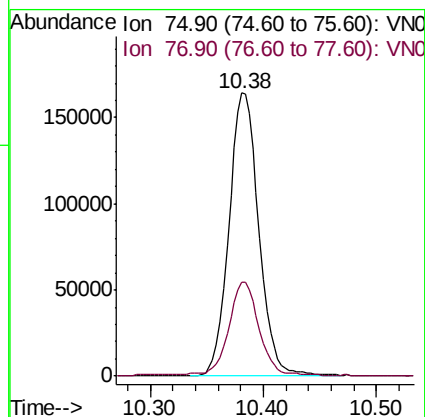
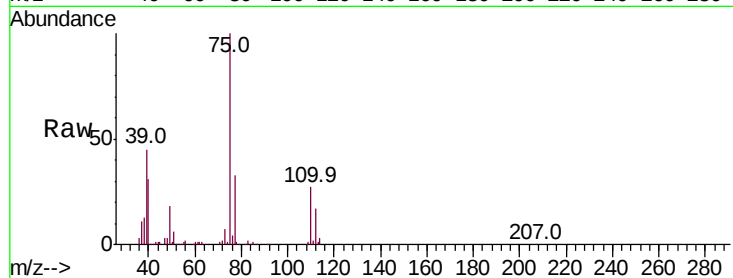
77 32.7 25.8 38.8

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 18.764 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

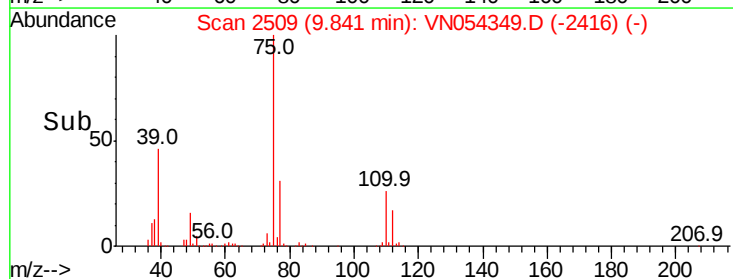
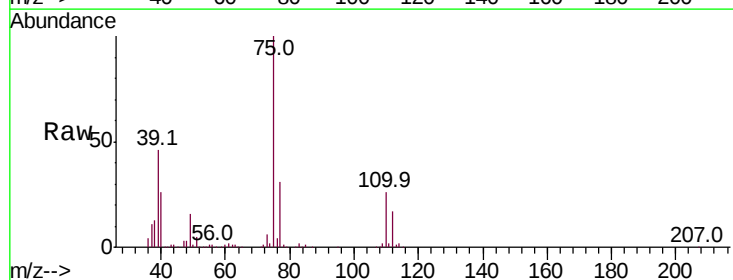
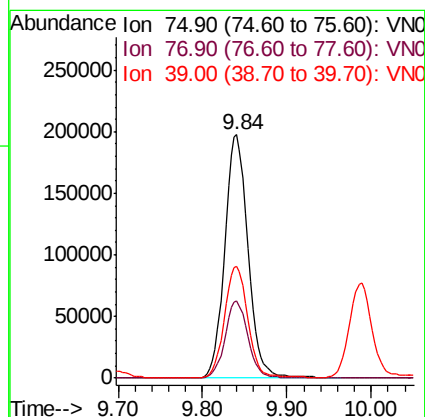
Tgt Ion: 75 Resp: 378397

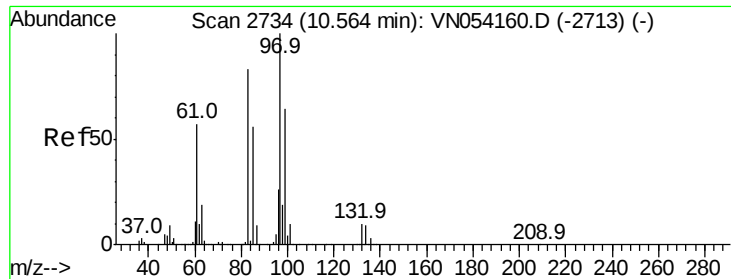
Ion Ratio Lower Upper

75 100

77 31.5 25.4 38.0

39 46.0 37.2 55.8





#55

1,1,2-Trichloroethane

Concen: 21.717 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

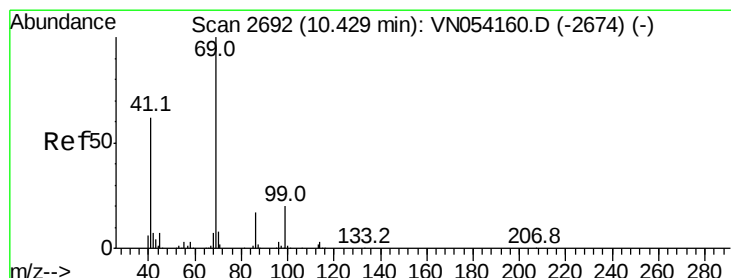
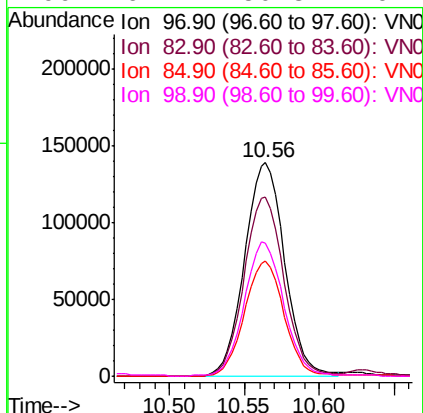
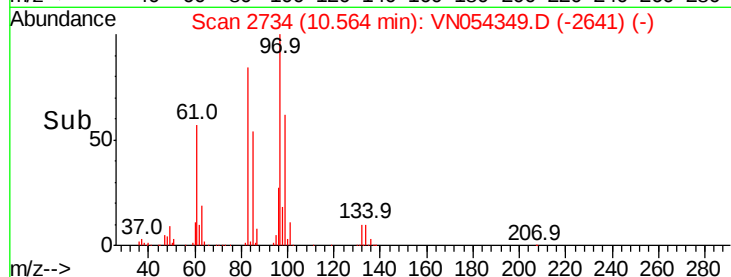
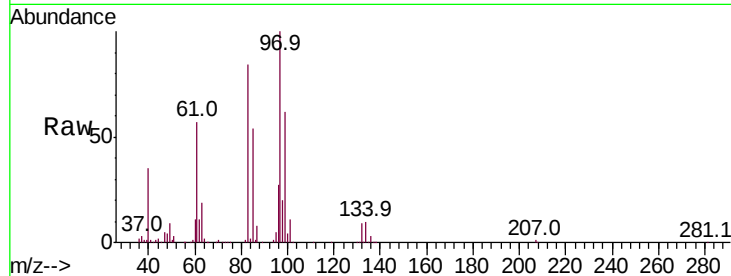
ClientSampleId :

VN0316WBSD01

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.0	66.6	100.0
85	53.8	44.4	66.6
99	62.1	50.8	76.2

Manual Integrations
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#56

Ethyl methacrylate

Concen: 20.887 ug/l

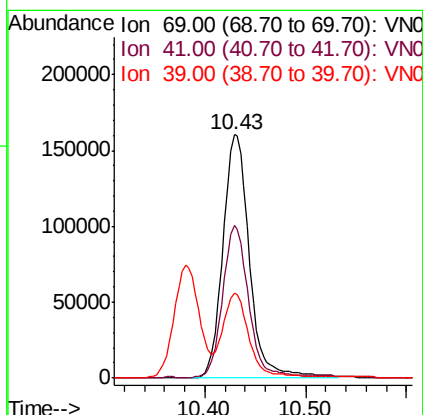
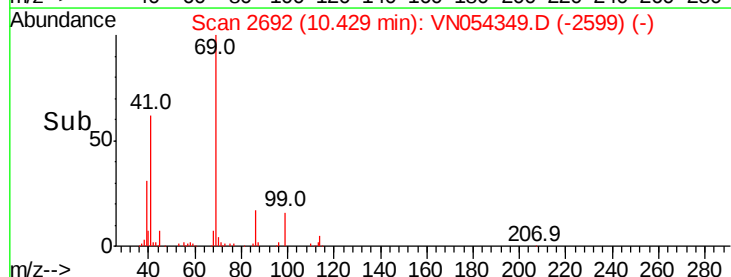
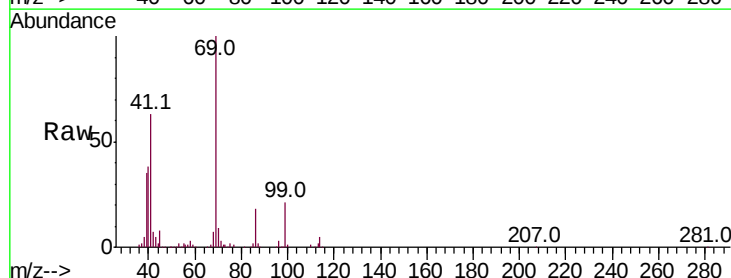
RT: 10.43 min Scan# 2692

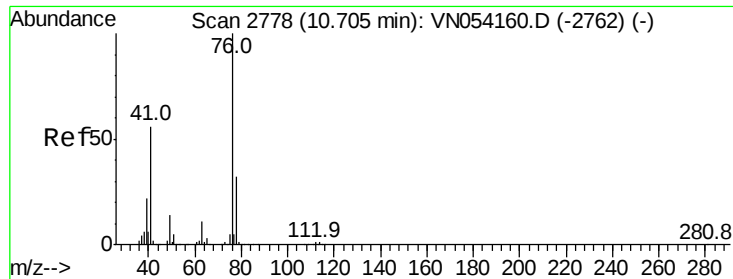
Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Lower	Upper
69	100		
41	60.0	49.4	74.2
39	34.1	28.3	42.5





#57

1,3-Dichloropropane

Concen: 21.611 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampled :

VN0316WBSD01

Tot Ion: 76 Resp: 420948

Ion Ratio Lower Upper

76 100

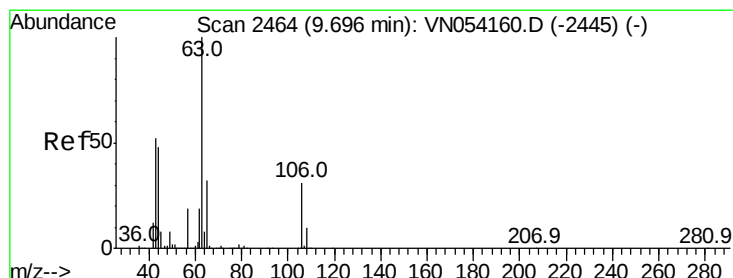
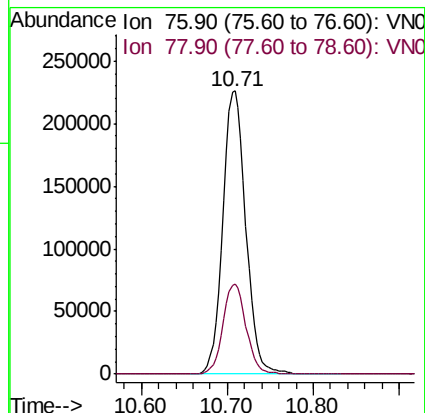
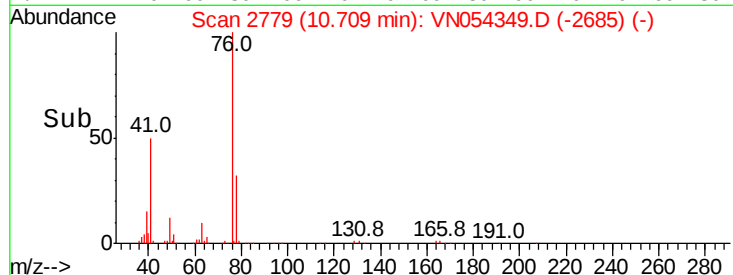
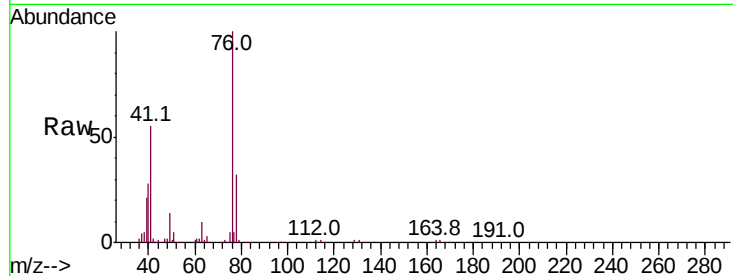
78 32.2 25.7 38.5

Manual Integrations

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3/18/2019 11:31:20 AM



#58

2-Chloroethyl Vinyl ether

Concen: 99.359 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054349.D

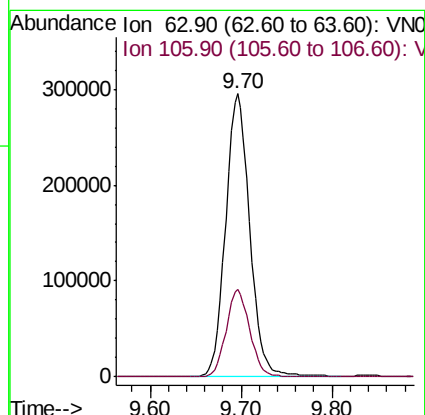
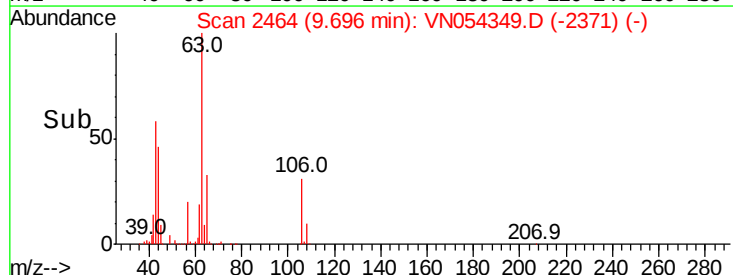
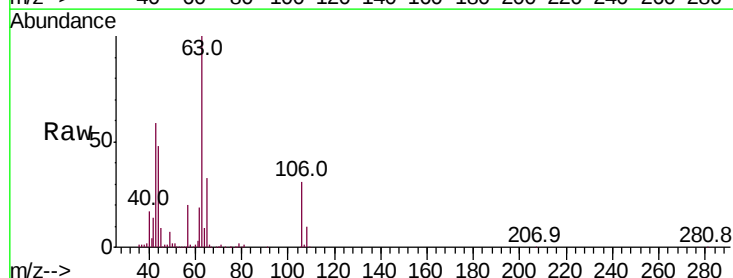
Acq: 16 Mar 2019 20:52

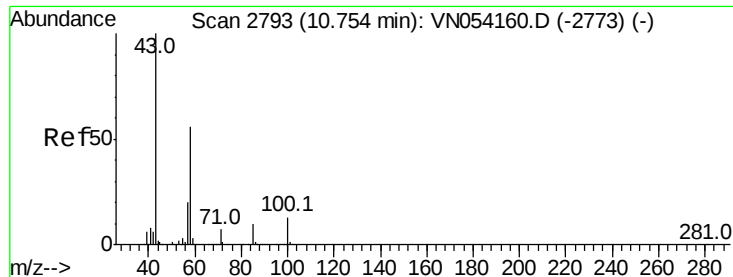
Tgt Ion: 63 Resp: 545286

Ion Ratio Lower Upper

63 100

106 30.1 24.4 36.6





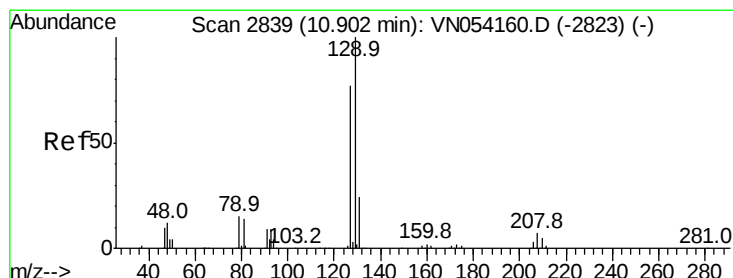
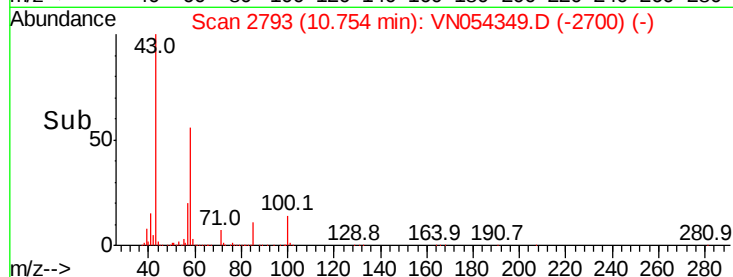
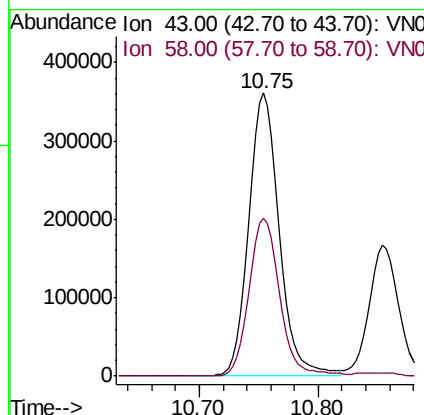
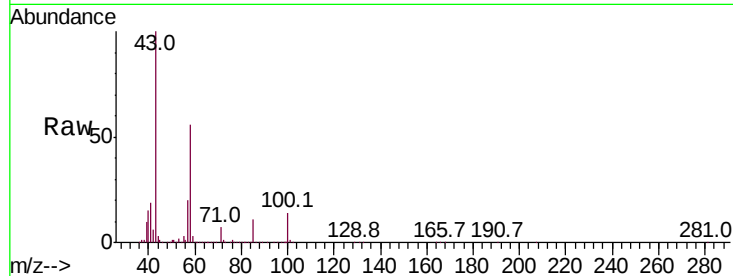
#59
2-Hexanone
Concen: 99.780 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.6	28.0	83.9

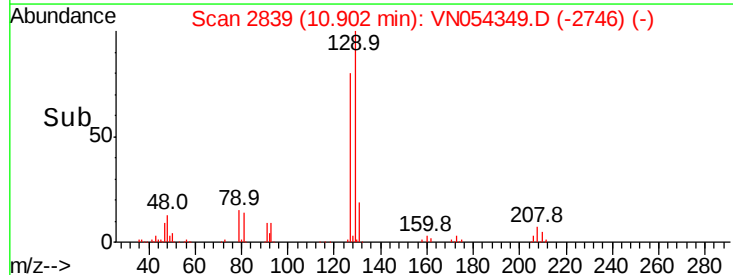
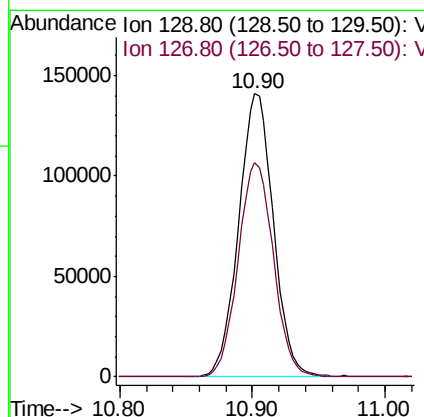
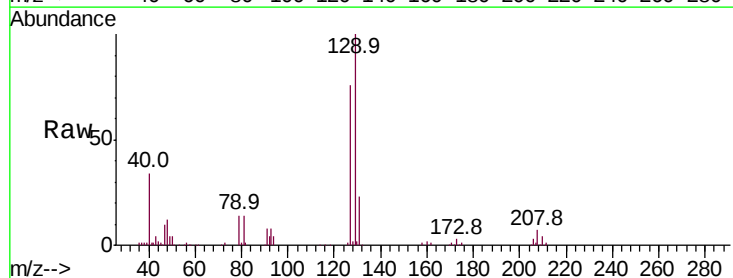
Manual Integrations
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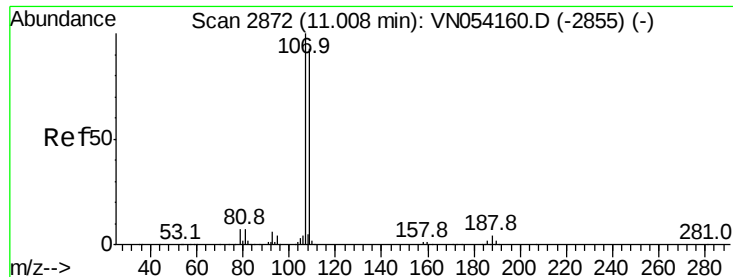
MMDadoda
3/18/2019 11:31:20 AM



#60
Dibromochloromethane
Concen: 19.170 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.6	115.8





#61

1,2-Dibromoethane

Concen: 20.920 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD01

Tot Ion:107 Resp: 253252

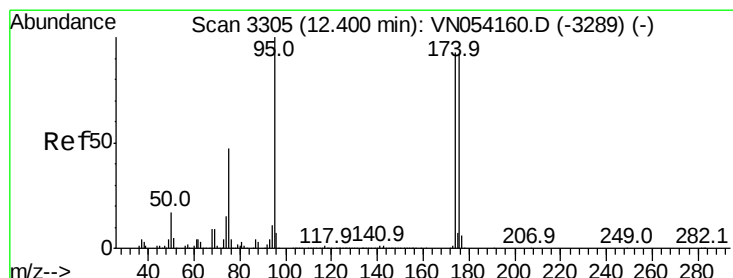
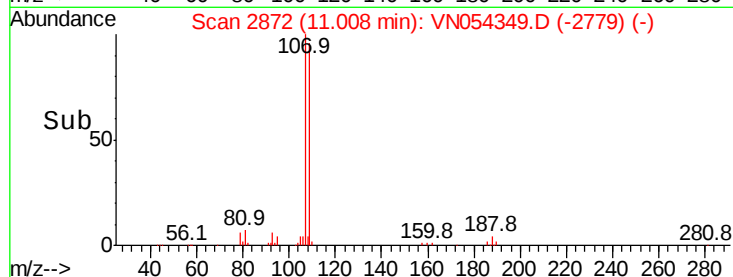
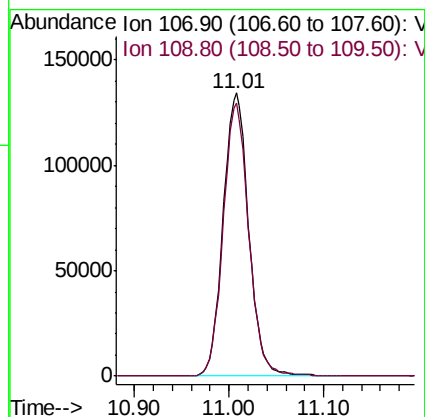
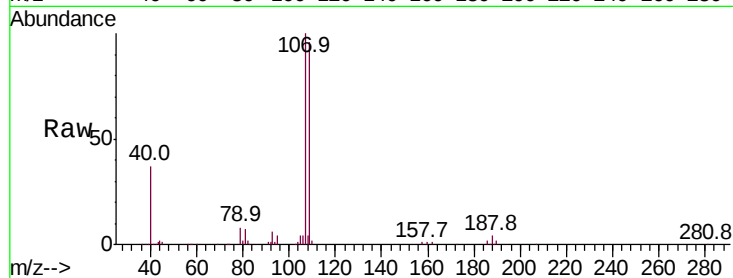
Ion Ratio Lower Upper

107 100

109 96.0 75.9 113.9

Manual Integrations
APPROVED

MMDadoda
3/18/2019 11:31:20 AM



#62

4-Bromofluorobenzene

Concen: 47.482 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

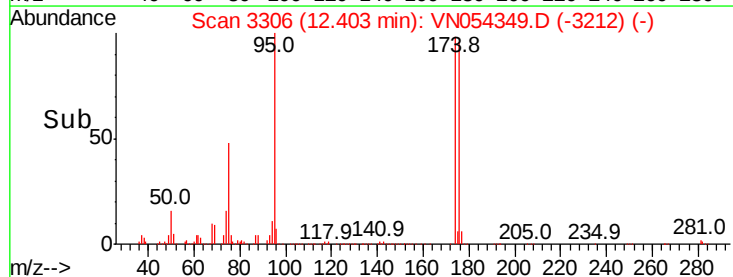
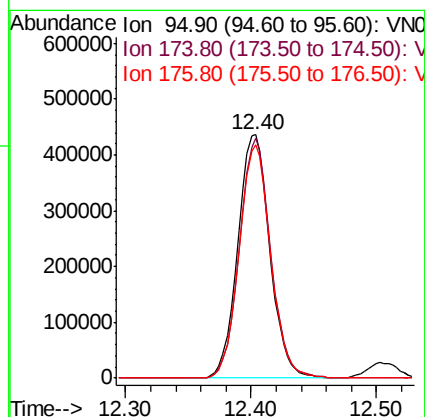
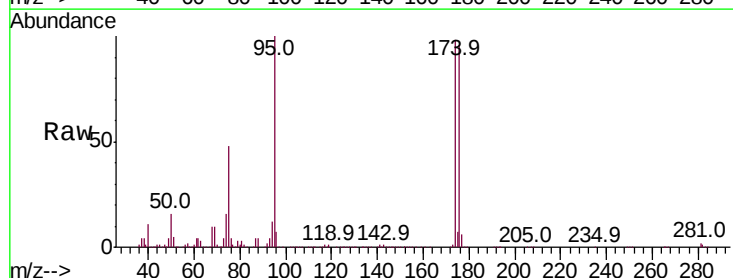
Tgt Ion: 95 Resp: 772653

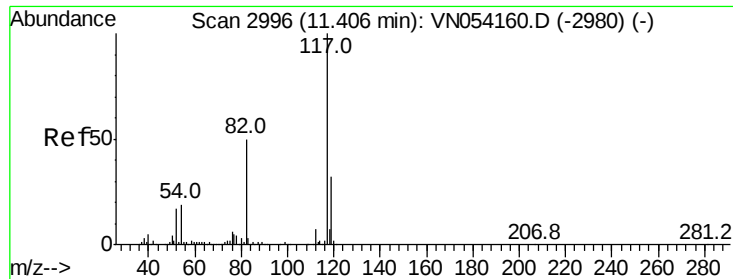
Ion Ratio Lower Upper

95 100

174 96.2 0.0 191.0

176 94.5 0.0 187.4





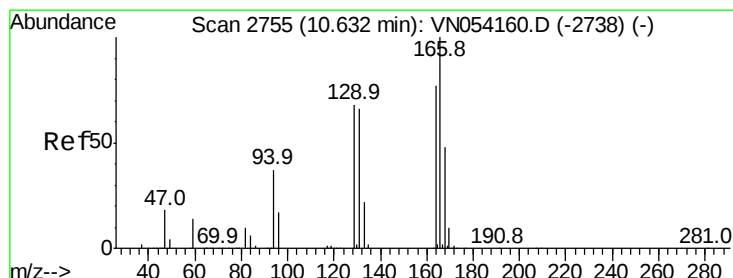
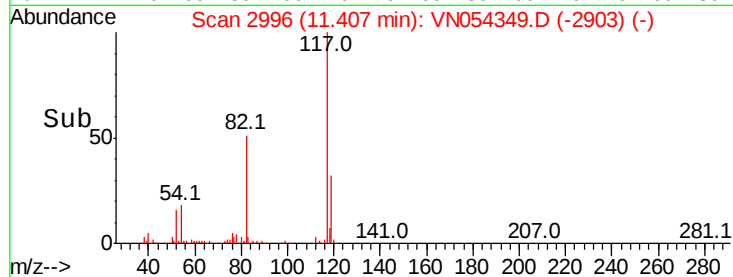
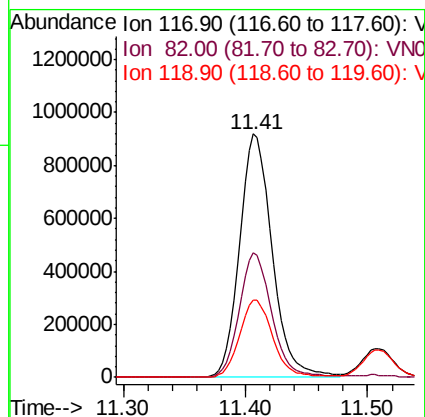
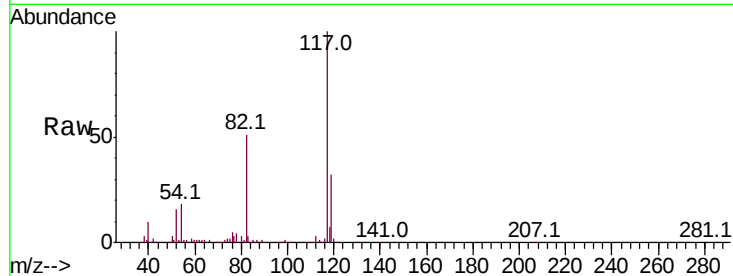
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD01

Tot Ion:117 Resp: 1698639
Ion Ratio Lower Upper
117 100
82 51.0 40.0 60.0
119 31.8 25.8 38.6

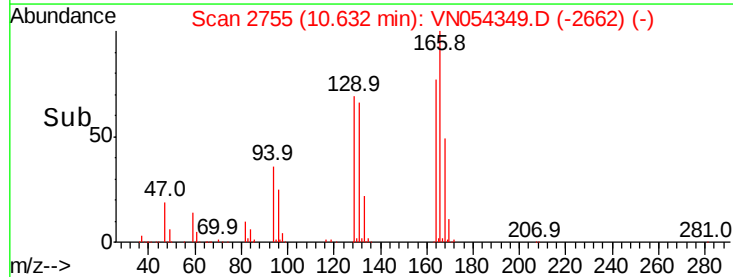
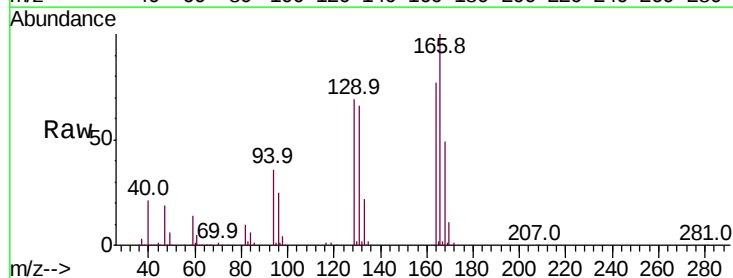
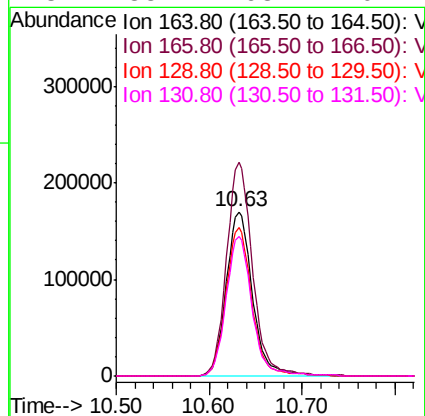
Manual Integrations
APPROVED

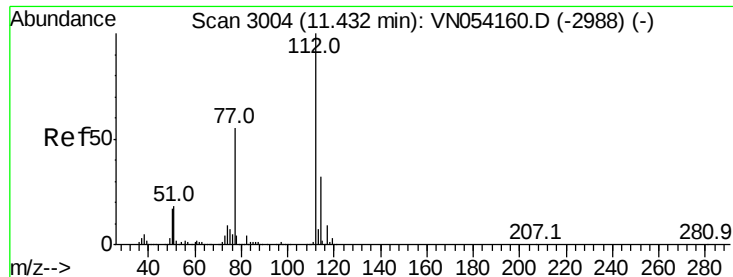
MMDadoda
3/18/2019 11:31:20 AM



#64
Tetrachloroethene
Concen: 20.356 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Tgt Ion:164 Resp: 334307
Ion Ratio Lower Upper
164 100
166 130.1 103.9 155.9
129 90.1 71.1 106.7
131 85.4 68.2 102.4





#65

Chlorobenzene

Concen: 21.081 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD01

Tot Ion:112 Resp: 786278

Ion Ratio Lower Upper

112 100

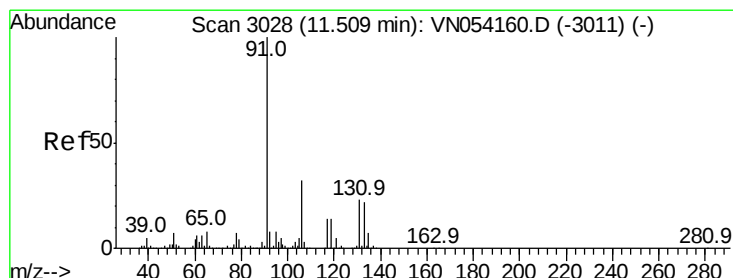
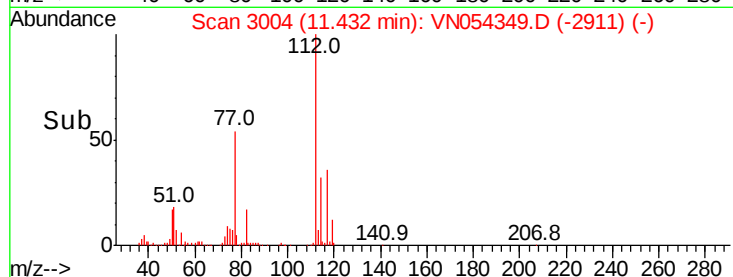
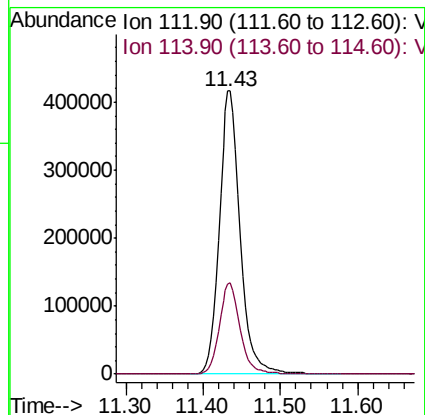
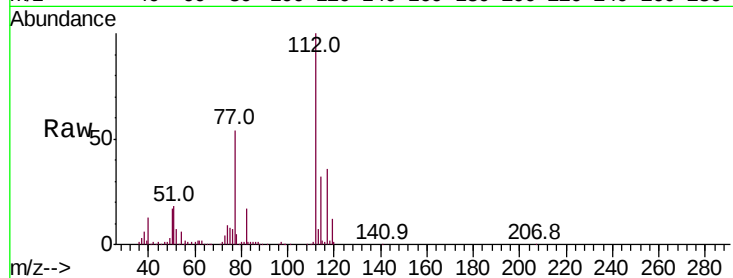
114 32.0 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

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#66

1,1,1,2-Tetrachloroethane

Concen: 20.590 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

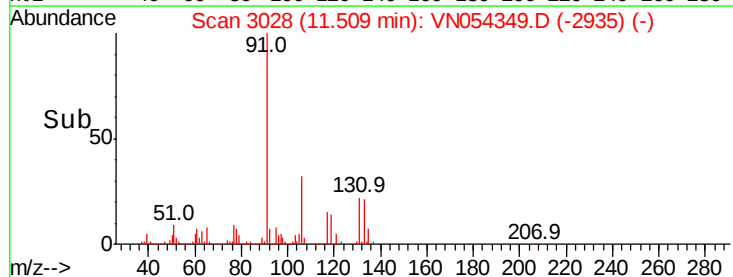
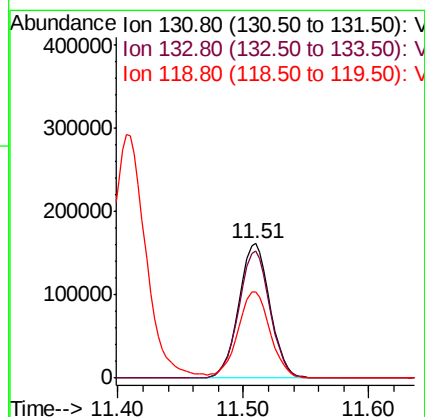
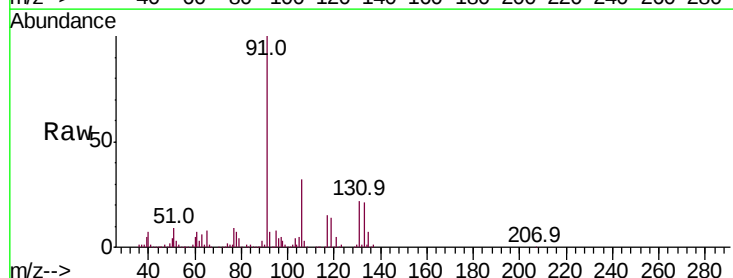
Tgt Ion:131 Resp: 278977

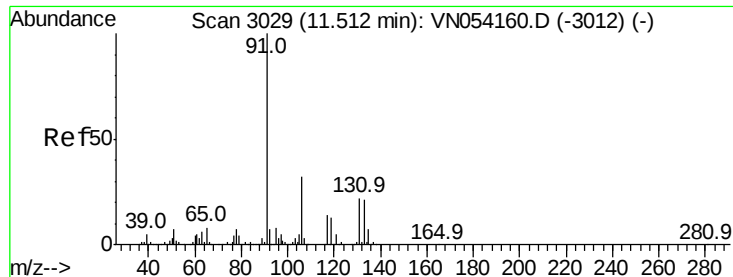
Ion Ratio Lower Upper

131 100

133 94.7 47.6 142.9

119 67.0 32.4 97.0





#67

Ethyl Benzene

Concen: 20.906 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD01

Tot Ion: 91 Resp: 1292574

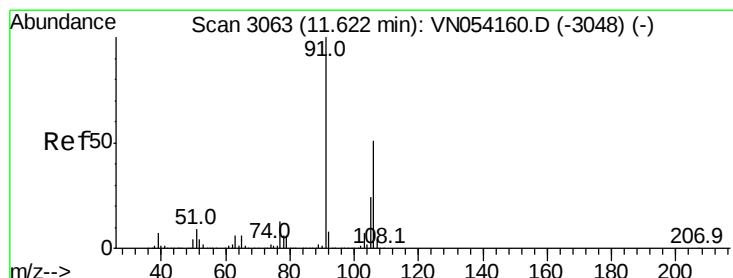
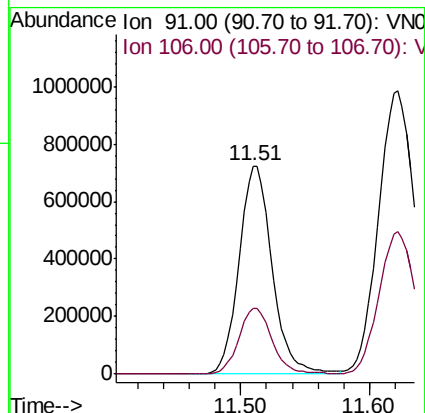
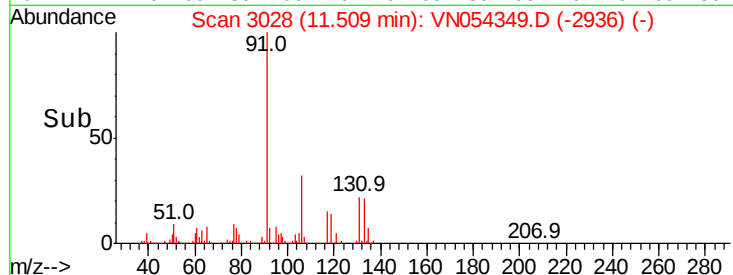
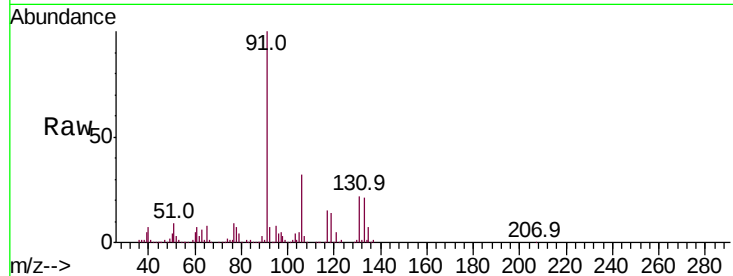
Ion Ratio Lower Upper

91 100

106 31.8 25.5 38.3

Manual Integrations
APPROVED

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#68

m/p-Xylenes

Concen: 41.500 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN054349.D

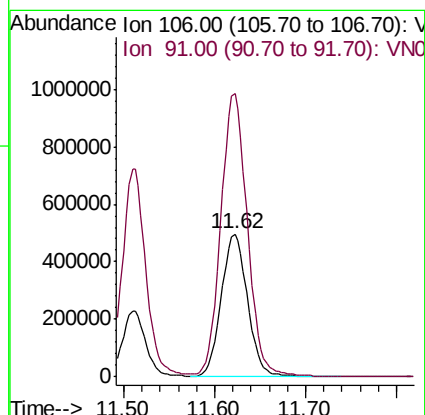
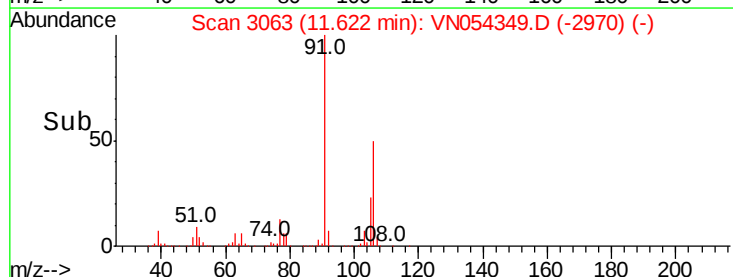
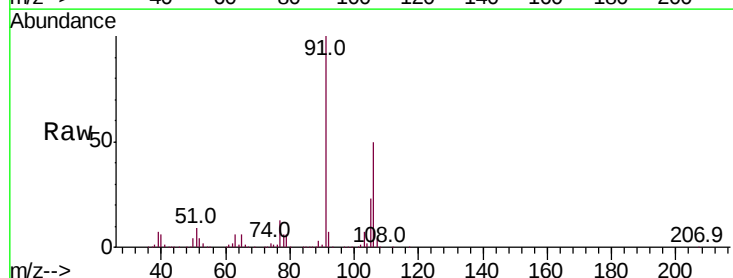
Acq: 16 Mar 2019 20:52

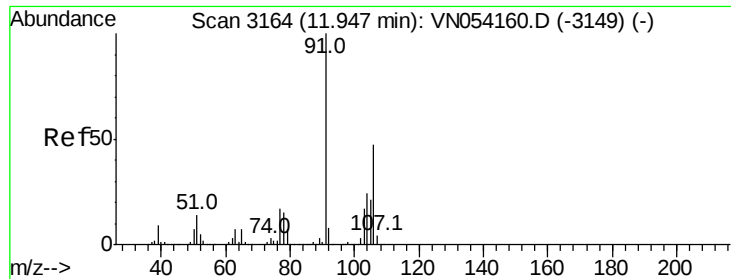
Tgt Ion: 106 Resp: 1002850

Ion Ratio Lower Upper

106 100

91 199.3 159.4 239.2





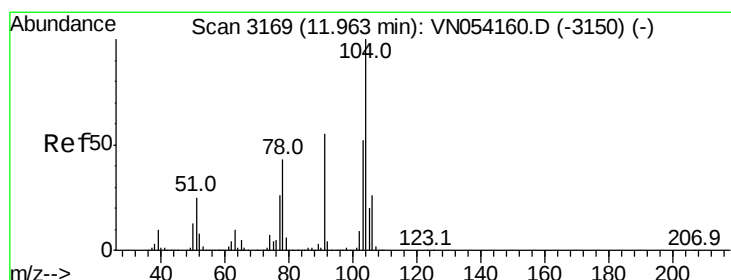
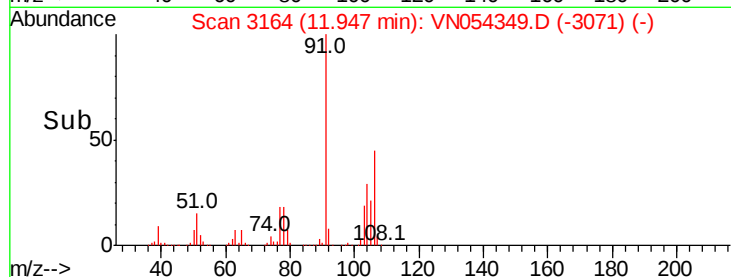
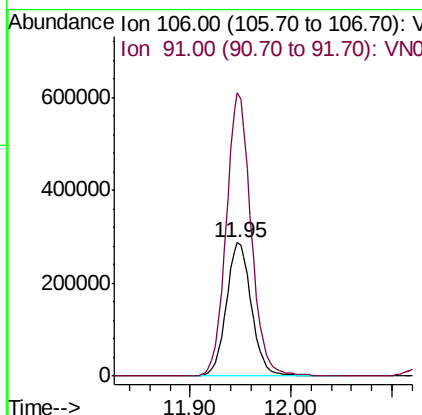
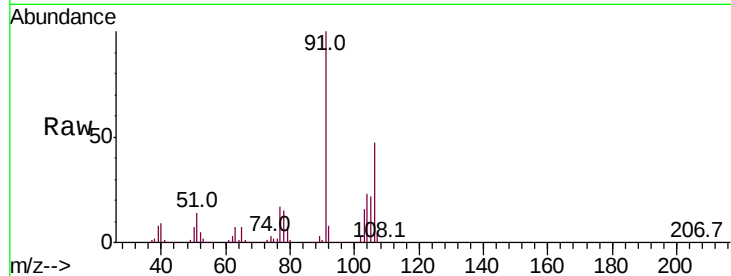
#69
o-Xylene
Concen: 21.243 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD01

Tot Ion:106 Resp: 500410
Ion Ratio Lower Upper
106 100
91 210.1 105.7 317.1

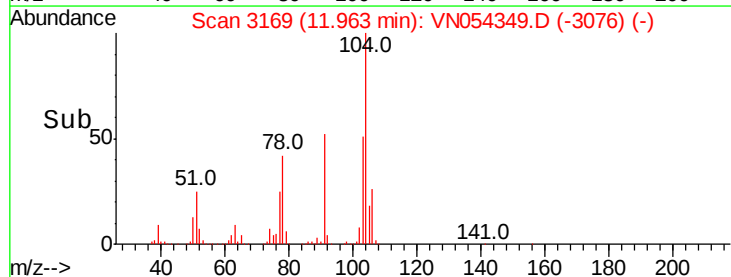
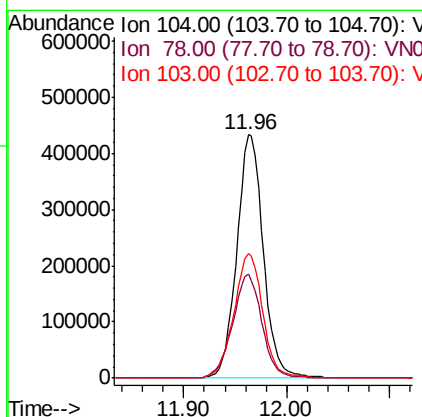
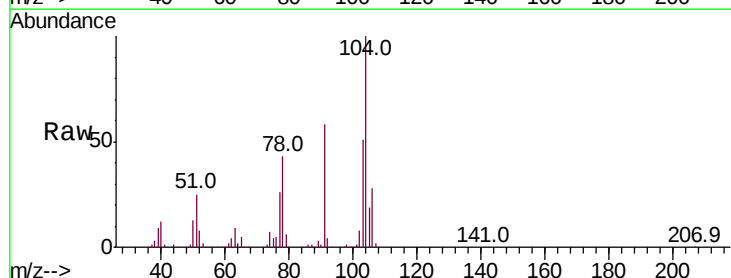
Manual Integrations
APPROVED

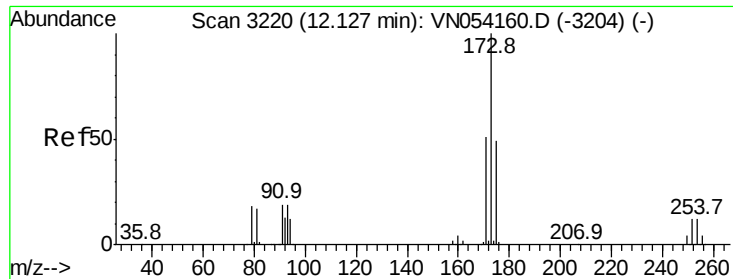
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#70
Styrene
Concen: 20.977 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Tgt Ion:104 Resp: 775006
Ion Ratio Lower Upper
104 100
78 47.4 38.2 57.2
103 55.9 44.4 66.6





#71

Bromoform

Concen: 16.848 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD01

Tot Ion:173 Resp: 157127

Ion Ratio Lower Upper

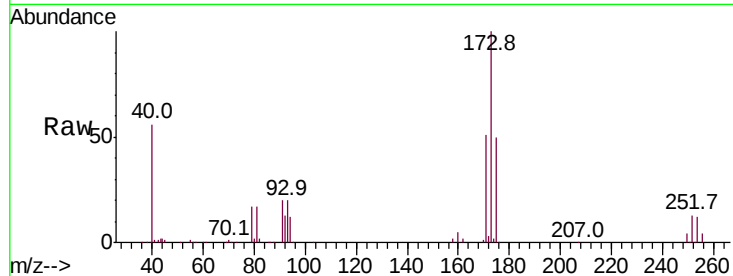
173 100

175 49.1 24.4 73.2

254 0.0 0.1 0.1#

Manual Integrations
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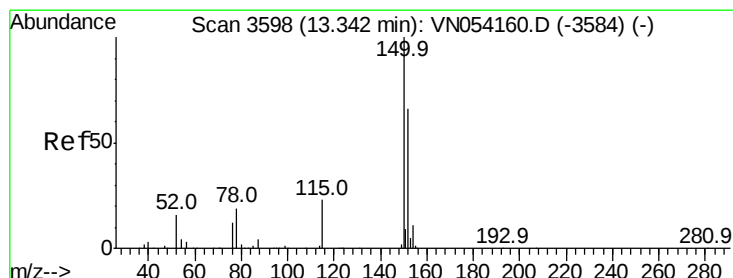
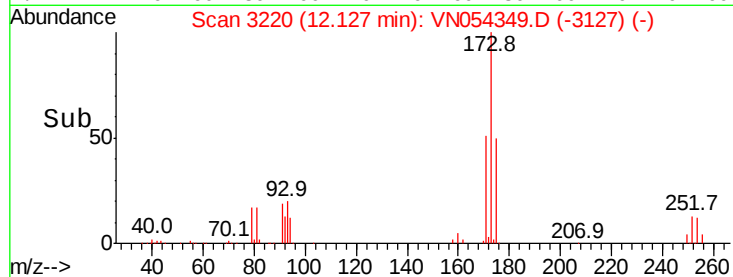
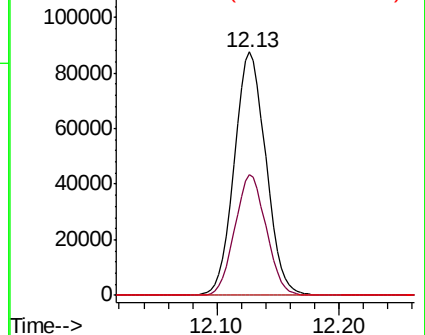
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Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

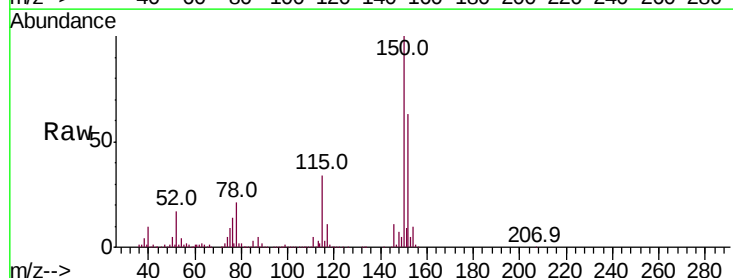
Tgt Ion:152 Resp: 756581

Ion Ratio Lower Upper

152 100

115 55.0 27.2 81.6

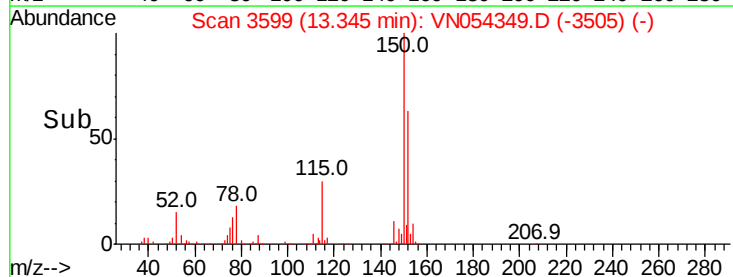
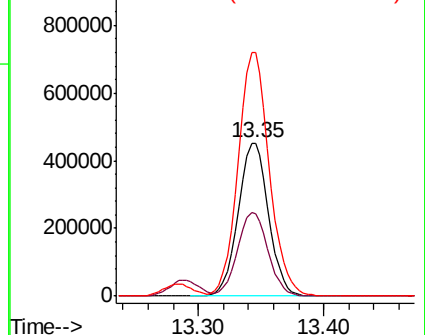
150 164.1 0.0 349.2

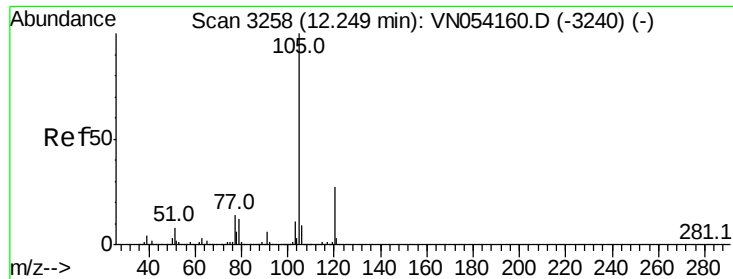


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.505 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD01

Tot Ion:105 Resp: 1301703

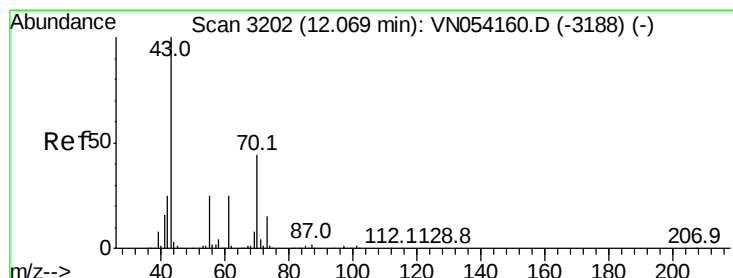
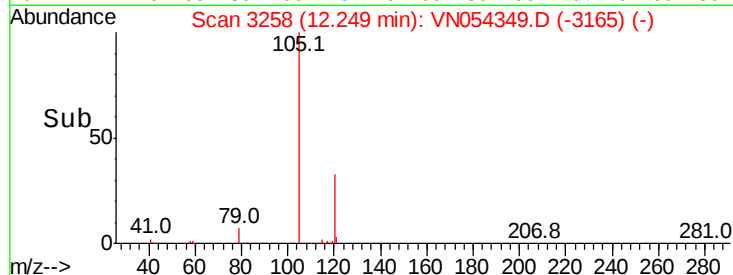
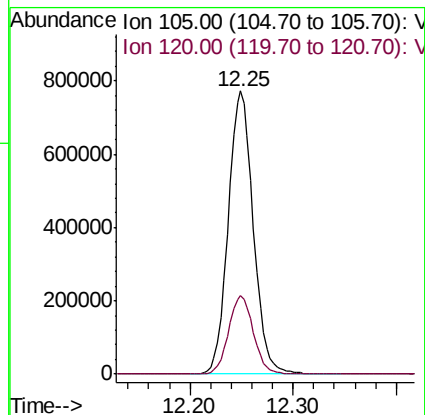
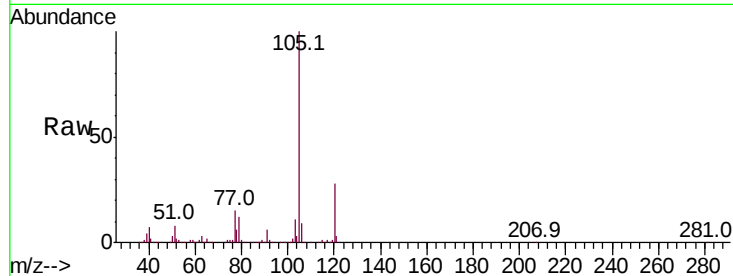
Ion Ratio Lower Upper

105 100

120 27.6 13.8 41.3

Manual Integrations
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#74

N-ethyl acetate

Concen: 20.493 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Tgt Ion: 43 Resp: 275341

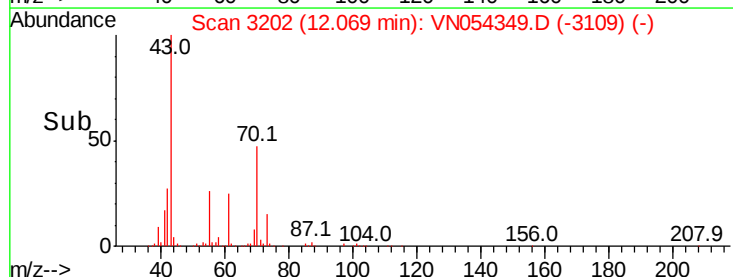
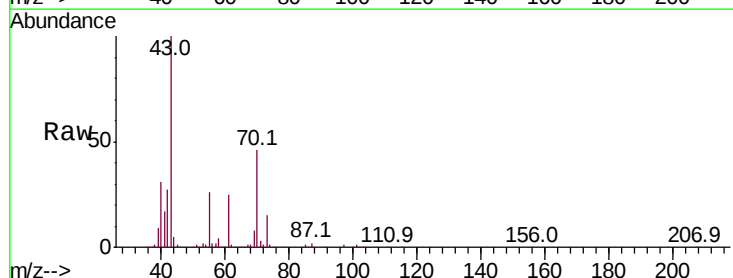
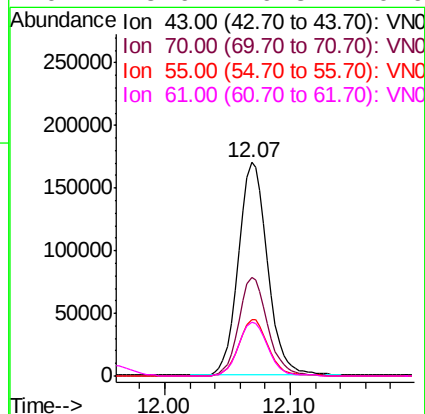
Ion Ratio Lower Upper

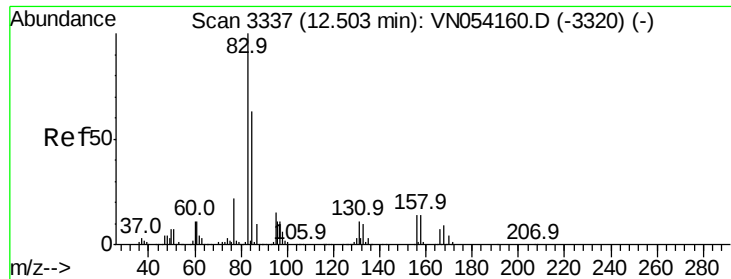
43 100

70 46.1 35.4 53.0

55 27.2 19.8 29.6

61 25.6 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 22.369 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

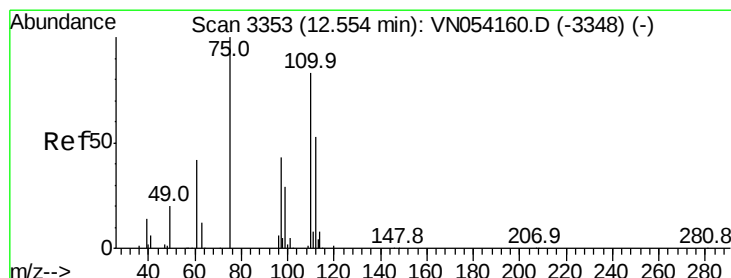
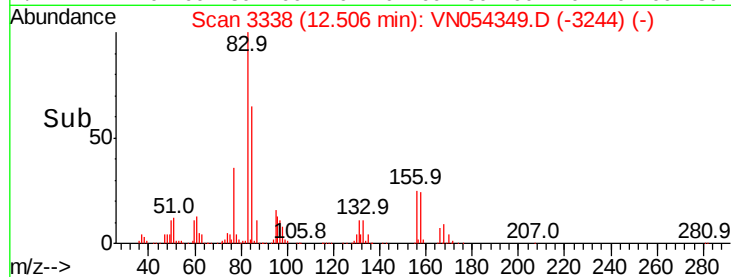
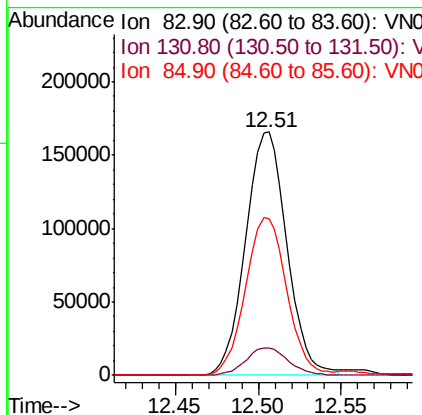
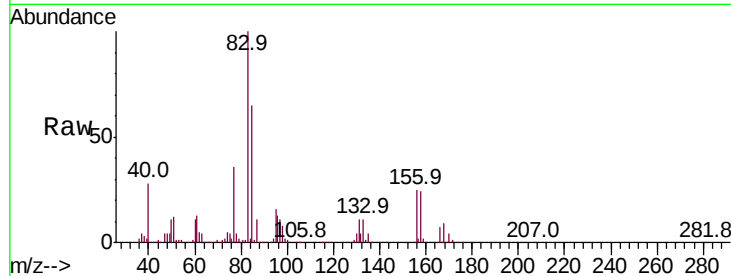
ClientSampleId :

VN0316WBSD01

Tot Ion:	83	Resp:	288480
Ion Ratio	Lower	Upper	
83	100		
131	11.7	5.8	17.4
85	64.7	32.2	96.6

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 22.569 ug/l m

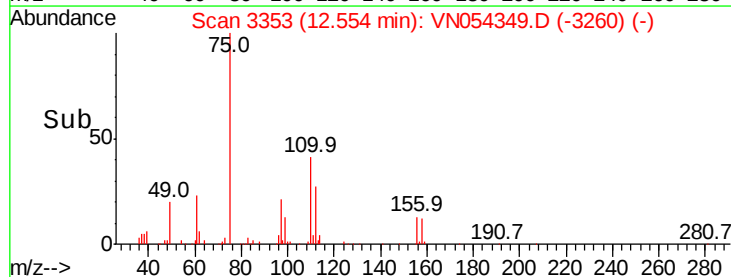
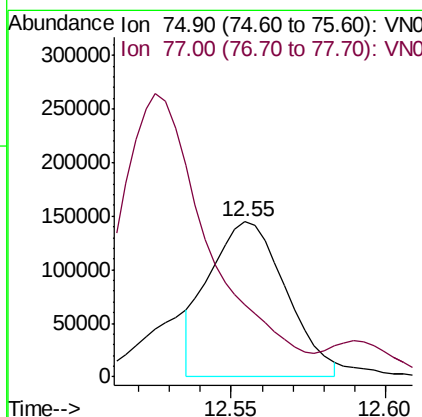
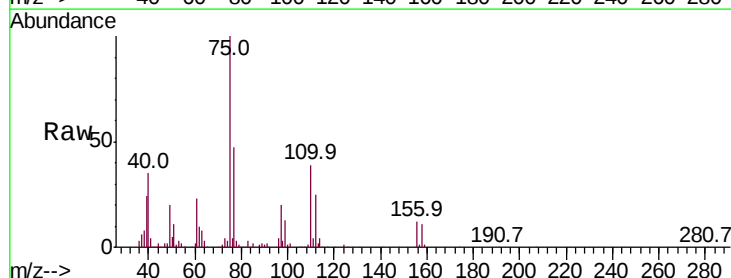
RT: 12.55 min Scan# 3353

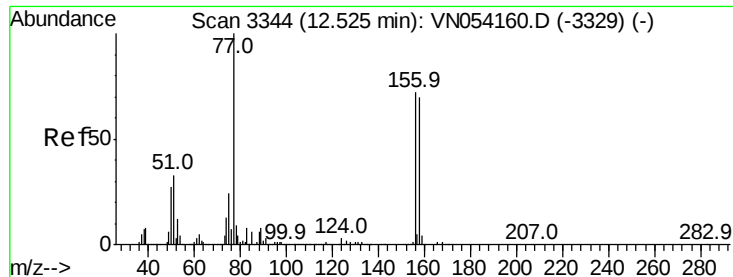
Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Tgt Ion:	75	Resp:	251096
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 21.786 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

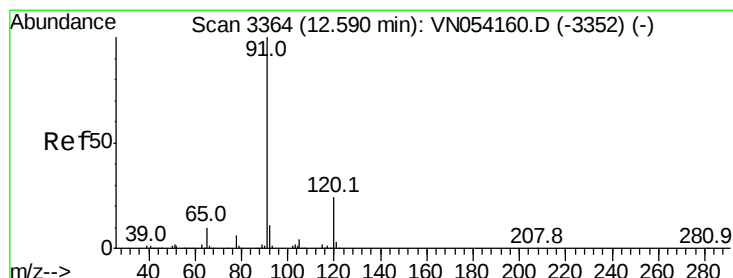
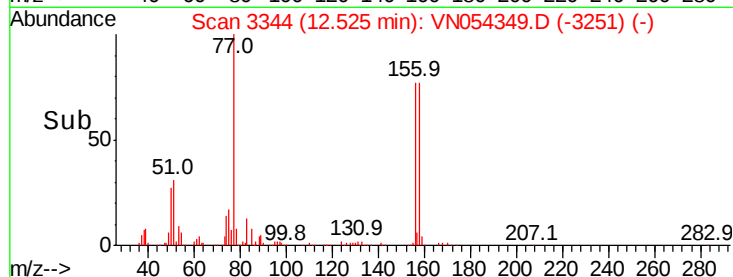
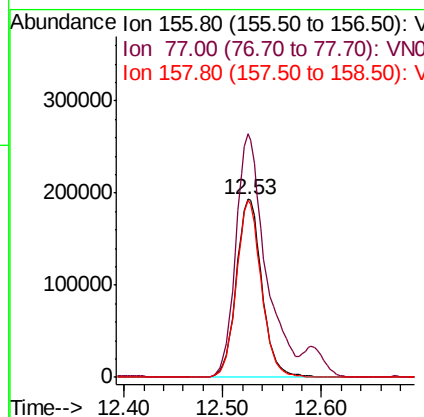
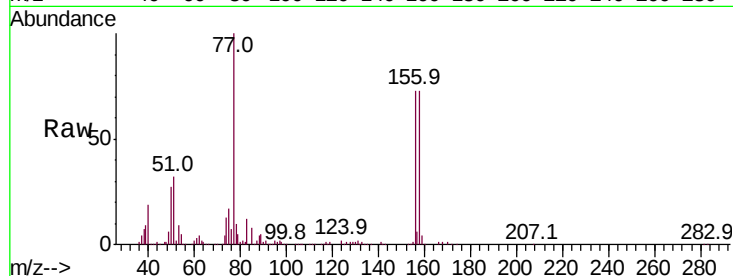
ClientSampleId :

VN0316WBSD01

Tot Ion:	156	Resp:	348957
Ion Ratio	Lower	Upper	
156	100		
77	157.9	81.5	244.4
158	96.3	49.0	147.2

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#78

n-propylbenzene

Concen: 21.093 ug/l

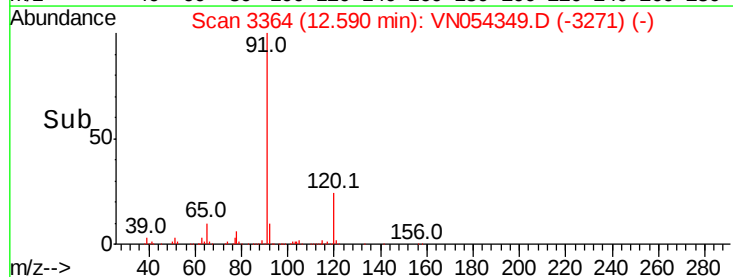
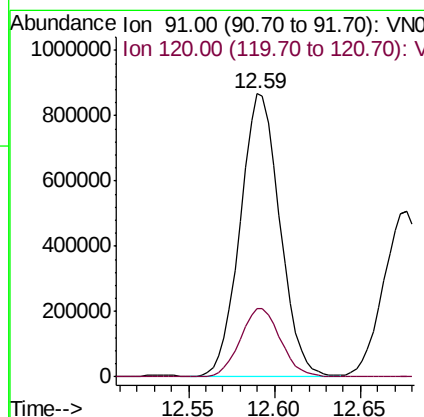
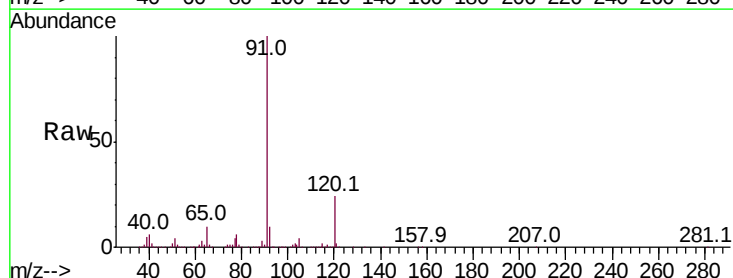
RT: 12.59 min Scan# 3364

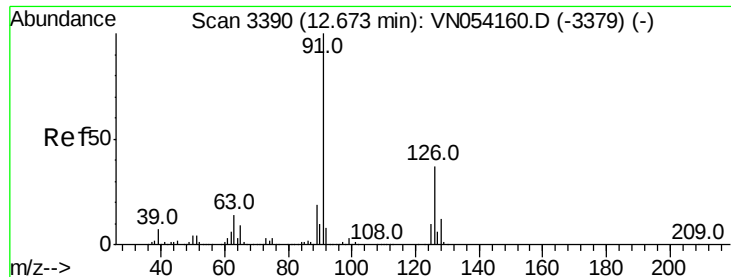
Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Tgt Ion:	91	Resp:	1385406
Ion Ratio	Lower	Upper	
91	100		
120	24.6	12.3	36.9





#79

2-Chlorotoluene

Concen: 21.522 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD01

Tot Ion: 91 Resp: 849943

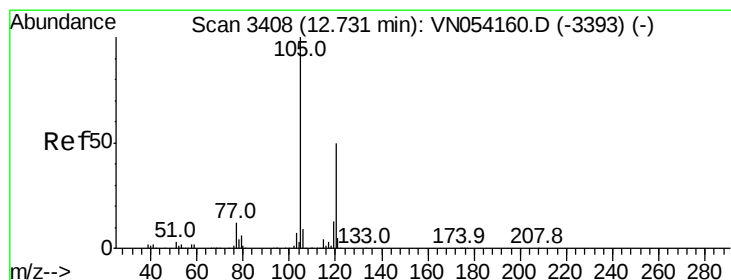
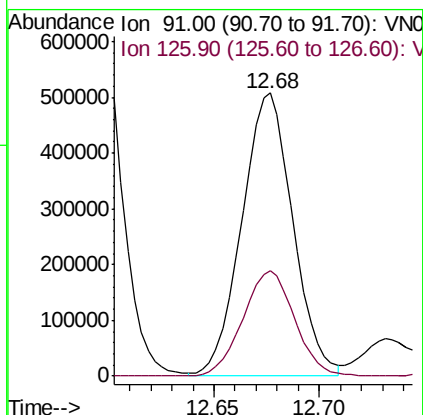
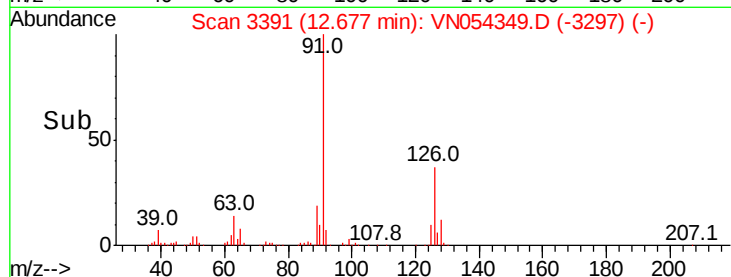
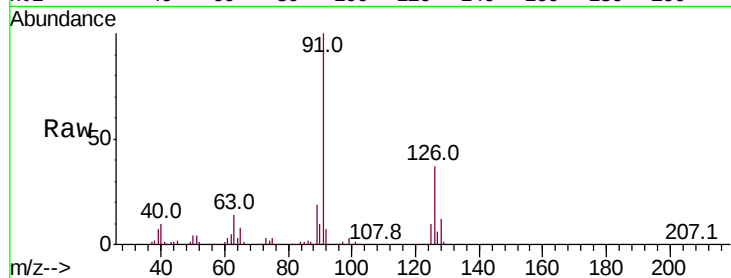
Ion Ratio Lower Upper

91 100

126 38.0 18.7 56.1

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 20.978 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054349.D

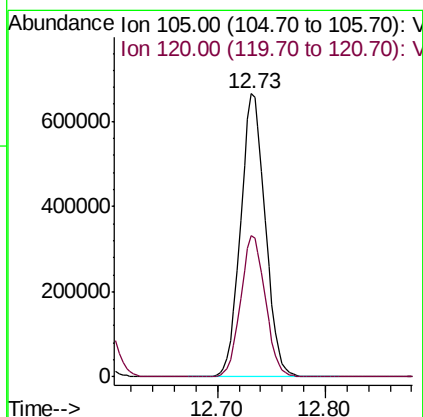
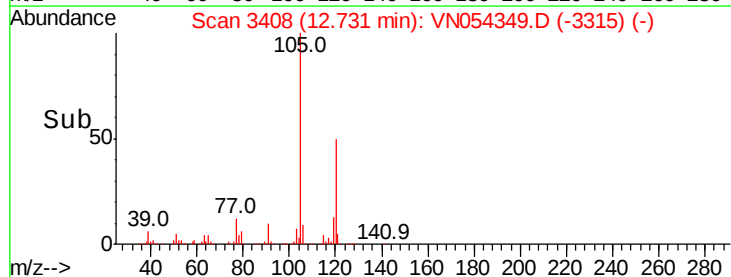
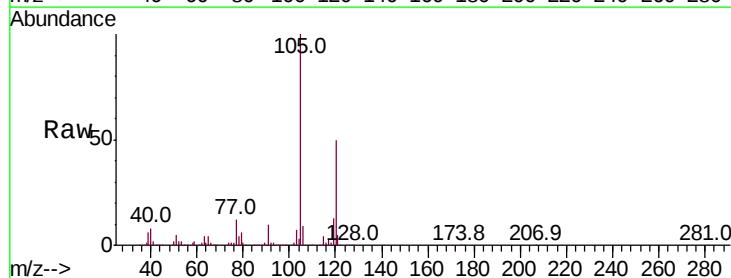
Acq: 16 Mar 2019 20:52

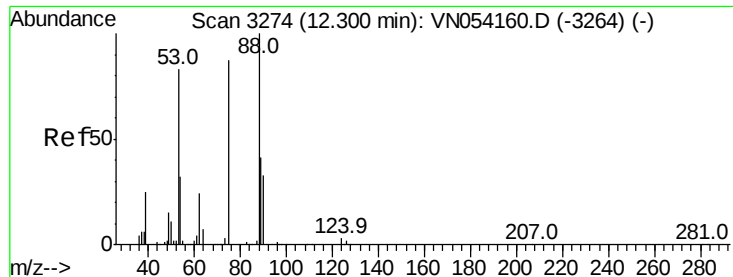
Tgt Ion: 105 Resp: 1056230

Ion Ratio Lower Upper

105 100

120 49.7 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 13.659 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD01

Tot Ion: 75 Resp: 44456

Ion Ratio Lower Upper

75 100

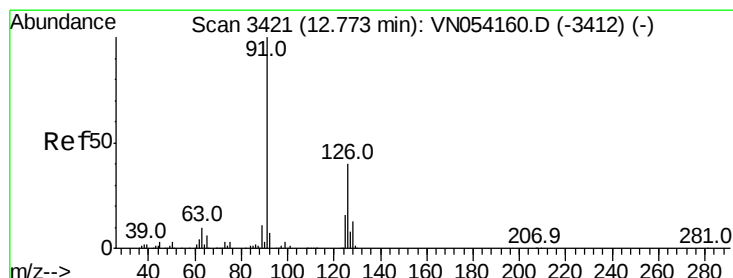
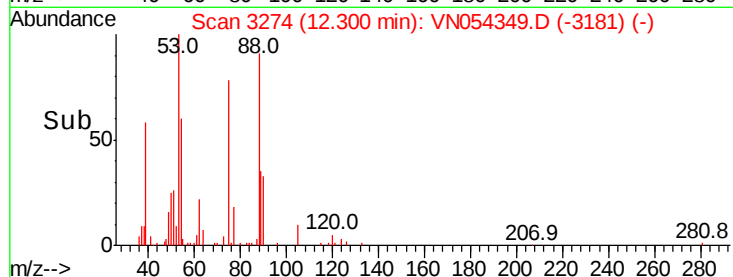
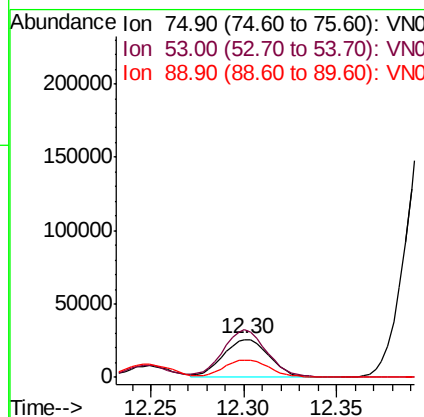
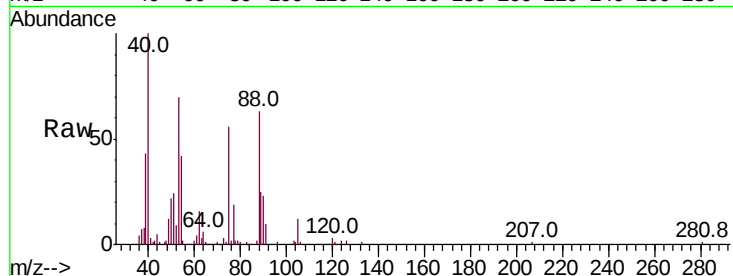
53 122.0 76.2 114.2#

89 46.5 39.2 58.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.944 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN054349.D

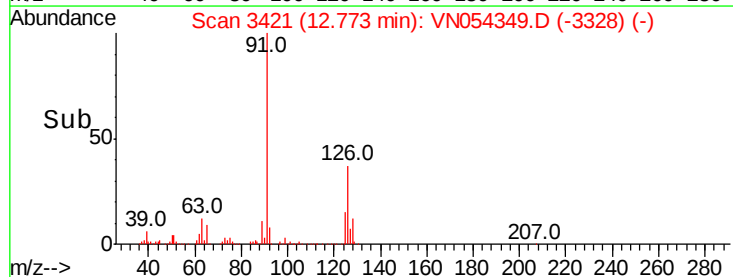
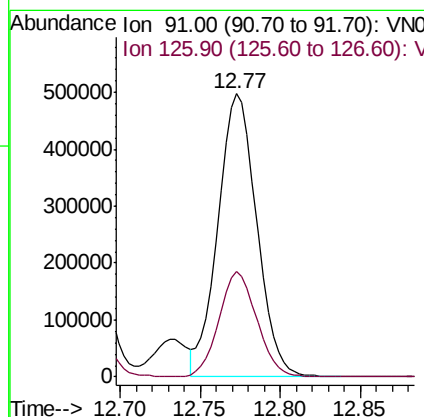
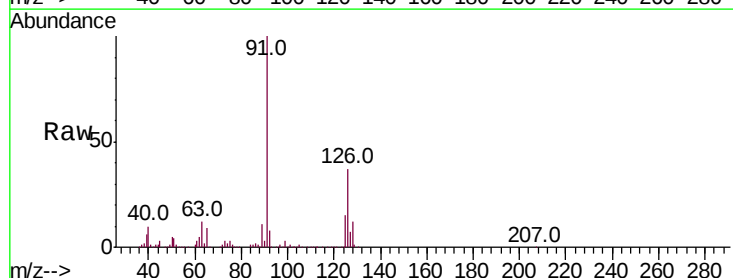
Acq: 16 Mar 2019 20:52

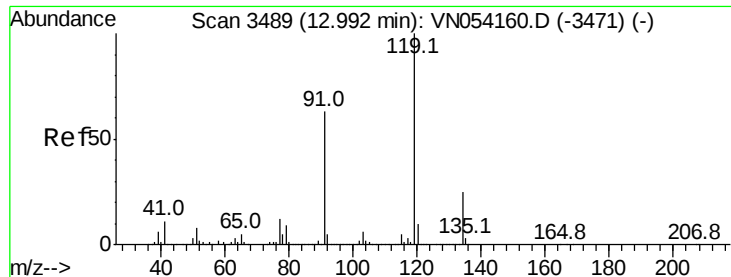
Tgt Ion: 91 Resp: 825896

Ion Ratio Lower Upper

91 100

126 36.4 18.1 54.1





#83

tert-Butylbenzene

Concen: 21.018 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

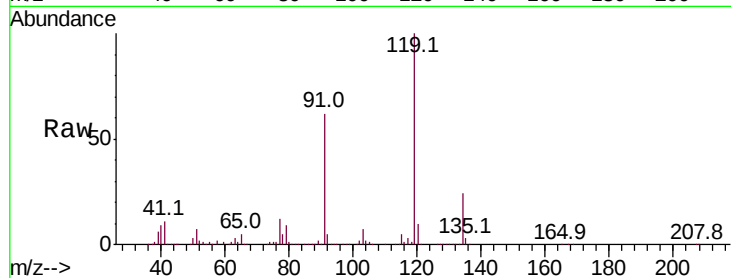
ClientSampleId :

VN0316WBSD01

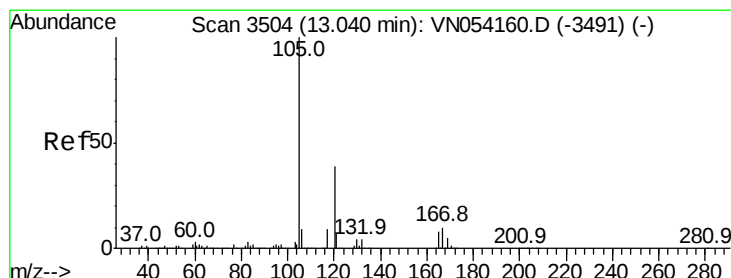
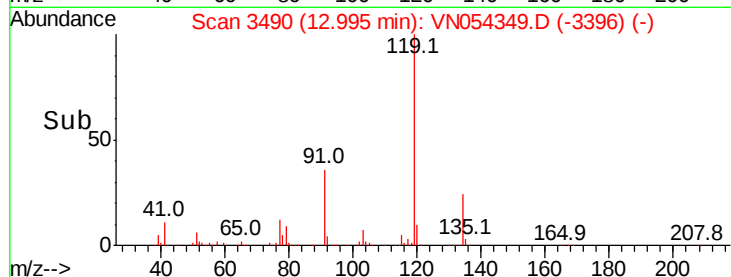
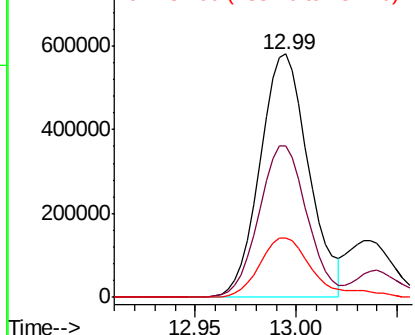
Tot Ion:	119	Resp:	974027
Ion Ratio	Lower	Upper	
119	100		
91	62.2	30.9	92.8
134	27.0	13.2	39.6

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



#84

1,2,4-Trimethylbenzene

Concen: 21.228 ug/l

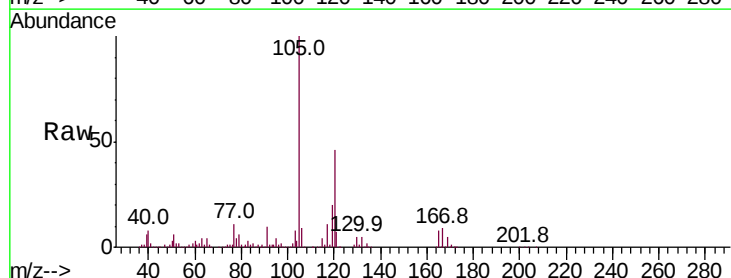
RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

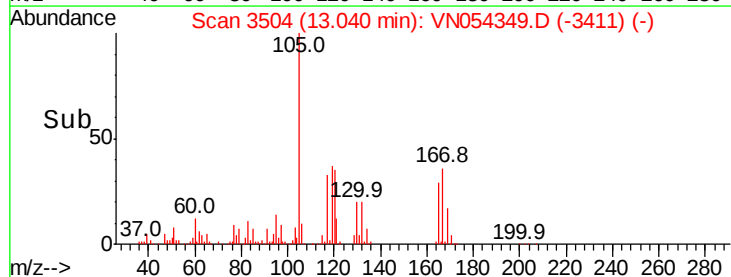
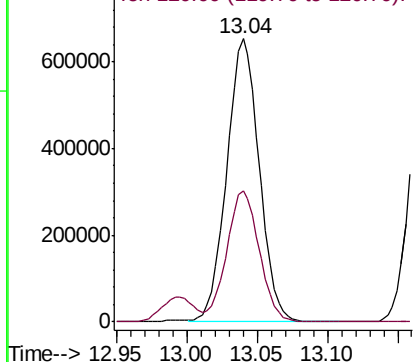
Lab File: VN054349.D

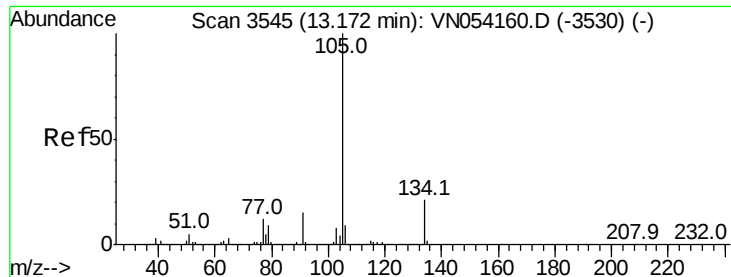
Acq: 16 Mar 2019 20:52

Tgt Ion:	105	Resp:	1048572
Ion Ratio	Lower	Upper	
105	100		
120	46.6	23.4	70.3



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





#85

sec-Butylbenzene

Concen: 20.065 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD01

Tot Ion:105 Resp: 1205939

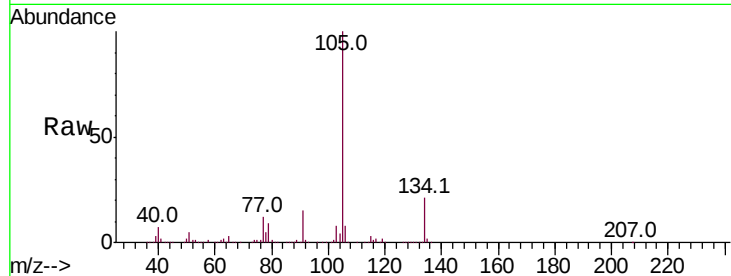
Ion Ratio Lower Upper

105 100

134 21.2 10.7 32.1

Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

800000

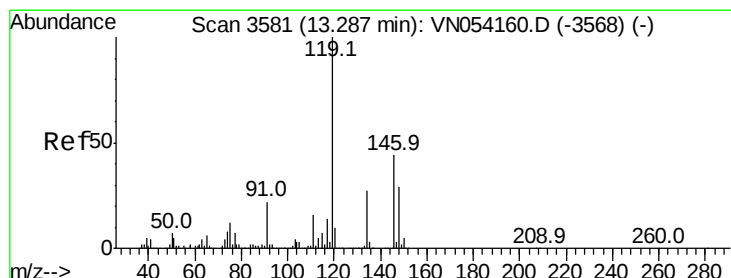
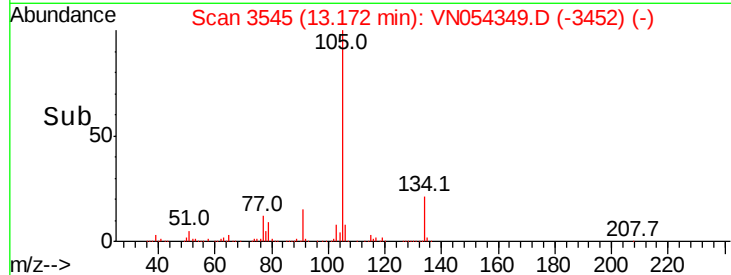
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 19.668 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054349.D

Acq: 16 Mar 2019 20:52

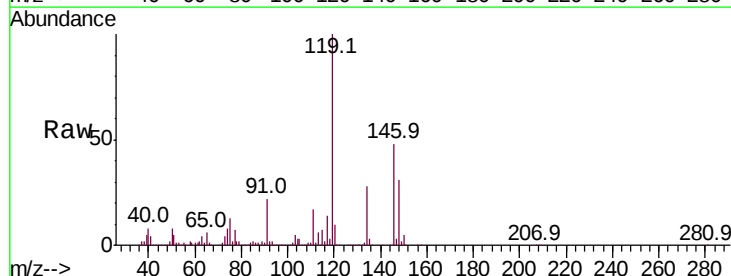
Tgt Ion:119 Resp: 1037019

Ion Ratio Lower Upper

119 100

134 28.1 13.6 40.8

91 21.9 11.1 33.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

800000

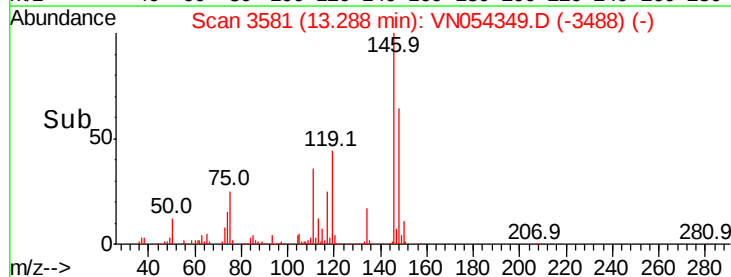
600000

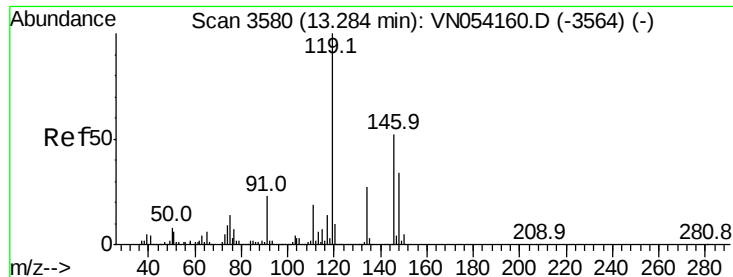
400000

200000

0

Time-->





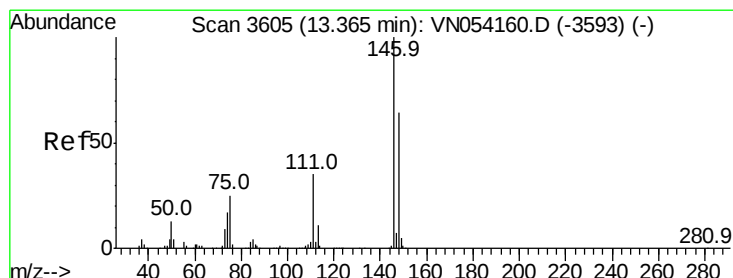
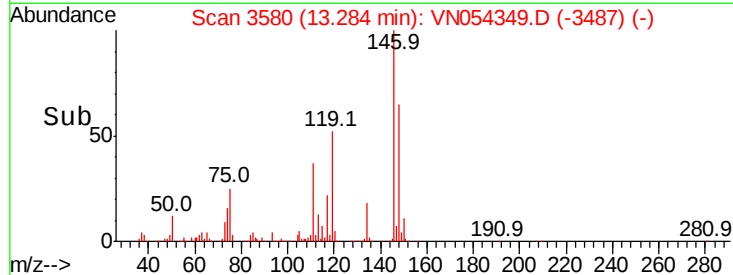
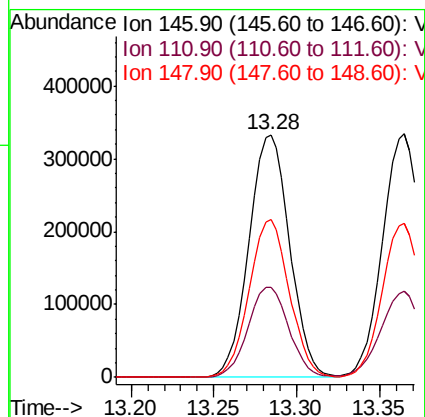
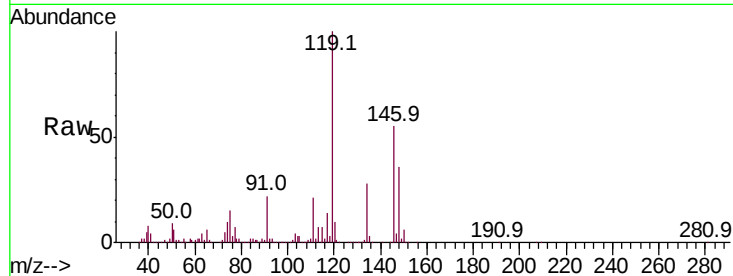
#87
 1,3-Dichlorobenzene
 Concen: 21.060 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054349.D
 Acq: 16 Mar 2019 20:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	568396		
111	37.3	18.8	56.3	
148	64.1	32.2	96.6	

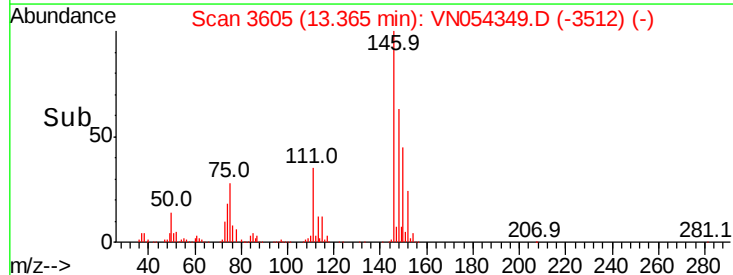
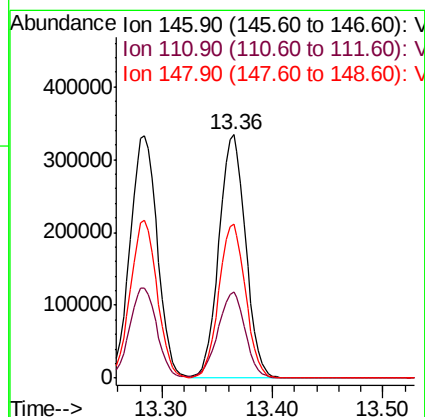
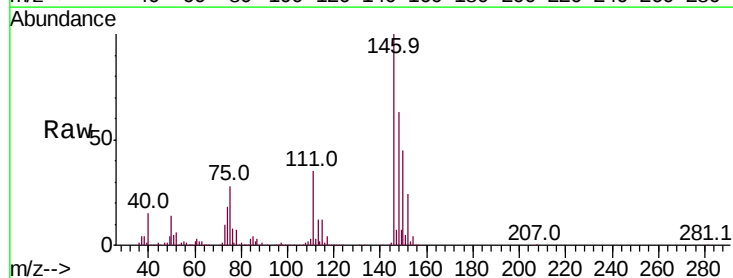
Manual Integrations
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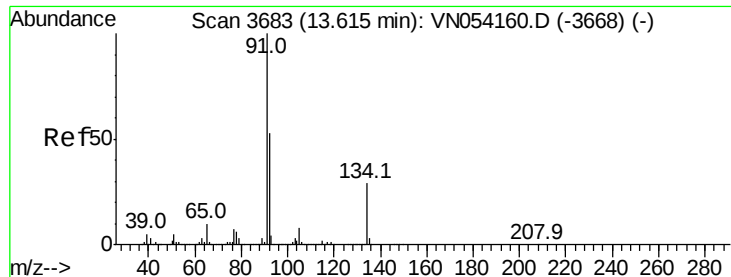
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#88
 1,4-Dichlorobenzene
 Concen: 21.051 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054349.D
 Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	558143		
111	36.2	18.1	54.1	
148	63.3	32.0	96.0	





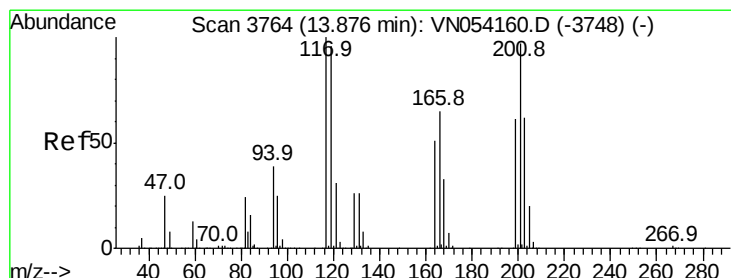
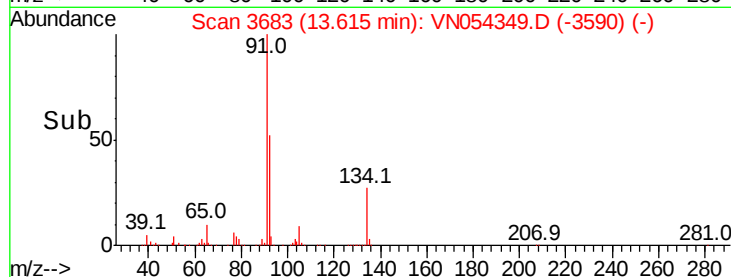
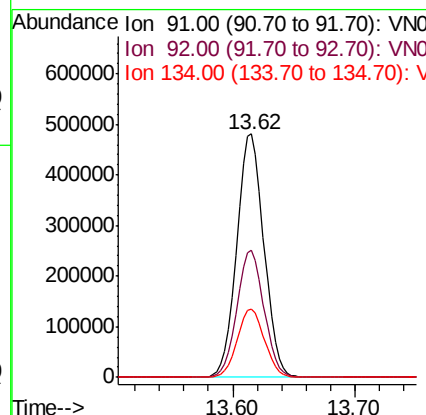
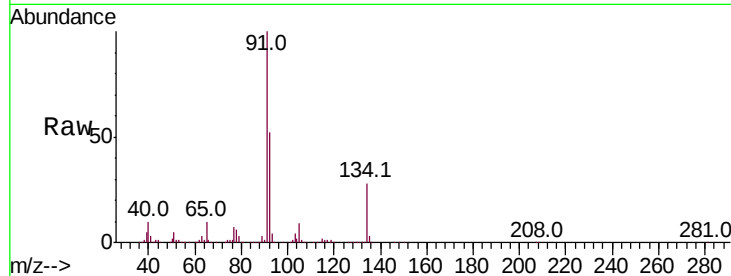
#89
n-Butylbenzene
Concen: 18.563 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.9	26.2	78.6
134	28.1	14.3	42.9

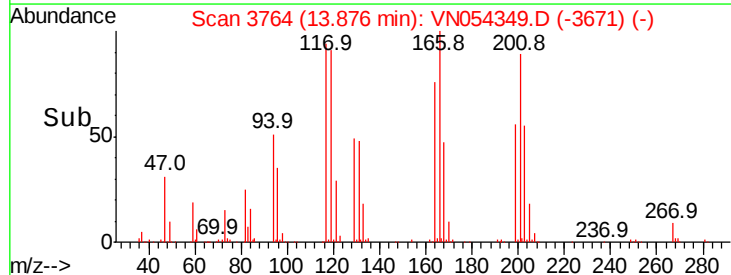
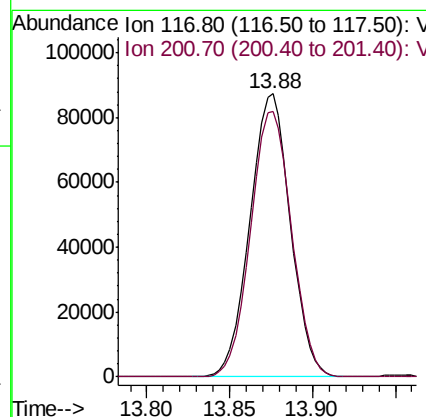
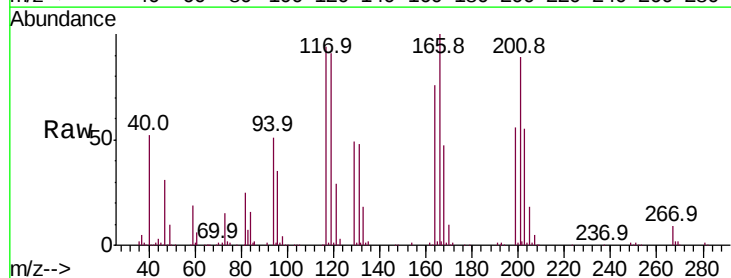
Manual Integrations
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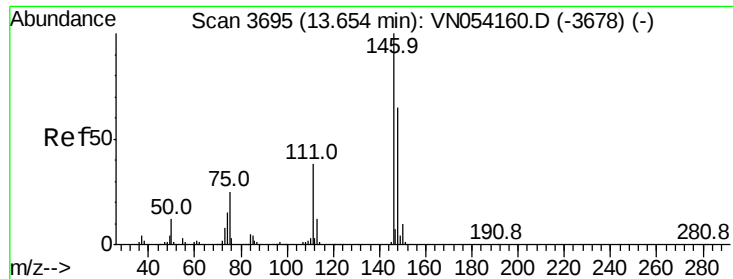
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#90
Hexachloroethane
Concen: 16.951 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Lower	Upper
117	100		
201	94.9	48.1	144.4





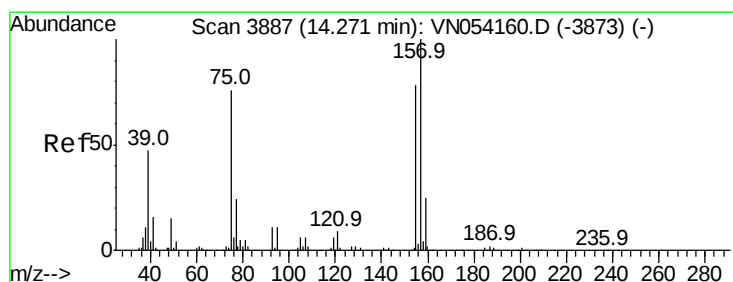
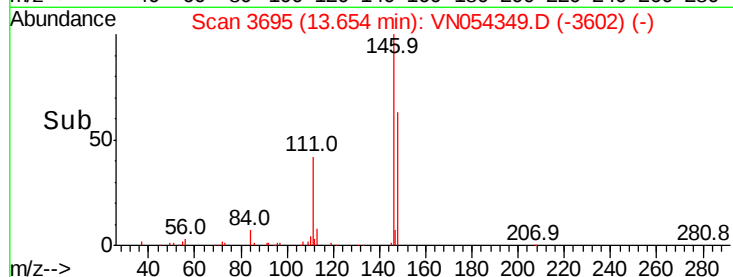
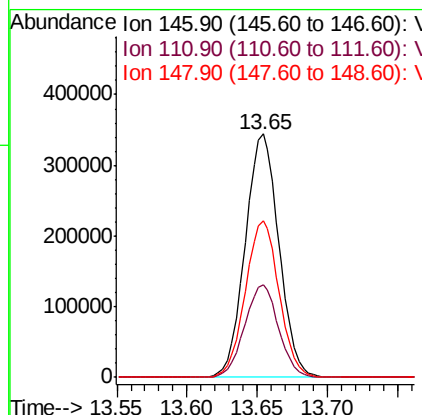
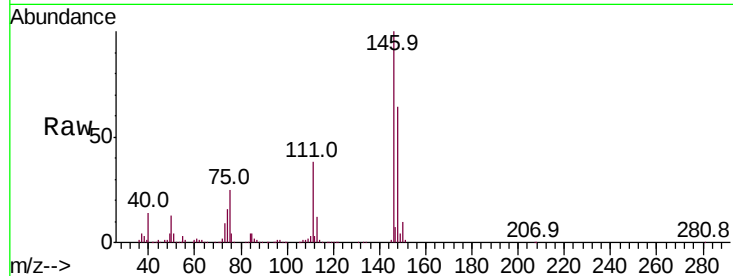
#91
 1,2-Dichlorobenzene
 Concen: 21.861 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN054349.D
 Acq: 16 Mar 2019 20:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.1	57.3
148	64.4	32.4	97.0

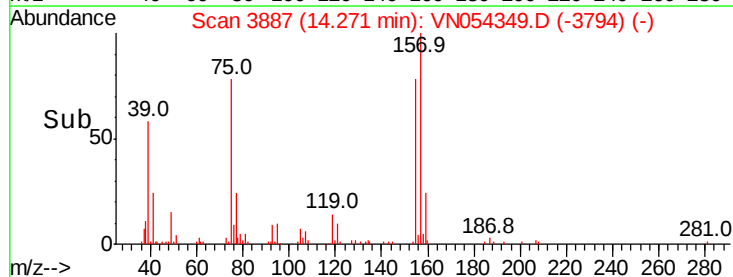
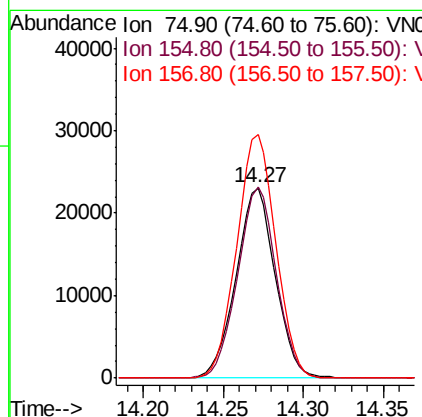
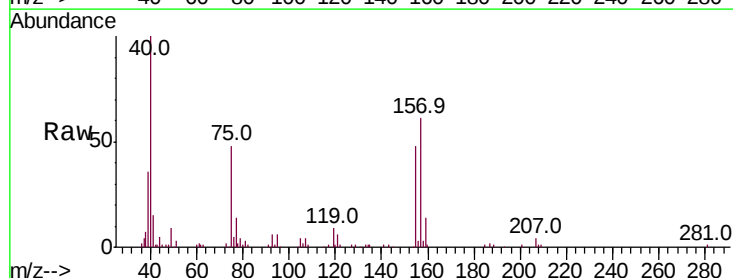
Manual Integrations
 APPROVED

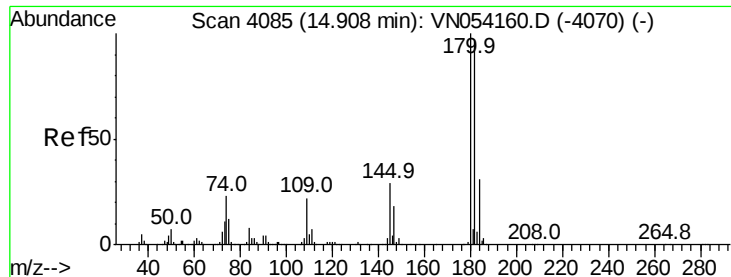
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.221 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN054349.D
 Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.9	50.1	150.3
157	127.4	63.1	189.3





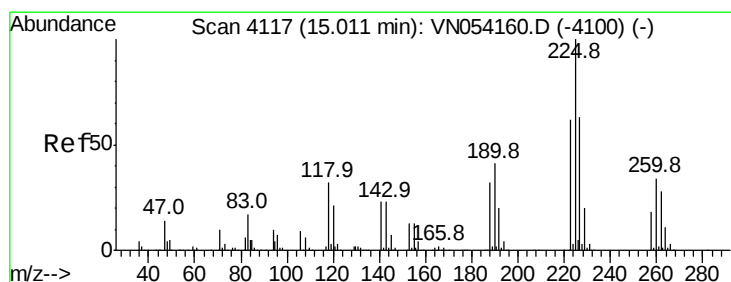
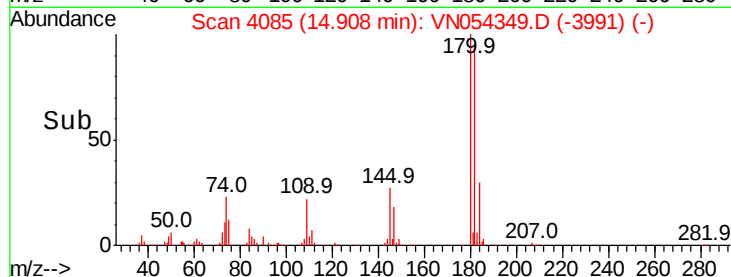
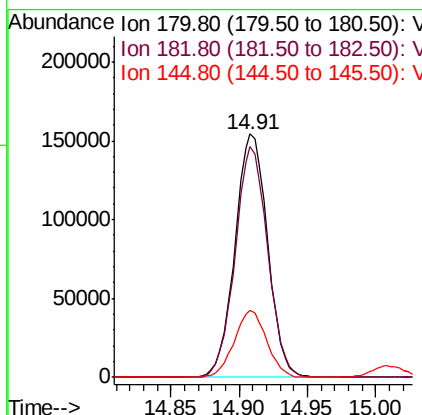
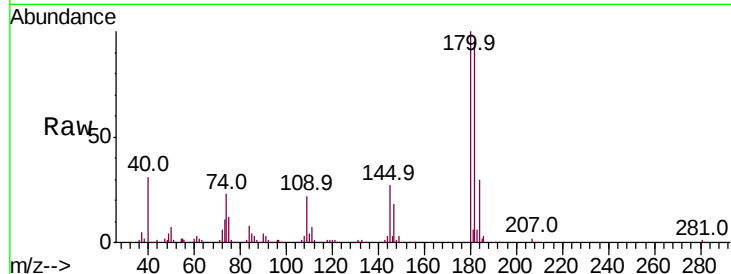
#93
 1,2,4-Trichlorobenzene
 Concen: 17.796 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054349.D
 Acq: 16 Mar 2019 20:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	256292		
182	94.1	48.0	144.2	
145	27.3	14.2	42.8	

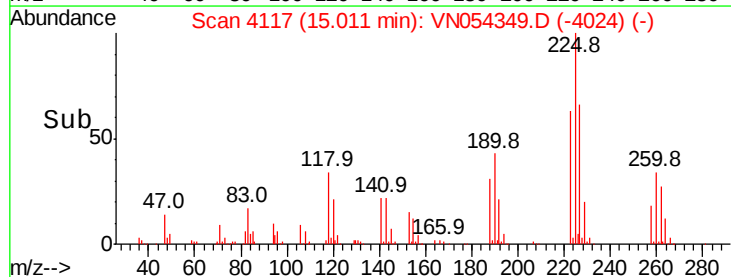
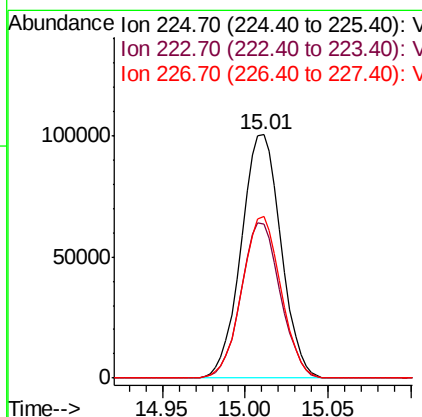
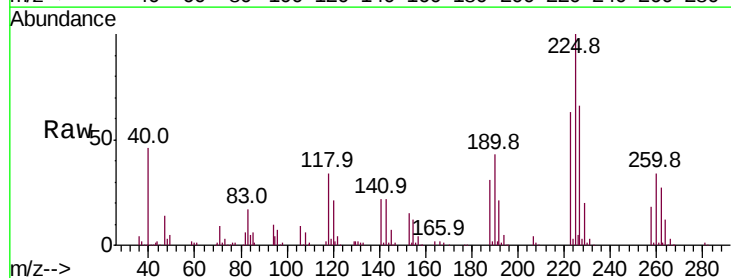
Manual Integrations
 APPROVED

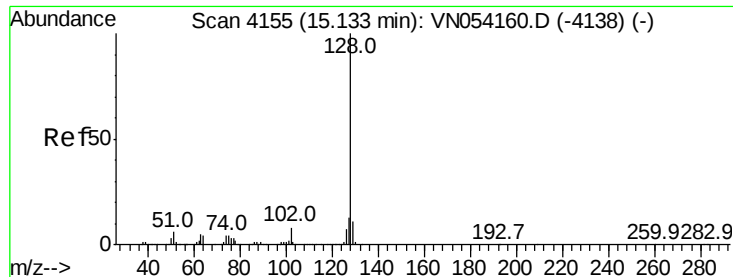
MMDadoda
 3/18/2019 11:31:20 AM



#94
 Hexachlorobutadiene
 Concen: 16.675 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN054349.D
 Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	167584		
223	63.0	31.1	93.5	
227	65.2	31.9	95.9	





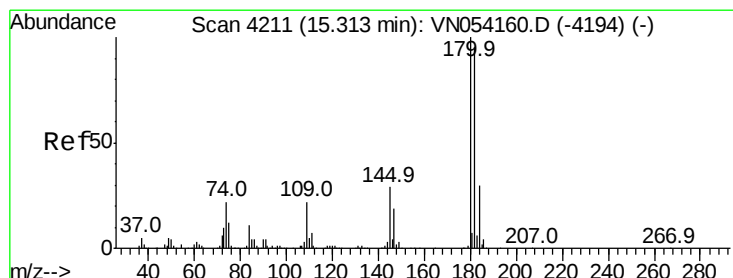
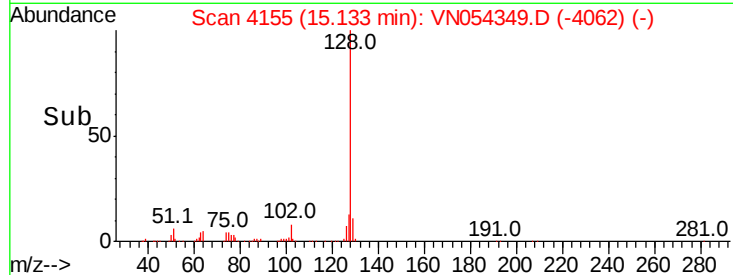
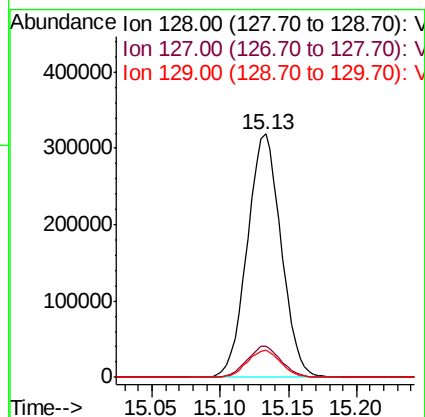
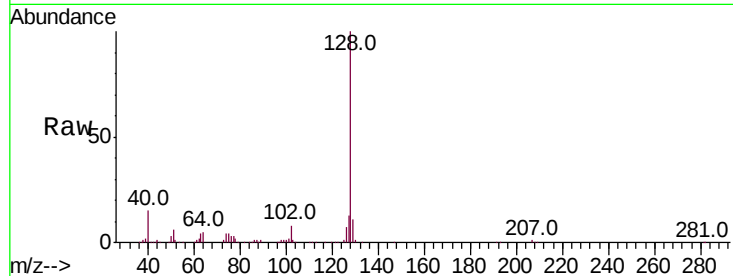
#95
Naphthalene
Concen: 18.862 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD01

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	12.9	10.1	15.1
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/18/2019 11:31:20 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.184 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN054349.D
Acq: 16 Mar 2019 20:52

Tgt Ion	Ratio	Resp Lower	Upper
180	100		
182	94.2	47.5	142.6
145	29.5	14.8	44.3

