

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112119\
 Data File : VN059348.D
 Acq On : 21 Nov 2019 19:51
 Operator : JC/SP
 Sample : VN1121WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBSD02

Manual Integrations
 APPROVED

MMDadoda
 11/22/2019 3:13:02 PM

Quant Time: Nov 22 07:18:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 21 08:44:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	363763	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	582885	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	520080	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	235048	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	229213	52.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.04%	
35) Dibromofluoromethane	7.57	113	181744	51.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.94%	
50) Toluene-d8	10.08	98	729219	52.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.90%	
62) 4-Bromofluorobenzene	12.40	95	254340	52.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.64%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	90783	19.494	ug/l	100
3) Chloromethane	2.04	50	112356	19.694	ug/l	100
4) Vinyl Chloride	2.17	62	119078	20.273	ug/l	98
5) Bromomethane	2.55	94	63837	19.576	ug/l	100
6) Chloroethane	2.69	64	60765	18.955	ug/l	97
7) Trichlorofluoromethane	3.00	101	119095	18.828	ug/l	98
8) Diethyl Ether	3.39	74	51870	20.059	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	74183	19.180	ug/l	99
10) Methyl Iodide	3.93	142	96145	20.001	ug/l	97
11) Tert butyl alcohol	4.75	59	87104	99.679	ug/l	99
12) 1,1-Dichloroethene	3.71	96	75244	19.166	ug/l	98
13) Acrolein	3.58	56	72076	90.356	ug/l	100
14) Allyl chloride	4.30	41	141099	19.238	ug/l	98
15) Acrylonitrile	4.95	53	225861	97.756	ug/l	100
16) Acetone	3.79	43	180408	92.187	ug/l	99
17) Carbon Disulfide	4.03	76	231481	18.901	ug/l	100
18) Methyl Acetate	4.30	43	126952	19.547	ug/l	98
19) Methyl tert-butyl Ether	5.01	73	257338	20.294	ug/l	99
20) Methylene Chloride	4.53	84	85869	19.455	ug/l	98
21) trans-1,2-Dichloroethene	5.01	96	79528	19.113	ug/l	98
22) Diisopropyl ether	5.92	45	268874	19.471	ug/l	98
23) Vinyl Acetate	5.87	43	1074130	98.915	ug/l	100
24) 1,1-Dichloroethane	5.82	63	152442	19.612	ug/l	99
25) 2-Butanone	6.81	43	297964	97.915	ug/l	98
26) 2,2-Dichloropropane	6.80	77	125030	18.577	ug/l	100
27) cis-1,2-Dichloroethene	6.81	96	90415	19.260	ug/l	99
28) Bromochloromethane	7.17	49	62567	21.183	ug/l	95
29) Tetrahydrofuran	7.19	42	207637	98.678	ug/l	100
30) Chloroform	7.35	83	147015	19.407	ug/l	98
31) Cyclohexane	7.63	56	148044	19.264	ug/l	97
32) 1,1,1-Trichloroethane	7.55	97	124880	19.270	ug/l	99
36) 1,1-Dichloropropene	7.77	75	113553	18.871	ug/l	99
37) Ethyl Acetate	6.91	43	122747	18.980	ug/l	97
38) Carbon Tetrachloride	7.75	117	108866	18.898	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	137447	18.942	ug/l	99
40) Benzene	8.02	78	343243	19.435	ug/l	99
41) Methacrylonitrile	7.15	41	48428	16.869	ug/l #	100
42) 1,2-Dichloroethane	8.10	62	113169	19.375	ug/l	100
43) Isopropyl Acetate	8.15	43	193977	19.627	ug/l	100
44) Trichloroethene	8.82	130	86332	19.288	ug/l	97
45) 1,2-Dichloropropane	9.11	63	92433	19.627	ug/l	100
46) Dibromomethane	9.19	93	53809	18.628	ug/l	98
47) Bromodichloromethane	9.39	83	109518	18.931	ug/l	100
48) Methyl methacrylate	9.19	41	84075	18.706	ug/l	96
49) 1,4-Dioxane	9.19	88	26898	398.202	ug/l	99
51) 4-Methyl-2-Pentanone	9.97	43	593319	102.561	ug/l	99
52) Toluene	10.15	92	206225	19.420	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	130374	19.386	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	141602	19.404	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	80302	19.449	ug/l	99
56) Ethyl methacrylate	10.42	69	122819	19.033	ug/l	98
57) 1,3-Dichloropropane	10.70	76	140518	19.526	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	207780	96.563	ug/l	100
59) 2-Hexanone	10.75	43	432758	102.160	ug/l	100
60) Dibromochloromethane	10.90	129	84062	19.320	ug/l	99
61) 1,2-Dibromoethane	11.00	107	83200	19.366	ug/l	99
64) Tetrachloroethene	10.63	164	75205	18.697	ug/l	97
65) Chlorobenzene	11.43	112	215303	19.253	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	78653	19.360	ug/l	99
67) Ethyl Benzene	11.51	91	392722	19.669	ug/l	99
68) m/p-Xylenes	11.62	106	289302	38.993	ug/l	98
69) o-Xylene	11.95	106	139649	19.661	ug/l	100
70) Styrene	11.96	104	219809	19.612	ug/l	99
71) Bromoform	12.13	173	59361	19.294	ug/l #	97
73) Isopropylbenzene	12.25	105	377297	19.595	ug/l	100
74) N-amyl acetate	12.07	43	154995	20.030	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	120607	18.935	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	110002m	20.257	ug/l	
77) Bromobenzene	12.53	156	89205	19.101	ug/l	100
78) n-propylbenzene	12.59	91	428243	19.634	ug/l	100
79) 2-Chlorotoluene	12.68	91	255561	19.090	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	316951	19.582	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	42240	19.456	ug/l	99
82) 4-Chlorotoluene	12.77	91	260048	18.771	ug/l	100
83) tert-Butylbenzene	12.99	119	271654	19.872	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	317410	20.019	ug/l	100
85) sec-Butylbenzene	13.17	105	360024	19.595	ug/l	100
86) p-Isopropyltoluene	13.29	119	320795	19.621	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	154784	18.611	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	152568	18.540	ug/l	98
89) n-Butylbenzene	13.62	91	265432	18.506	ug/l	99
90) Hexachloroethane	13.88	117	57475	18.562	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	152204	18.915	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	23605	17.431	ug/l	96

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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	83419	18.627	ug/l	99
94) Hexachlorobutadiene	15.01	225	53039	18.295	ug/l	98
95) Naphthalene	15.13	128	225367	18.400	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	84536	18.456	ug/l	99

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

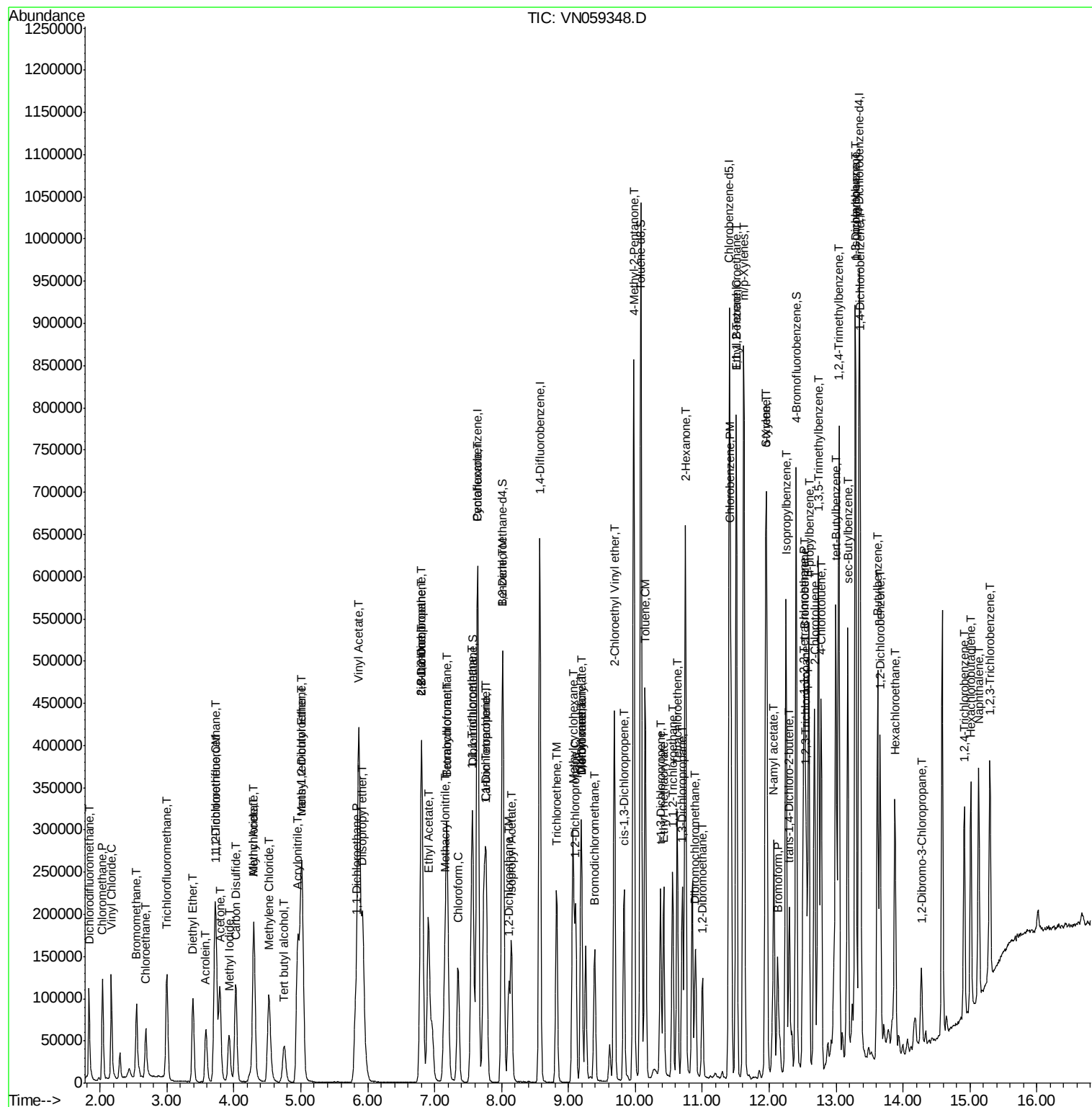
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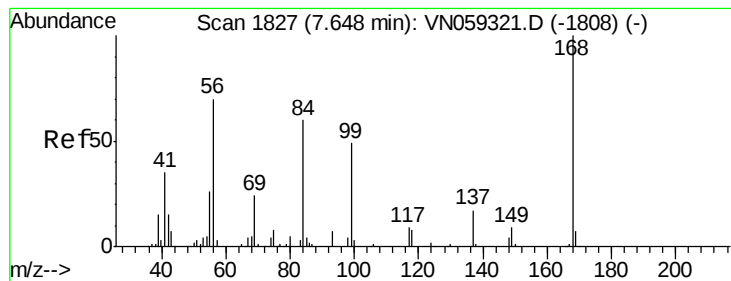
Instrument :
MSVOA_N
Client Sample Id :
VN1121WBSD02

Manual Integrations
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBSD02

Tot Ion:168 Resp: 363763

Ion Ratio Lower Upper

168 100

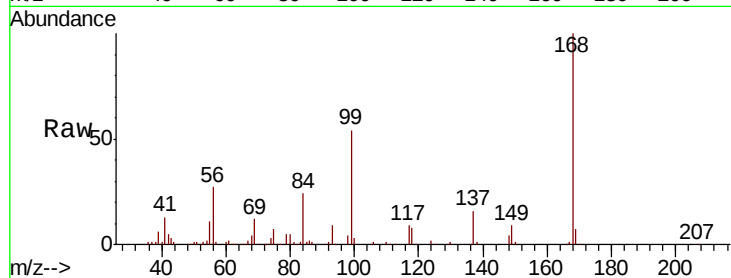
99 54.3 44.6 66.8

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

150000

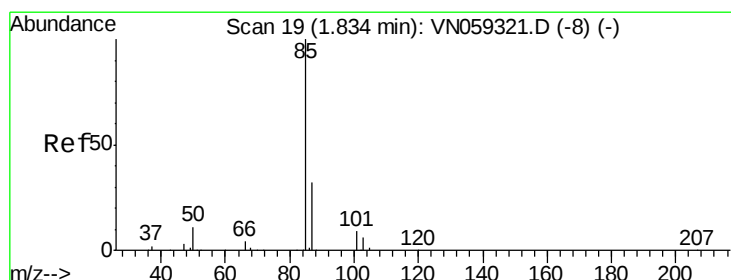
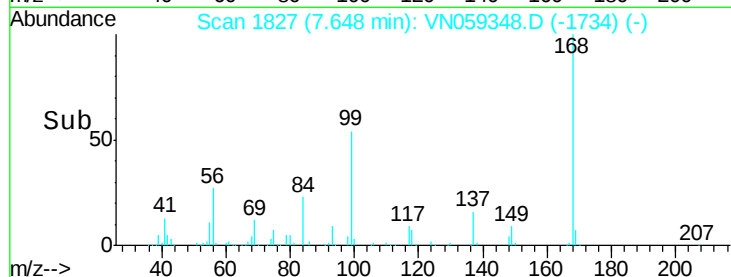
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 19.494 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN059348.D

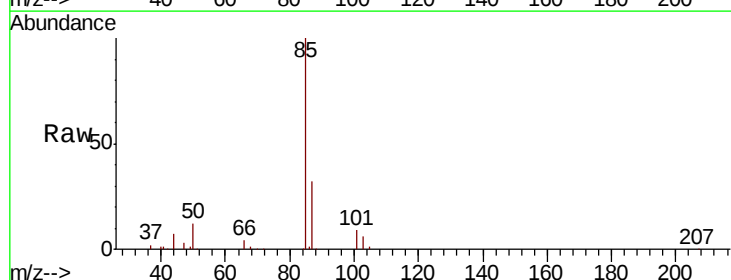
Acq: 21 Nov 2019 19:51

Tgt Ion: 85 Resp: 90783

Ion Ratio Lower Upper

85 100

87 31.9 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

60000

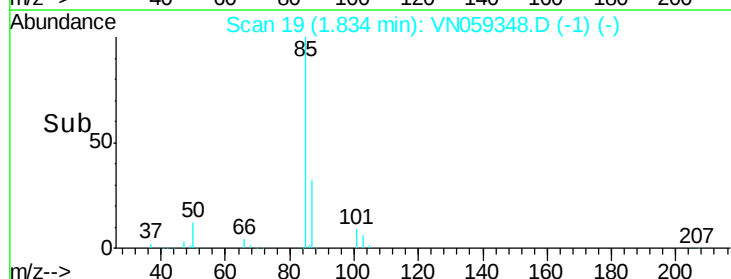
40000

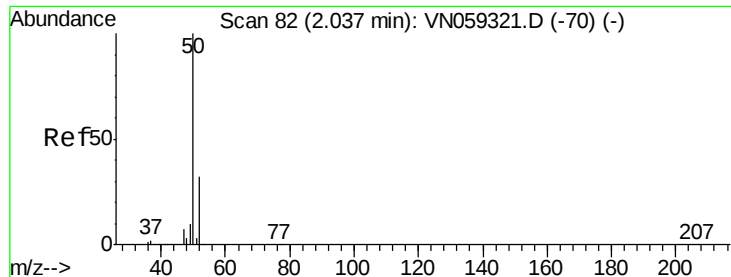
20000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 19.694 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBSD02

Tot Ion: 50 Resp: 112356

Ion Ratio Lower Upper

50 100

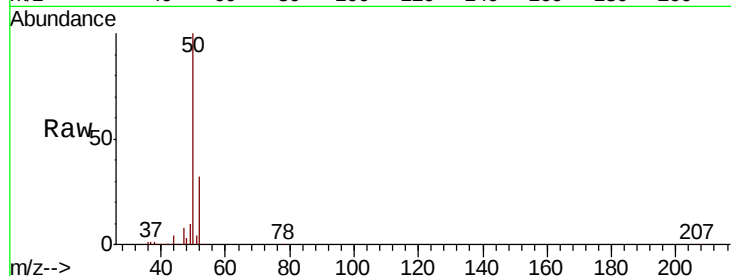
52 32.3 26.0 39.0

Manual Integrations

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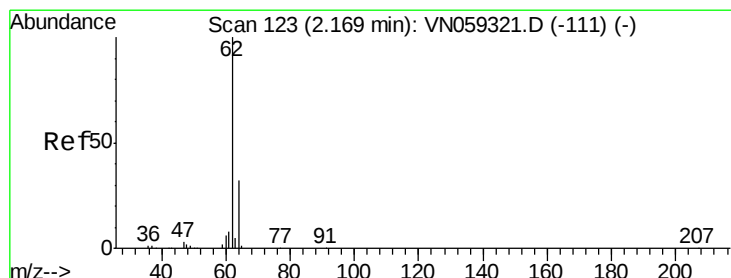
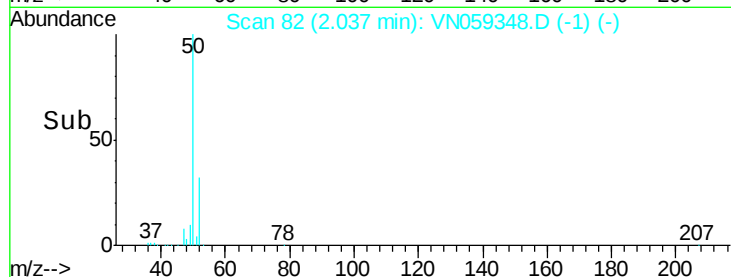
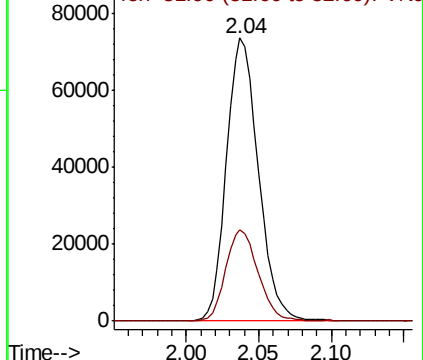
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 20.273 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN059348.D

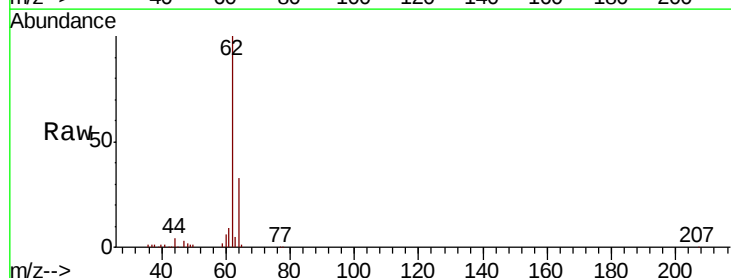
Acq: 21 Nov 2019 19:51

Tgt Ion: 62 Resp: 119078

Ion Ratio Lower Upper

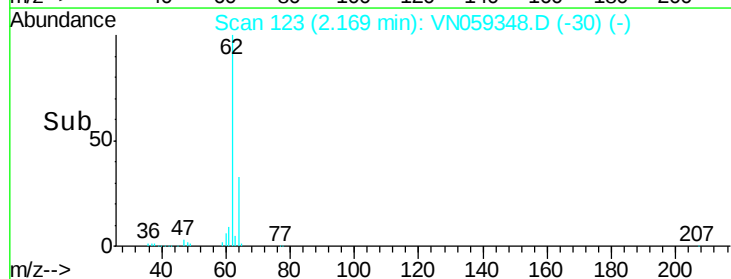
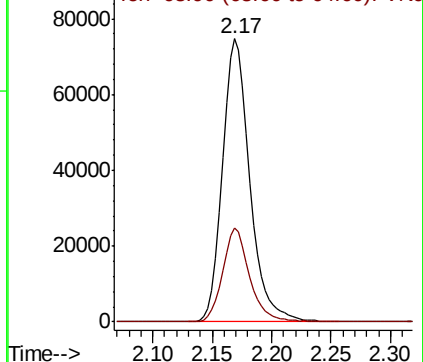
62 100

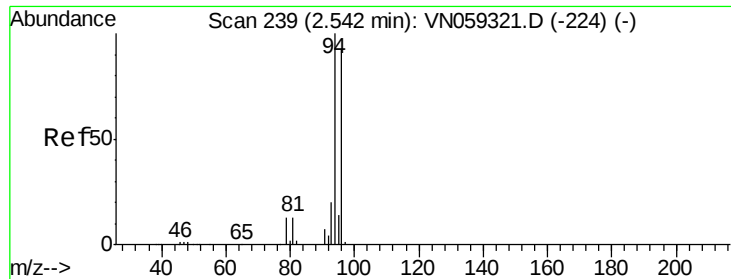
64 33.0 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 19.576 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

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ClientSampleId :

VN1121WBSD02

Tot Ion: 94 Resp: 63837

Ion Ratio Lower Upper

94 100

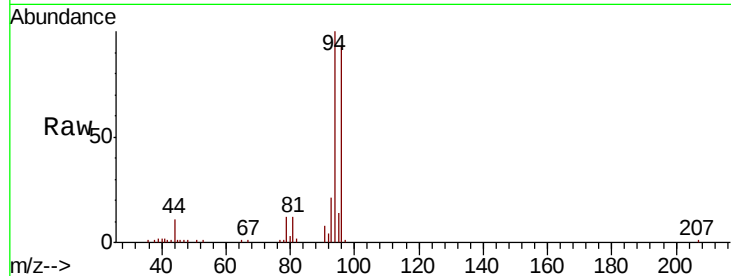
96 93.5 74.5 111.7

Manual Integrations

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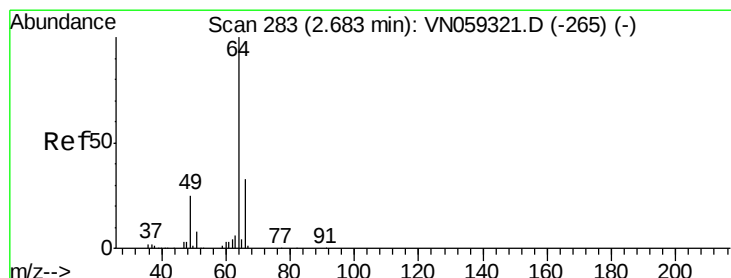
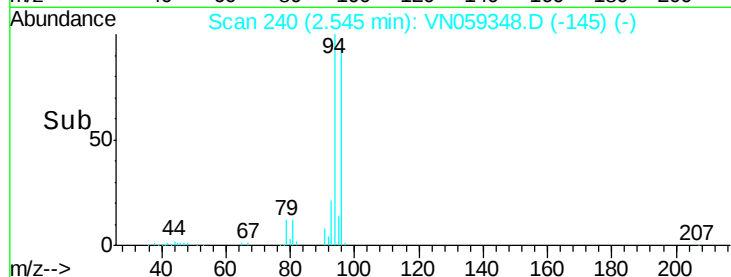
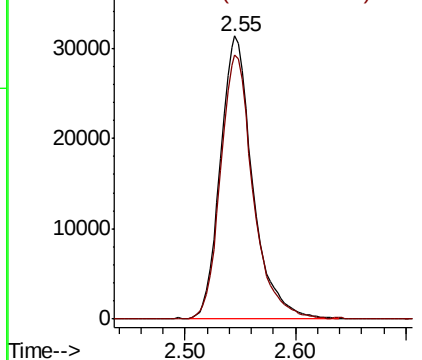
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Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC



#6

Chloroethane

Concen: 18.955 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN059348.D

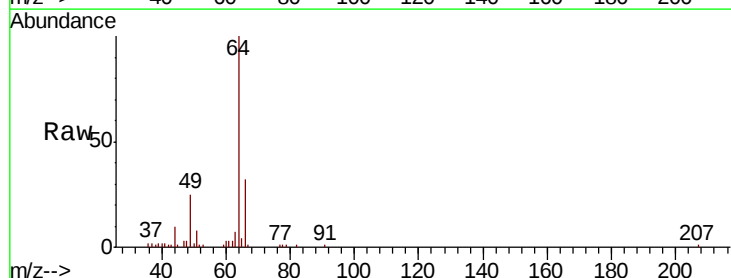
Acq: 21 Nov 2019 19:51

Tgt Ion: 64 Resp: 60765

Ion Ratio Lower Upper

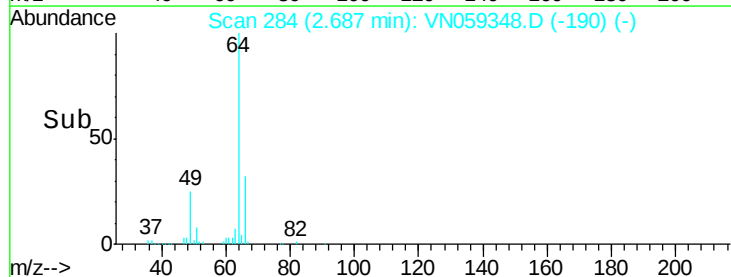
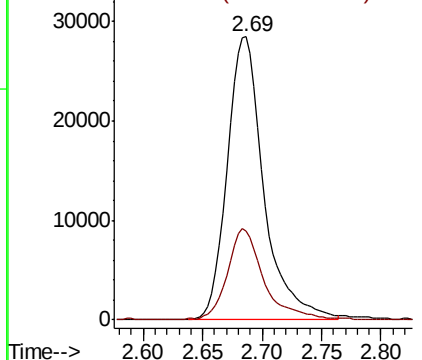
64 100

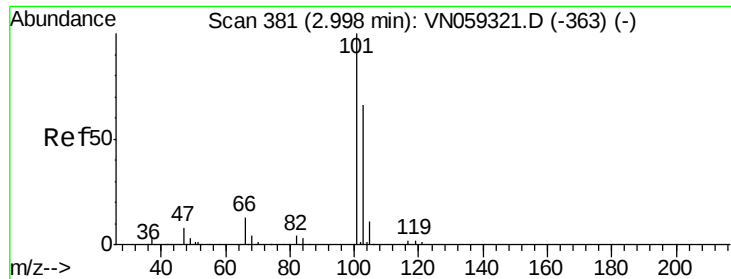
66 31.0 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VNC

Ion 65.90 (65.60 to 66.60): VNC





#7

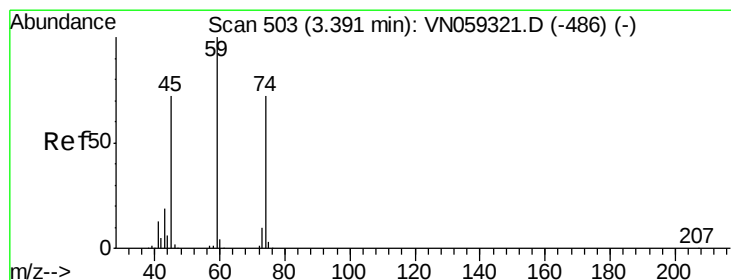
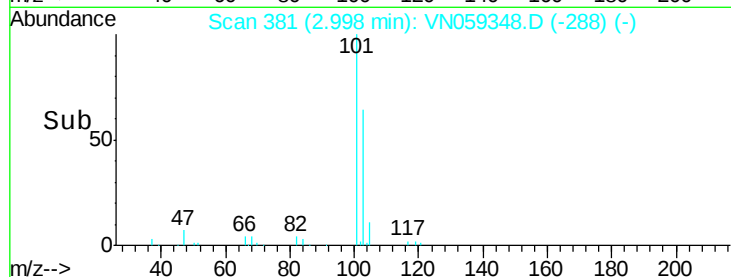
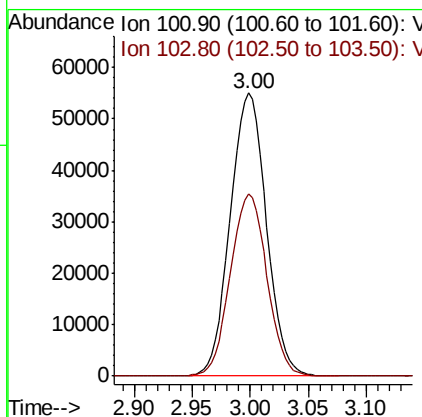
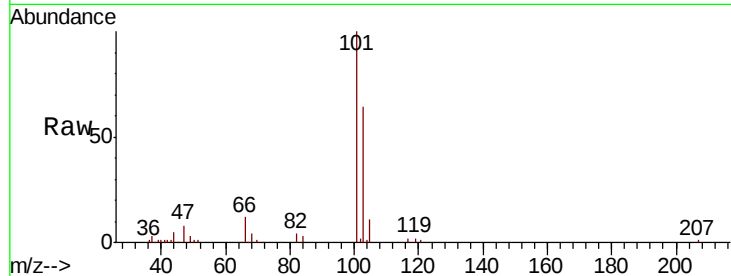
Trichlorofluoromethane
Concen: 18.828 ug/l
RT: 3.00 min Scan# 381
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.2	52.5	78.7

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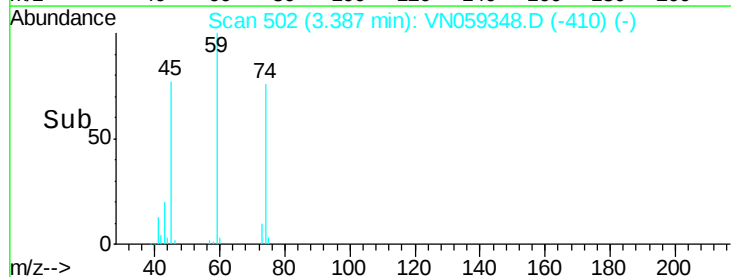
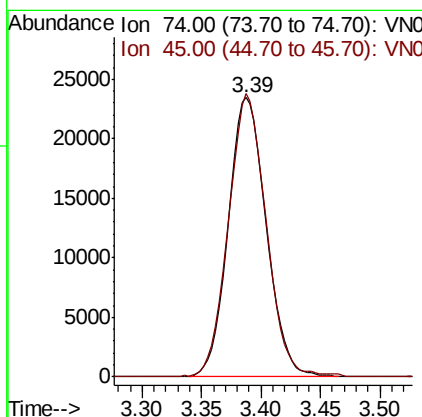
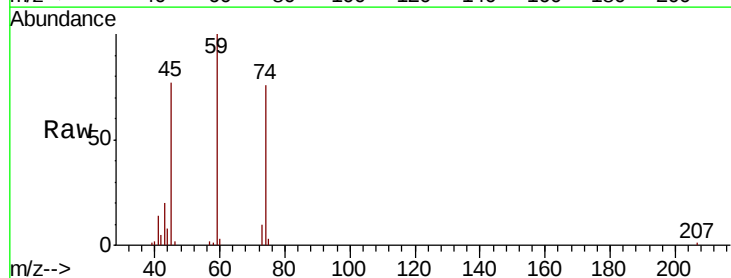
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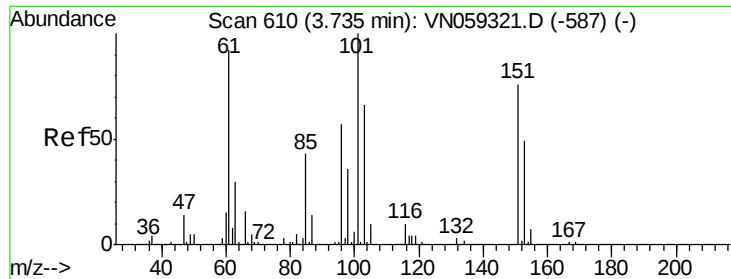


#8

Diethyl Ether
Concen: 20.059 ug/l
RT: 3.39 min Scan# 502
Delta R.T. -0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
74	100		
45	101.0	51.7	155.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.180 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

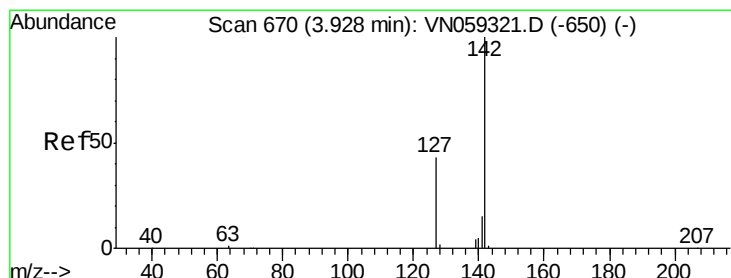
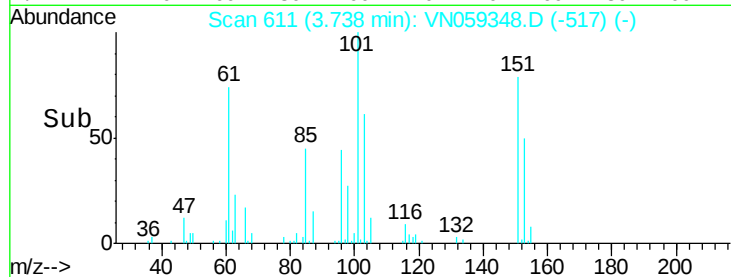
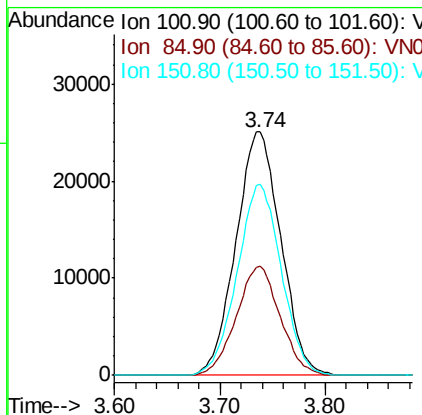
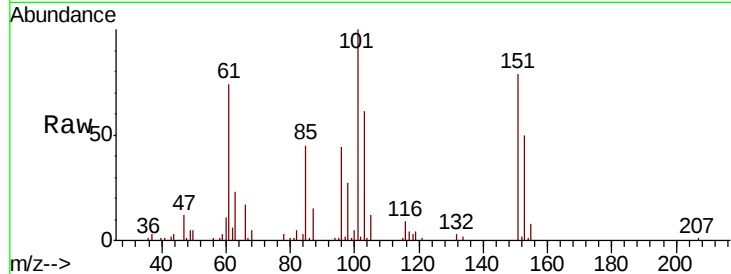
ClientSampleId :

VN1121WBSD02

Tot Ion:	101	Resp:	74183
Ion Ratio	Lower	Upper	
101	100		
85	43.6	34.8	52.2
151	77.1	62.2	93.4

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#10

Methyl Iodide

Concen: 20.001 ug/l

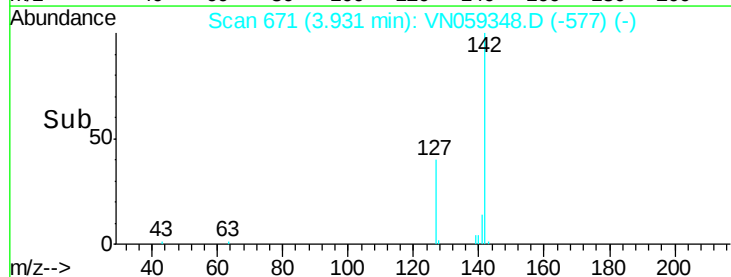
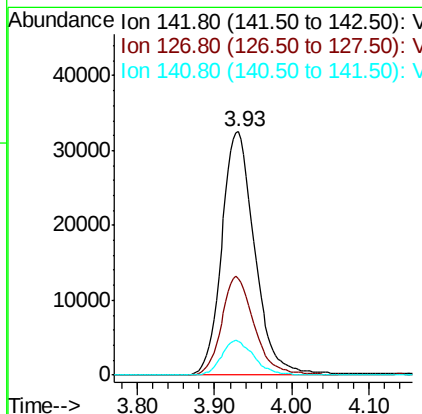
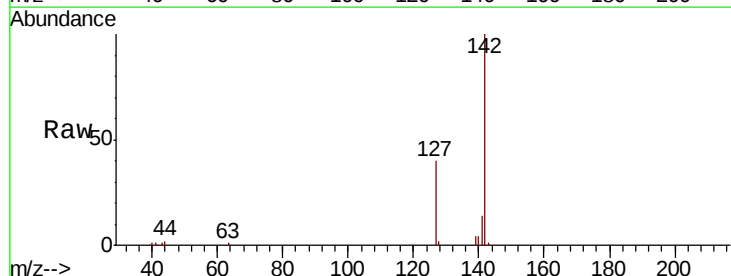
RT: 3.93 min Scan# 671

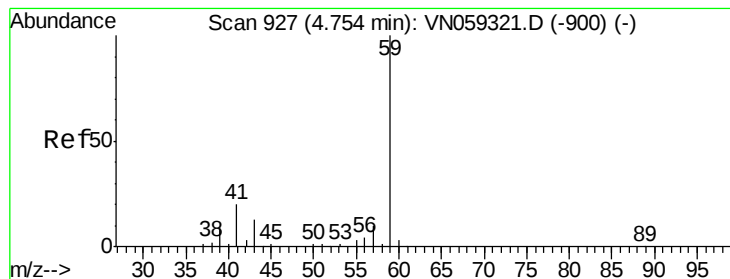
Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Tgt Ion:	142	Resp:	96145
Ion Ratio	Lower	Upper	
142	100		
127	40.0	33.8	50.6
141	13.9	11.2	16.8





#11

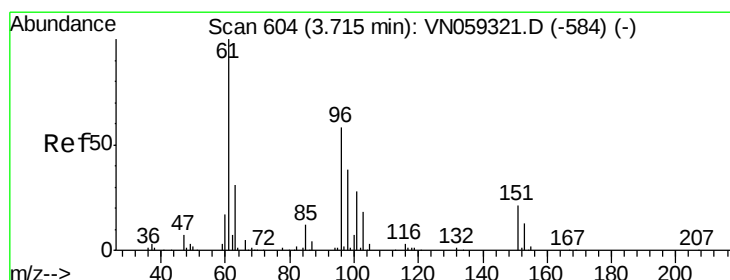
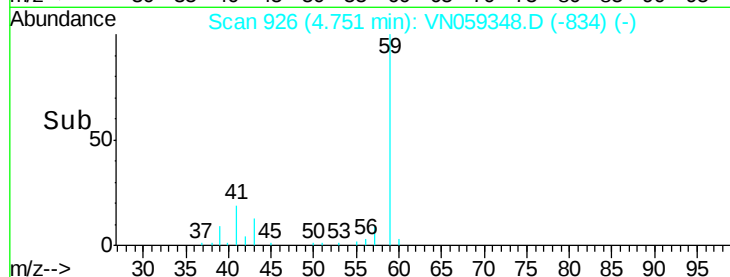
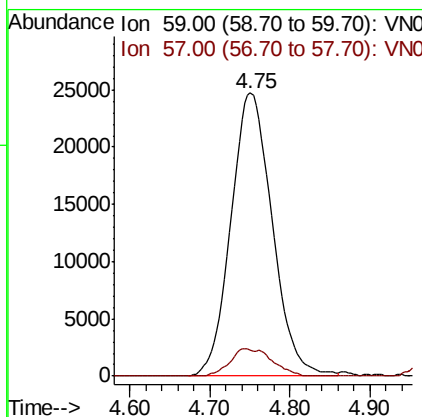
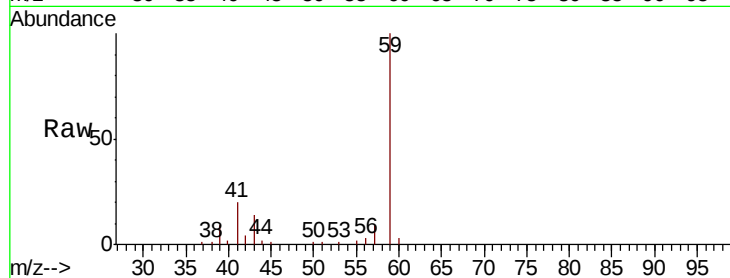
Tert butyl alcohol
 Concen: 99.679 ug/l
 RT: 4.75 min Scan# 926
 Delta R.T. -0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBSD02

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.2	12.2

Manual Integrations
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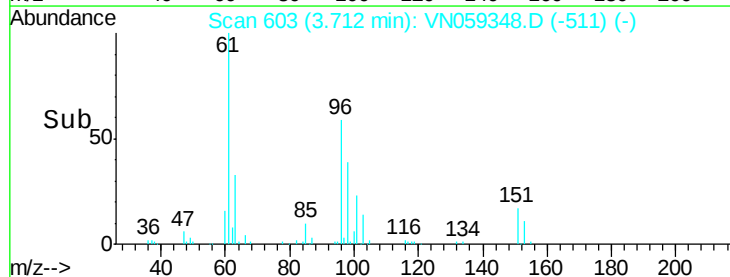
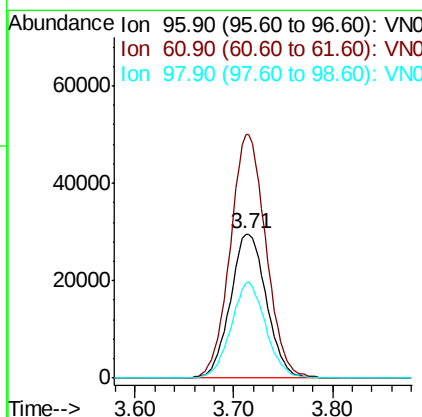
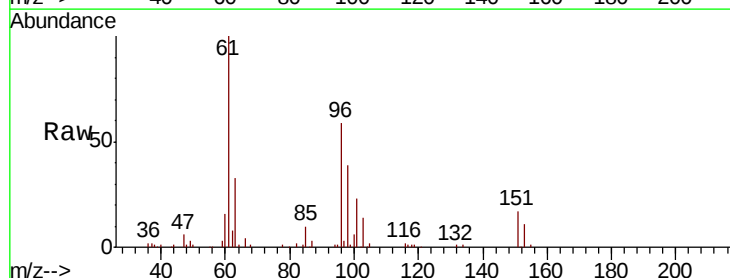
MMDadoda
 11/22/2019 3:13:02 PM

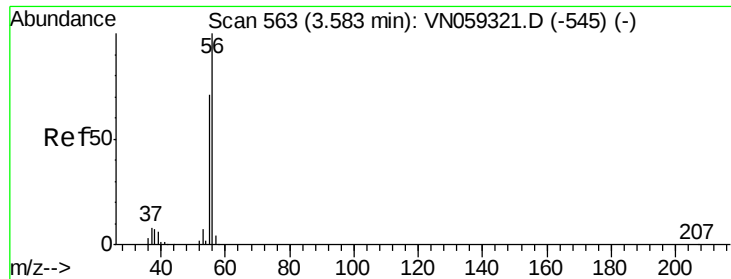


#12

1,1-Dichloroethene
 Concen: 19.166 ug/l
 RT: 3.71 min Scan# 603
 Delta R.T. -0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	169.0	136.8	205.2
98	65.9	51.6	77.4





#13

Acrolein

Concen: 90.356 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBSD02

Tot Ion: 56 Resp: 72076

Ion Ratio Lower Upper

56 100

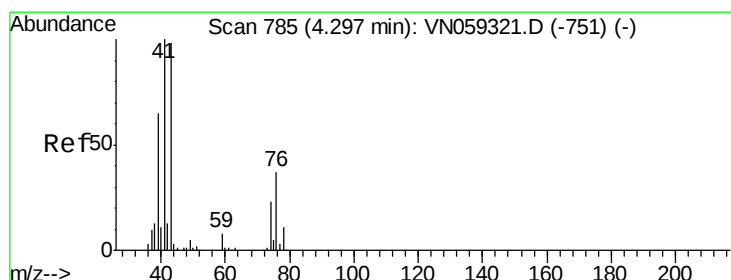
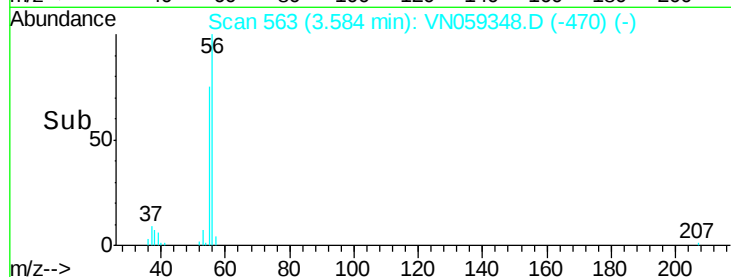
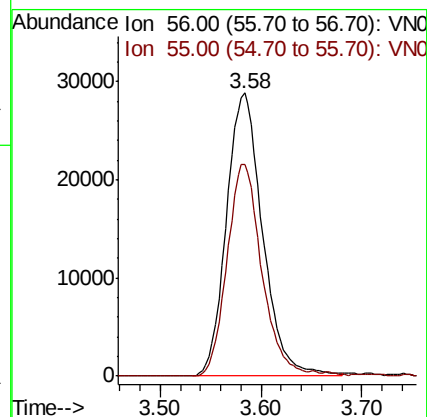
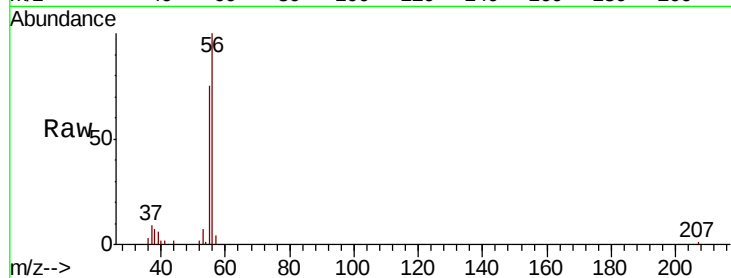
55 71.4 57.4 86.0

Manual Integrations

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#14

Allyl chloride

Concen: 19.238 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

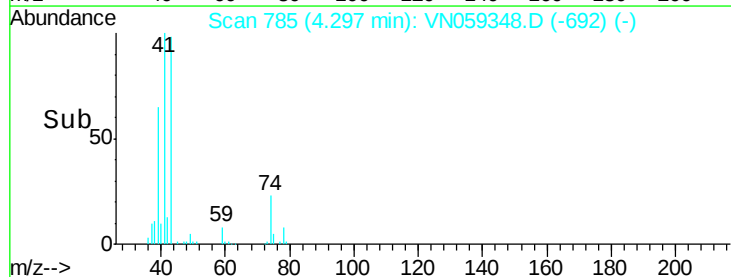
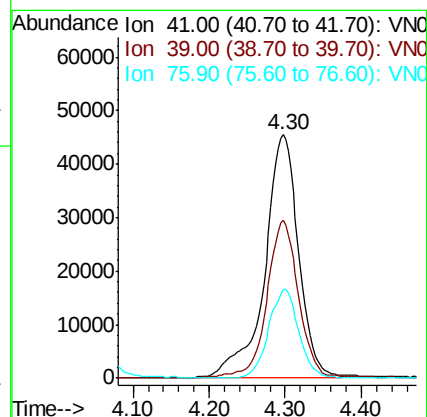
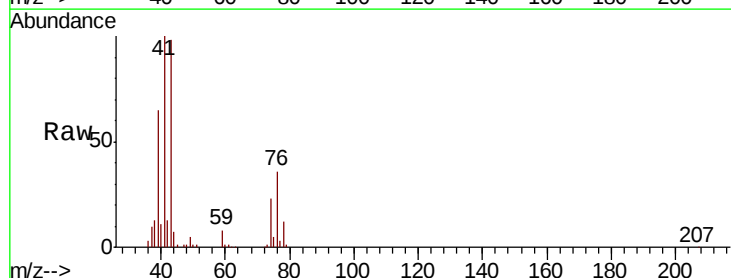
Tgt Ion: 41 Resp: 141099

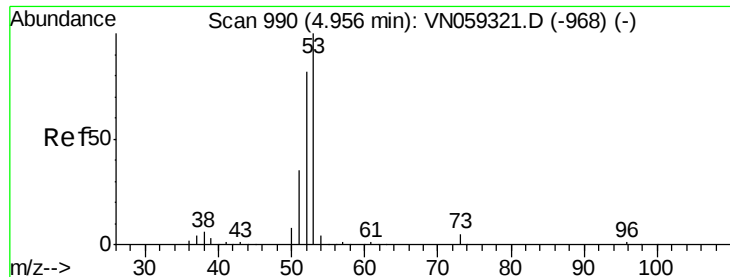
Ion Ratio Lower Upper

41 100

39 58.6 48.4 72.6

76 32.4 26.2 39.4





#15

Acrylonitrile

Concen: 97.756 ug/l

RT: 4.95 min Scan# 989

Delta R.T. -0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

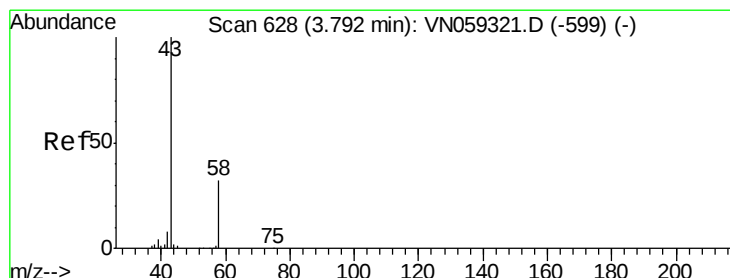
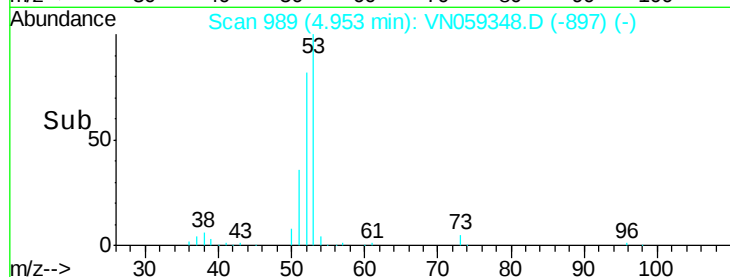
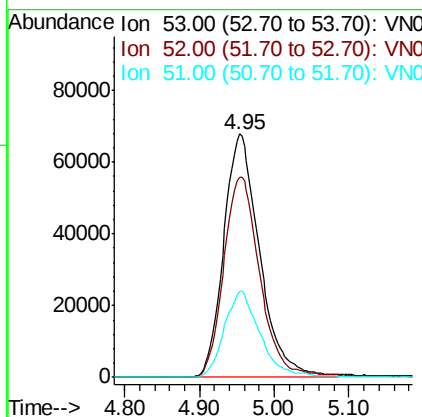
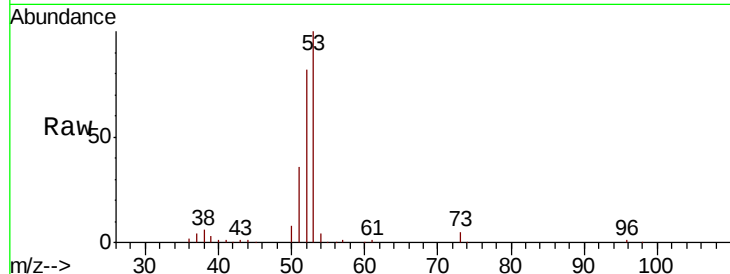
ClientSampleId :

VN1121WBSD02

Tot Ion:	53	Resp:	225861
Ion	Ratio	Lower	Upper
53	100		
52	82.6	65.8	98.8
51	35.5	28.2	42.2

Manual Integrations
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#16

Acetone

Concen: 92.187 ug/l

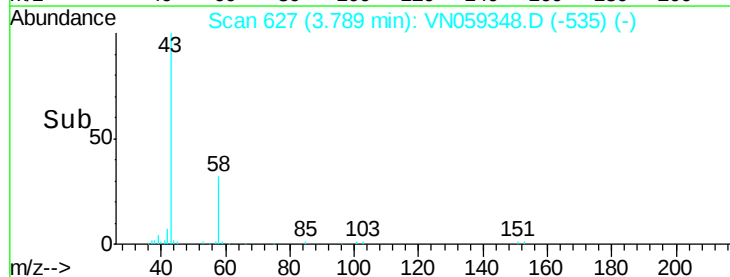
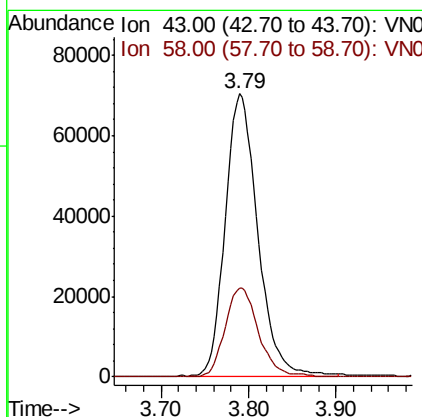
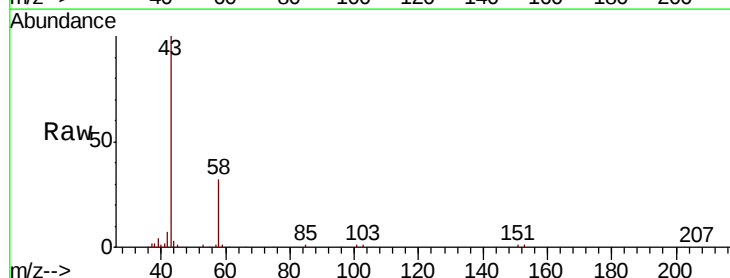
RT: 3.79 min Scan# 627

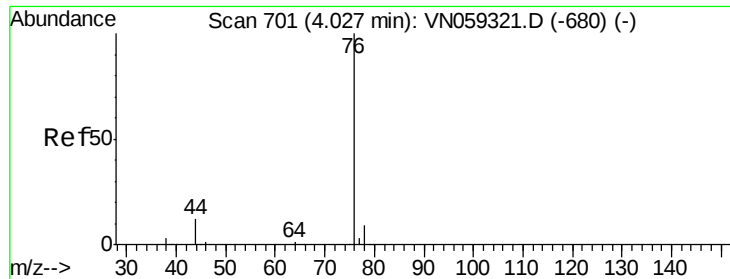
Delta R.T. -0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Tgt Ion:	43	Resp:	180408
Ion	Ratio	Lower	Upper
43	100		
58	31.6	25.8	38.6





#17

Carbon Disulfide

Concen: 18.901 ug/l

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBSD02

Tot Ion: 76 Resp: 231481

Ion Ratio Lower Upper

76 100

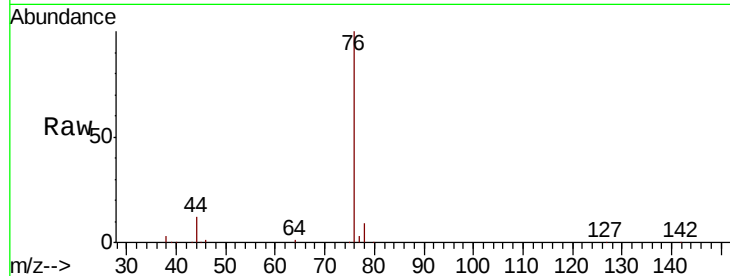
78 8.9 7.2 10.8

Manual Integrations

APPROVED

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Abundance Ion 75.90 (75.60 to 76.60): VN059321.D (-680) (-)

Ion 77.90 (77.60 to 78.60): VN059321.D (-680) (-)

4.03

100000

80000

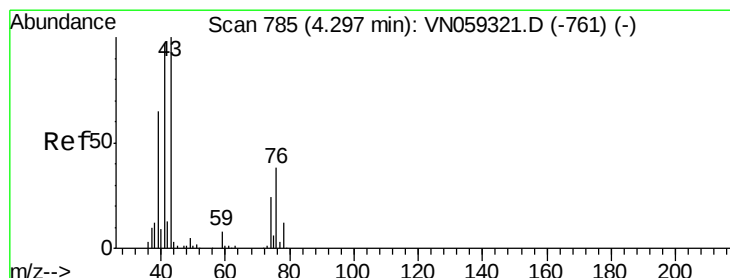
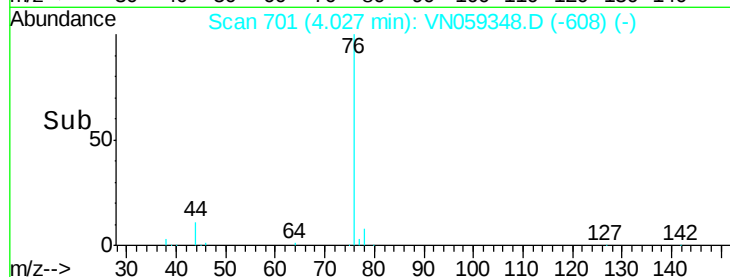
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 19.547 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN059348.D

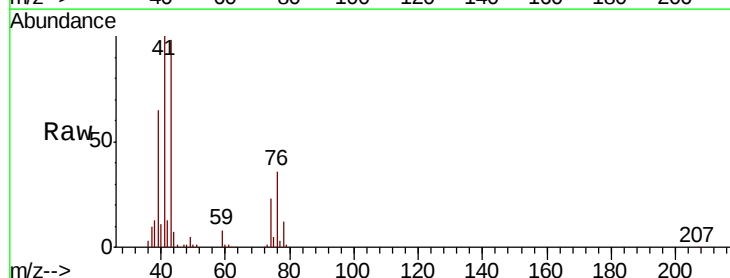
Acq: 21 Nov 2019 19:51

Tgt Ion: 43 Resp: 126952

Ion Ratio Lower Upper

43 100

74 23.5 18.1 27.1



Abundance Ion 43.00 (42.70 to 43.70): VN059321.D (-761) (-)

Ion 74.00 (73.70 to 74.70): VN059321.D (-761) (-)

4.30

50000

40000

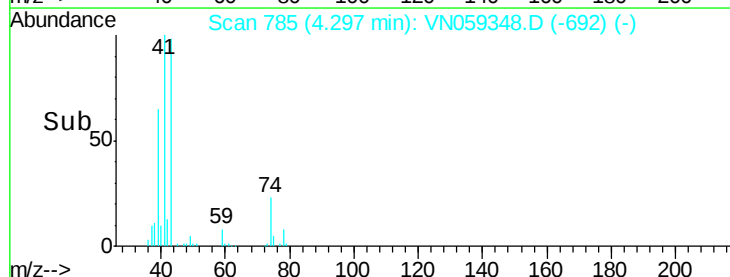
30000

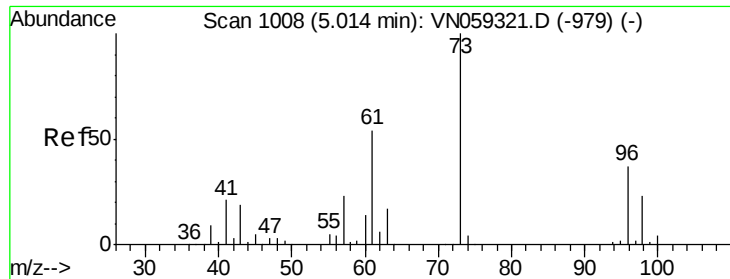
20000

10000

0

Time-->





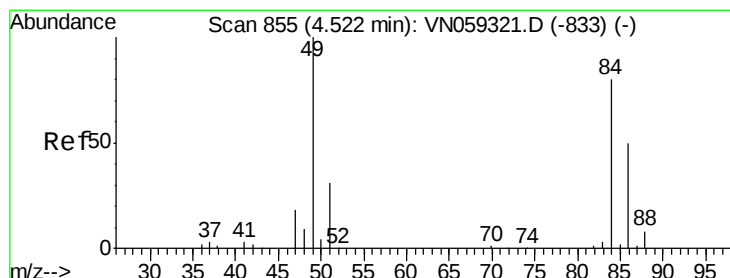
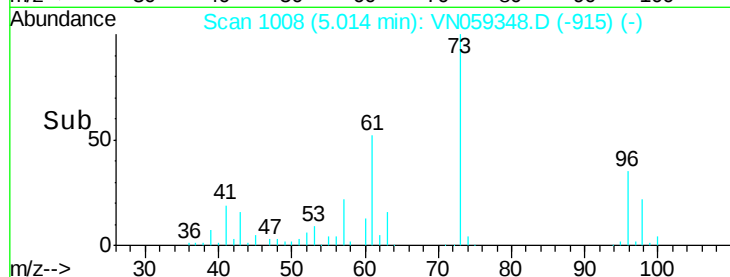
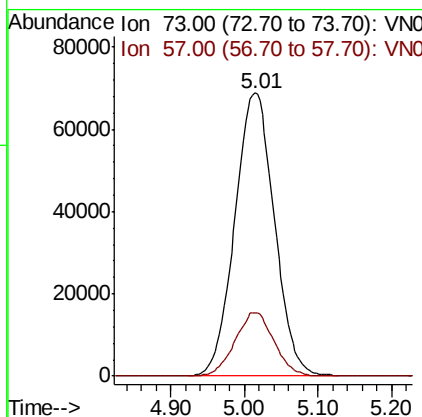
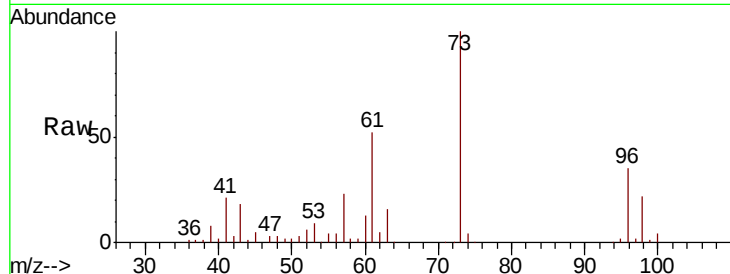
#19
Methyl tert-butyl Ether
Concen: 20.294 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion: 73 Resp: 257338
Ion Ratio Lower Upper
73 100
57 22.6 18.4 27.6

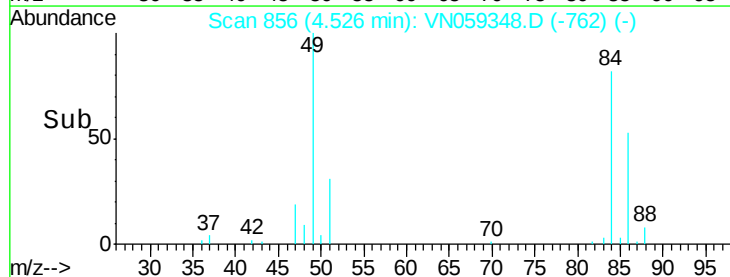
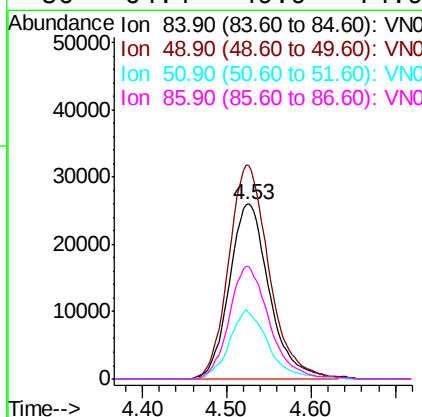
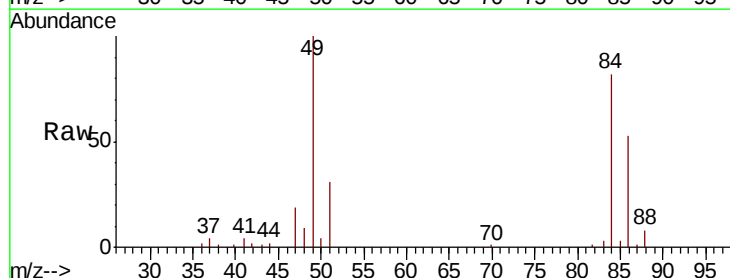
Manual Integrations
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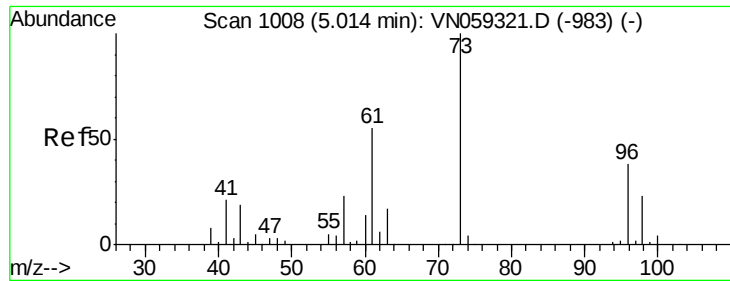
MMDadoda
11/22/2019 3:13:02 PM



#20
Methylene Chloride
Concen: 19.455 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion: 84 Resp: 85869
Ion Ratio Lower Upper
84 100
49 122.2 99.5 149.3
51 38.3 31.1 46.7
86 64.4 49.9 74.9





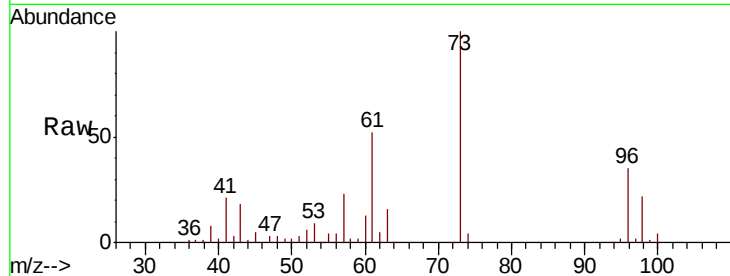
#21
trans-1,2-Dichloroethene
Concen: 19.113 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	147.8	116.4	174.6
98	63.7	49.6	74.4

Manual Integrations
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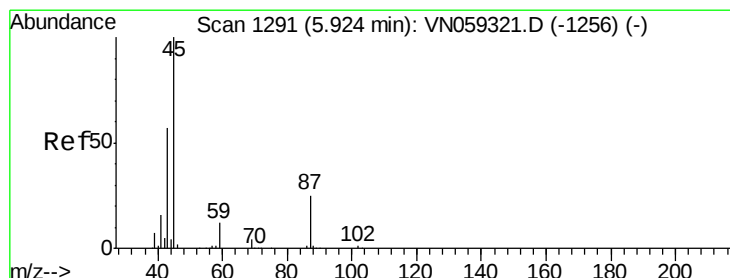
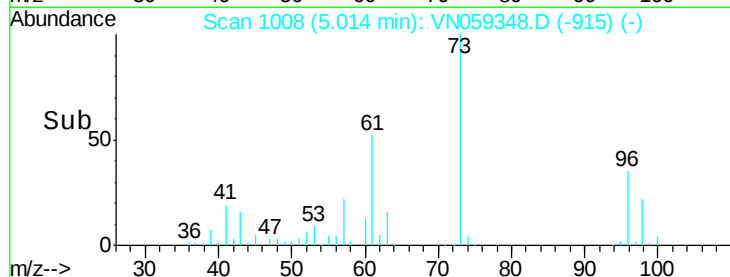
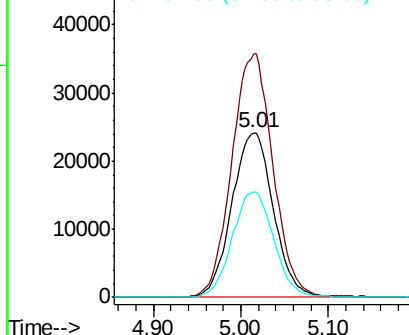


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22
Diisopropyl ether
Concen: 19.471 ug/l
RT: 5.92 min Scan# 1291
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.7	47.6	71.4
87	28.1	20.7	31.1
59	11.2	9.4	14.2

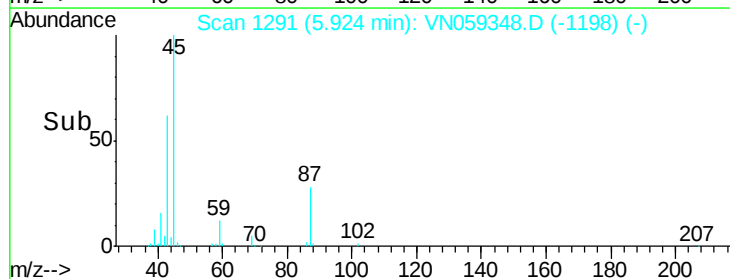
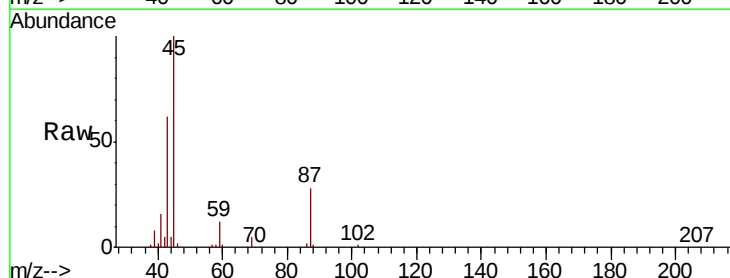
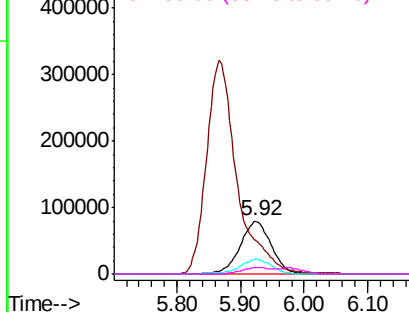
Abundance

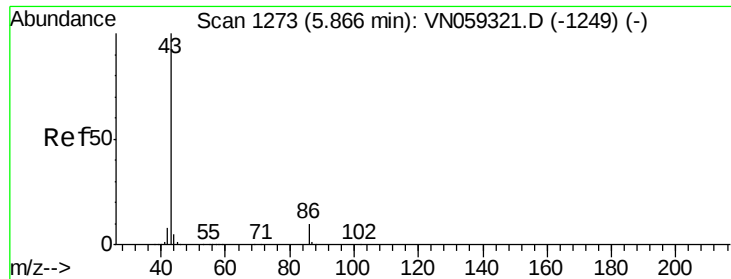
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





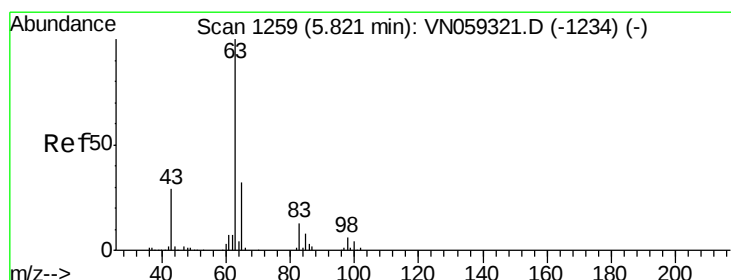
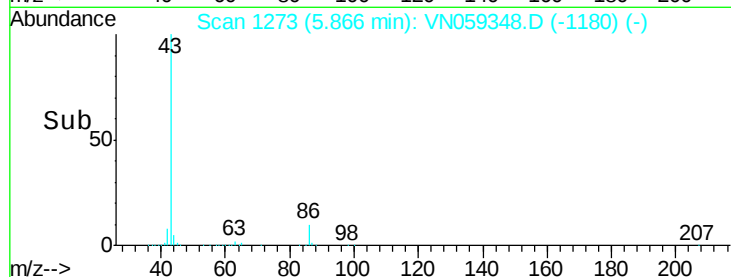
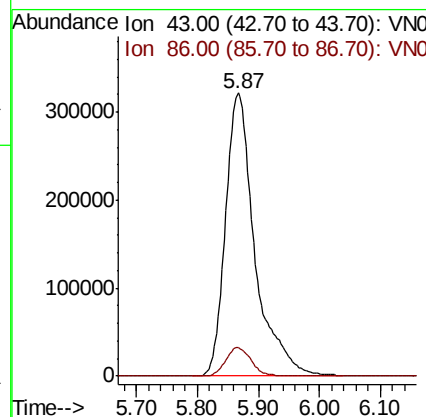
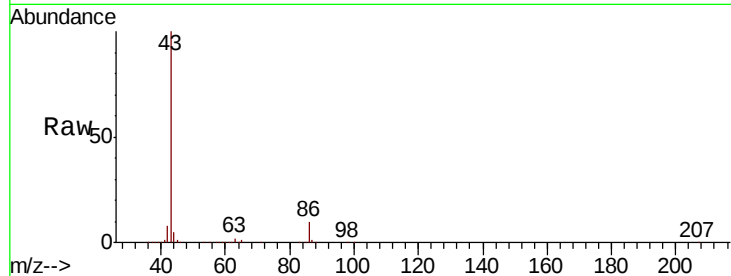
#23
 Vinyl Acetate
 Concen: 98.915 ug/l
 RT: 5.87 min Scan# 1273
 Delta R.T. 0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBSD02

Tot Ion: 43 Resp: 1074130
 Ion Ratio Lower Upper
 43 100
 86 10.0 8.0 12.0

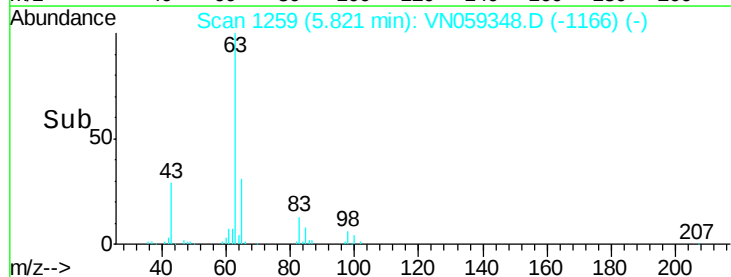
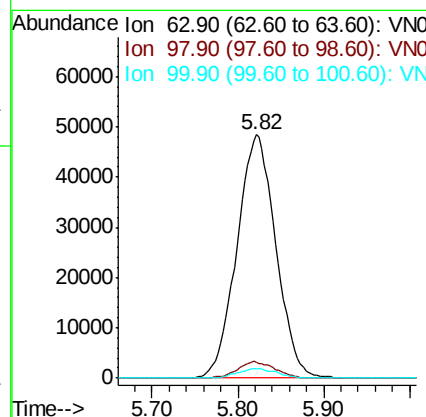
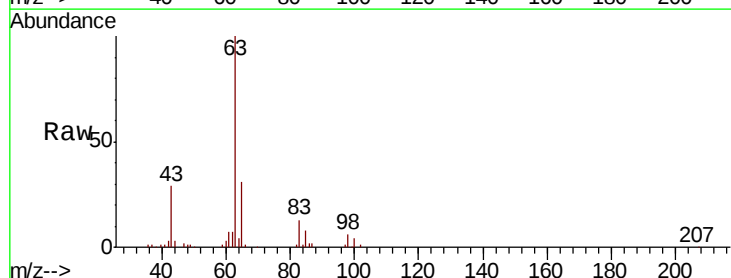
Manual Integrations
 APPROVED

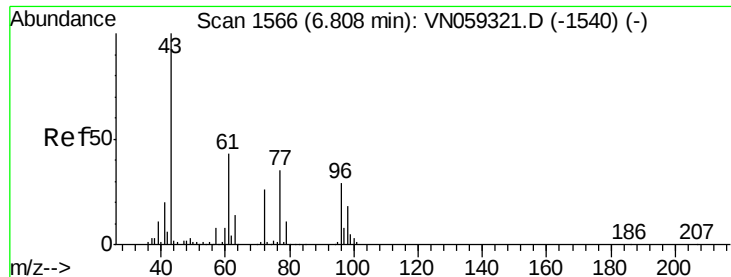
MMDadoda
 11/22/2019 3:13:02 PM



#24
 1,1-Dichloroethane
 Concen: 19.612 ug/l
 RT: 5.82 min Scan# 1259
 Delta R.T. 0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Tgt Ion: 63 Resp: 152442
 Ion Ratio Lower Upper
 63 100
 98 6.5 2.9 8.8
 100 4.0 1.9 5.7





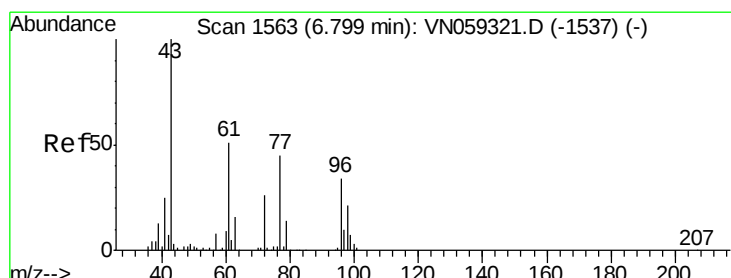
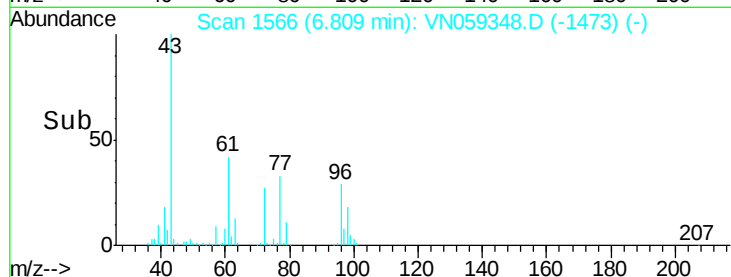
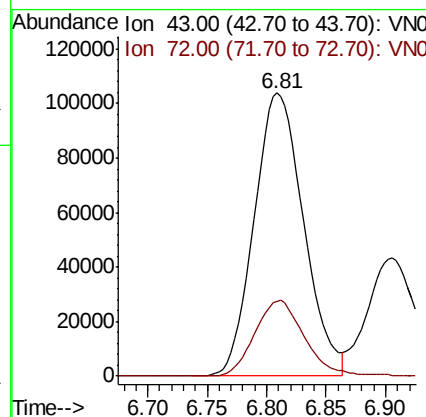
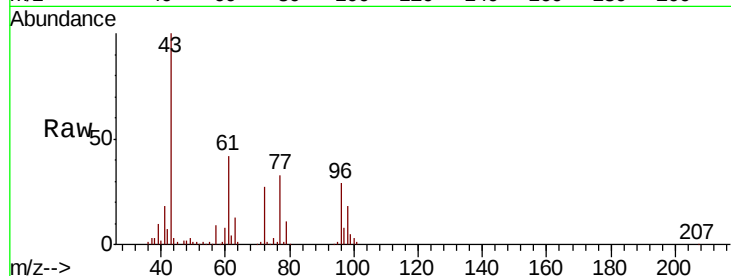
#25
2-Butanone
Concen: 97.915 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion: 43 Resp: 297964
Ion Ratio Lower Upper
43 100
72 26.7 20.5 30.7

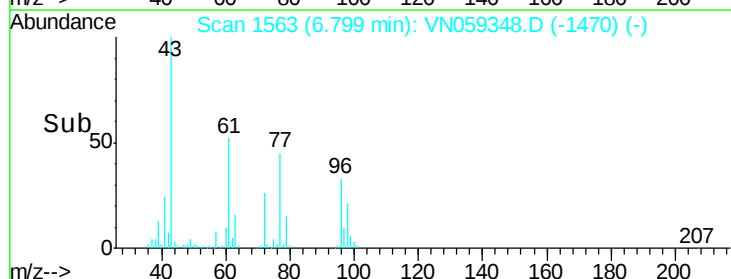
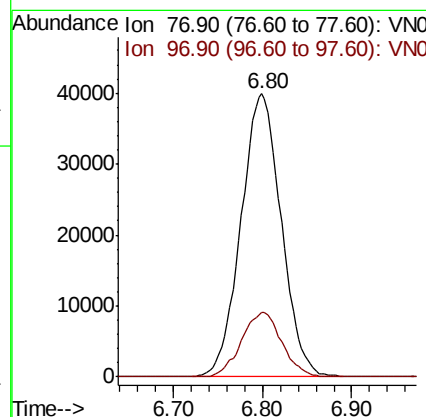
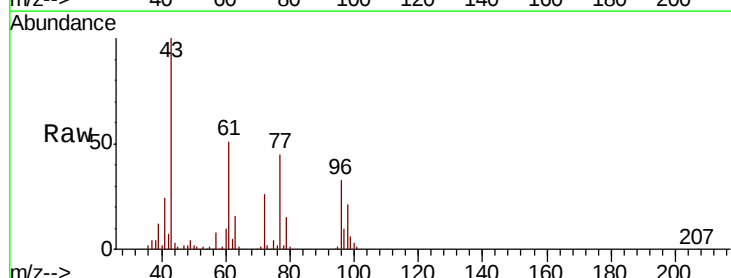
Manual Integrations
APPROVED

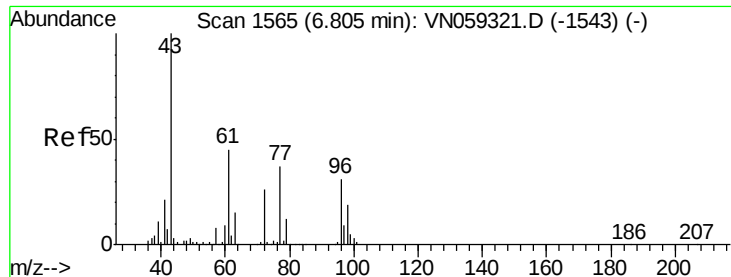
MMDadoda
11/22/2019 3:13:02 PM



#26
2,2-Dichloropropane
Concen: 18.577 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion: 77 Resp: 125030
Ion Ratio Lower Upper
77 100
97 22.8 11.5 34.4





#27

cis-1,2-Dichloroethene

Concen: 19.260 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

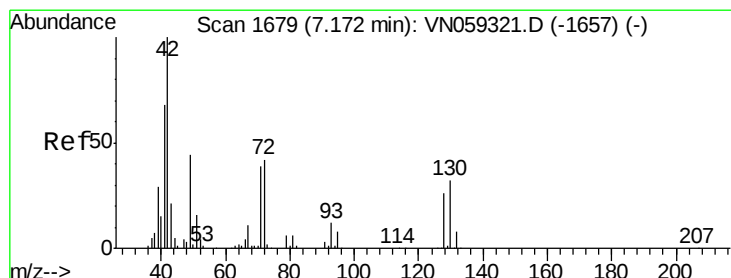
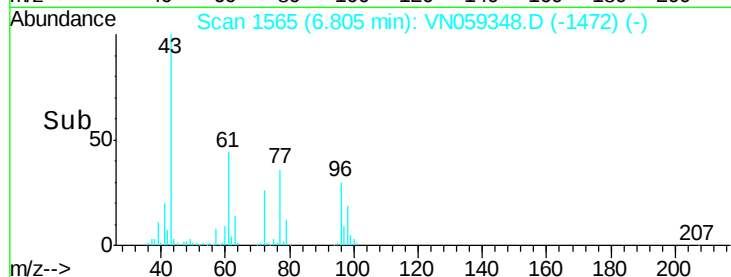
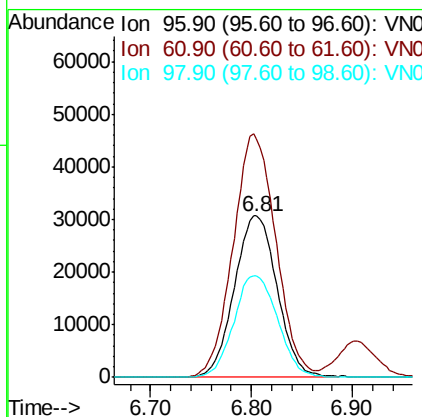
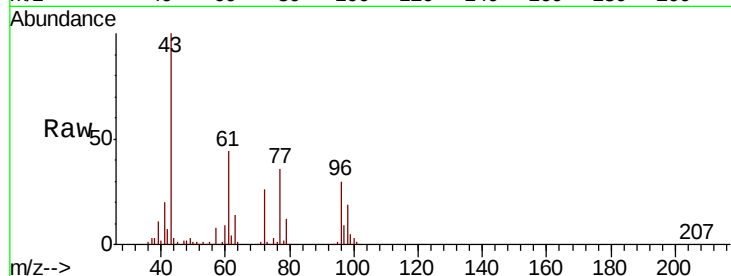
ClientSampleId :

VN1121WBSD02

Tot Ion:	96	Resp:	90415
Ion	Ratio	Lower	Upper
96	100		
61	150.6	0.0	304.0
98	64.4	0.0	128.4

Manual Integrations
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11/22/2019 3:13:02 PM



#28

Bromochloromethane

Concen: 21.183 ug/l

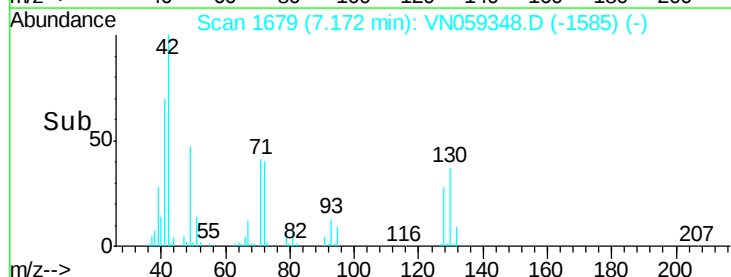
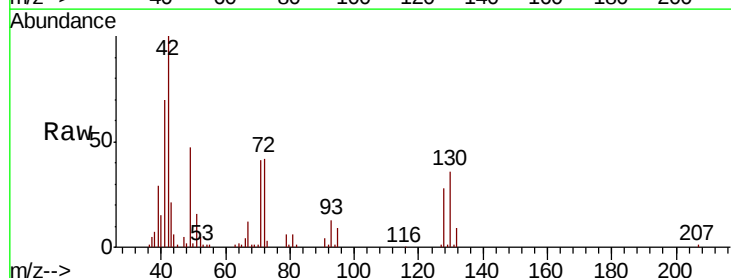
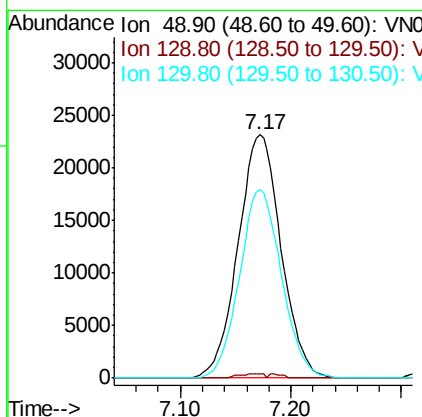
RT: 7.17 min Scan# 1679

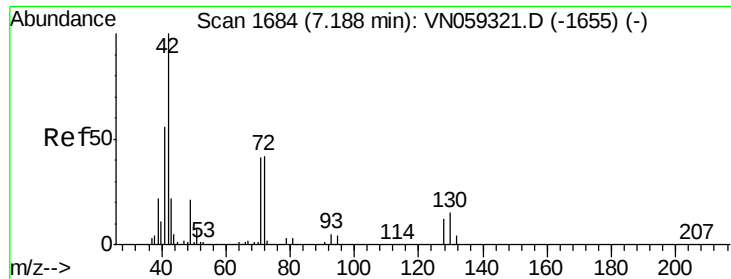
Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Tgt Ion:	49	Resp:	62567
Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	3.8
130	75.5	57.0	85.6





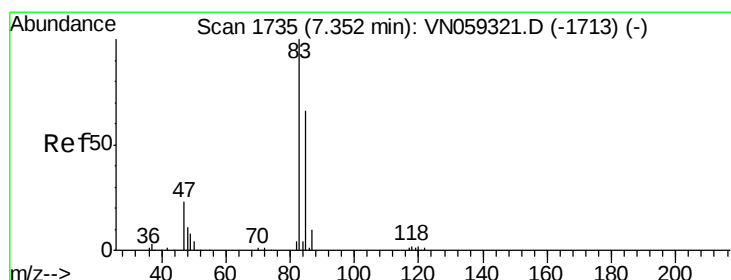
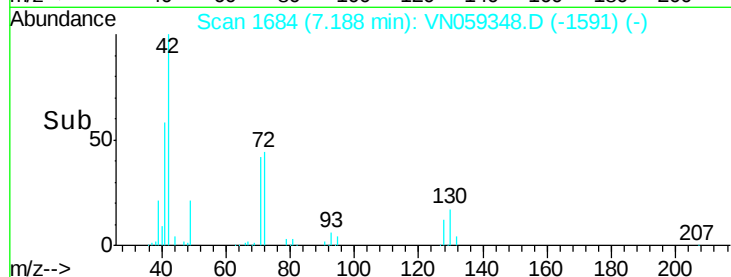
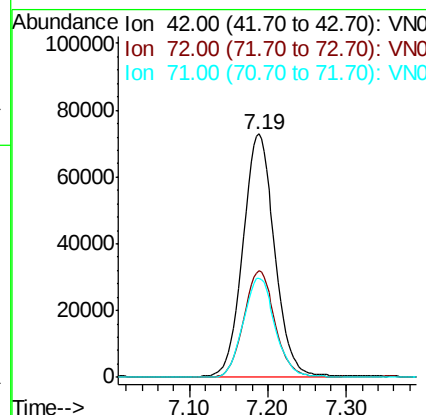
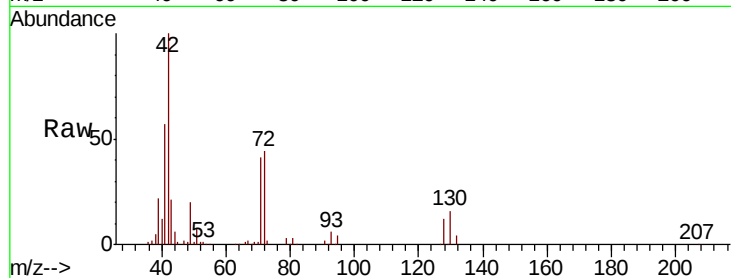
#29
Tetrahydrofuran
Concen: 98.678 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.1	34.2	51.2
71	40.6	32.6	48.8

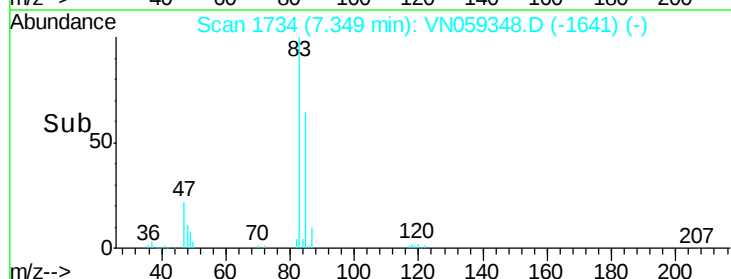
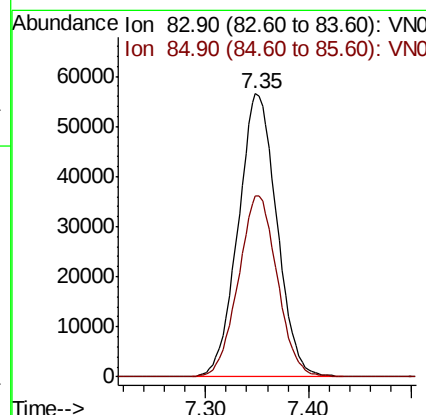
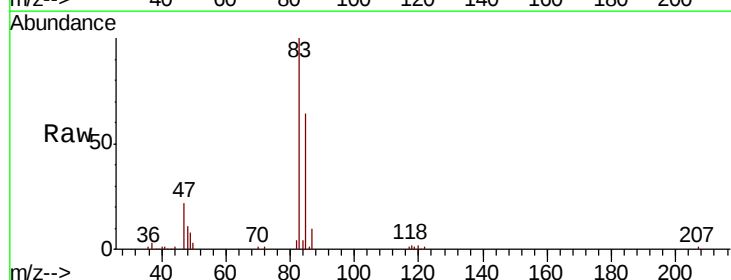
Manual Integrations
APPROVED

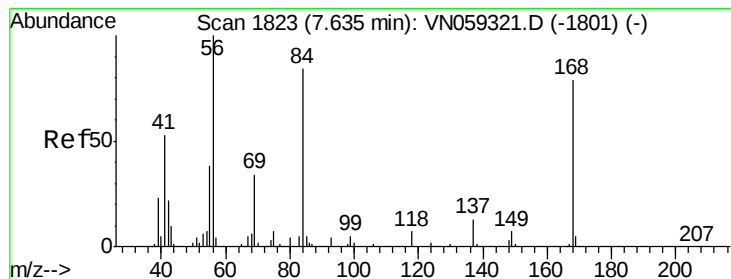
MMDadoda
11/22/2019 3:13:02 PM



#30
Chloroform
Concen: 19.407 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.7	79.1





#31

Cyclohexane

Concen: 19.264 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

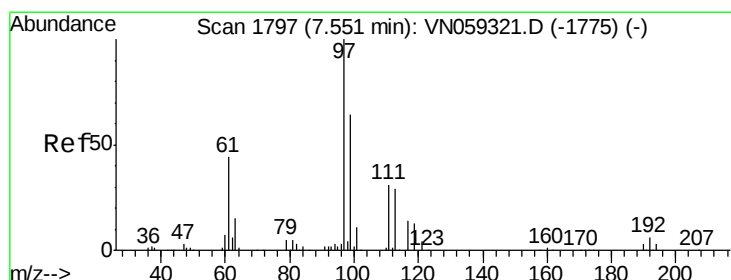
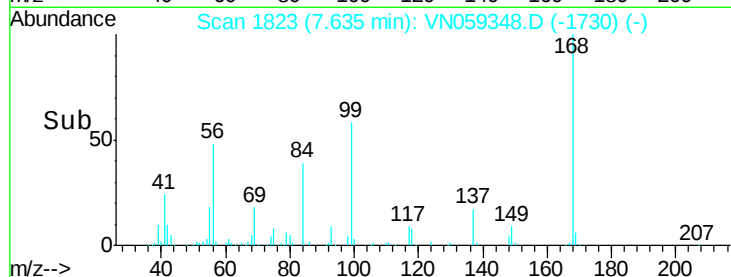
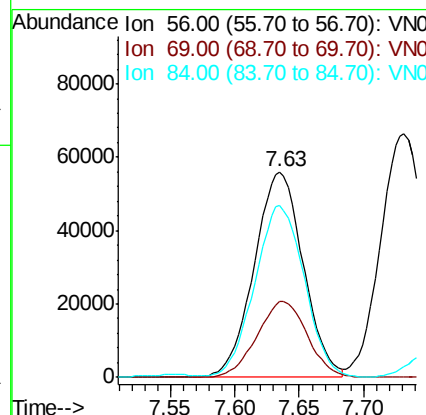
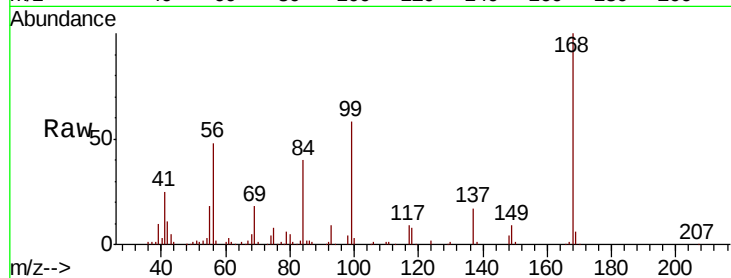
ClientSampleId :

VN1121WBSD02

Tot Ion:	56	Resp:	148044
Ion Ratio	Lower	Upper	
56	100		
69	36.7	26.6	40.0
84	82.5	67.0	100.4

Manual Integrations
APPROVED

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#32

1,1,1-Trichloroethane

Concen: 19.270 ug/l

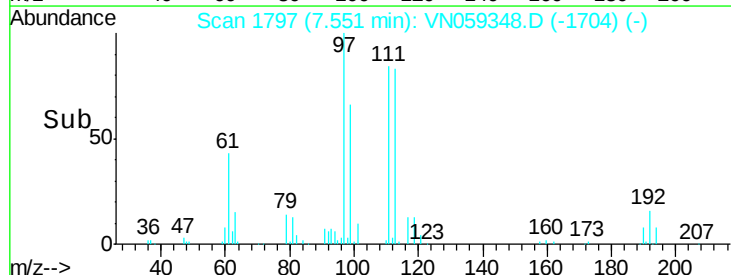
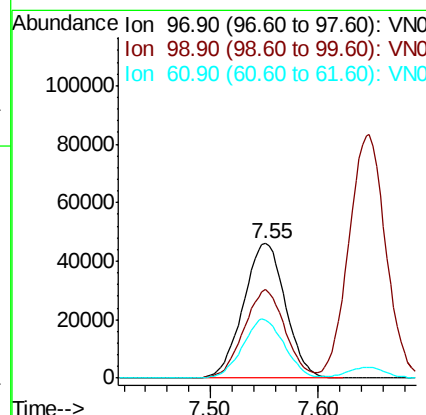
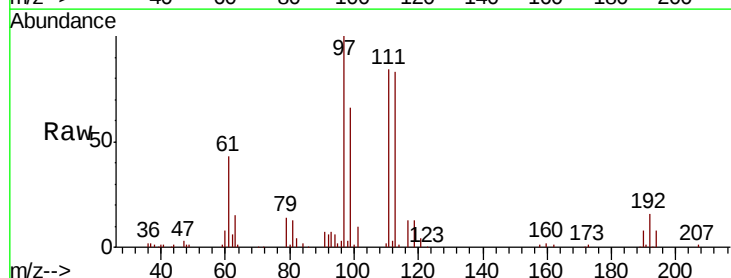
RT: 7.55 min Scan# 1797

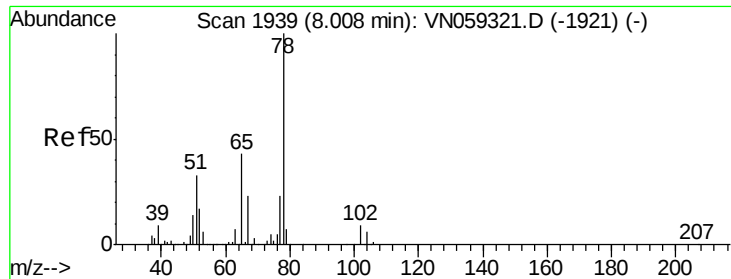
Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Tgt Ion:	97	Resp:	124880
Ion Ratio	Lower	Upper	
97	100		
99	64.2	51.3	76.9
61	43.3	35.3	52.9





#33

1,2-Dichloroethane-d4

Concen: 52.517 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBSD02

Tot Ion: 65 Resp: 229213

Ion Ratio Lower Upper

65 100

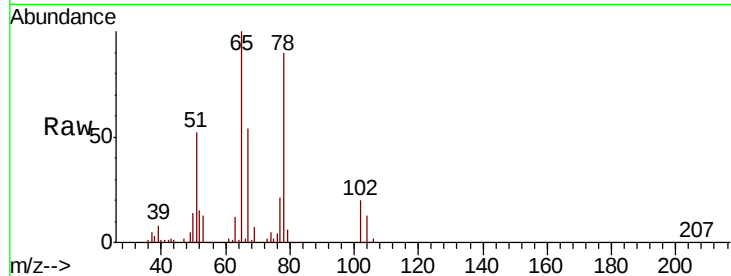
67 54.7 0.0 109.4

Manual Integrations

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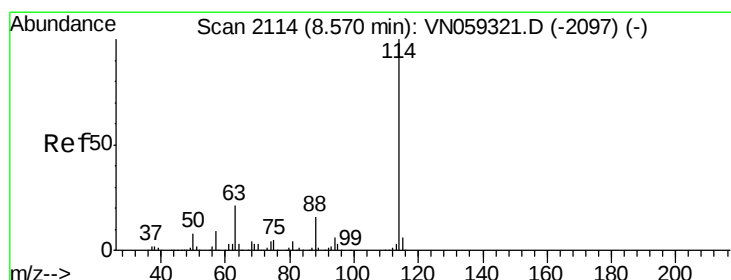
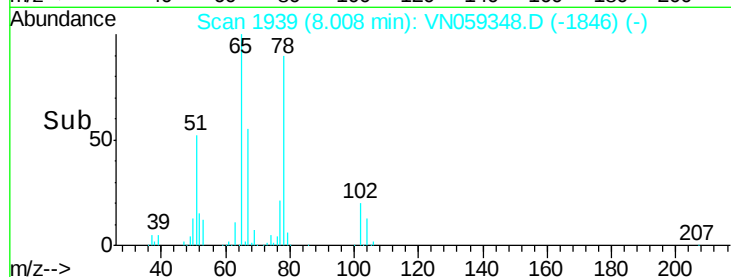
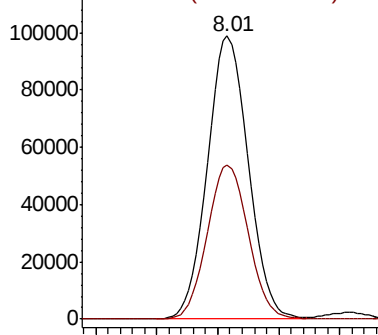
MMDadoda

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Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

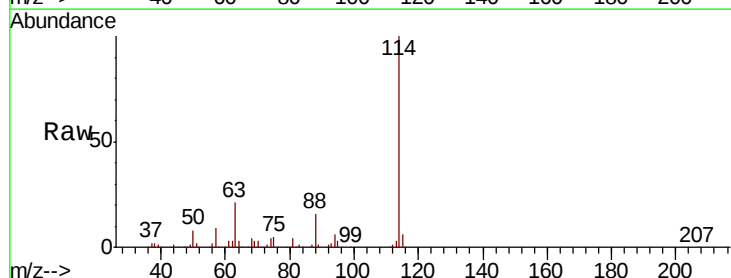
Tgt Ion: 114 Resp: 582885

Ion Ratio Lower Upper

114 100

63 21.5 0.0 42.2

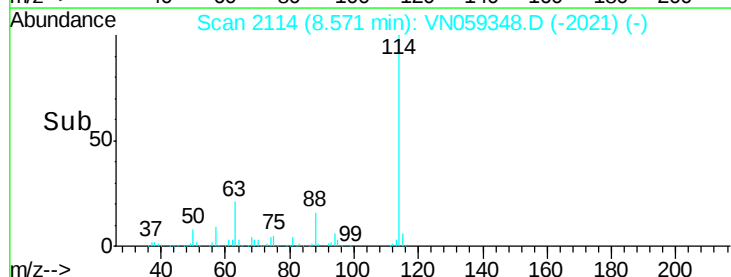
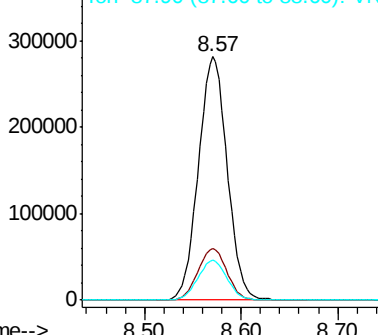
88 16.3 0.0 32.2

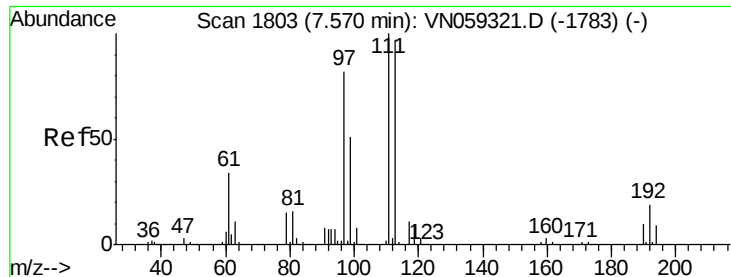


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





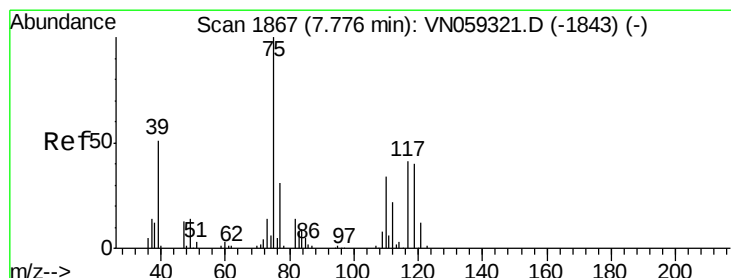
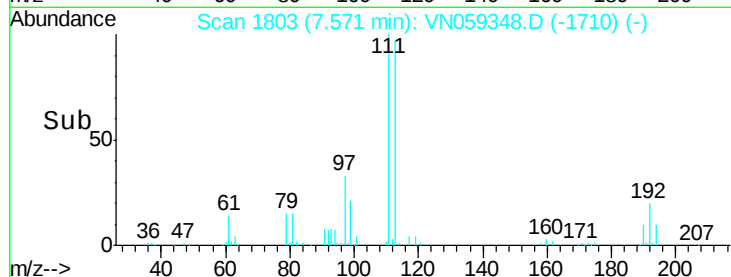
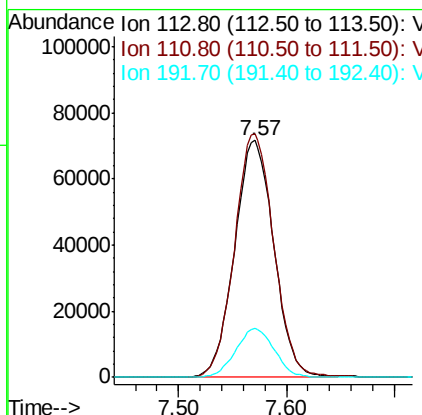
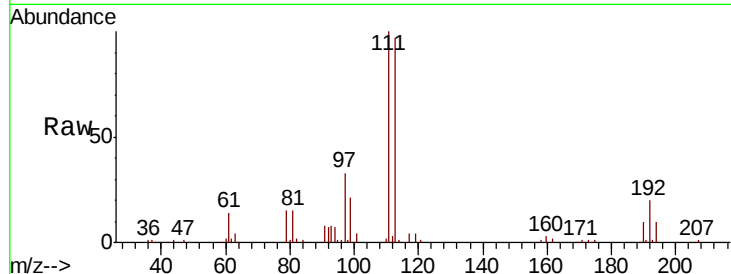
#35
 Dibromofluoromethane
 Concen: 51.972 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	181744		
111	102.8	82.7	124.1	
192	20.3	16.3	24.5	

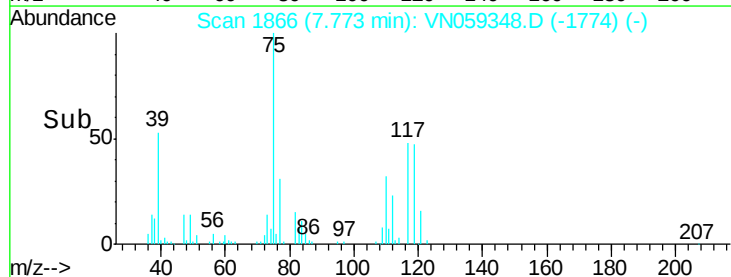
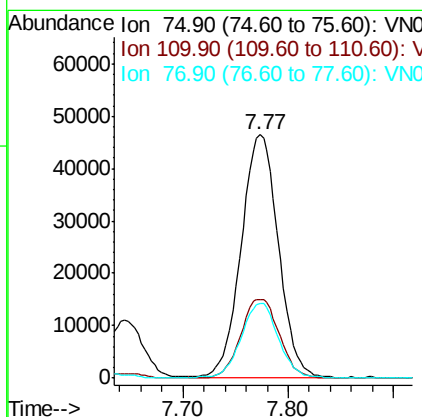
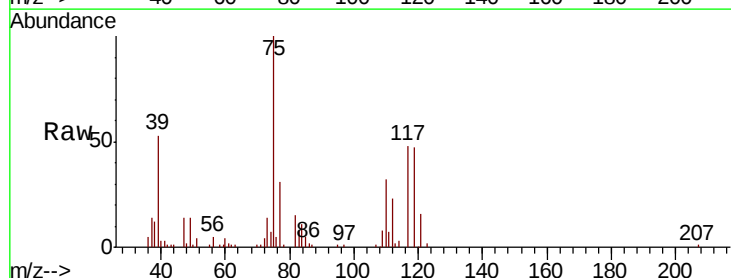
Manual Integrations
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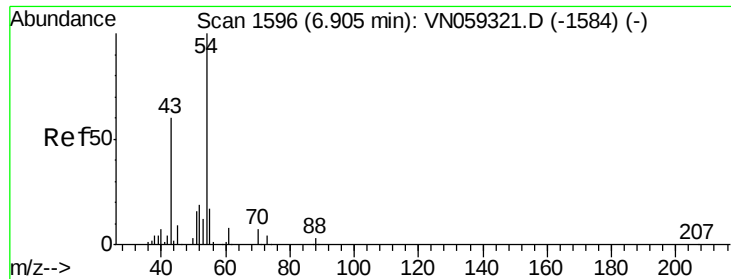
MMDadoda
 11/22/2019 3:13:02 PM



#36
 1,1-Dichloropropene
 Concen: 18.871 ug/l
 RT: 7.77 min Scan# 1866
 Delta R.T. -0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	113553		
110	33.4	17.0	51.0	
77	31.1	24.8	37.2	





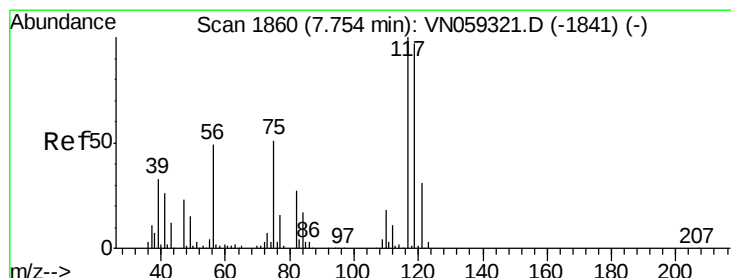
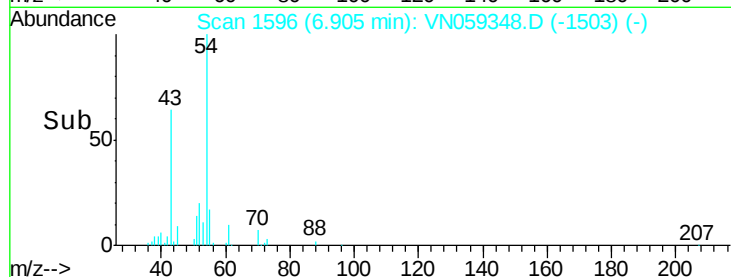
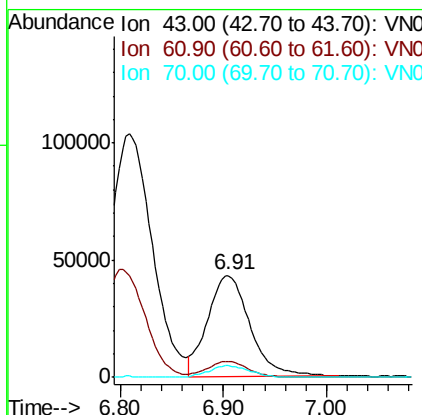
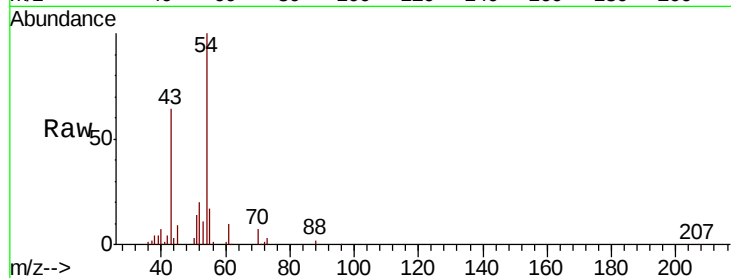
#37
Ethyl Acetate
Concen: 18.980 ug/l
RT: 6.91 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.6	11.0	16.6
70	11.2	8.8	13.2

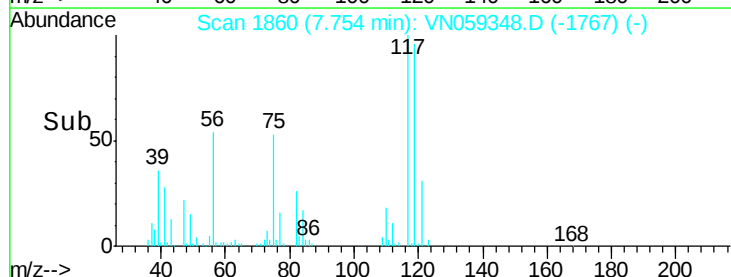
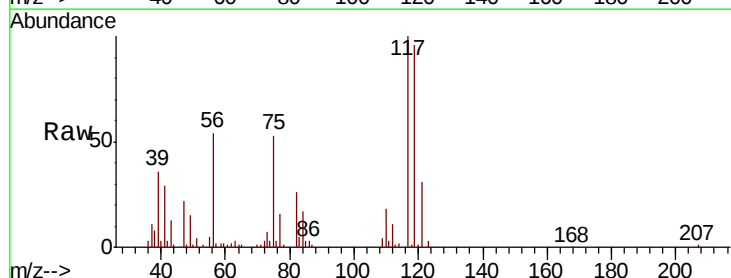
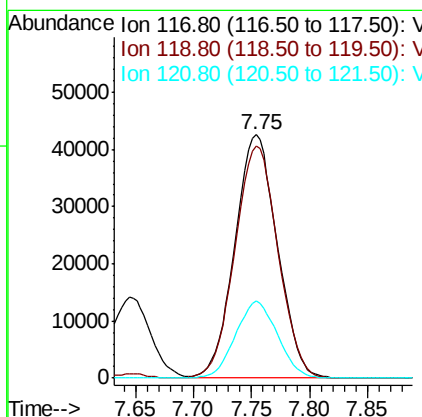
Manual Integrations
APPROVED

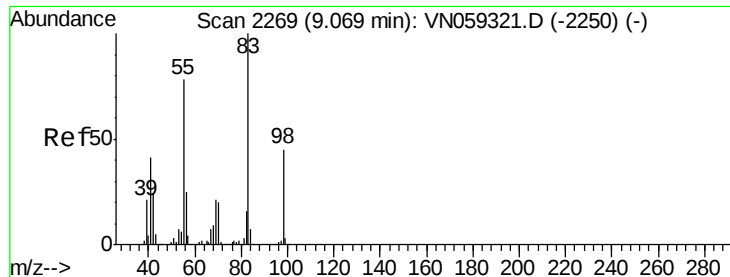
MMDadoda
11/22/2019 3:13:02 PM



#38
Carbon Tetrachloride
Concen: 18.898 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.5	77.0	115.4
121	31.5	24.4	36.6





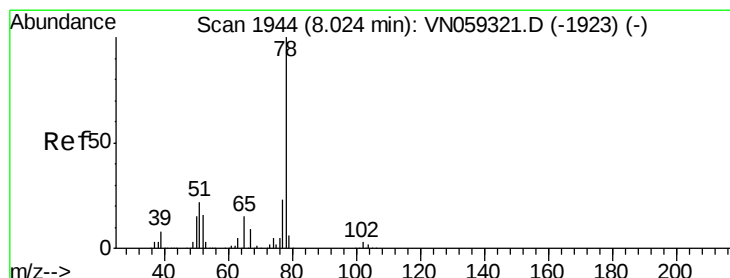
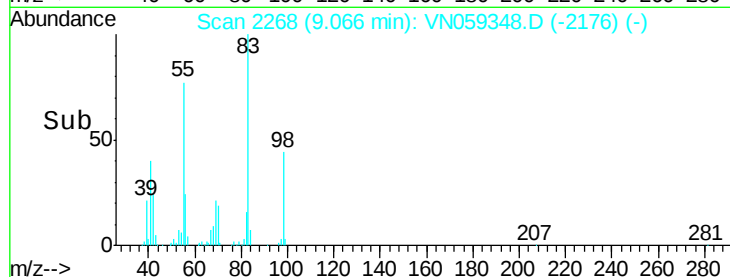
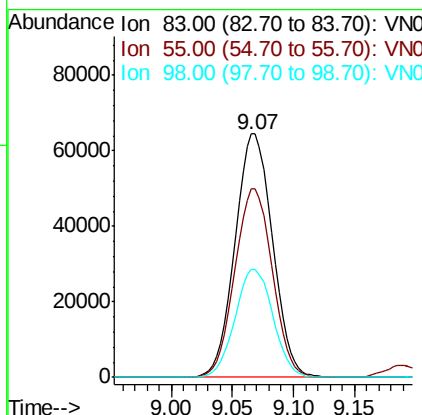
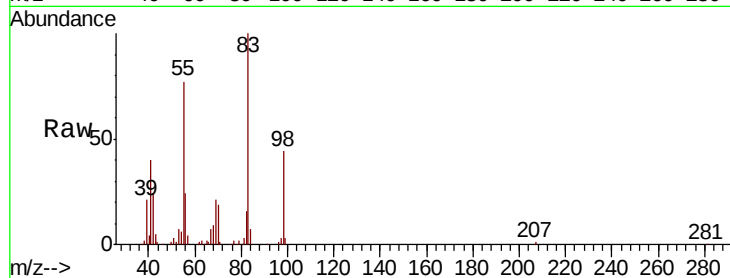
#39
Methvlcvclohexane
Concen: 18.942 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.3	62.3	93.5
98	44.2	36.0	54.0

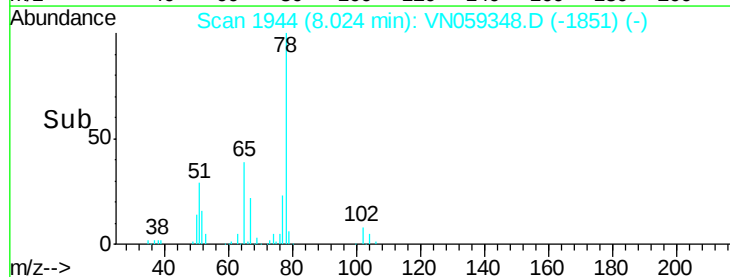
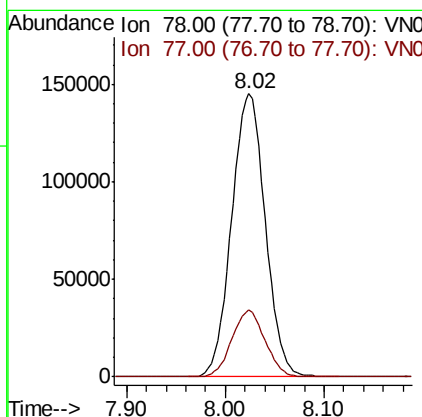
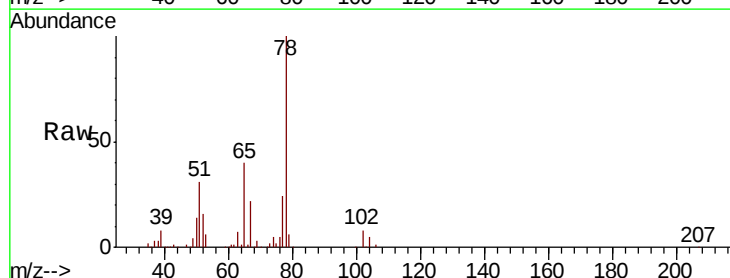
Manual Integrations
APPROVED

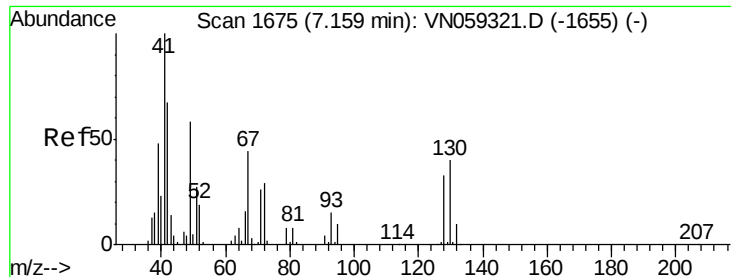
MMDadoda
11/22/2019 3:13:02 PM



#40
Benzene
Concen: 19.435 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.4	27.6





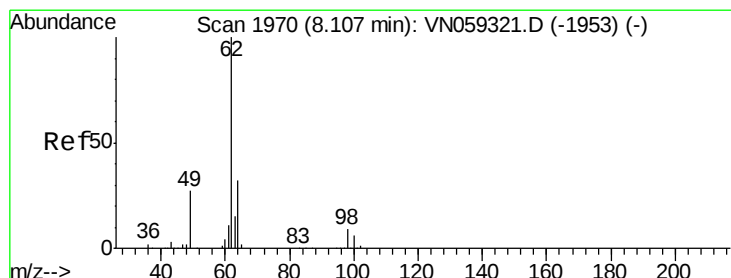
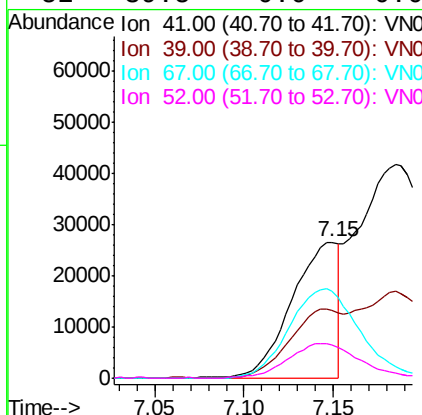
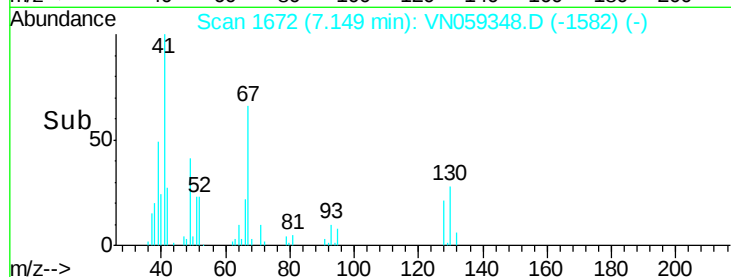
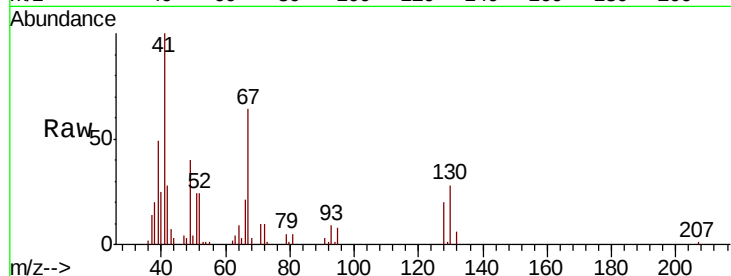
#41
Methacrylonitrile
Concen: 16.869 ug/l
RT: 7.15 min Scan# 1672
Delta R.T. -0.01 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100				
39	57.0	0.0	0.0#		
67	100.7	0.0	0.0#		
52	39.5	0.0	0.0#		

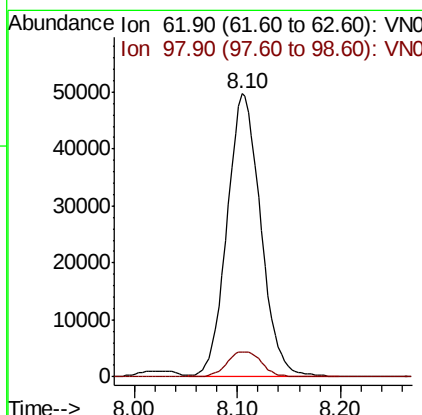
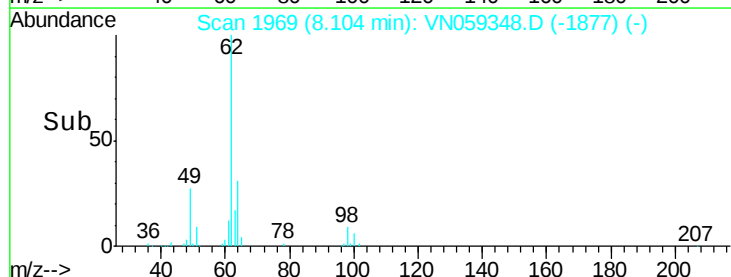
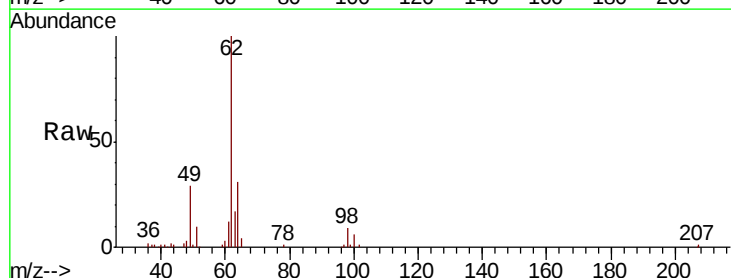
Manual Integrations
APPROVED

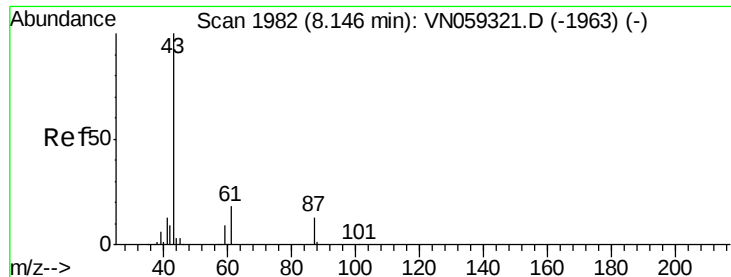
MMDadoda
11/22/2019 3:13:02 PM



#42
1,2-Dichloroethane
Concen: 19.375 ug/l
RT: 8.10 min Scan# 1969
Delta R.T. -0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100				
98	9.1	0.0	18.6		





#43

Isopropyl Acetate

Concen: 19.627 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

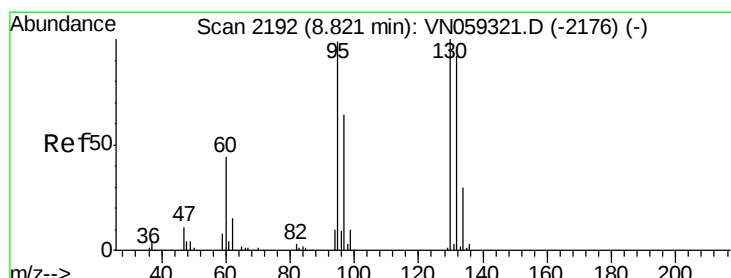
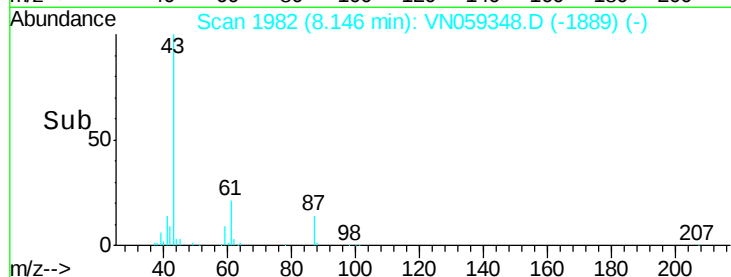
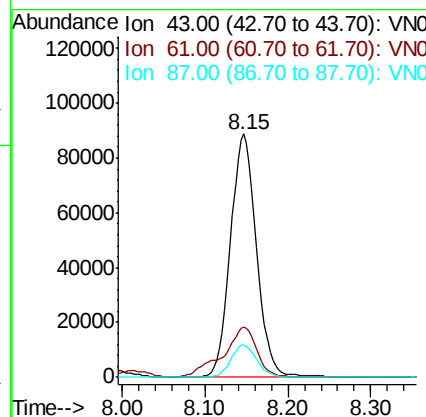
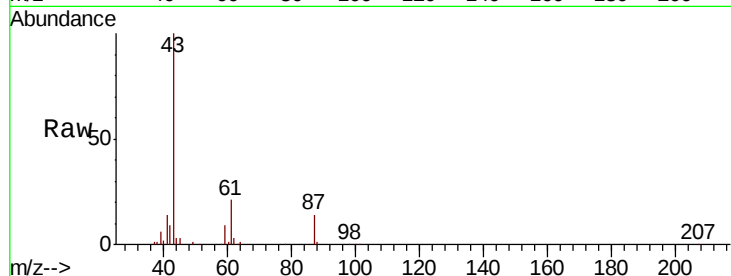
ClientSampleId :

VN1121WBSD02

Tot Ion:	43	Resp:	193977
Ion	Ratio	Lower	Upper
43	100		
61	27.1	21.7	32.5
87	13.3	10.2	15.4

Manual Integrations
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11/22/2019 3:13:02 PM



#44

Trichloroethene

Concen: 19.288 ug/l

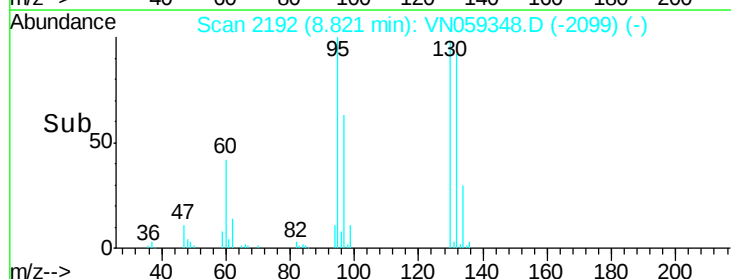
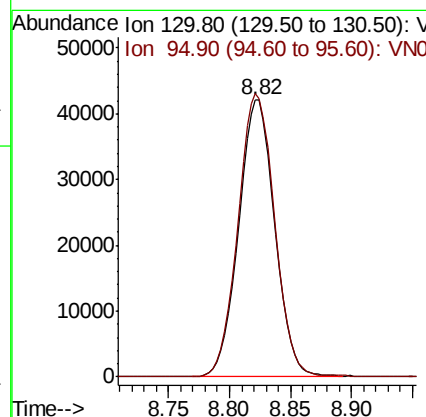
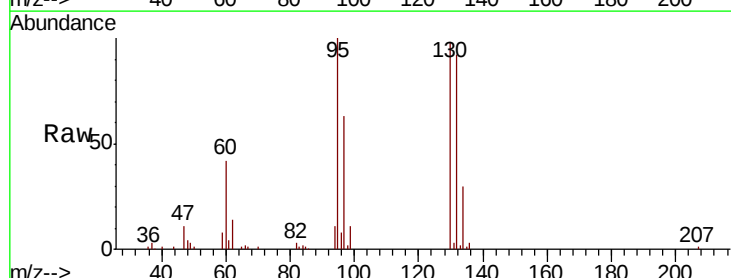
RT: 8.82 min Scan# 2192

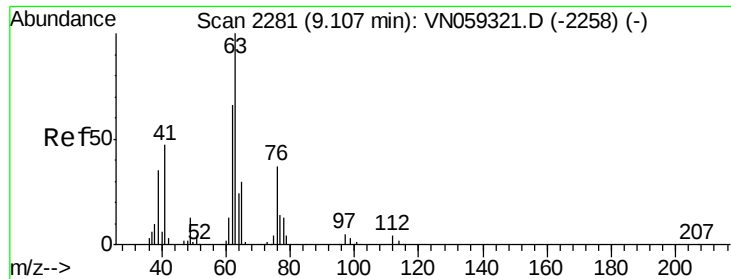
Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Tgt Ion:	130	Resp:	86332
Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	198.4





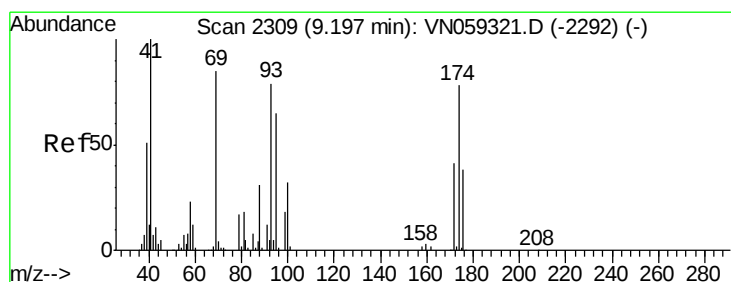
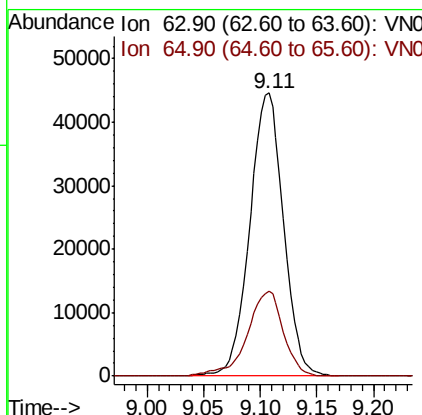
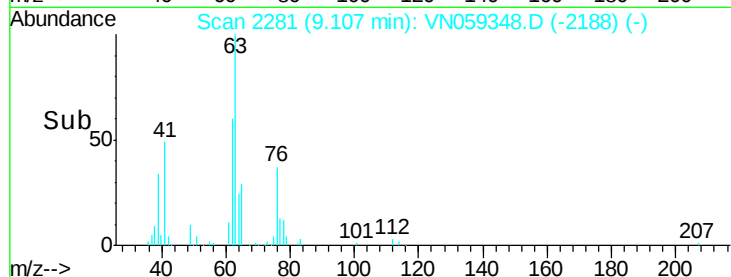
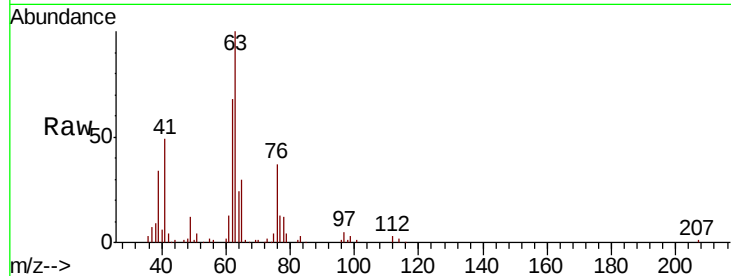
#45
 1,2-Dichloropropane
 Concen: 19.627 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. 0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBSD02

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.9	23.9	35.9

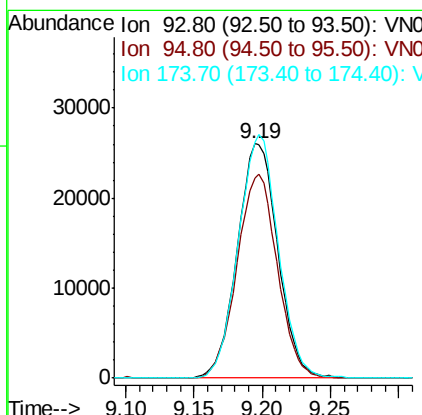
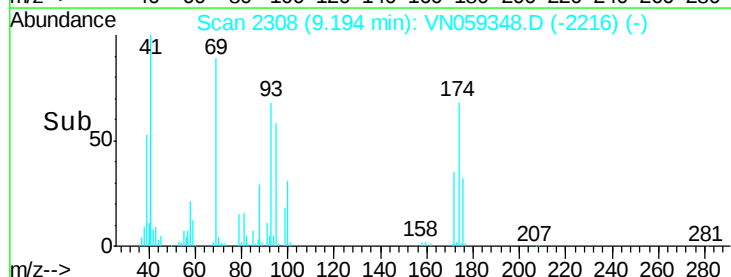
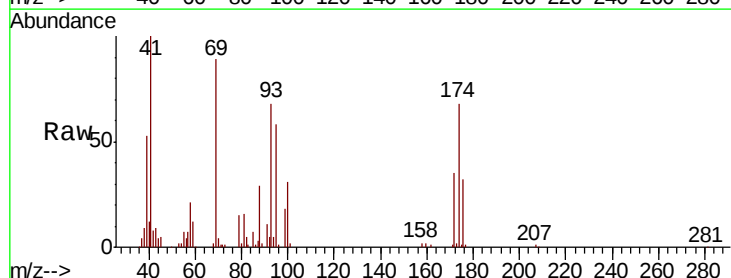
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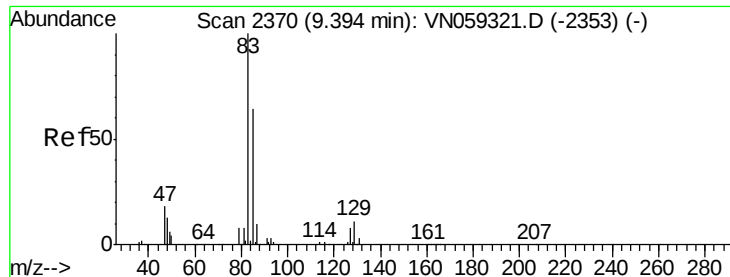
MMDadoda
 11/22/2019 3:13:02 PM



#46
 Dibromomethane
 Concen: 18.628 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. -0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
93	100		
95	86.4	66.9	100.3
174	102.4	80.6	120.8





#47

Bromodichloromethane

Concen: 18.931 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

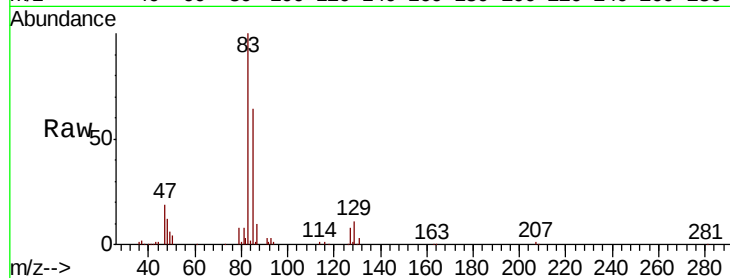
ClientSampleId :

VN1121WBSD02

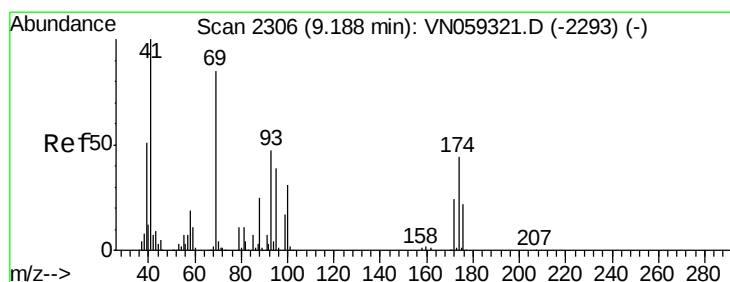
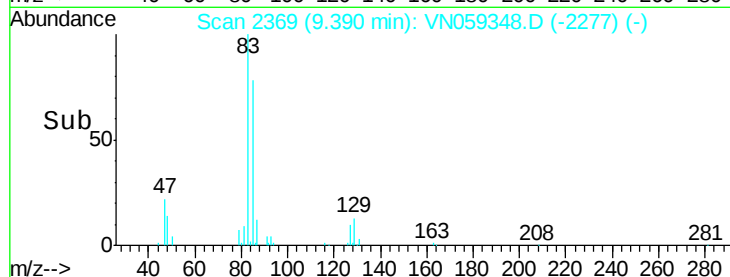
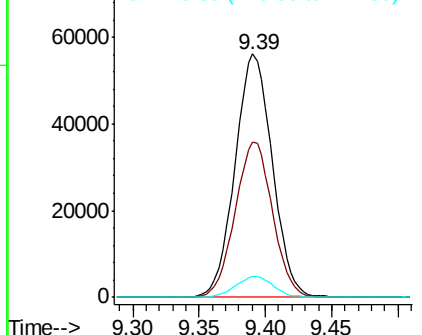
Tot Ion:	83	Resp:	109518
Ion Ratio	Lower	Upper	
83	100		
85	64.0	51.5	77.3
127	8.4	6.6	10.0

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN059348.D (-2277) (-)



#48

Methyl methacrylate

Concen: 18.706 ug/l

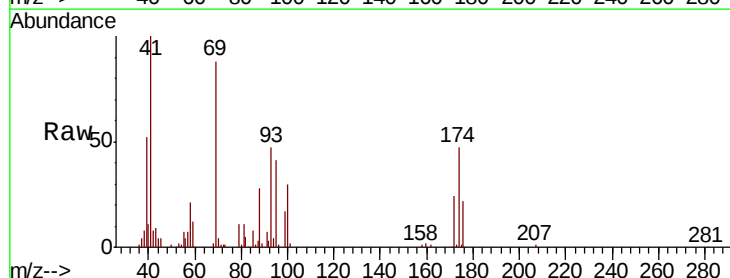
RT: 9.19 min Scan# 2306

Delta R.T. 0.00 min

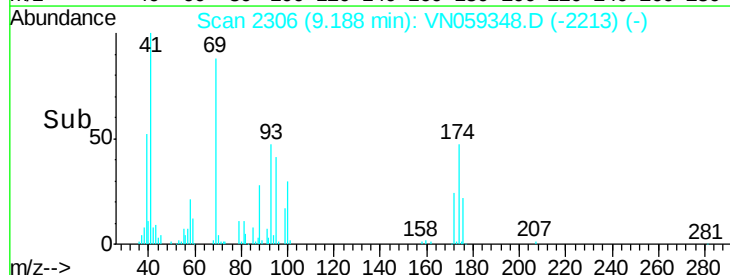
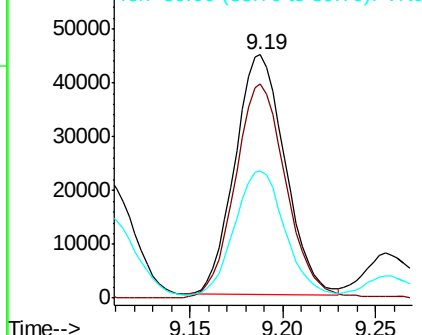
Lab File: VN059348.D

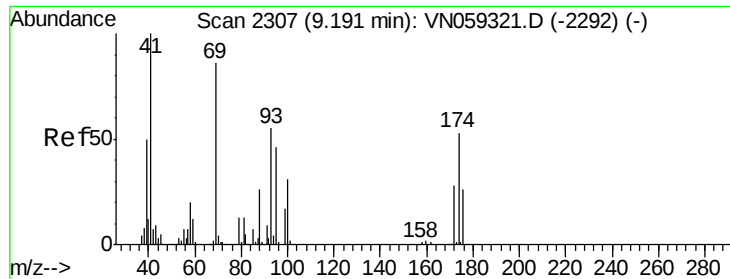
Acq: 21 Nov 2019 19:51

Tgt Ion:	41	Resp:	84075
Ion Ratio	Lower	Upper	
41	100		
69	90.7	68.8	103.2
39	51.6	42.1	63.1



Abundance Ion 41.00 (40.70 to 41.70): VN059348.D (-2213) (-)





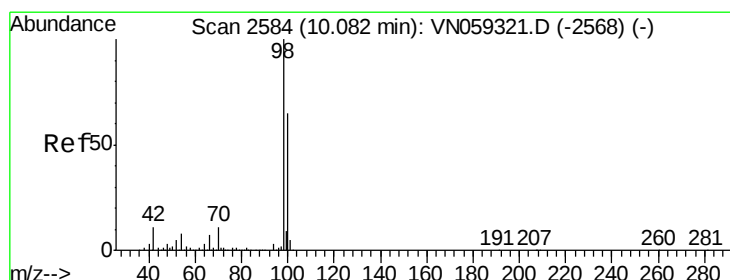
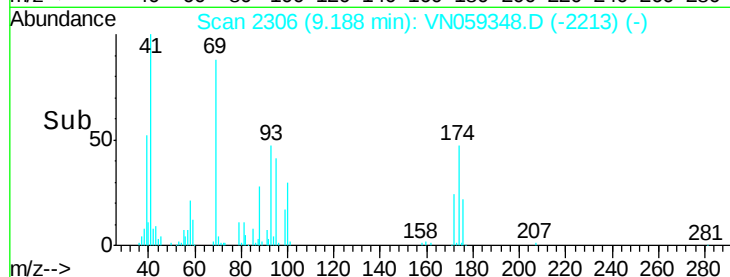
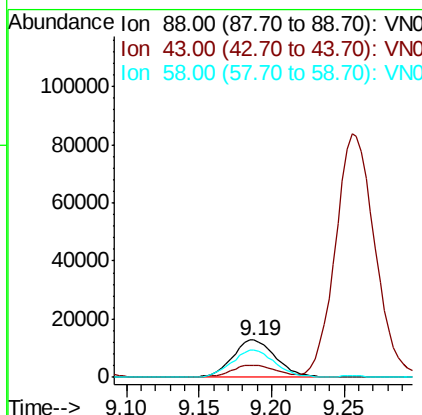
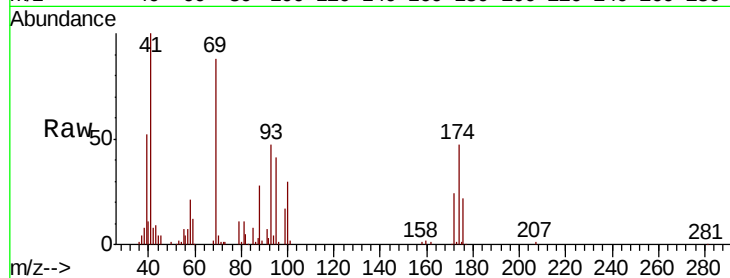
#49
1,4-Dioxane
Concen: 398.202 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion	88	Resp	26898
Ion	Ratio	Lower	Upper
88	100		
43	33.5	26.9	40.3
58	73.2	59.2	88.8

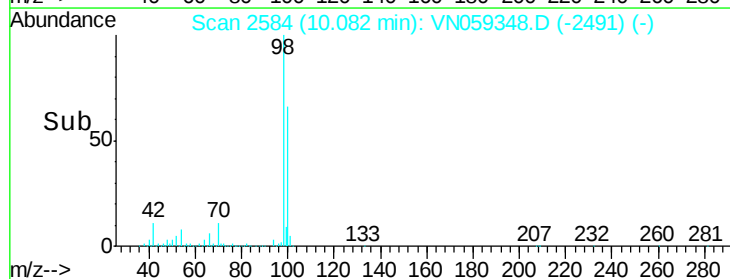
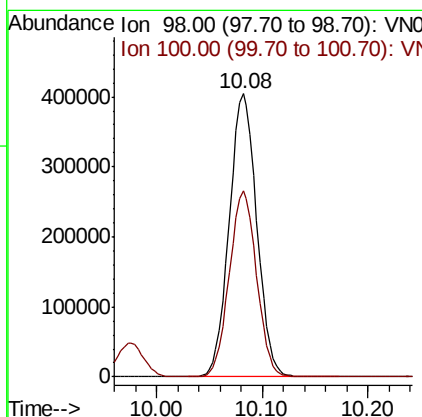
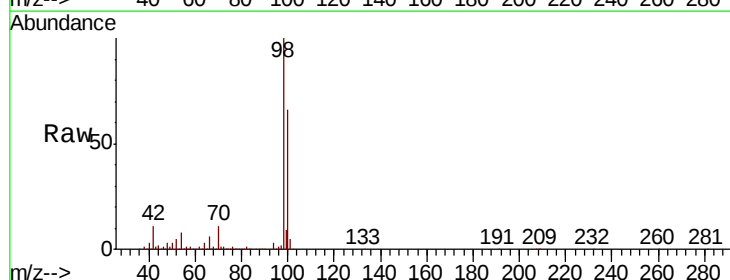
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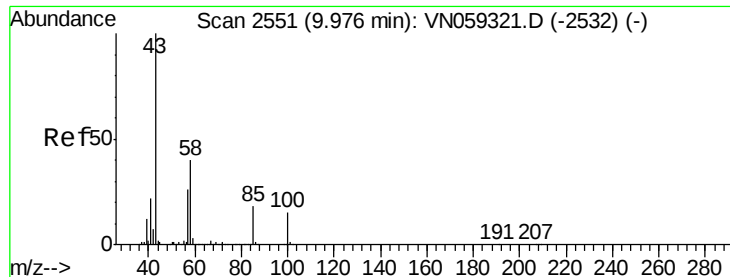
MMDadoda
11/22/2019 3:13:02 PM



#50
Toluene-d8
Concen: 52.454 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion	98	Resp	729219
Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.7	77.5





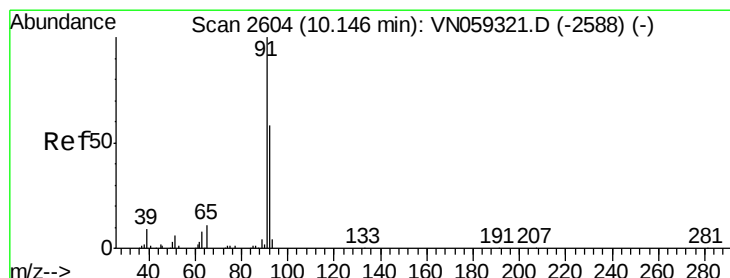
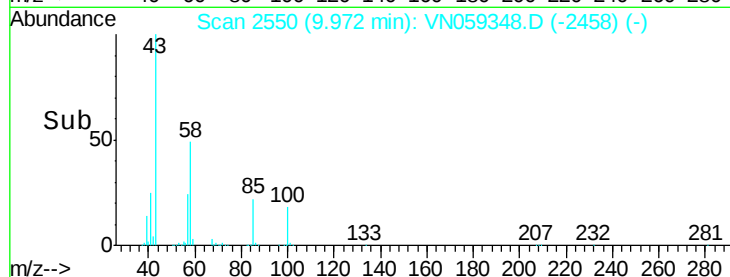
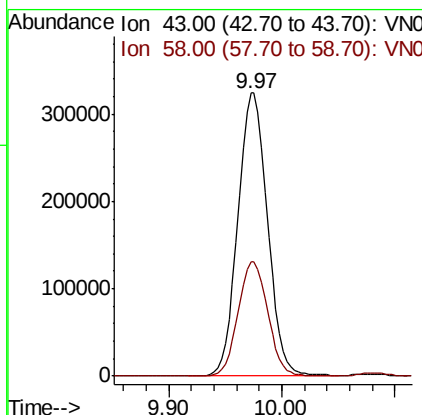
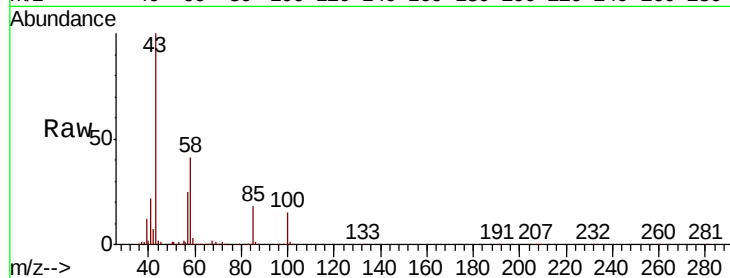
#51
4-Methyl-2-Pentanone
Concen: 102.561 ug/l
RT: 9.97 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	40.5	31.8	47.8

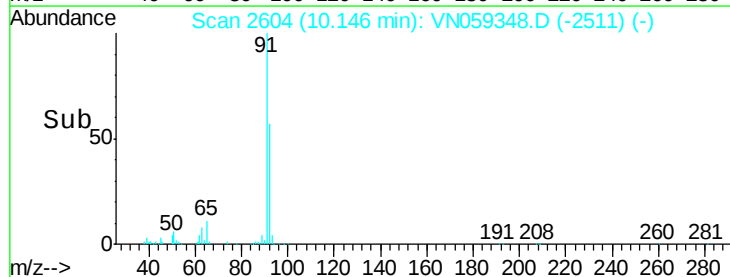
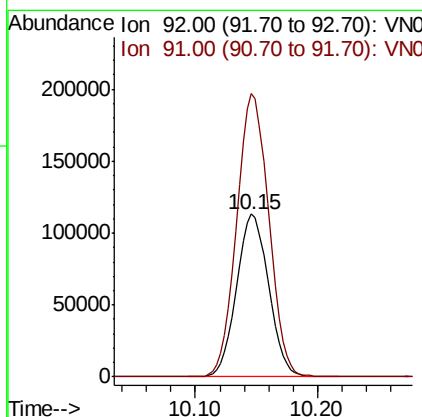
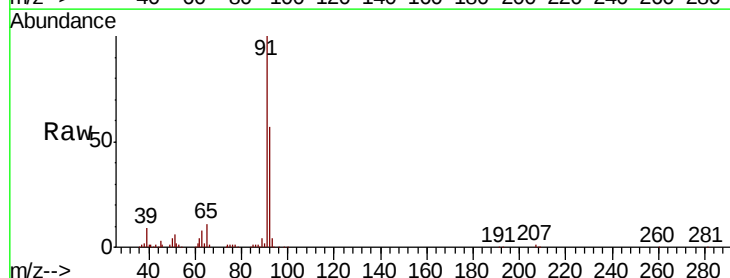
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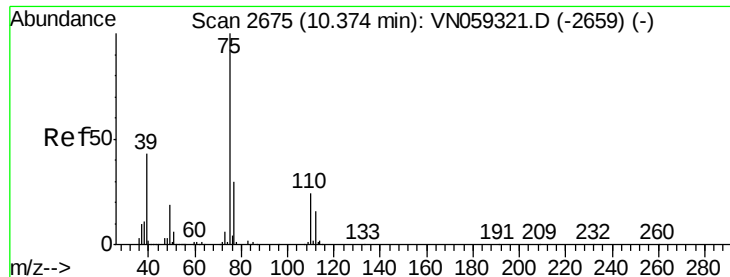
MMDadoda
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#52
Toluene
Concen: 19.420 ug/l
RT: 10.15 min Scan# 2604
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.9	137.9	206.9





#53

t-1,3-Dichloropropene

Concen: 19.386 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBSD02

Tot Ion: 75 Resp: 130374

Ion Ratio Lower Upper

75 100

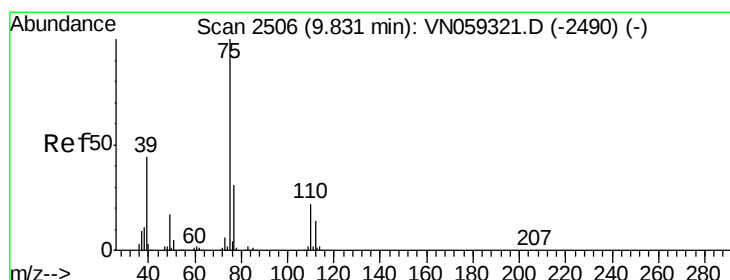
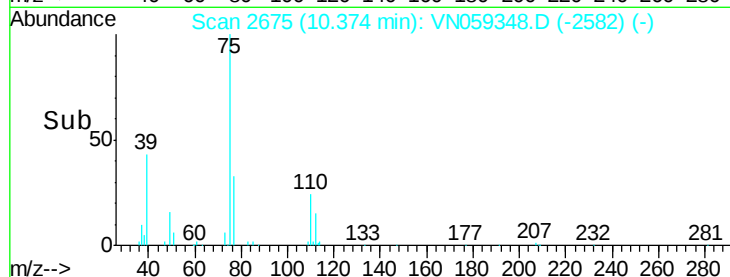
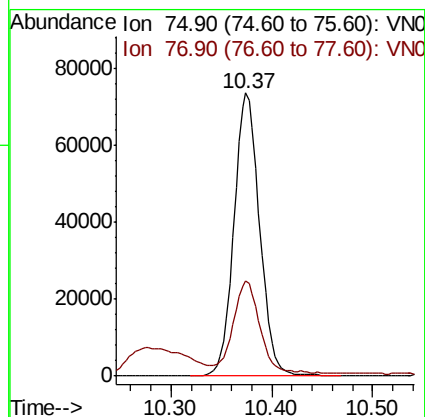
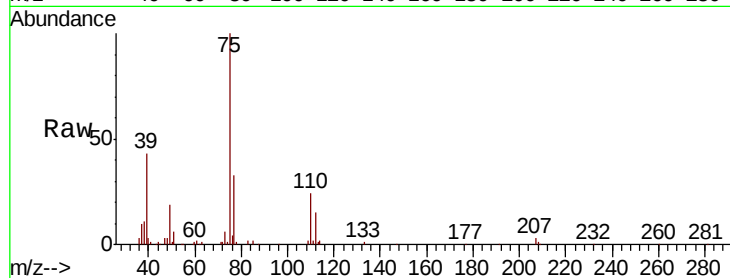
77 32.1 25.5 38.3

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 19.404 ug/l

RT: 9.83 min Scan# 2506

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

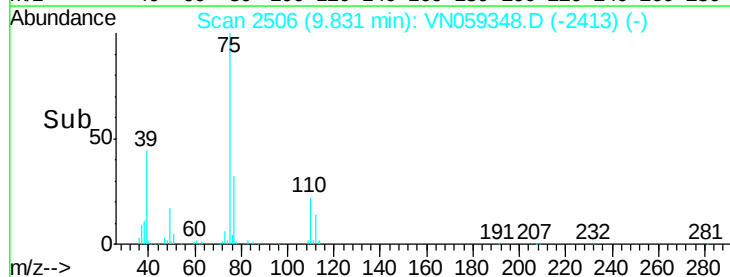
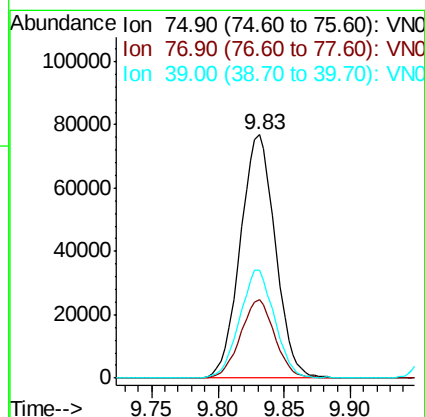
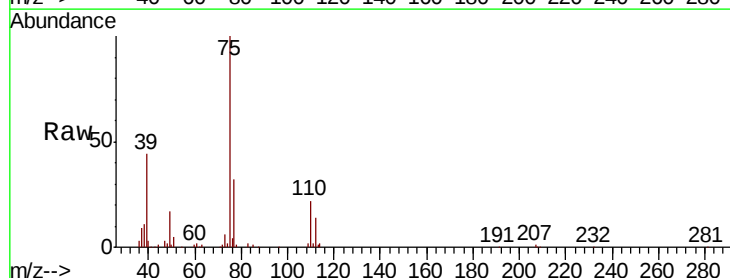
Tgt Ion: 75 Resp: 141602

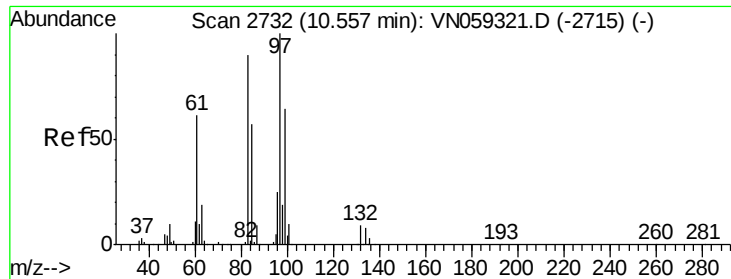
Ion Ratio Lower Upper

75 100

77 32.1 25.0 37.4

39 44.2 35.5 53.3





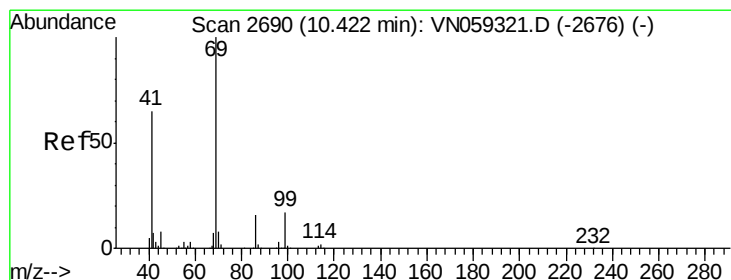
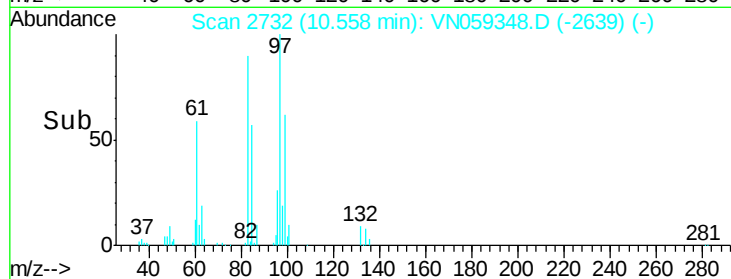
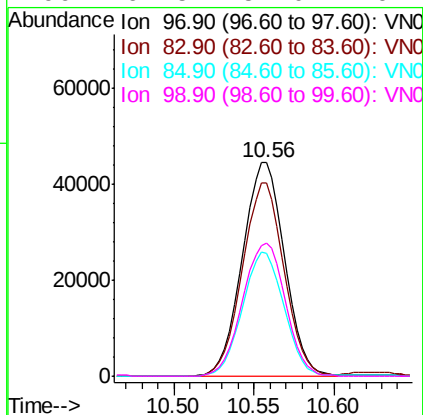
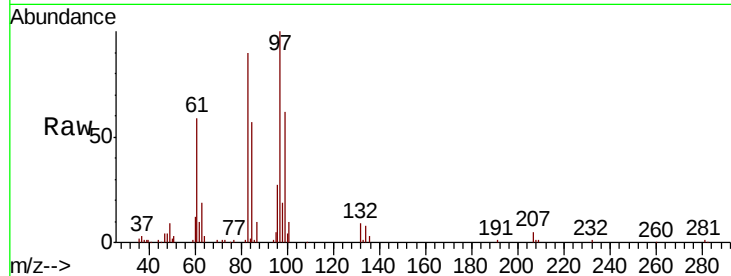
#55
 1,1,2-Trichloroethane
 Concen: 19.449 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBSD02

Tot Ion:	97	Resp:	80302
Ion	Ratio	Lower	Upper
97	100		
83	90.4	72.0	108.0
85	57.3	45.8	68.6
99	62.5	51.0	76.4

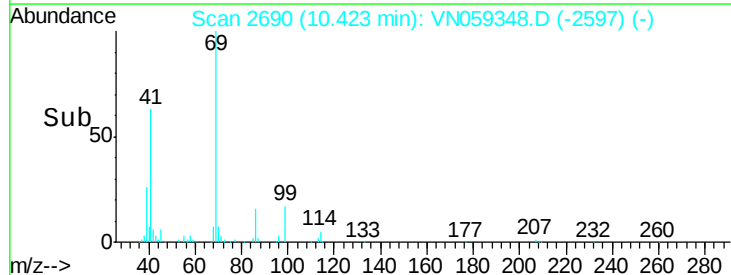
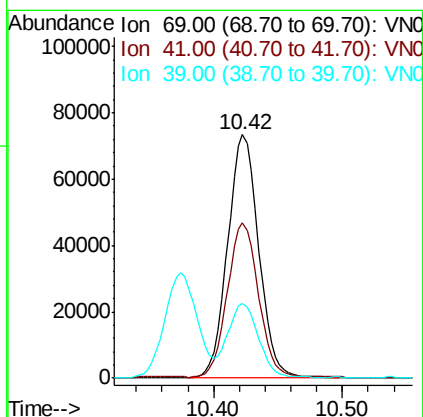
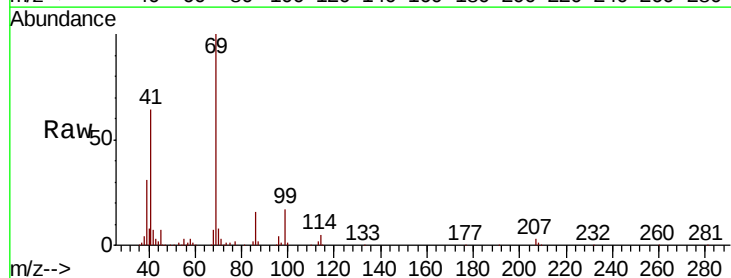
Manual Integrations
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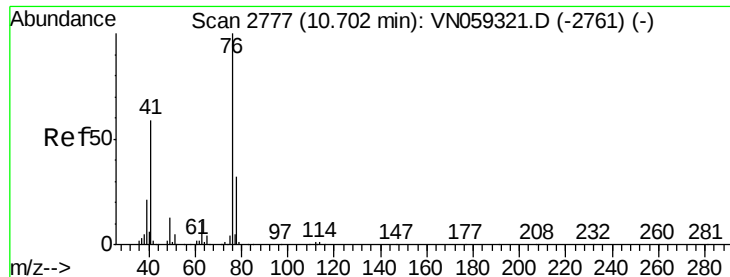
MMDadoda
 11/22/2019 3:13:02 PM



#56
 Ethyl methacrylate
 Concen: 19.033 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. 0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Tgt Ion:	69	Resp:	122819
Ion	Ratio	Lower	Upper
69	100		
41	63.1	51.7	77.5
39	30.5	25.2	37.8





#57

1,3-Dichloropropane

Concen: 19.526 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBSD02

Tot Ion: 76 Resp: 140518

Ion Ratio Lower Upper

76 100

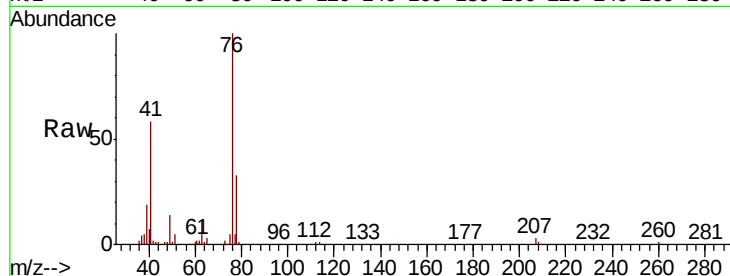
78 32.8 26.0 39.0

Manual Integrations

APPROVED

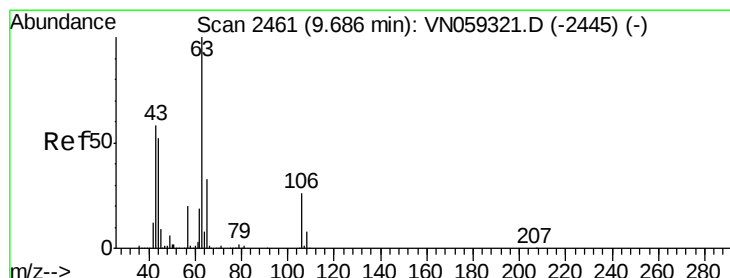
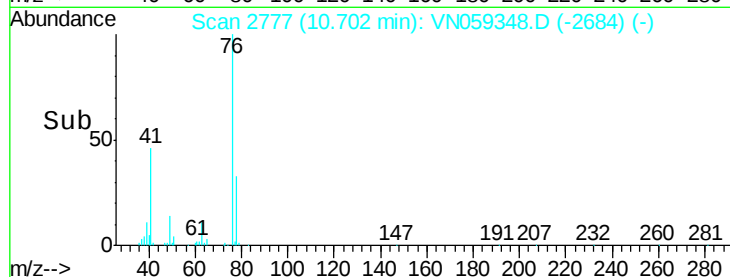
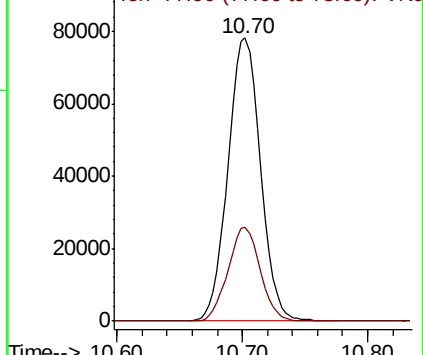
MMDadoda

11/22/2019 3:13:02 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 96.563 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN059348.D

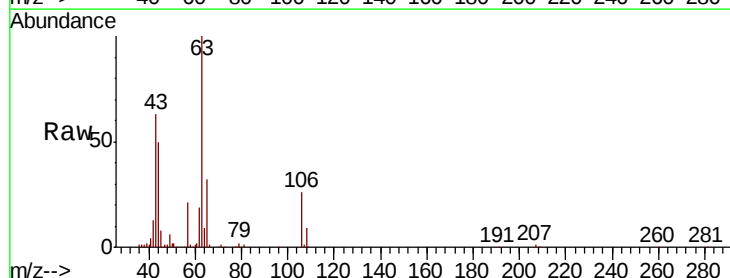
Acq: 21 Nov 2019 19:51

Tgt Ion: 63 Resp: 207780

Ion Ratio Lower Upper

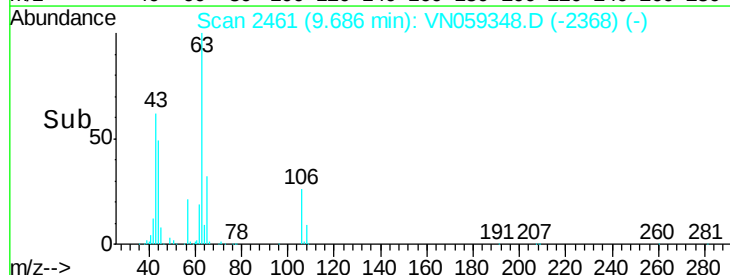
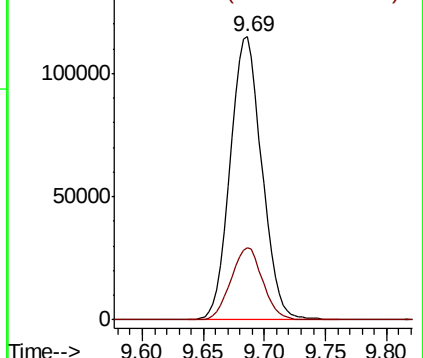
63 100

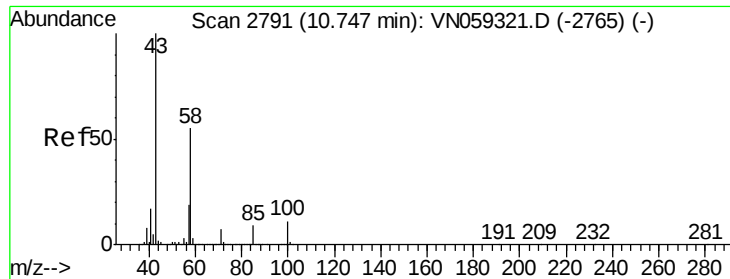
106 25.6 20.5 30.7



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





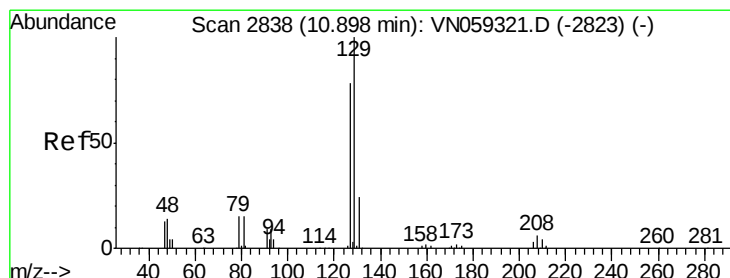
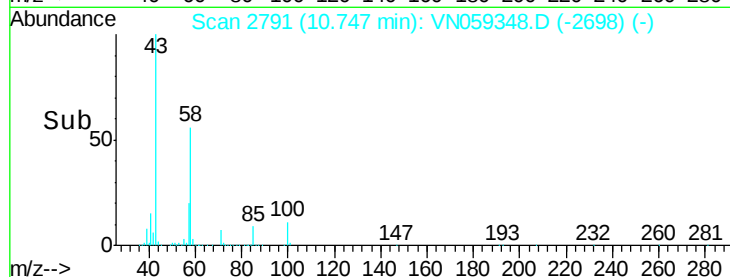
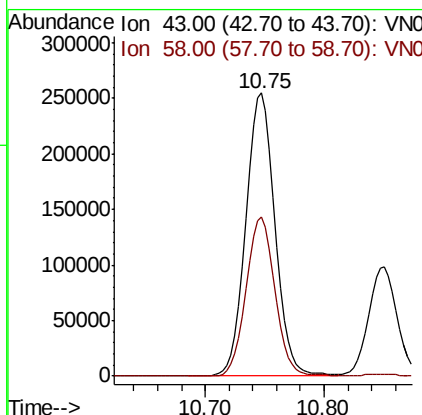
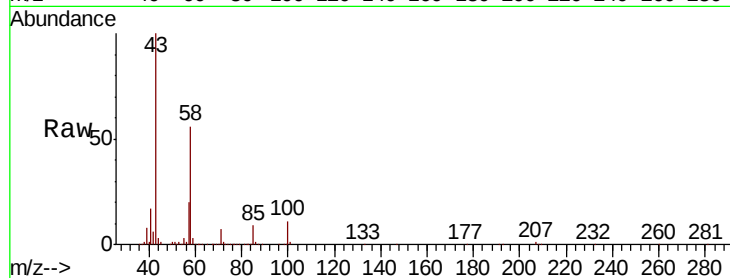
#59
2-Hexanone
Concen: 102.160 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion: 43 Resp: 432758
Ion Ratio Lower Upper
43 100
58 55.6 27.7 83.0

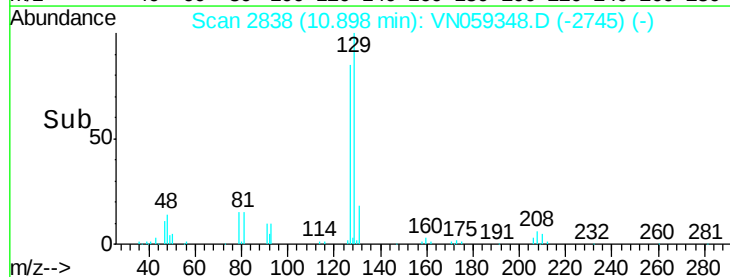
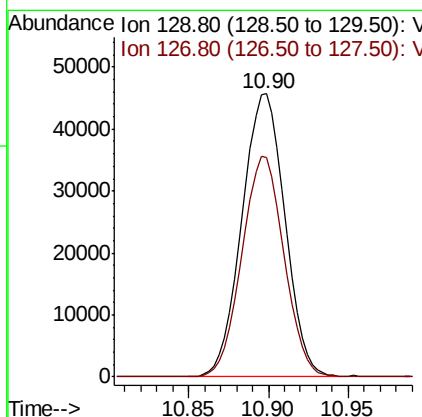
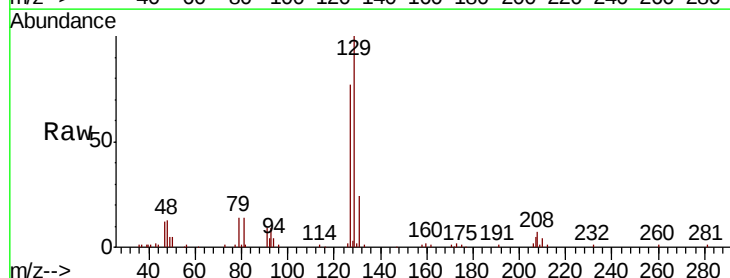
Manual Integrations
APPROVED

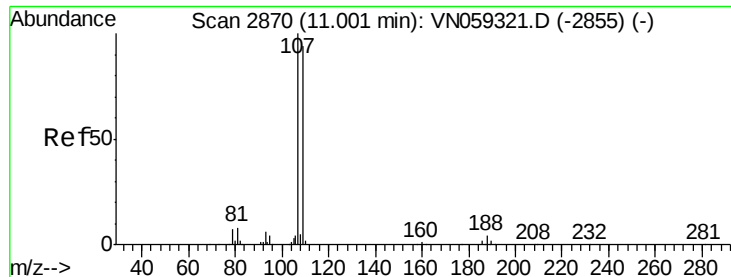
MMDadoda
11/22/2019 3:13:02 PM



#60
Dibromochloromethane
Concen: 19.320 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion:129 Resp: 84062
Ion Ratio Lower Upper
129 100
127 76.1 38.5 115.5





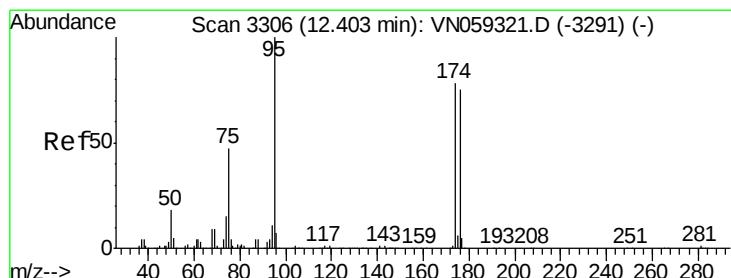
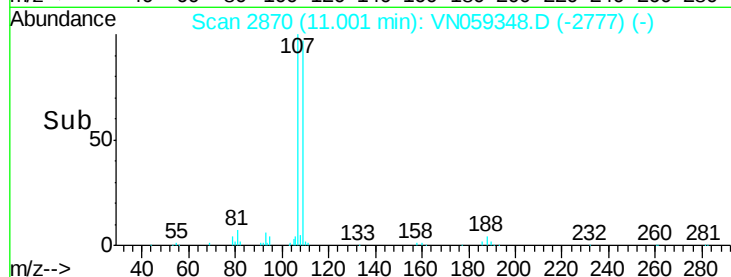
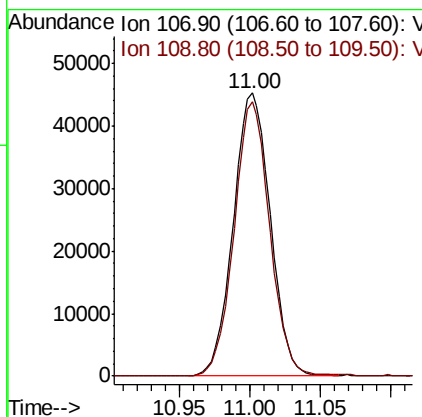
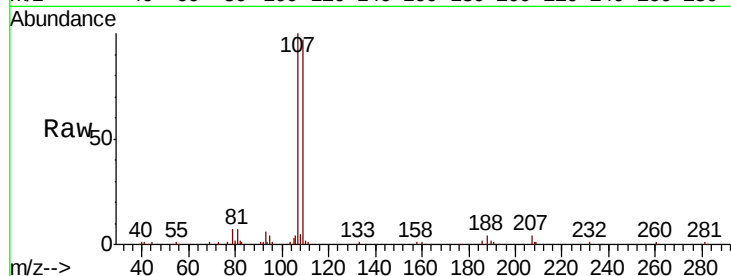
#61
 1,2-Dibromoethane
 Concen: 19.366 ug/l
 RT: 11.00 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBSD02

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.3	75.4	113.2

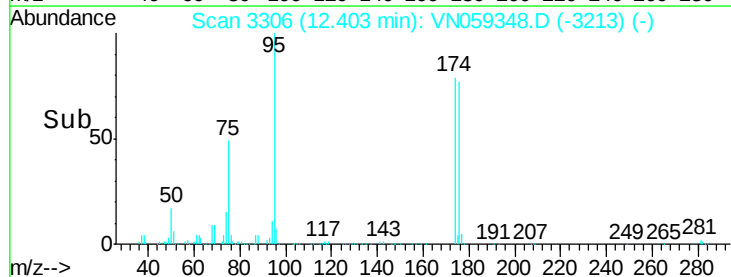
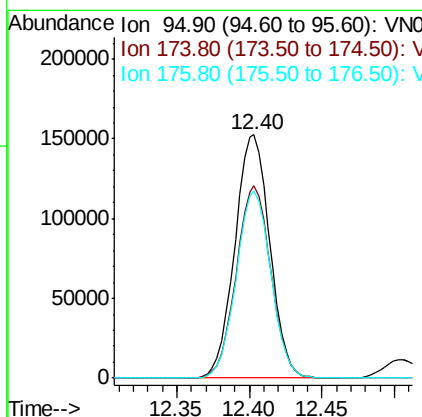
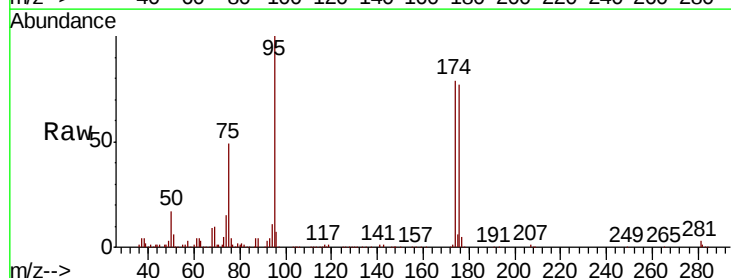
Manual Integrations
 APPROVED

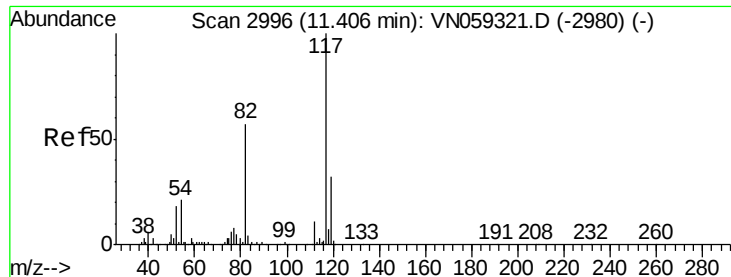
MMDadoda
 11/22/2019 3:13:02 PM



#62
 4-Bromofluorobenzene
 Concen: 52.323 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
95	100		
174	78.8	0.0	157.4
176	76.7	0.0	151.2





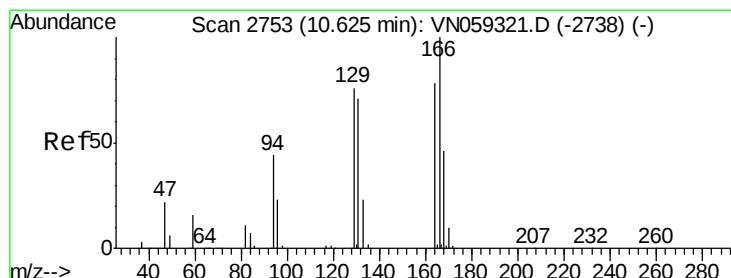
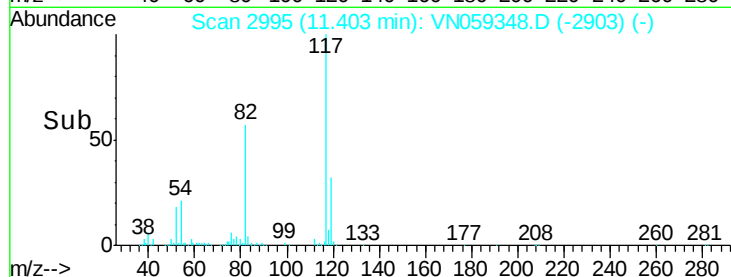
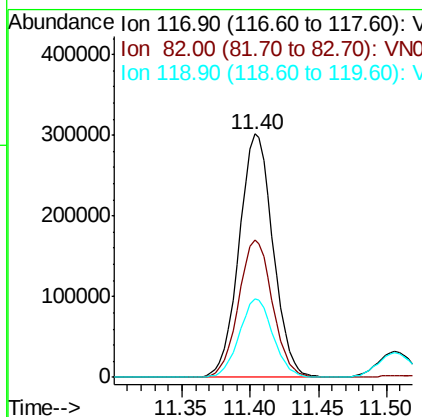
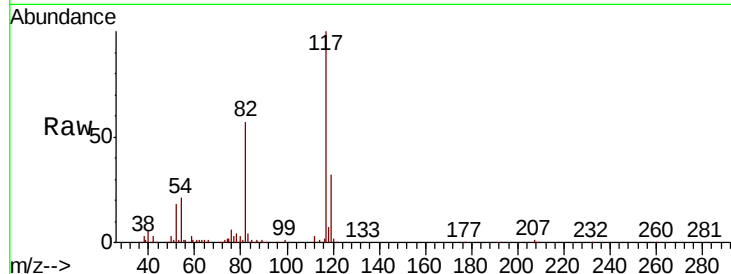
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.7	68.5
119	32.3	25.8	38.6

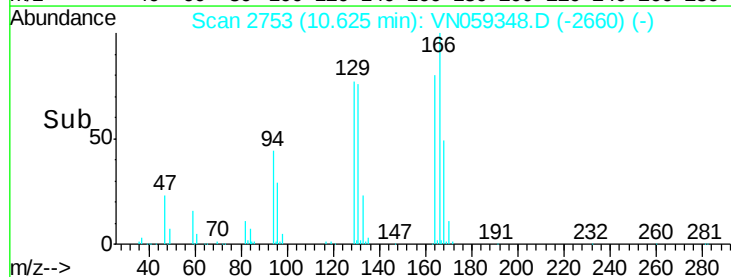
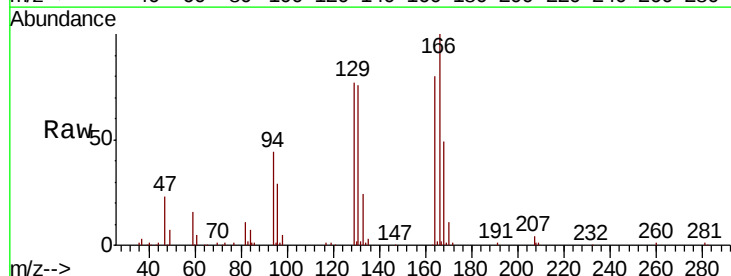
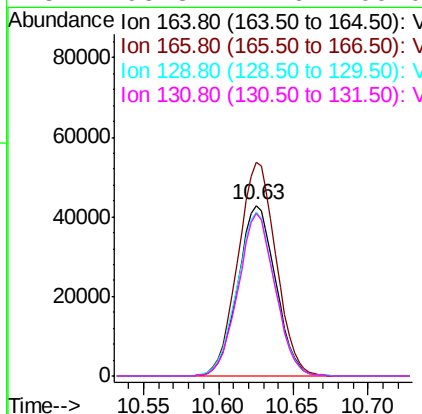
Manual Integrations
APPROVED

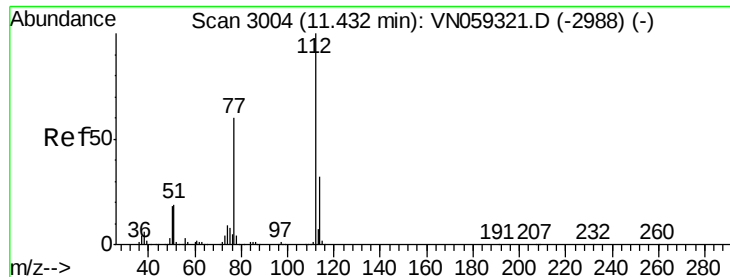
MMDadoda
11/22/2019 3:13:02 PM



#64
Tetrachloroethene
Concen: 18.697 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.0	102.9	154.3
129	95.8	78.2	117.2
131	95.3	72.6	109.0





#65

Chlorobenzene

Concen: 19.253 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBSD02

Tot Ion:112 Resp: 215303

Ion Ratio Lower Upper

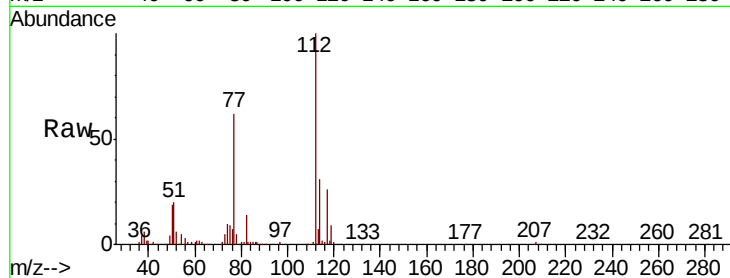
112 100

114 31.4 25.8 38.6

Manual Integrations
APPROVED

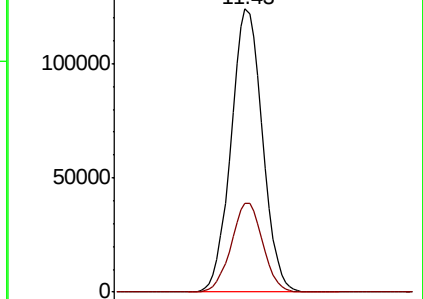
MMDadoda

11/22/2019 3:13:02 PM

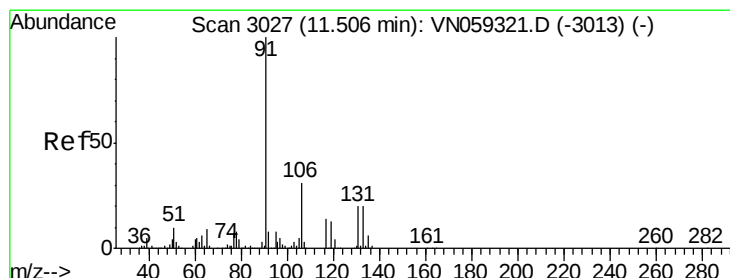
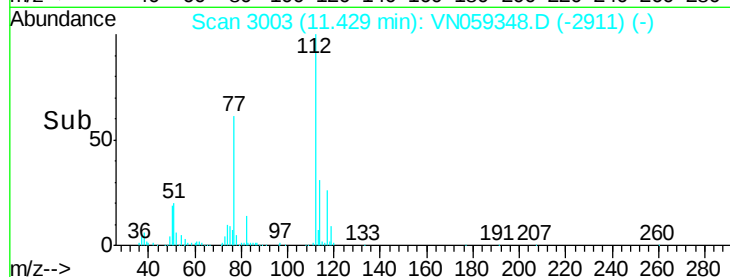


Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 19.360 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

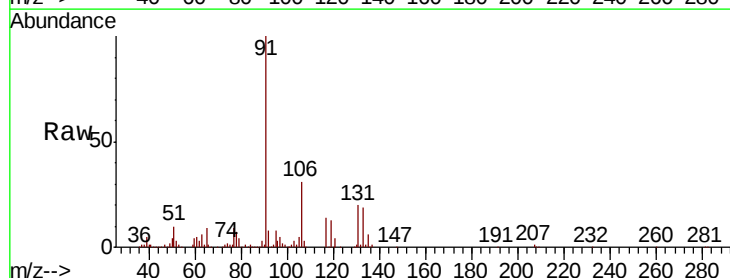
Tgt Ion:131 Resp: 78653

Ion Ratio Lower Upper

131 100

133 94.4 48.2 144.6

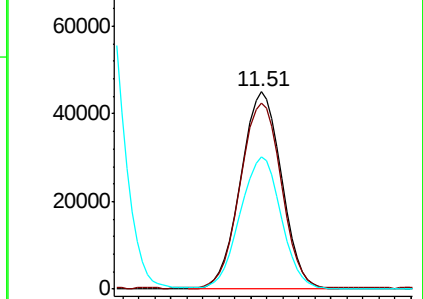
119 67.5 33.6 100.6



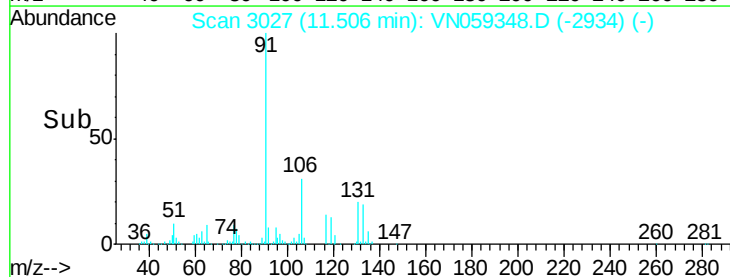
Abundance Ion 130.80 (130.50 to 131.50): V

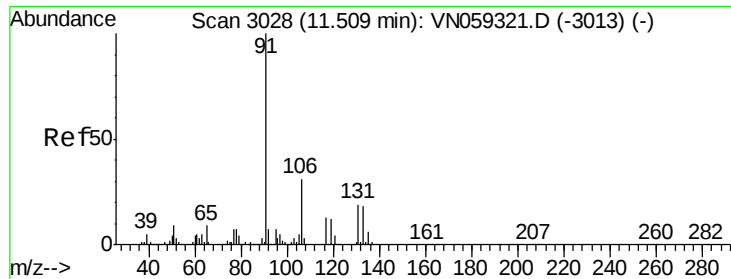
Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



Time-->





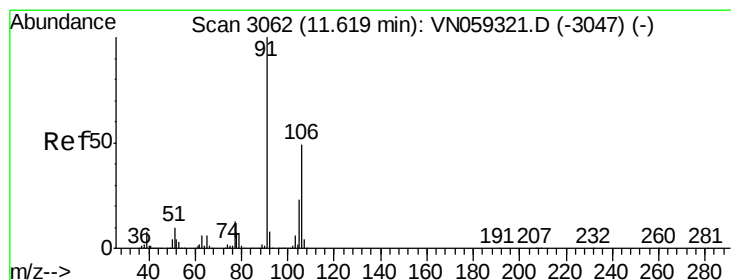
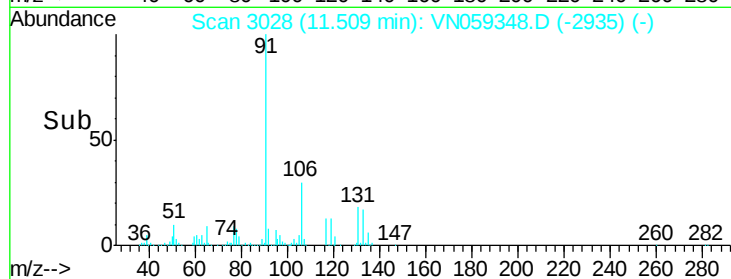
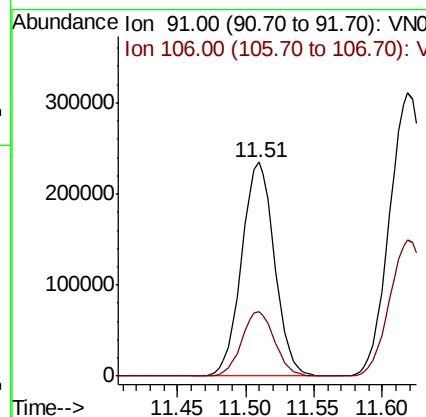
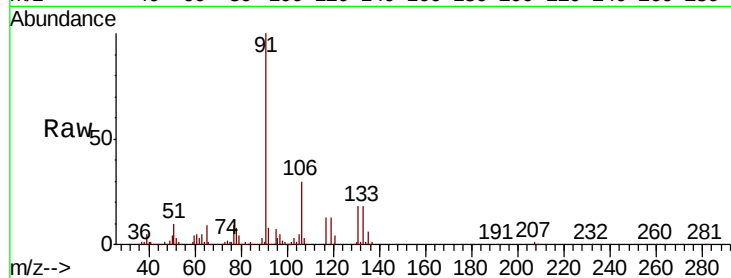
#67
Ethyl Benzene
Concen: 19.669 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion: 91 Resp: 392722
Ion Ratio Lower Upper
91 100
106 30.4 24.6 37.0

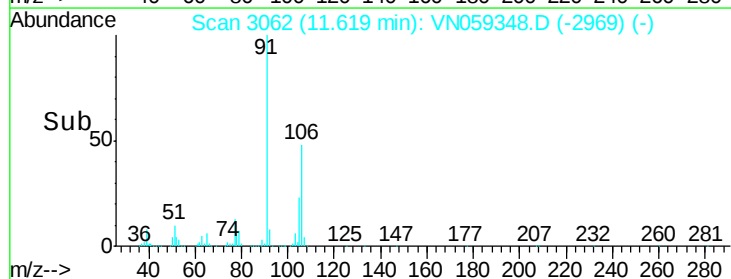
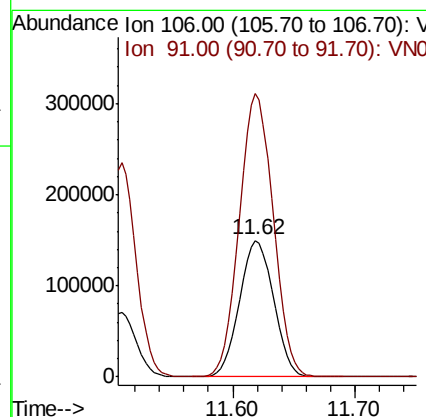
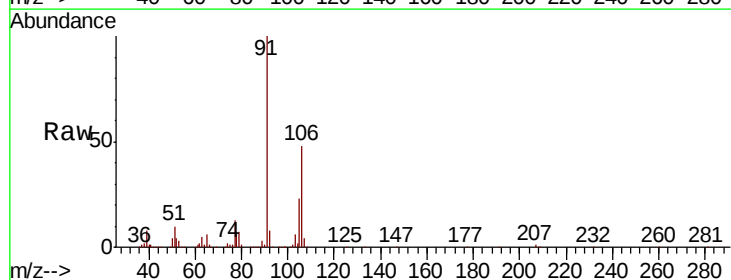
Manual Integrations
APPROVED

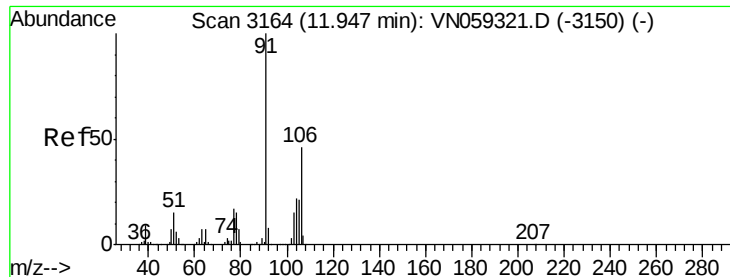
MMDadoda
11/22/2019 3:13:02 PM



#68
m/p-Xylenes
Concen: 38.993 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion: 106 Resp: 289302
Ion Ratio Lower Upper
106 100
91 206.4 163.2 244.8





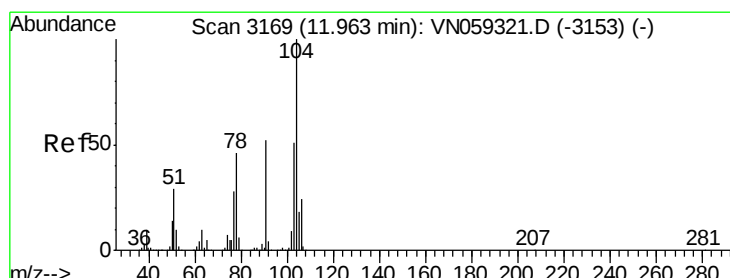
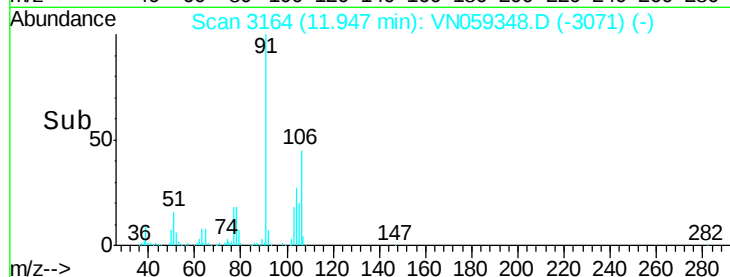
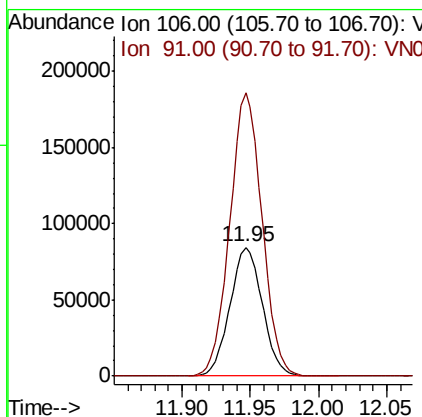
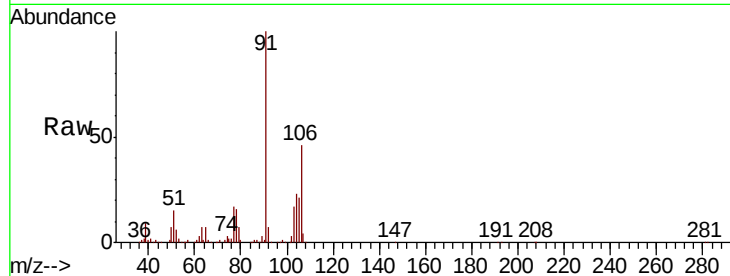
#69
o-Xylene
Concen: 19.661 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion	Ion	Ratio	Lower	Upper
106	106	100		
91	91	218.5	109.3	327.9

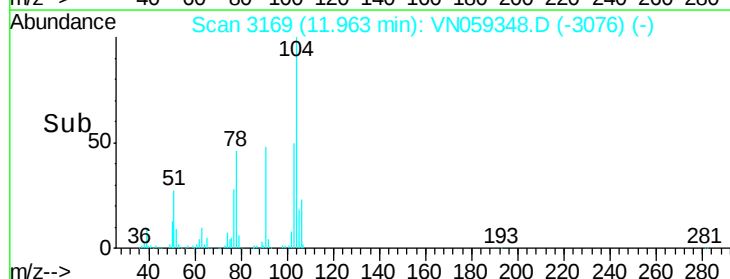
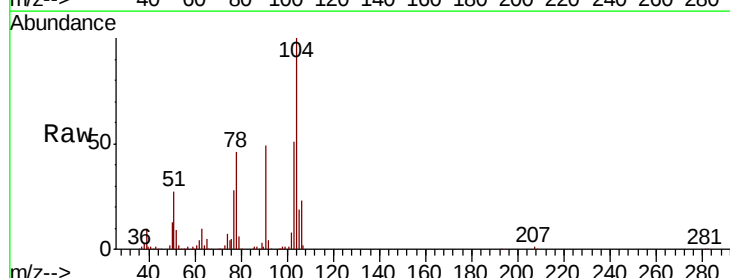
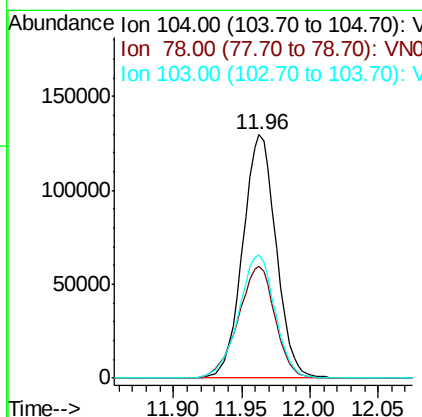
Manual Integrations
APPROVED

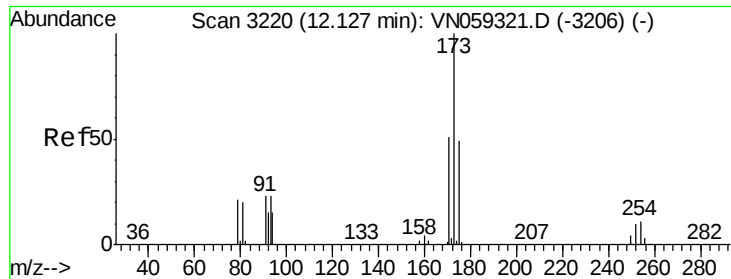
MMDadoda
11/22/2019 3:13:02 PM



#70
Styrene
Concen: 19.612 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion	Ion	Ratio	Lower	Upper
104	104	100		
78	78	50.9	40.3	60.5
103	103	55.3	43.6	65.4





#71

Bromoform

Concen: 19.294 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

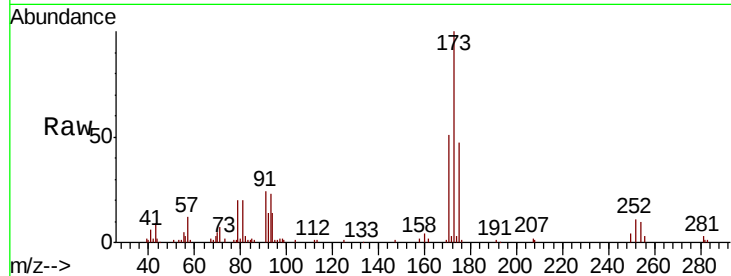
ClientSampleId :

VN1121WBSD02

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.6	73.6
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
11/22/2019 3:13:02 PM

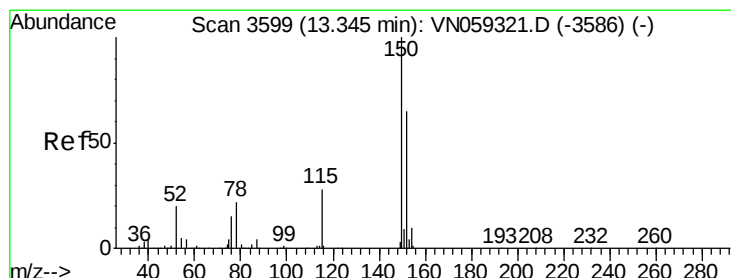
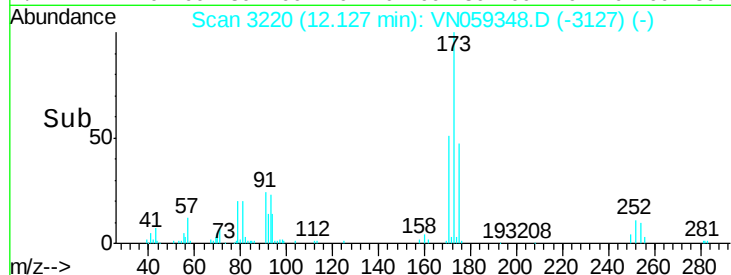
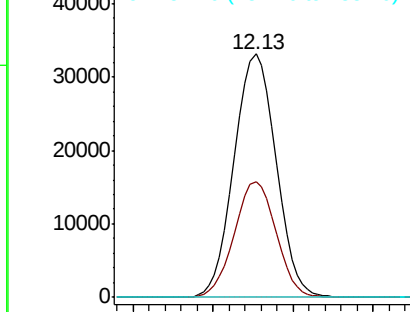


Abundance

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

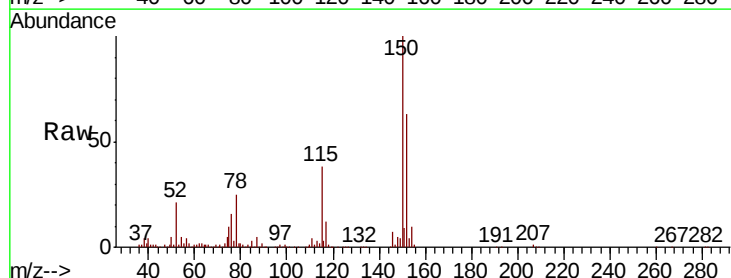
RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.1	29.3	88.0
150	163.8	0.0	346.0

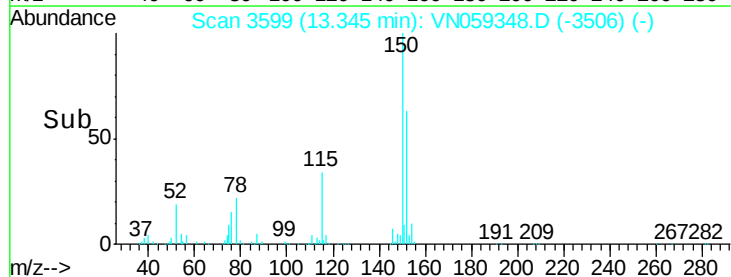
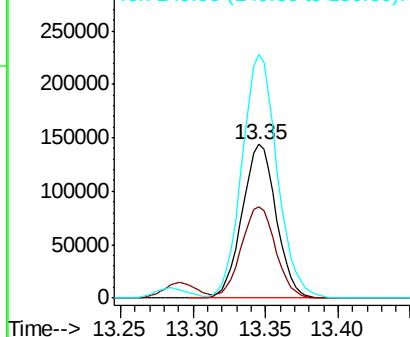


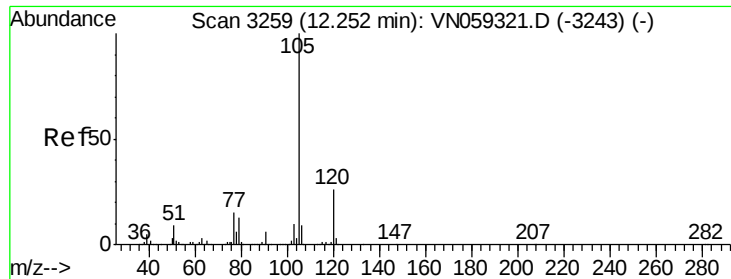
Abundance

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: 19.595 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBSD02

Tot Ion:105 Resp: 377297

Ion Ratio Lower Upper

105 100

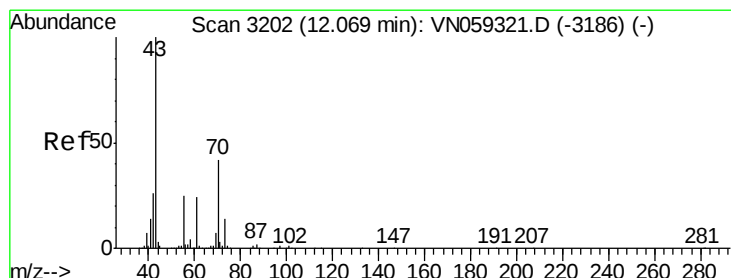
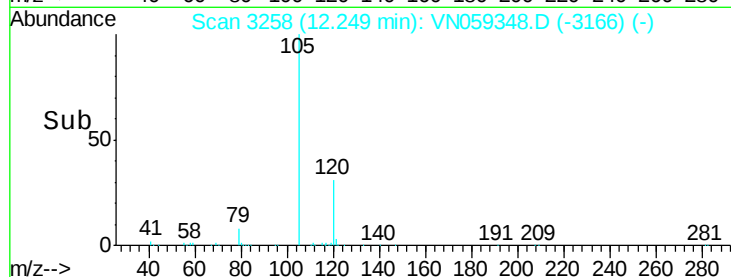
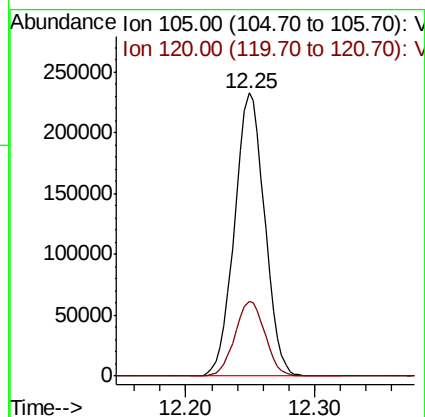
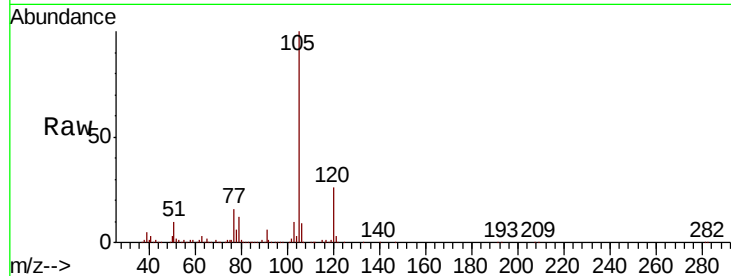
120 26.4 13.1 39.3

Manual Integrations

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#74

N-ethyl acetate

Concen: 20.030 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Tgt Ion: 43 Resp: 154995

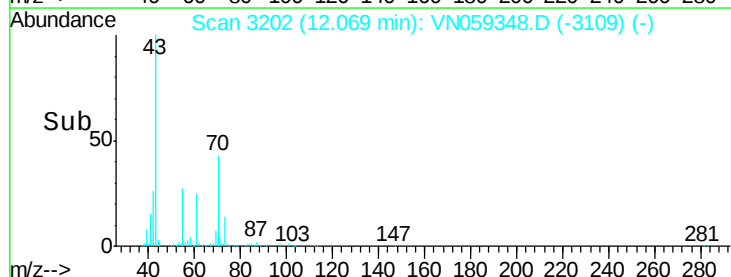
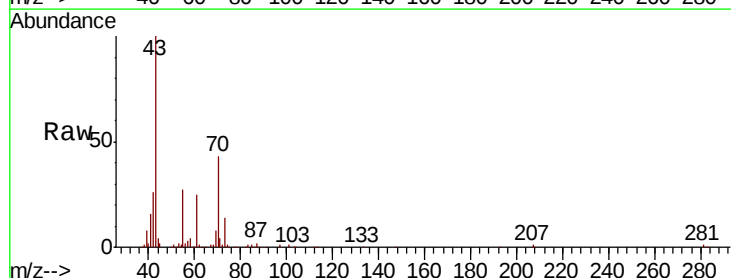
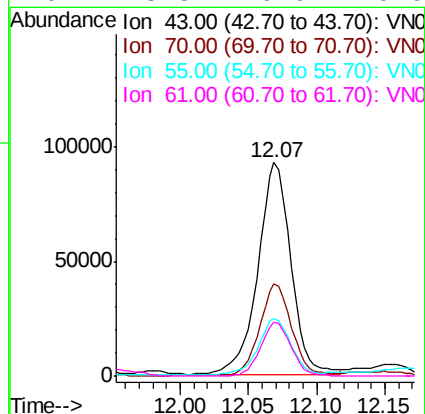
Ion Ratio Lower Upper

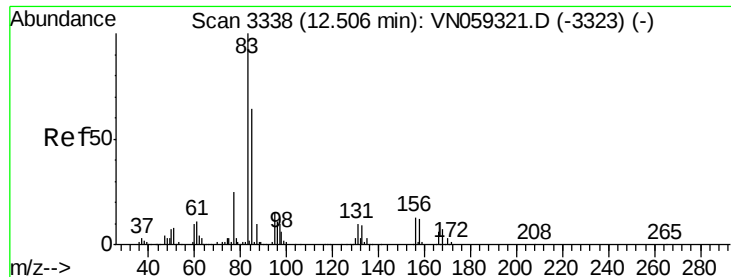
43 100

70 41.0 33.8 50.6

55 25.7 20.3 30.5

61 23.5 19.9 29.9





#75

1,1,2,2-Tetrachloroethane

Concen: 18.935 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

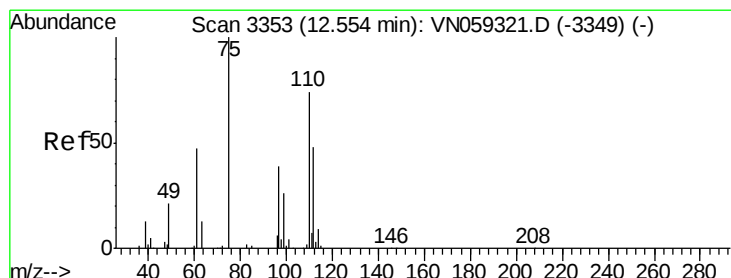
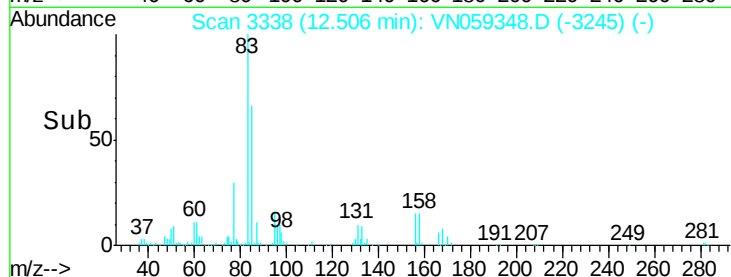
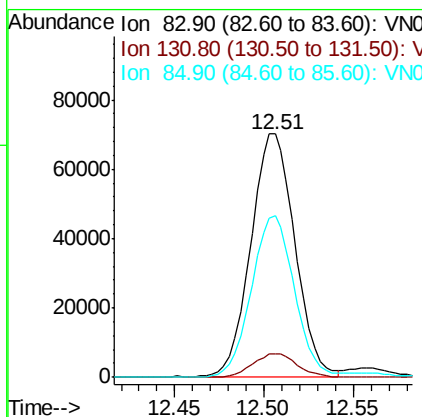
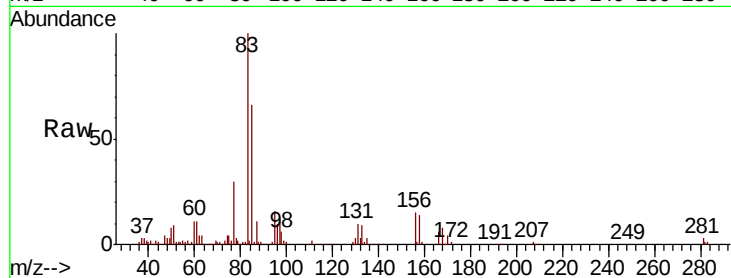
ClientSampleId :

VN1121WBSD02

Tot Ion:	83	Resp:	120607
Ion Ratio	Lower	Upper	
83	100		
131	9.9	5.0	14.9
85	67.0	32.1	96.3

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 20.257 ug/l m

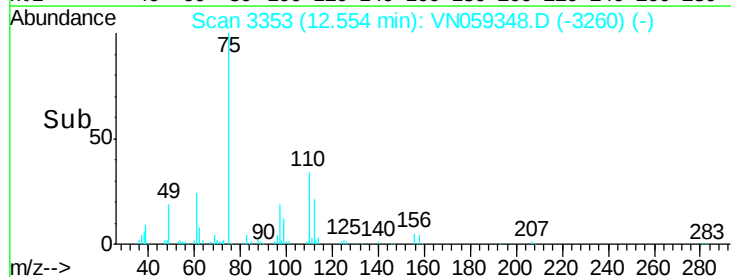
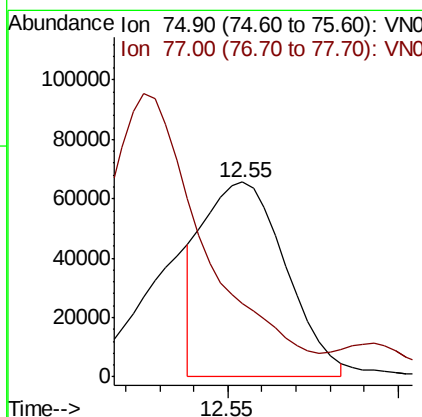
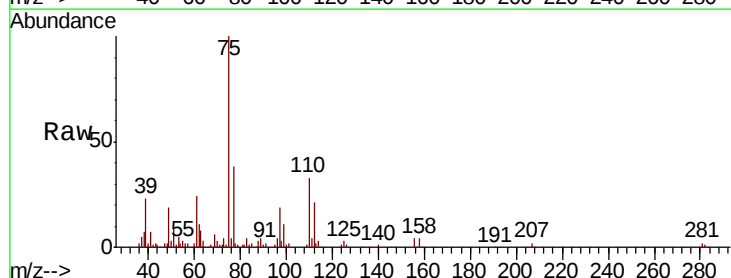
RT: 12.55 min Scan# 3353

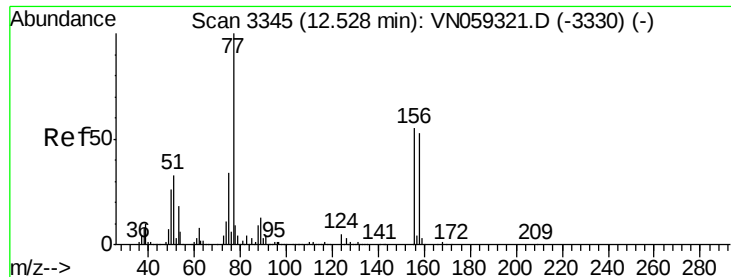
Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Tgt Ion:	75	Resp:	110002
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.101 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBSD02

Tot Ion:156 Resp: 89205

Ion Ratio Lower Upper

156 100

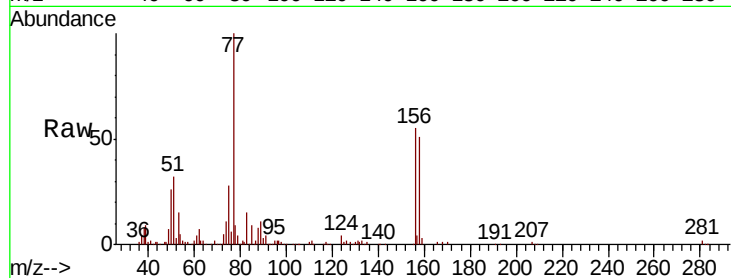
77 223.3 111.1 333.4

158 95.5 47.8 143.4

Manual Integrations
APPROVED

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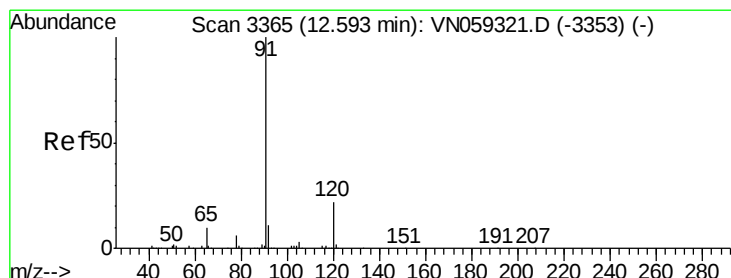
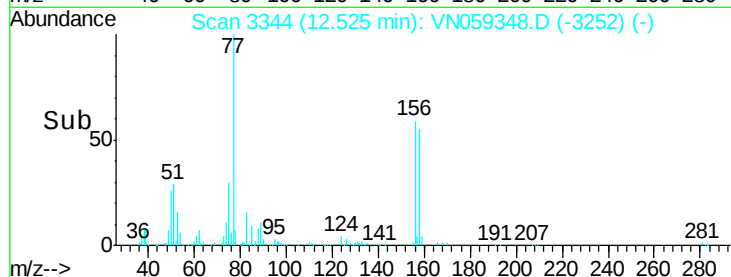
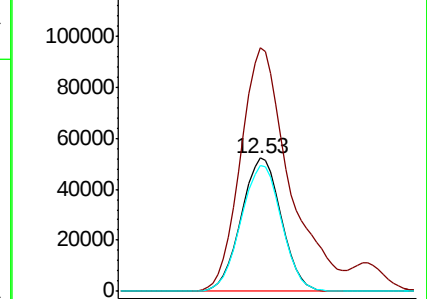
11/22/2019 3:13:02 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.634 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN059348.D

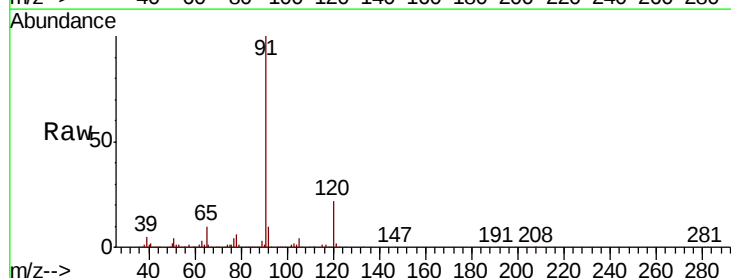
Acq: 21 Nov 2019 19:51

Tgt Ion: 91 Resp: 428243

Ion Ratio Lower Upper

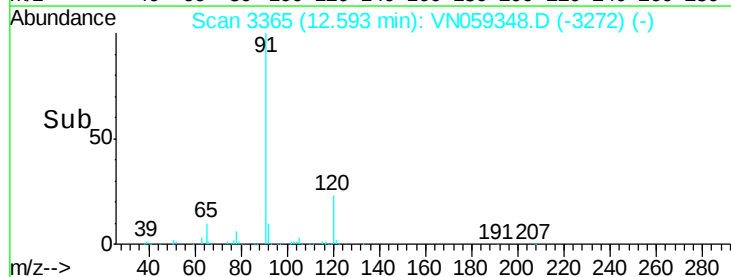
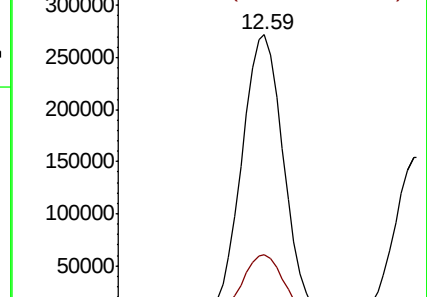
91 100

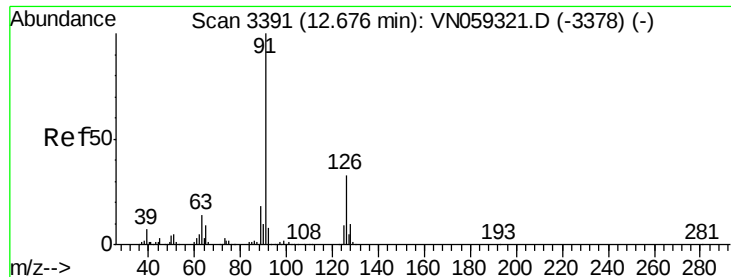
120 22.8 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





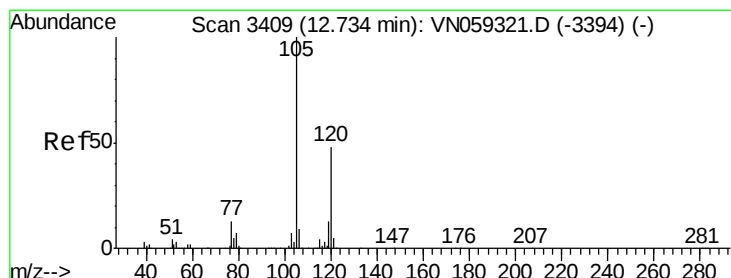
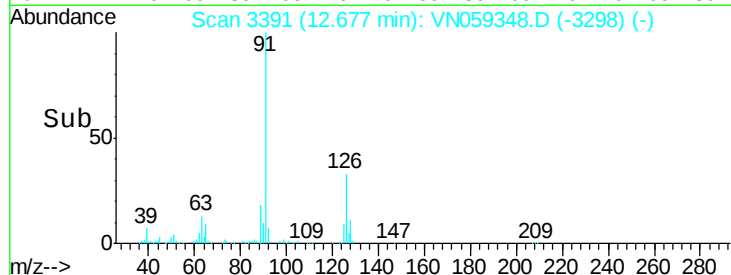
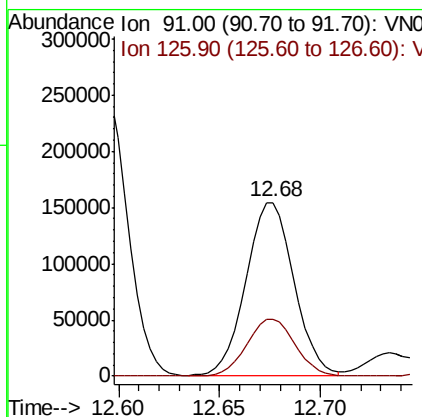
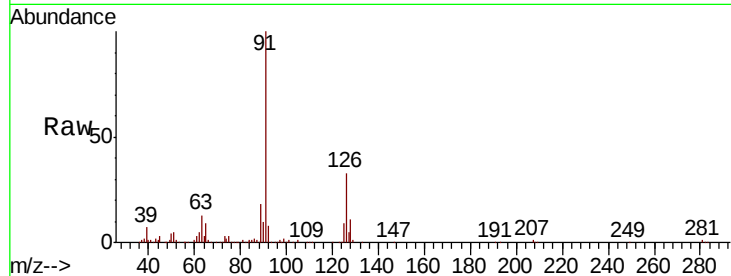
#79
 2-Chlorotoluene
 Concen: 19.090 ug/l
 RT: 12.68 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.7	50.1

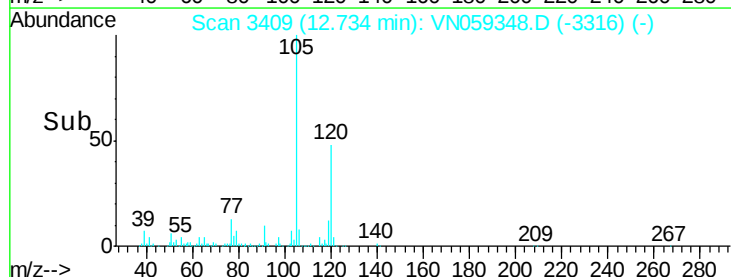
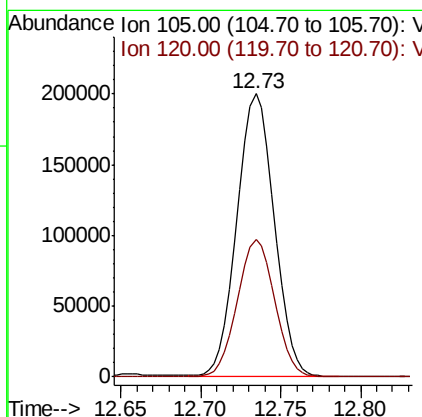
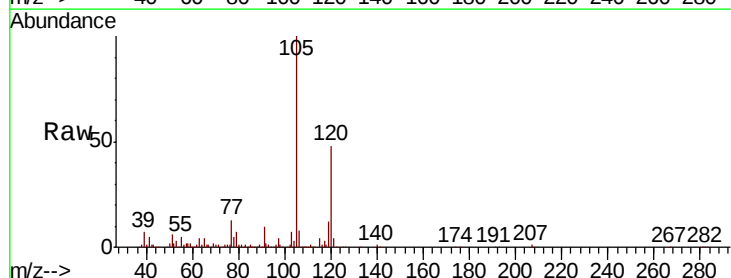
Manual Integrations
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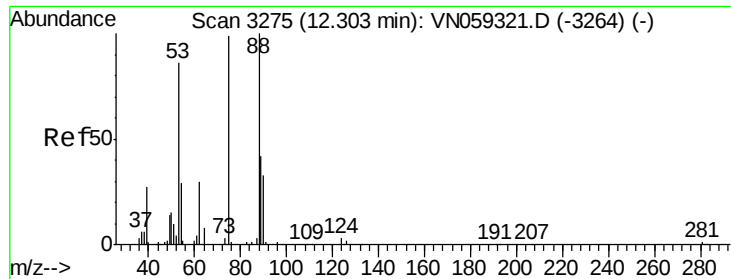
MMDadoda
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#80
 1,3,5-Trimethylbenzene
 Concen: 19.582 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.7	24.1	72.4





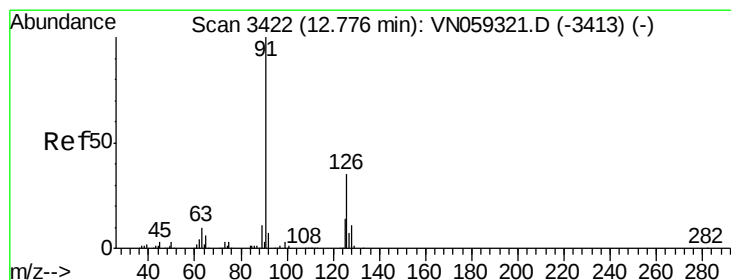
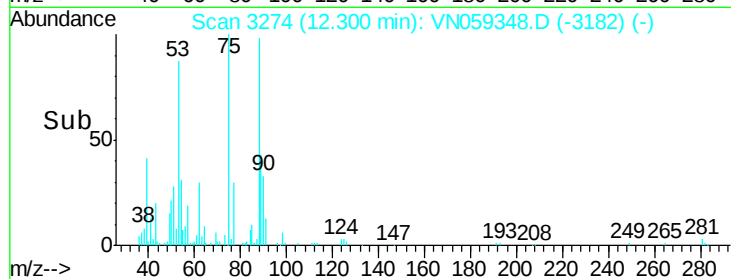
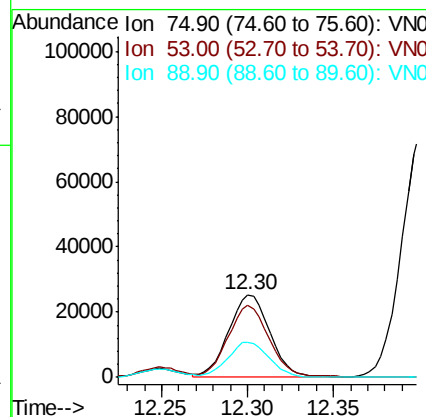
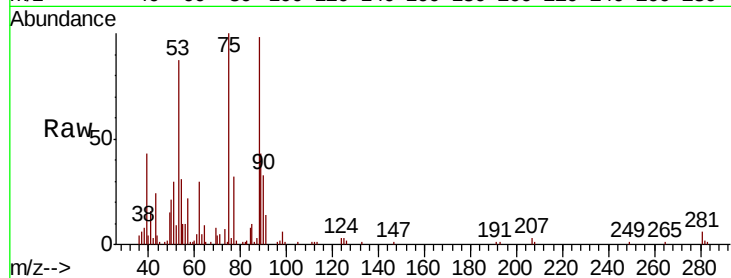
#81
trans-1,4-Dichloro-2-butene
Concen: 19.456 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.0	70.7	106.1
89	43.2	35.4	53.0

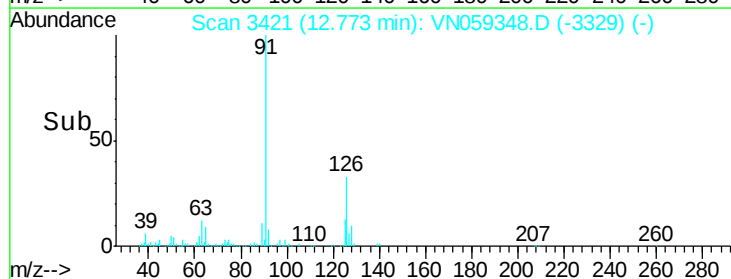
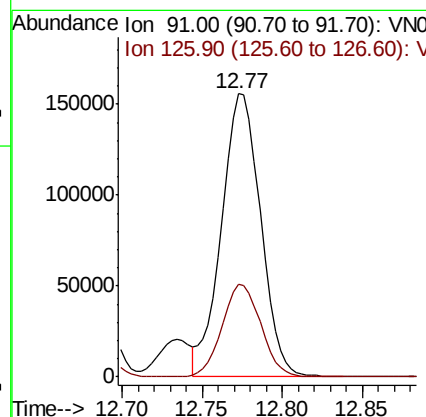
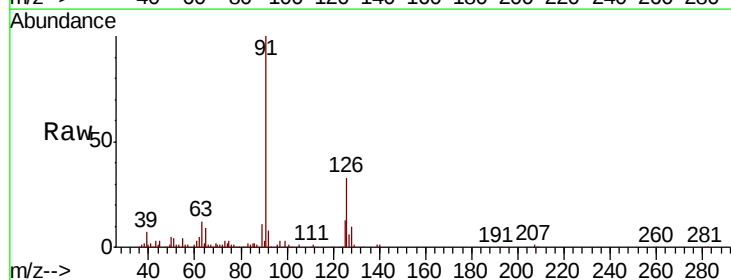
Manual Integrations
APPROVED

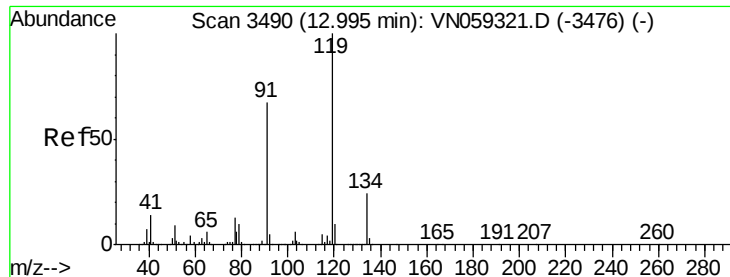
MMDadoda
11/22/2019 3:13:02 PM



#82
4-Chlorotoluene
Concen: 18.771 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.6	16.2	48.6





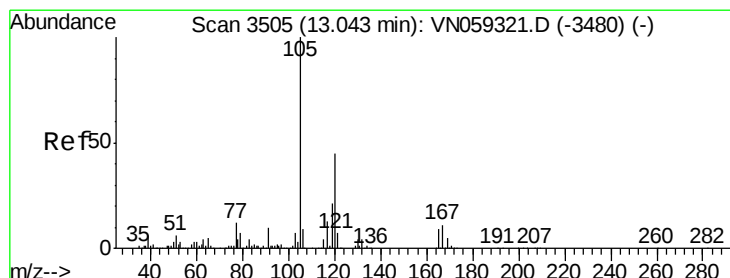
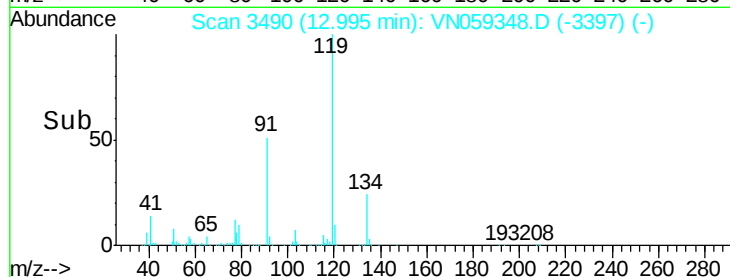
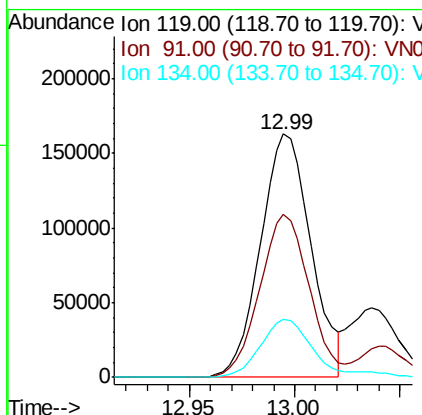
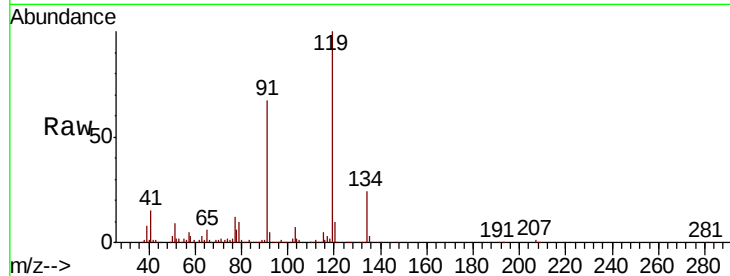
#83
tert-Butylbenzene
Concen: 19.872 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.3	32.8	98.4
134	25.4	13.0	38.9

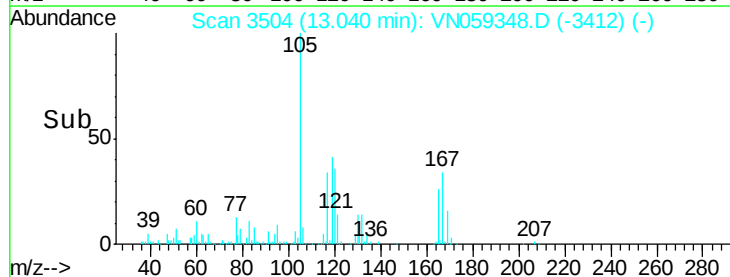
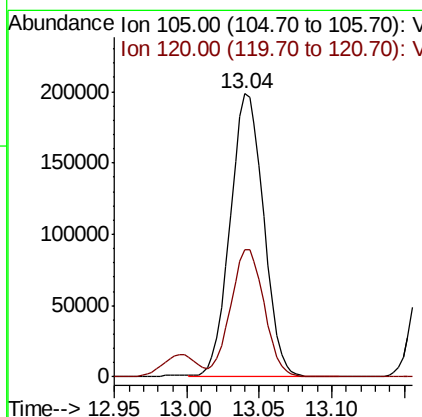
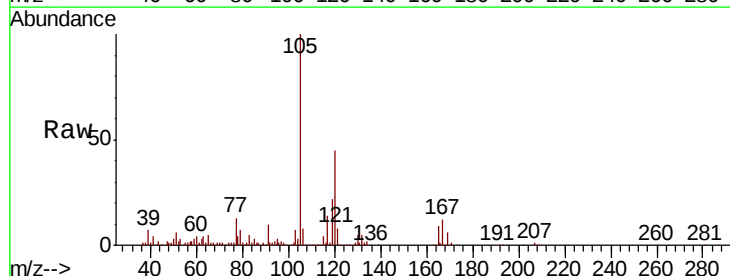
Manual Integrations
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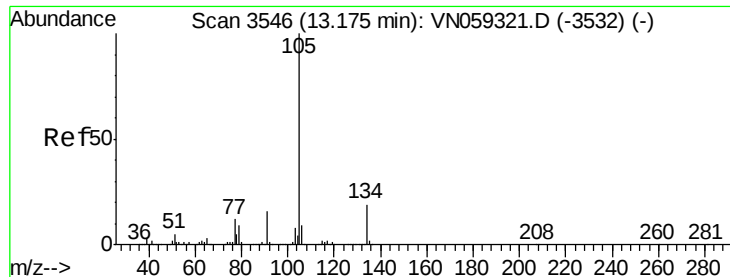
MMDadoda
11/22/2019 3:13:02 PM



#84
1,2,4-Trimethylbenzene
Concen: 20.019 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.6	67.8





#85

sec-Butylbenzene

Concen: 19.595 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

ClientSampleId :

VN1121WBSD02

Tot Ion:105 Resp: 360024

Ion Ratio Lower Upper

105 100

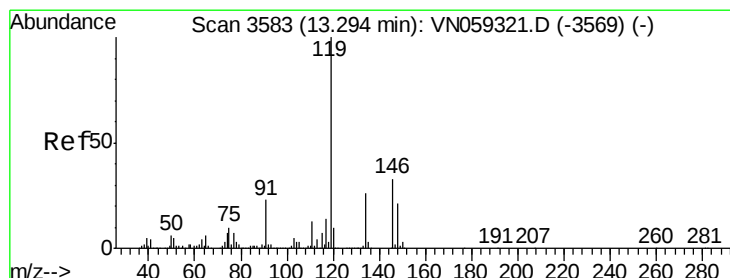
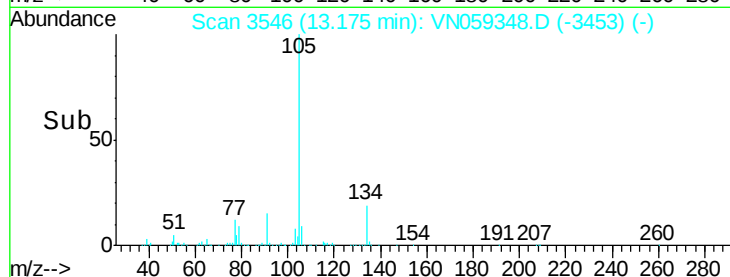
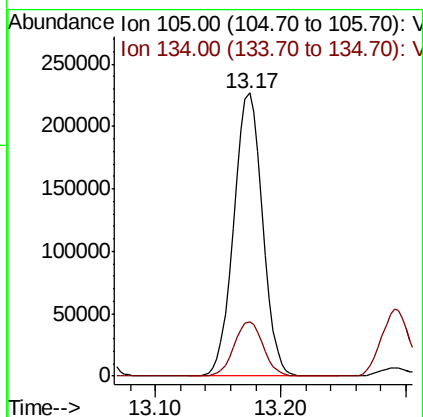
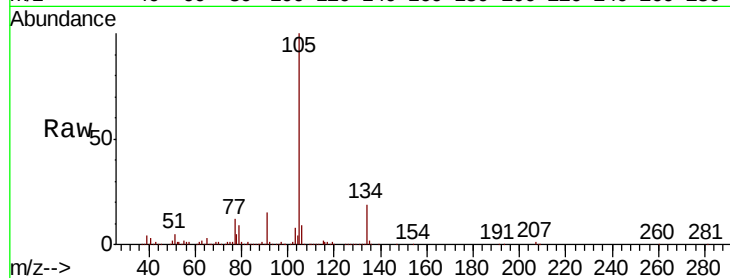
134 19.4 9.8 29.3

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 19.621 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

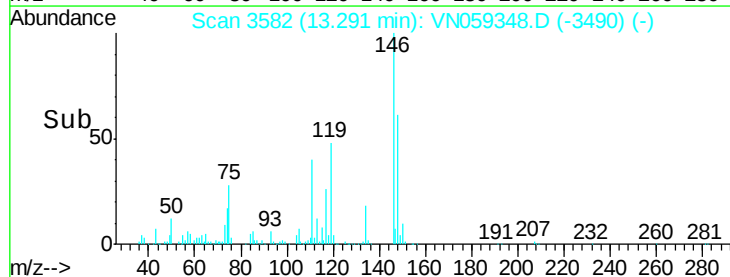
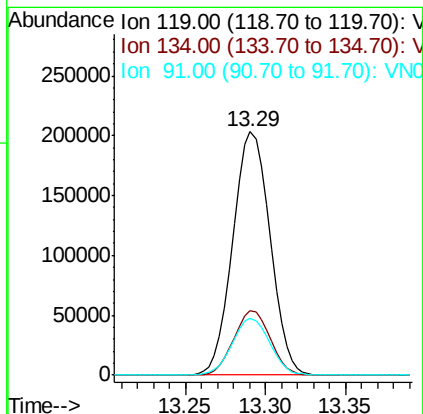
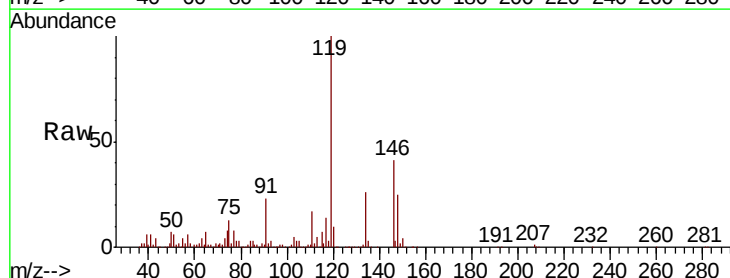
Tgt Ion:119 Resp: 320795

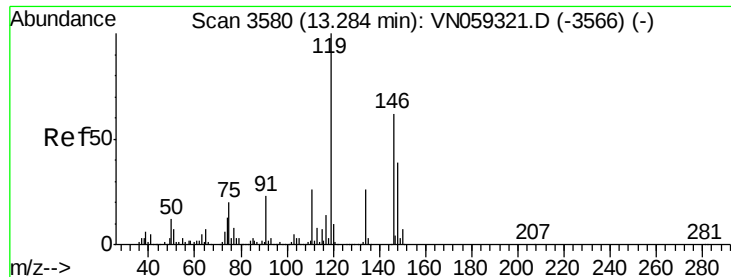
Ion Ratio Lower Upper

119 100

134 26.4 13.0 38.9

91 23.1 11.6 34.7





#87

1,3-Dichlorobenzene

Concen: 18.611 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

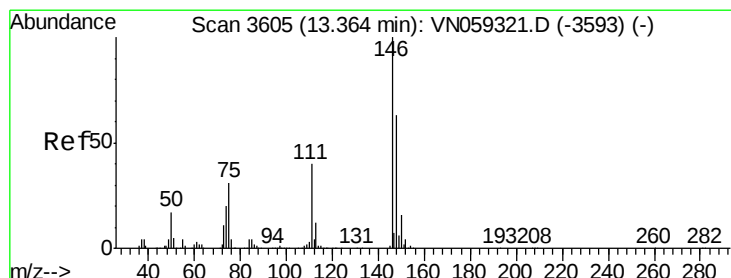
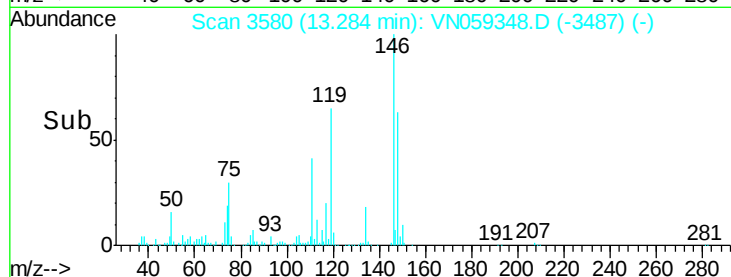
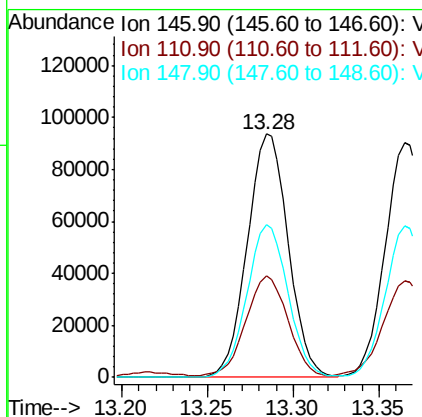
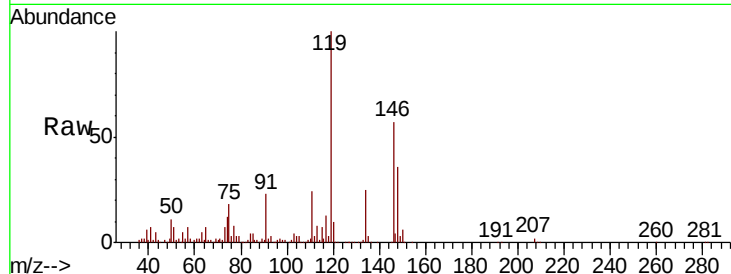
ClientSampleId :

VN1121WBSD02

Tot Ion:	146	Resp:	154784
Ion Ratio	Lower	Upper	
146	100		
111	41.2	20.6	61.8
148	63.1	31.9	95.5

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 18.540 ug/l

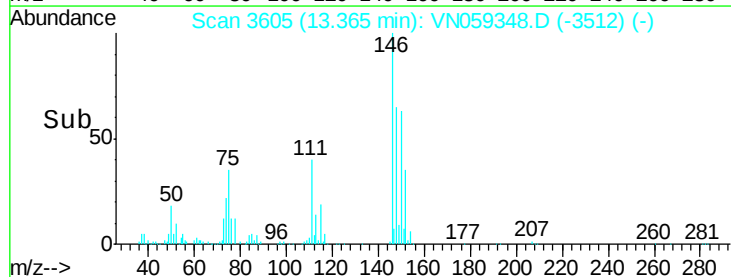
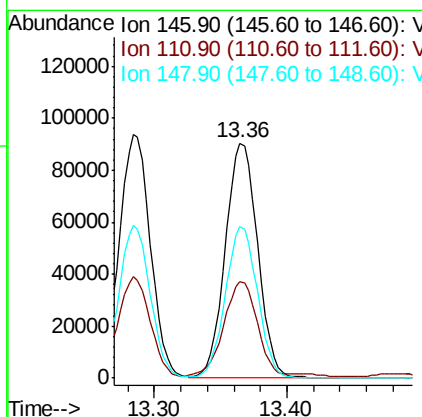
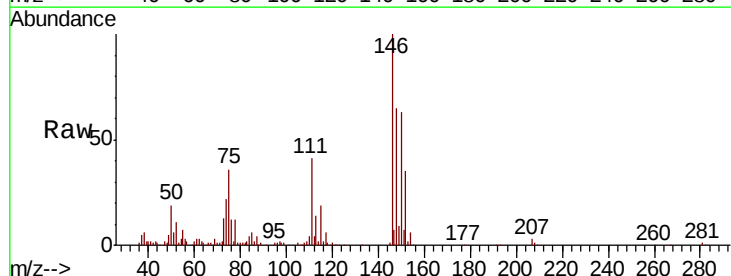
RT: 13.36 min Scan# 3605

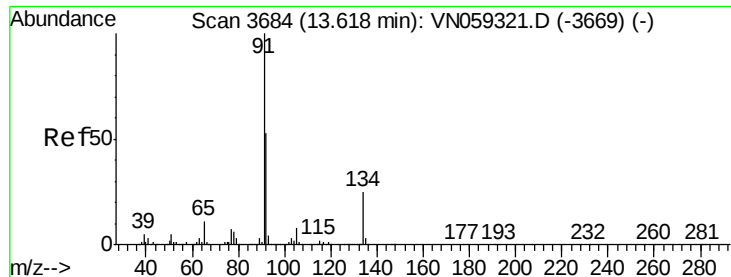
Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Tgt Ion:	146	Resp:	152568
Ion Ratio	Lower	Upper	
146	100		
111	42.3	20.1	60.3
148	64.4	31.7	95.1





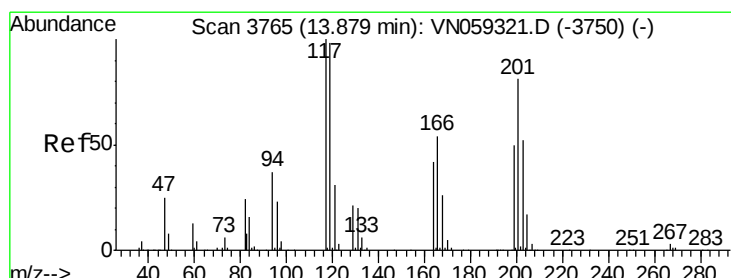
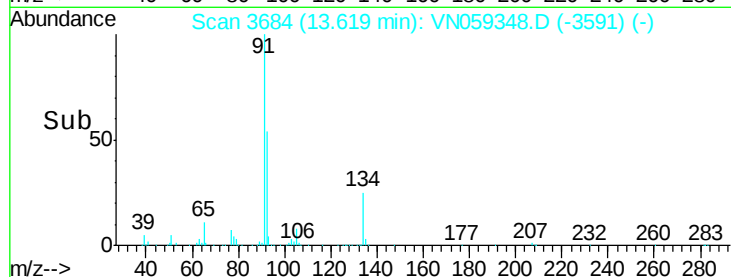
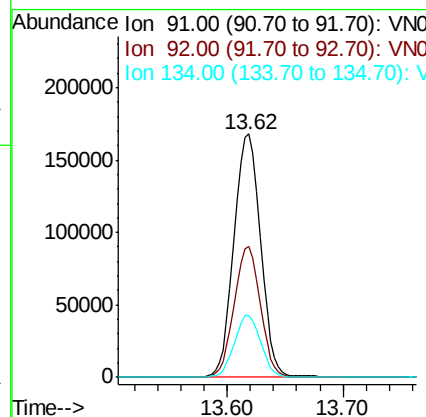
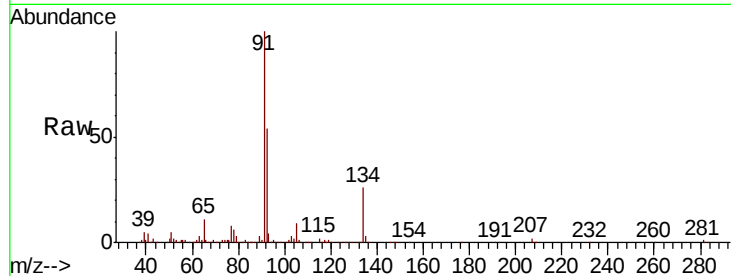
#89
n-Butylbenzene
Concen: 18.506 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.0	78.0
134	25.0	12.7	38.1

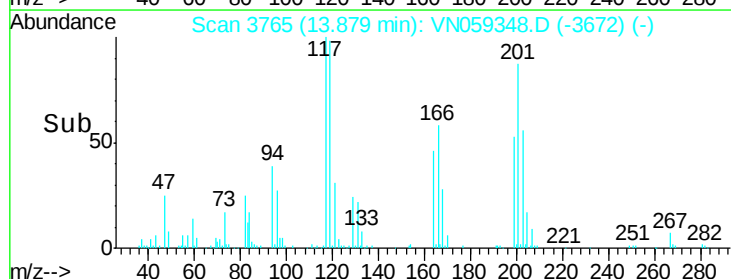
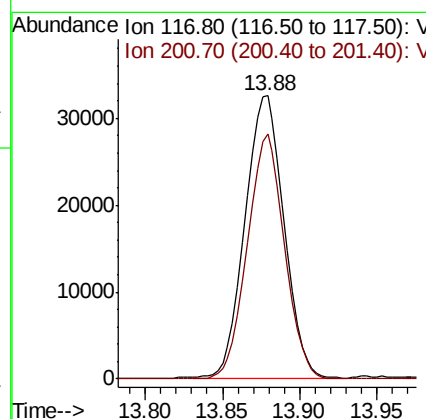
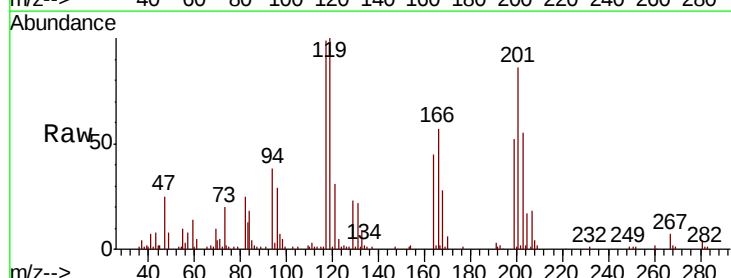
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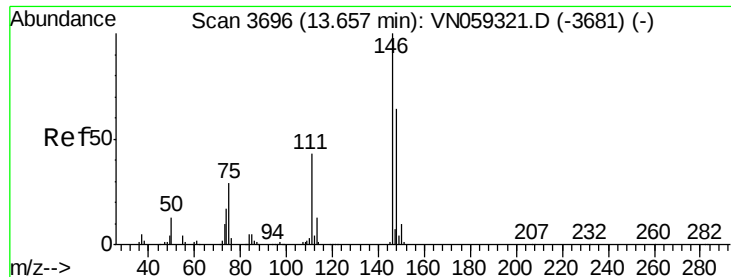
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#90
Hexachloroethane
Concen: 18.562 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.8	40.4	121.2





#91

1,2-Dichlorobenzene

Concen: 18.915 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Instrument :

MSVOA_N

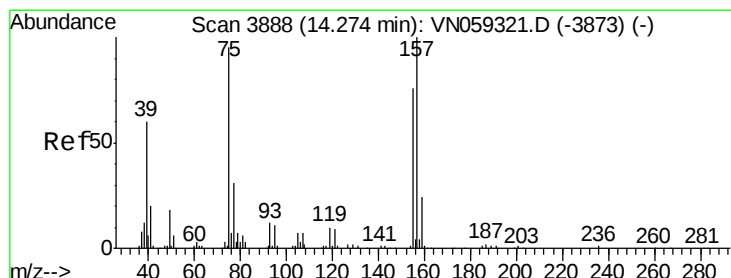
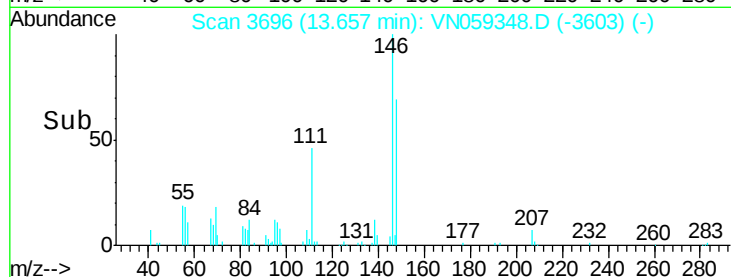
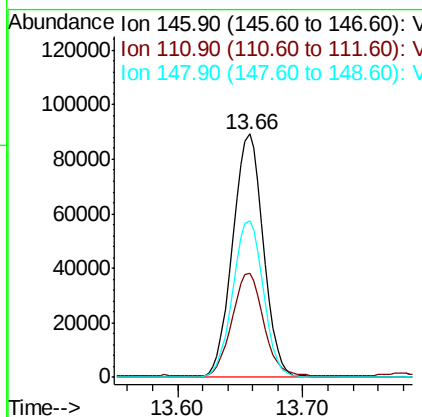
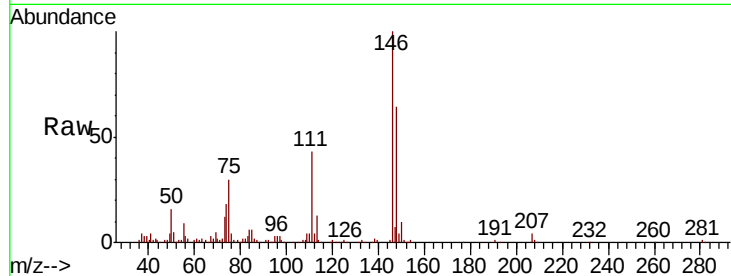
ClientSampleId :

VN1121WBSD02

Tot Ion:	146	Resp:	152204
Ion Ratio	Lower	Upper	
146	100		
111	43.6	21.3	64.0
148	64.2	31.9	95.5

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#92

1,2-Dibromo-3-Chloropropane

Concen: 17.431 ug/l

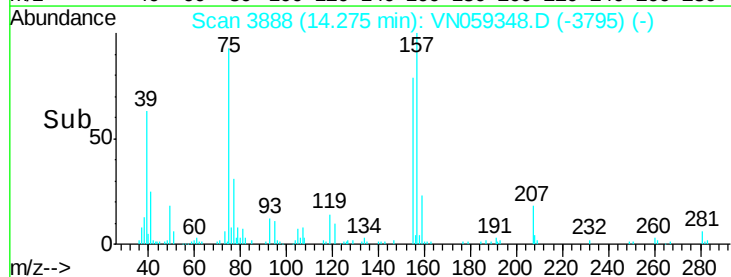
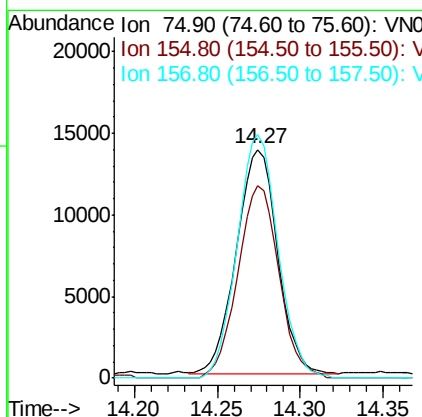
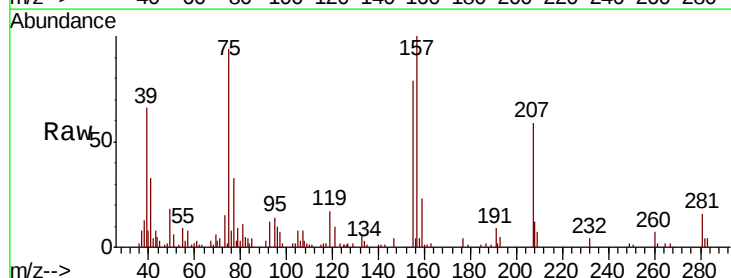
RT: 14.27 min Scan# 3888

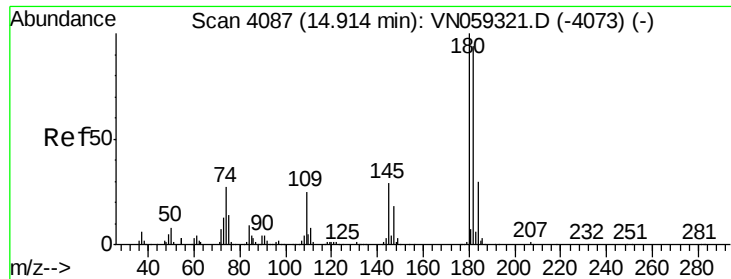
Delta R.T. 0.00 min

Lab File: VN059348.D

Acq: 21 Nov 2019 19:51

Tgt Ion:	75	Resp:	23605
Ion Ratio	Lower	Upper	
75	100		
155	86.1	40.5	121.5
157	108.2	52.7	158.1





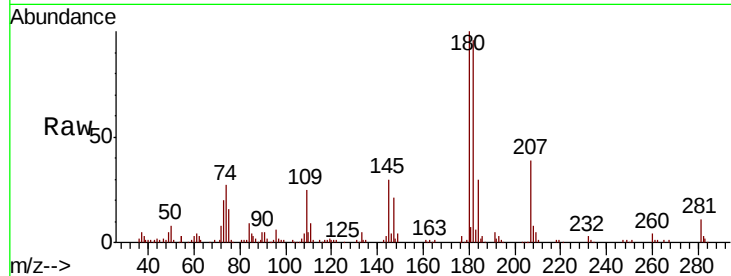
#93
 1,2,4-Trichlorobenzene
 Concen: 18.627 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1121WBSD02

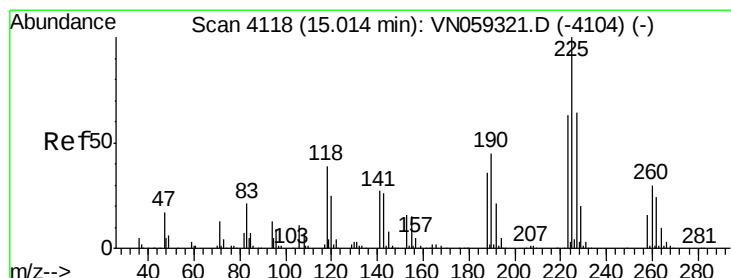
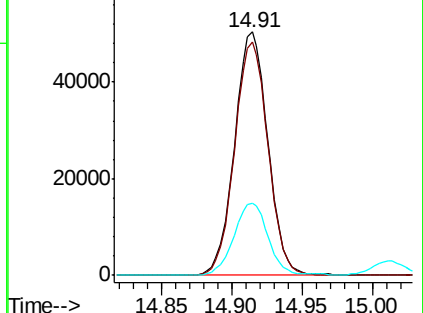
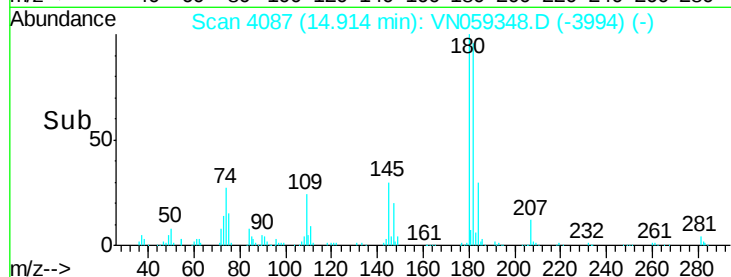
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.2	141.6
145	30.7	14.9	44.5

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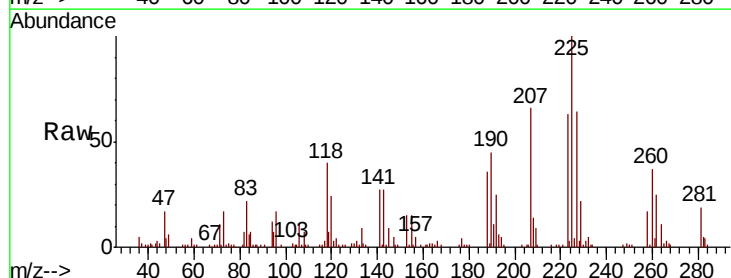


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

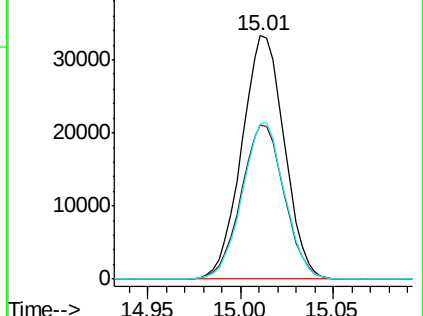
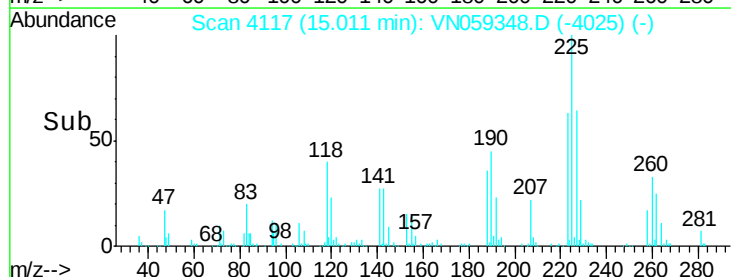


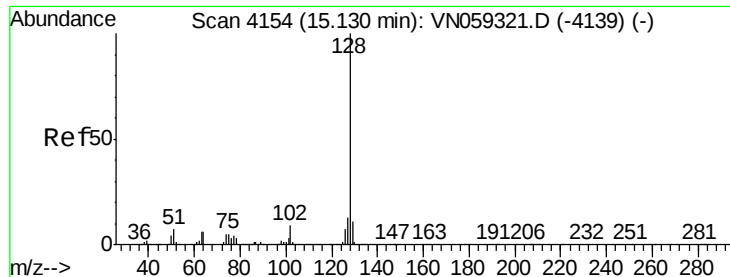
#94
 Hexachlorobutadiene
 Concen: 18.295 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN059348.D
 Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.1	31.6	94.8
227	63.5	32.6	97.7



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





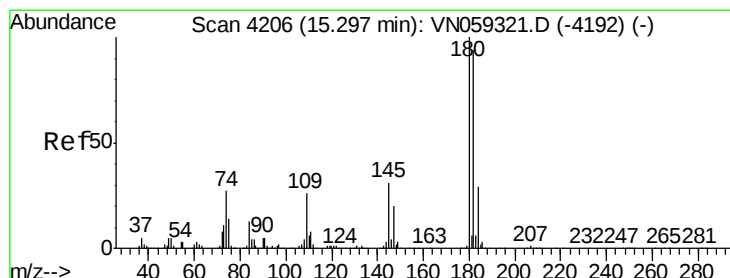
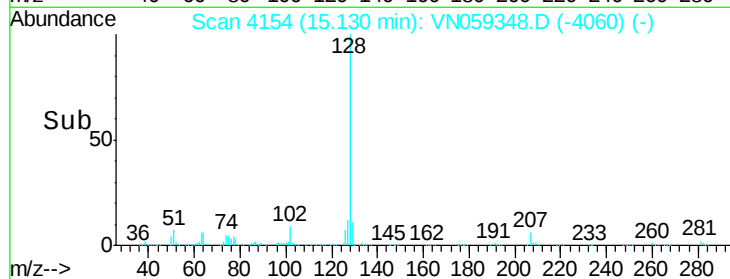
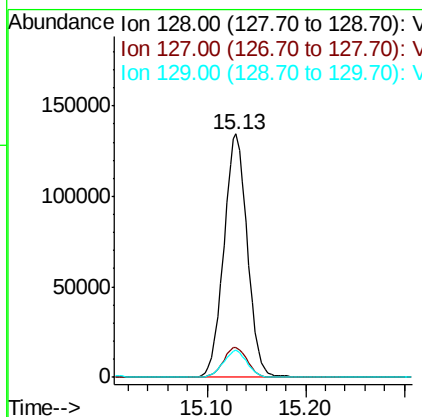
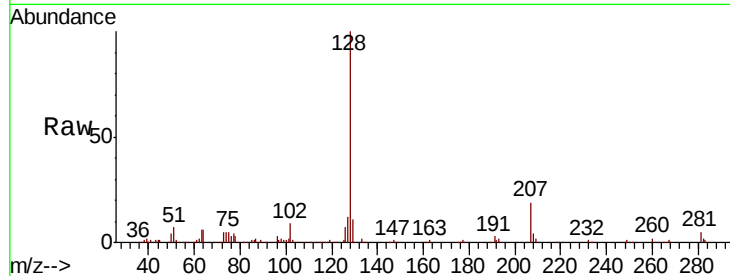
#95
Naphthalene
Concen: 18.400 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Instrument :
MSVOA_N
ClientSampleId :
VN1121WBSD02

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.2
129	11.2	8.6	13.0

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#96
1,2,3-Trichlorobenzene
Concen: 18.456 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. 0.00 min
Lab File: VN059348.D
Acq: 21 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.1	141.4
145	32.3	15.6	46.8

