

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041620\
 Data File : VN061014.D
 Acq On : 16 Apr 2020 16:18
 Operator : JC/MD
 Sample : VN0416WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Manual Integrations
 APPROVED

MMDadoda
 4/17/2020 11:53:34 AM

Quant Time: Apr 17 04:27:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 17 03:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	163556	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	272129	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	245168	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	111602	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	98212	46.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.86%	
35) Dibromofluoromethane	7.56	113	74801	47.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.14%	
50) Toluene-d8	10.08	98	269671	44.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.82%	
62) 4-Bromofluorobenzene	12.39	95	106654	45.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.62%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.83	85	39799	18.641	ug/l 98
3) Chloromethane	2.04	50	50220	17.312	ug/l 98
4) Vinyl Chloride	2.17	62	44021	18.261	ug/l 99
5) Bromomethane	2.55	94	22506	18.617	ug/l 98
6) Chloroethane	2.69	64	25923	18.642	ug/l 97
7) Trichlorofluoromethane	3.00	101	56366	18.781	ug/l 100
8) Diethyl Ether	3.38	74	23006	19.287	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	32116	18.240	ug/l 97
10) Methyl Iodide	3.93	142	31306	20.154	ug/l 100
11) Tert butyl alcohol	4.72	59	34283	92.337	ug/l 100
12) 1,1-Dichloroethene	3.71	96	32774	18.311	ug/l 98
13) Acrolein	3.57	56	24736	78.905	ug/l 100
14) Allyl chloride	4.29	41	60004	17.719	ug/l 99
15) Acrylonitrile	4.94	53	94647	94.019	ug/l 100
16) Acetone	3.78	43	82929	90.037	ug/l 99
17) Carbon Disulfide	4.03	76	101710	18.160	ug/l 99
18) Methyl Acetate	4.28	43	54156	18.751	ug/l 99
19) Methyl tert-butyl Ether	4.99	73	117872	18.887	ug/l 97
20) Methylene Chloride	4.52	84	37379	18.587	ug/l 99
21) trans-1,2-Dichloroethene	5.00	96	35334	18.458	ug/l 94
22) Diisopropyl ether	5.91	45	130061	18.492	ug/l 96
23) Vinyl Acetate	5.85	43	514342	93.256	ug/l 99
24) 1,1-Dichloroethane	5.81	63	70139	18.464	ug/l 100
25) 2-Butanone	6.79	43	127092	90.047	ug/l 97
26) 2,2-Dichloropropane	6.79	77	59259	18.736	ug/l 99
27) cis-1,2-Dichloroethene	6.79	96	40880	18.601	ug/l 99
28) Bromochloromethane	7.16	49	34367	19.709	ug/l 97
29) Tetrahydrofuran	7.17	42	86184	89.945	ug/l 98
30) Chloroform	7.34	83	66038	18.638	ug/l 100
31) Cyclohexane	7.63	56	68898	17.675	ug/l 95
32) 1,1,1-Trichloroethane	7.54	97	56790	18.530	ug/l 100
36) 1,1-Dichloropropene	7.76	75	51968	18.506	ug/l 99
37) Ethyl Acetate	6.89	43	55406	18.171	ug/l 99
38) Carbon Tetrachloride	7.75	117	42945	18.373	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.06	83	62006	18.469	ug/l	96
40) Benzene	8.01	78	153783	18.460	ug/l	100
41) Methacrylonitrile	7.15	41	28930m	22.747	ug/l	
42) 1,2-Dichloroethane	8.10	62	56187	19.799	ug/l	100
43) Isopropyl Acetate	8.14	43	92170	18.586	ug/l	99
44) Trichloroethene	8.81	130	38181	18.240	ug/l	97
45) 1,2-Dichloropropane	9.10	63	41812	18.582	ug/l	97
46) Dibromomethane	9.19	93	25763	19.858	ug/l	98
47) Bromodichloromethane	9.38	83	52332	19.094	ug/l	98
48) Methyl methacrylate	9.18	41	39905	18.209	ug/l	100
49) 1,4-Dioxane	9.18	88	11641	391.034	ug/l	99
51) 4-Methyl-2-Pentanone	9.97	43	266589	93.253	ug/l	100
52) Toluene	10.14	92	93072	18.623	ug/l	100
53) t-1,3-Dichloropropene	10.37	75	61523	19.325	ug/l	99
54) cis-1,3-Dichloropropene	9.82	75	65539	18.868	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	36437	19.266	ug/l	100
56) Ethyl methacrylate	10.42	69	56029	18.839	ug/l	99
57) 1,3-Dichloropropane	10.70	76	64209	19.033	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.68	63	124044	91.789	ug/l	99
59) 2-Hexanone	10.74	43	191295	92.786	ug/l	100
60) Dibromochloromethane	10.89	129	36734	18.907	ug/l	99
61) 1,2-Dibromoethane	10.99	107	36682	19.034	ug/l	99
64) Tetrachloroethene	10.62	164	35974	19.175	ug/l	98
65) Chlorobenzene	11.42	112	94762	18.723	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.50	131	34200	18.887	ug/l	98
67) Ethyl Benzene	11.50	91	178102	18.708	ug/l	99
68) m/p-Xylenes	11.61	106	130267	37.862	ug/l	99
69) o-Xylene	11.94	106	62534	18.903	ug/l	99
70) Styrene	11.96	104	101498	19.058	ug/l	99
71) Bromoform	12.12	173	26044	19.269	ug/l #	99
73) Isopropylbenzene	12.24	105	167416	18.725	ug/l	100
74) N-amyl acetate	12.06	43	74929	18.021	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	52065	19.076	ug/l	98
76) 1,2,3-Trichloropropane	12.54	75	45877m	18.689	ug/l	
77) Bromobenzene	12.52	156	39661	18.999	ug/l	99
78) n-propylbenzene	12.58	91	198055	18.933	ug/l	100
79) 2-Chlorotoluene	12.67	91	115102	18.761	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	140617	19.027	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.29	75	18122	18.209	ug/l	99
82) 4-Chlorotoluene	12.77	91	120247	18.898	ug/l	100
83) tert-Butylbenzene	12.99	119	117920	18.973	ug/l	99
84) 1,2,4-Trimethylbenzene	13.03	105	141680	19.394	ug/l	99
85) sec-Butylbenzene	13.16	105	158927	18.872	ug/l	100
86) p-Isopropyltoluene	13.28	119	142726	19.033	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	70045	18.828	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	70933	18.952	ug/l	99
89) n-Butylbenzene	13.61	91	133710	19.175	ug/l	99
90) Hexachloroethane	13.87	117	21794	18.943	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	67808	19.097	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.26	75	10386	19.662	ug/l	97

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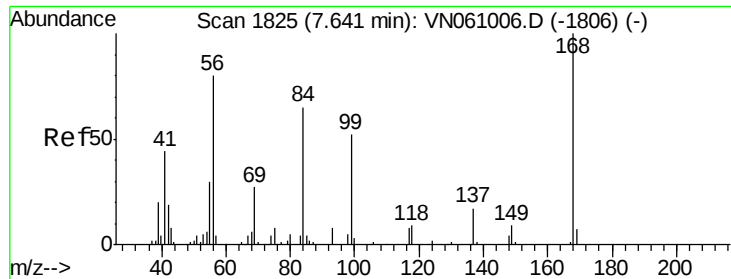
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.90	180	42228	20.093	ug/l	99
94) Hexachlorobutadiene	15.00	225	21242	19.648	ug/l	99
95) Naphthalene	15.13	128	120633	19.682	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	40658	20.075	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion:168 Resp: 163556

Ion Ratio Lower Upper

168 100

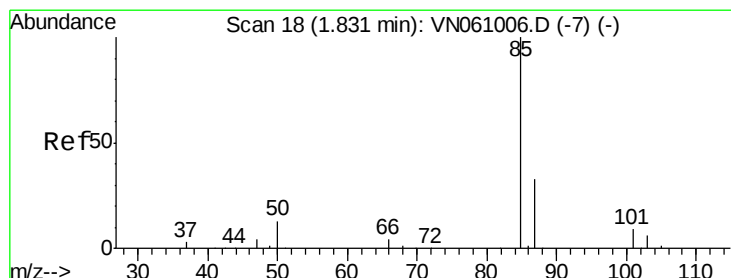
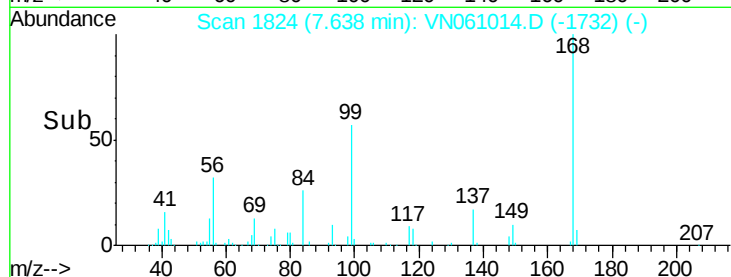
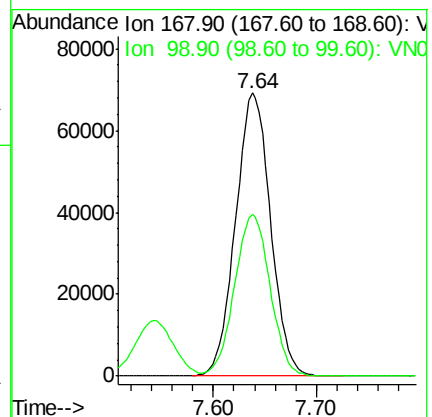
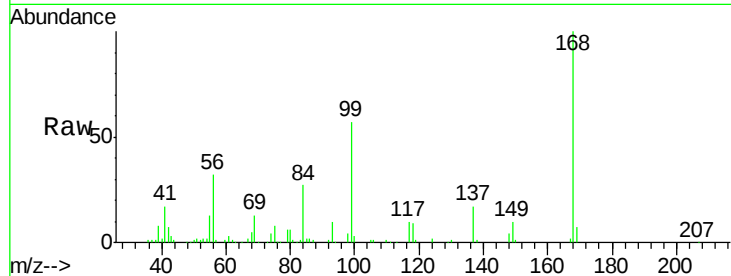
99 57.2 47.4 71.2

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 18.641 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061014.D

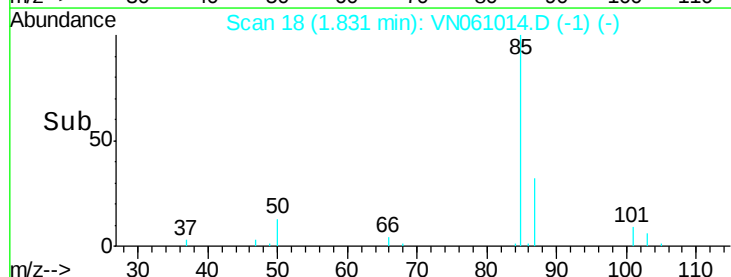
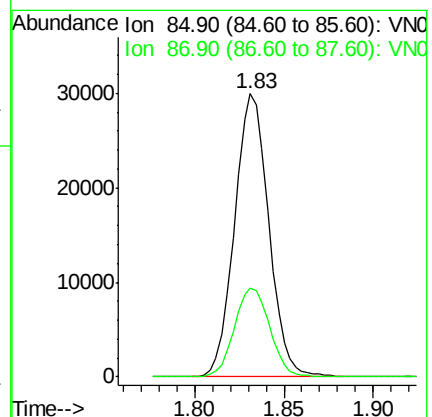
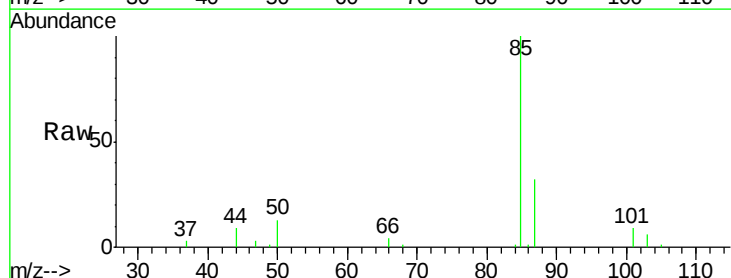
Acq: 16 Apr 2020 16:18

Tgt Ion: 85 Resp: 39799

Ion Ratio Lower Upper

85 100

87 31.6 16.3 48.9





#3

Chloromethane

Concen: 17.312 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion: 50 Resp: 50220

Ion Ratio Lower Upper

50 100

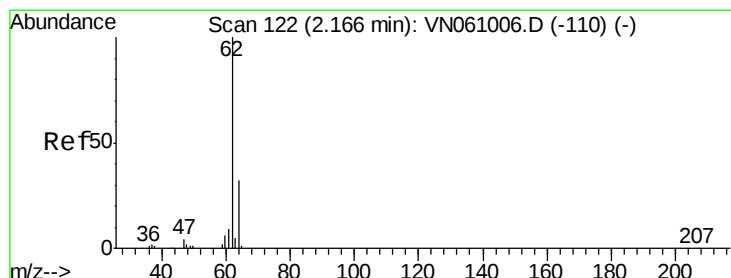
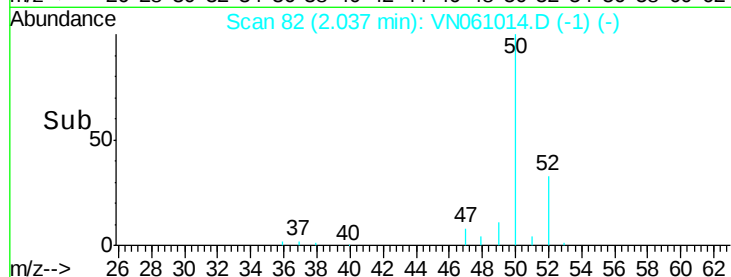
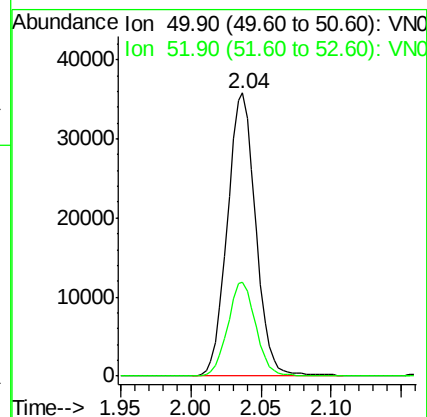
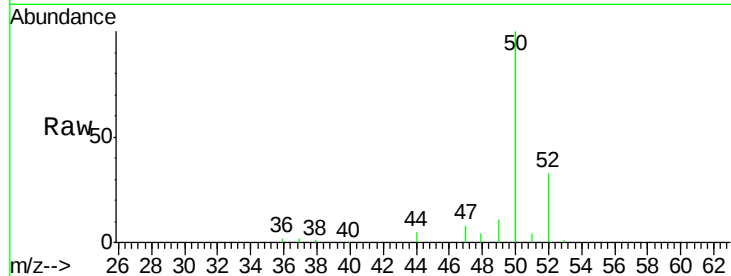
52 33.3 25.6 38.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 18.261 ug/l

RT: 2.17 min Scan# 122

Delta R.T. -0.00 min

Lab File: VN061014.D

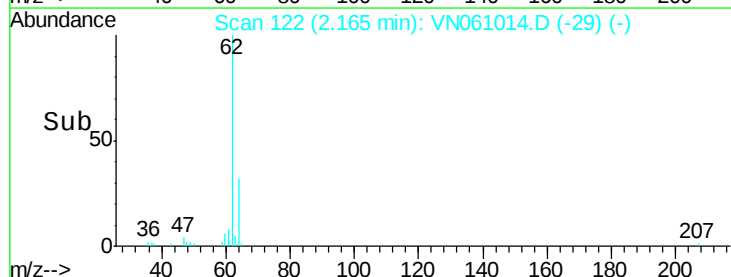
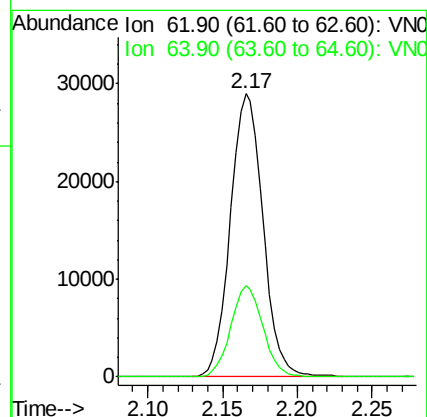
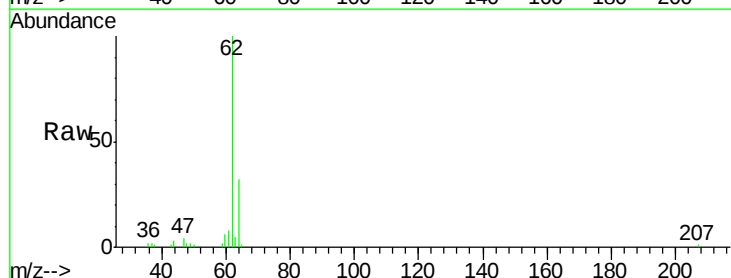
Acq: 16 Apr 2020 16:18

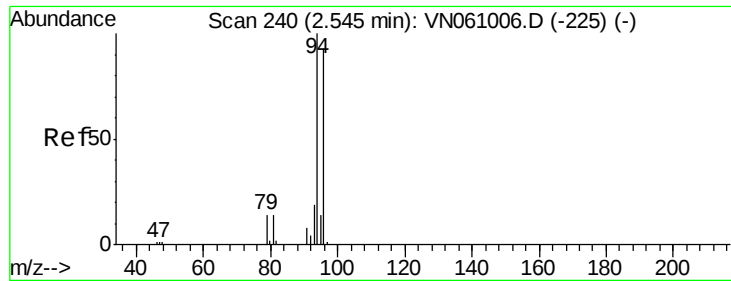
Tgt Ion: 62 Resp: 44021

Ion Ratio Lower Upper

62 100

64 32.4 25.4 38.0





#5

Bromomethane

Concen: 18.617 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

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ClientSampleId :

VN0416WBSD01

Tot Ion: 94 Resp: 22506

Ion Ratio Lower Upper

94 100

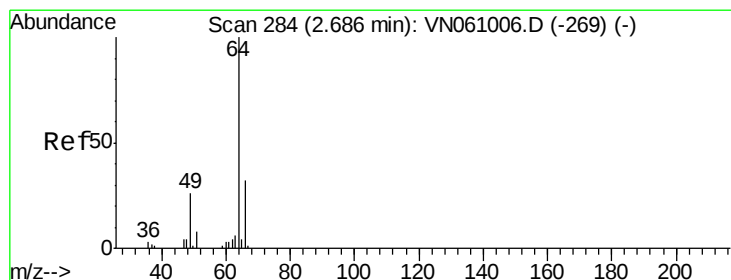
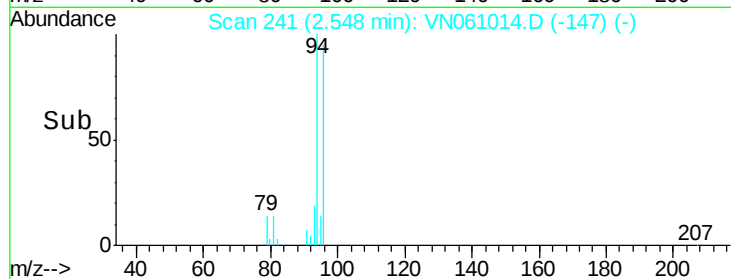
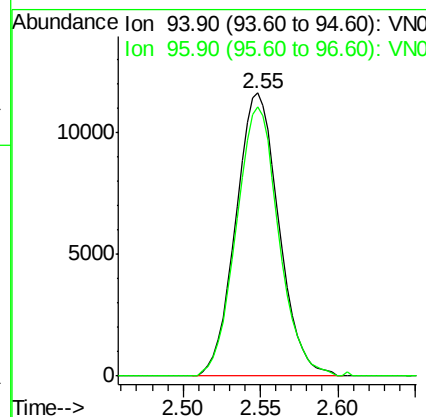
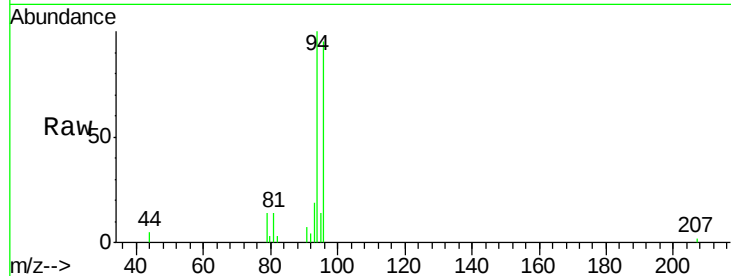
96 95.2 74.3 111.5

Manual Integrations

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#6

Chloroethane

Concen: 18.642 ug/l

RT: 2.69 min Scan# 284

Delta R.T. -0.00 min

Lab File: VN061014.D

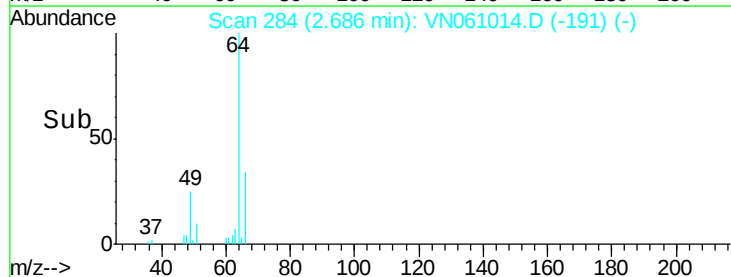
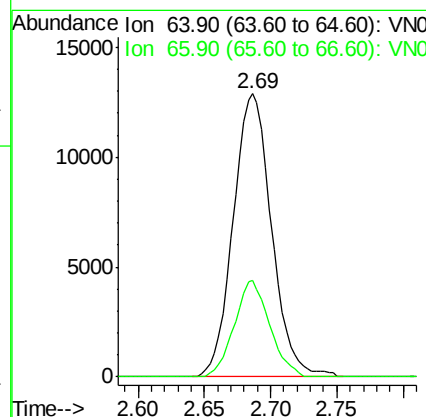
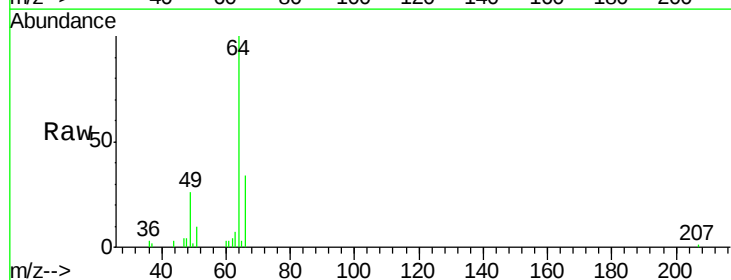
Acq: 16 Apr 2020 16:18

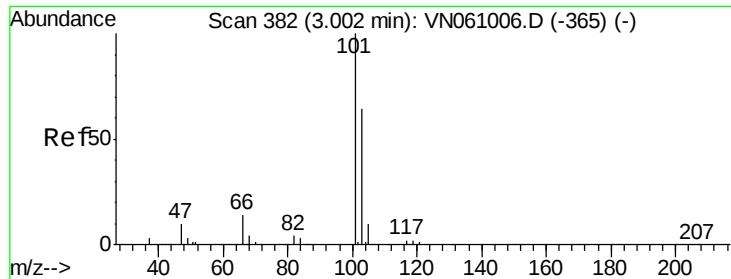
Tgt Ion: 64 Resp: 25923

Ion Ratio Lower Upper

64 100

66 34.1 25.8 38.8





#7

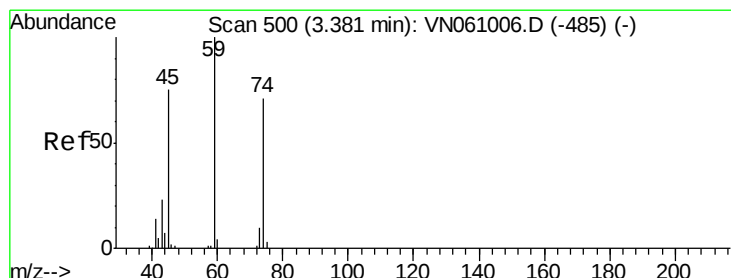
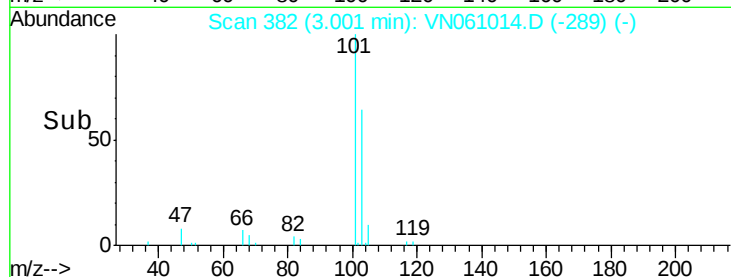
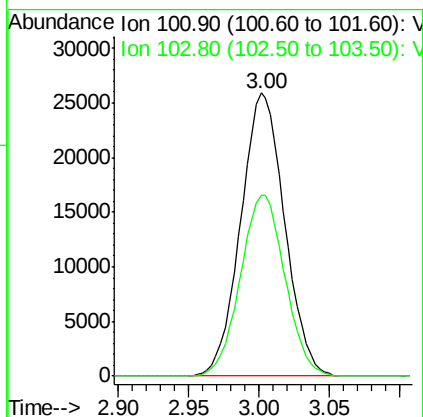
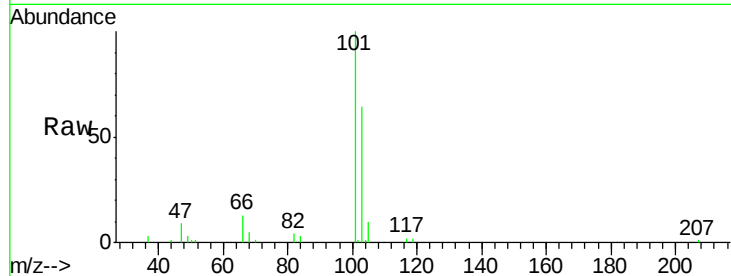
Trichlorofluoromethane
 Concen: 18.781 ug/l
 RT: 3.00 min Scan# 382
 Delta R.T. -0.00 min
 Lab File: VN061014.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.4	77.2

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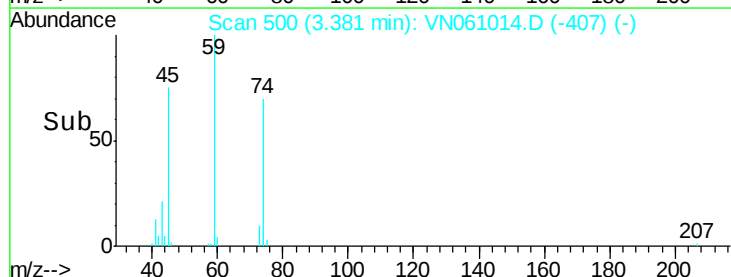
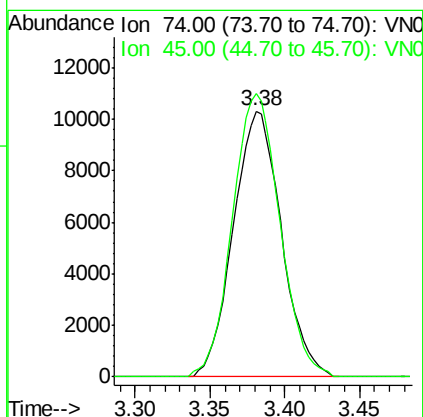
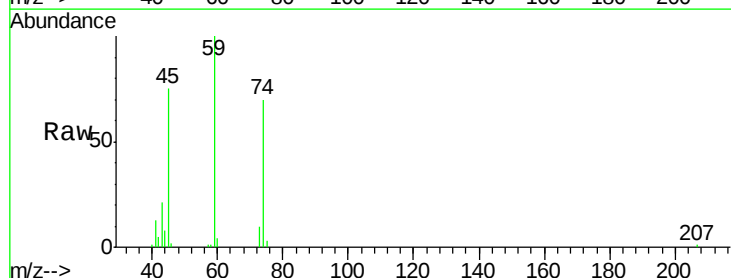
MMDadoda
 4/17/2020 11:53:34 AM

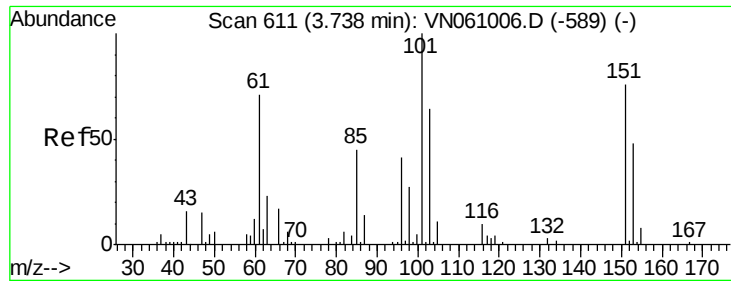


#8

Diethyl Ether
 Concen: 19.287 ug/l
 RT: 3.38 min Scan# 500
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Lower	Upper
74	100		
45	105.3	52.9	158.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.240 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

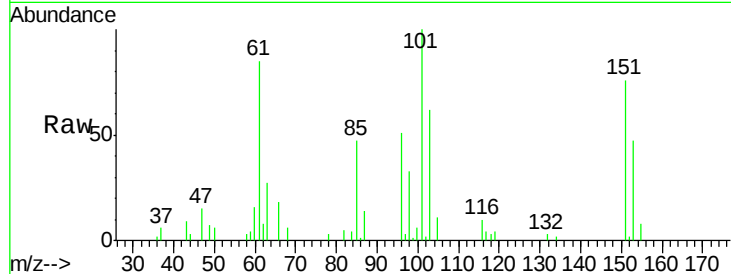
ClientSampleId :

VN0416WBSD01

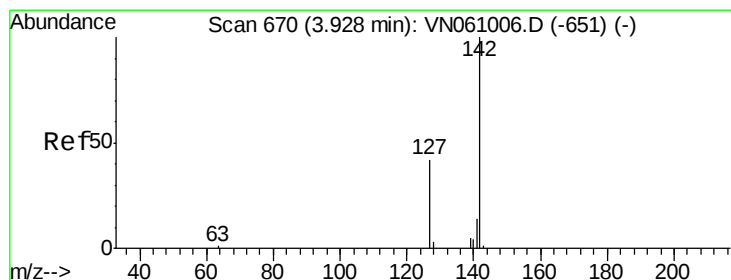
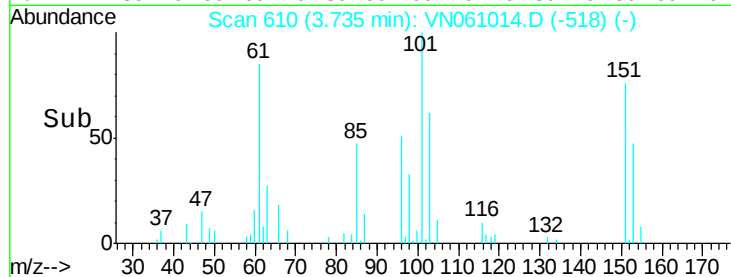
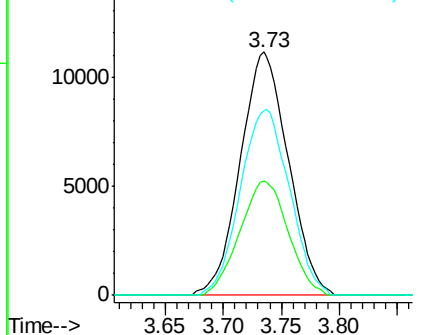
Tot Ion:	101	Resp:	32116
Ion Ratio	Lower	Upper	
101	100		
85	47.2	35.9	53.9
151	78.0	60.8	91.2

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 20.154 ug/l

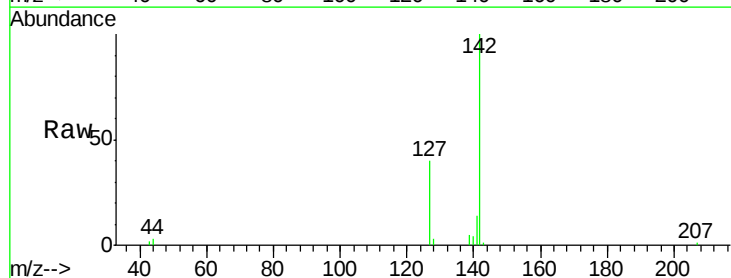
RT: 3.93 min Scan# 670

Delta R.T. -0.00 min

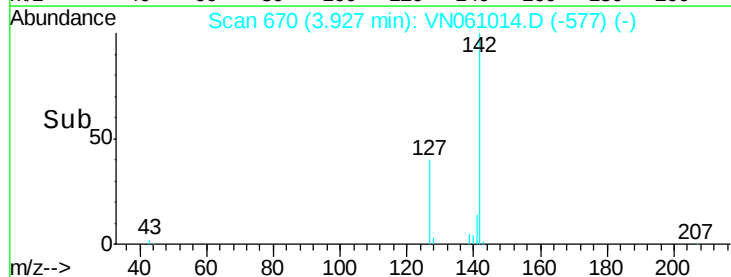
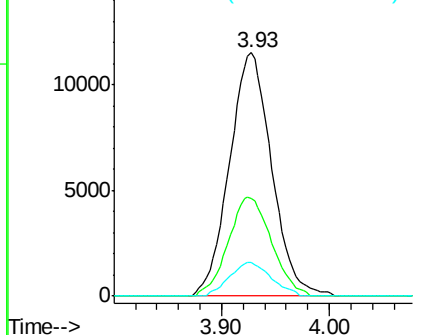
Lab File: VN061014.D

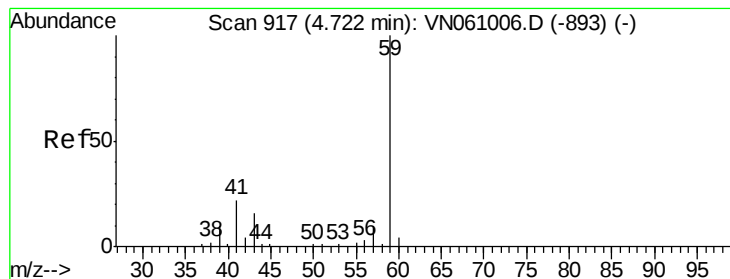
Acq: 16 Apr 2020 16:18

Tgt Ion:	142	Resp:	31306
Ion Ratio	Lower	Upper	
142	100		
127	41.5	33.4	50.2
141	13.6	11.0	16.6



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

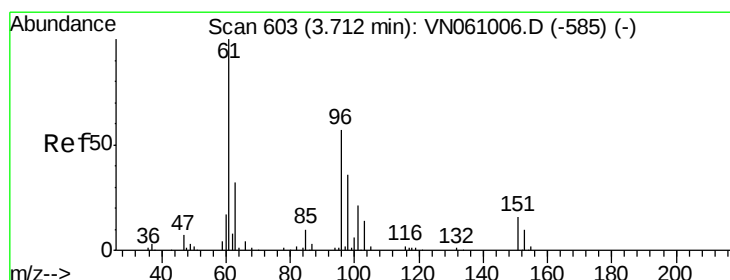
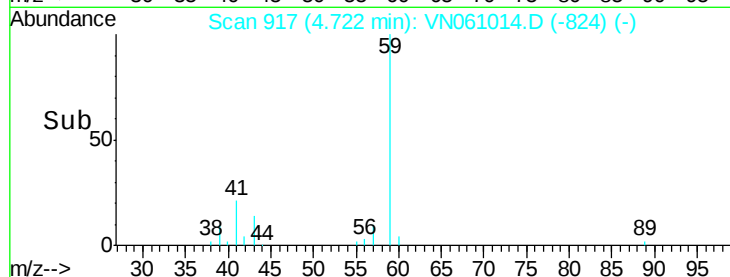
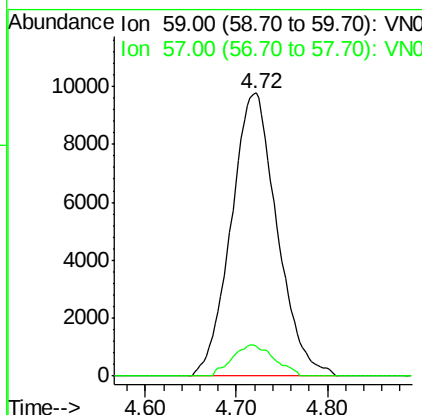
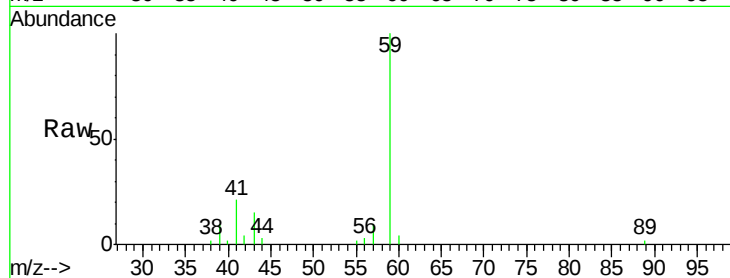
Tert butyl alcohol
 Concen: 92.337 ug/l
 RT: 4.72 min Scan# 917
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion	59	Resp	34283
Ion Ratio	100	Lower	Upper
57	10.2	8.1	12.1

Manual Integrations
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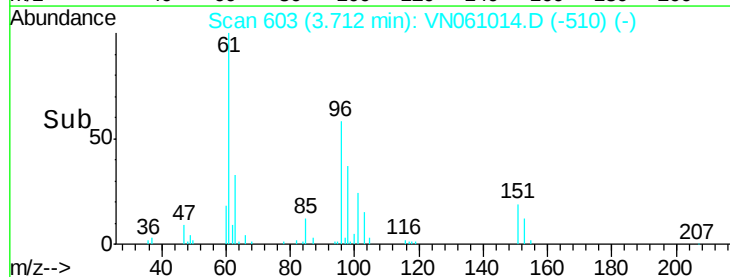
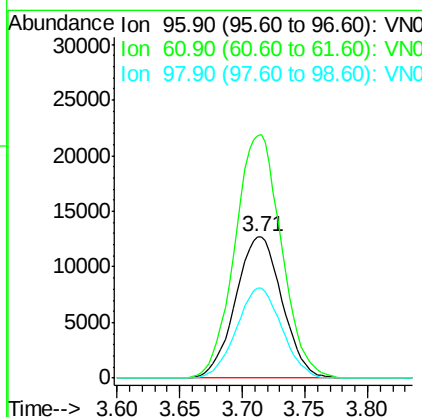
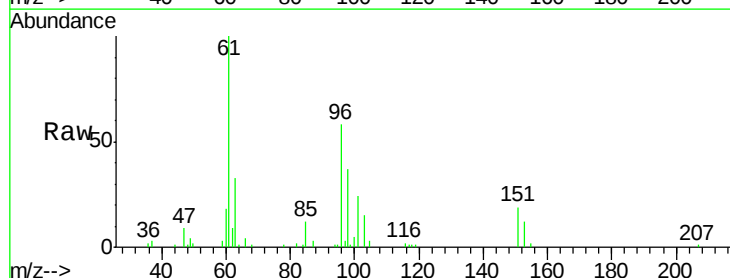
MMDadoda
 4/17/2020 11:53:34 AM

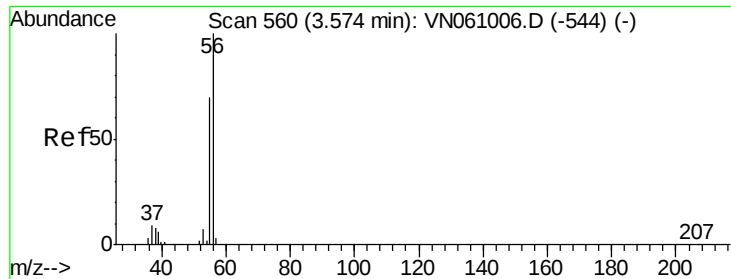


#12

1,1-Dichloroethene
 Concen: 18.311 ug/l
 RT: 3.71 min Scan# 603
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Tgt Ion	96	Resp	32774
Ion Ratio	100	Lower	Upper
61	171.6	139.2	208.8
98	63.7	50.0	75.0





#13

Acrolein

Concen: 78.905 ug/l

RT: 3.57 min Scan# 560

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion: 56 Resp: 24736

Ion Ratio Lower Upper

56 100

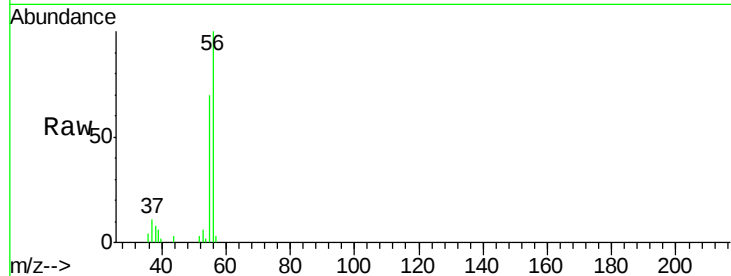
55 71.2 57.0 85.6

Manual Integrations

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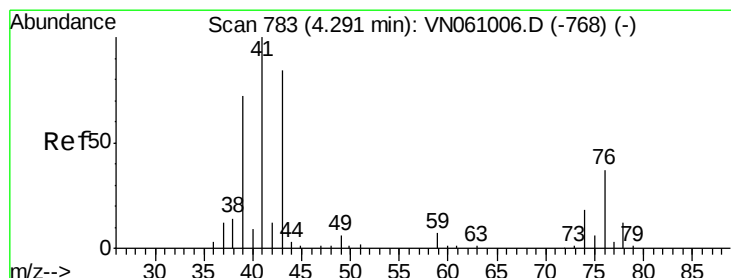
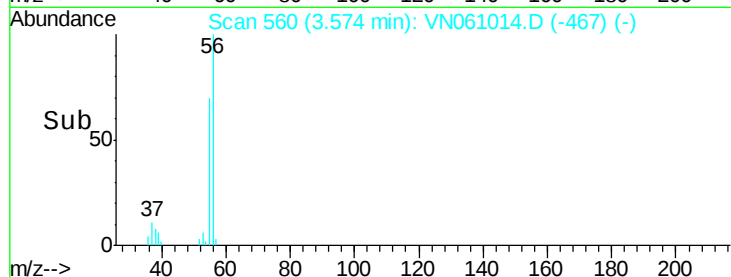
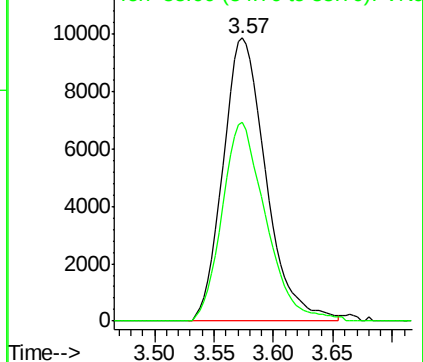
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 17.719 ug/l

RT: 4.29 min Scan# 783

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

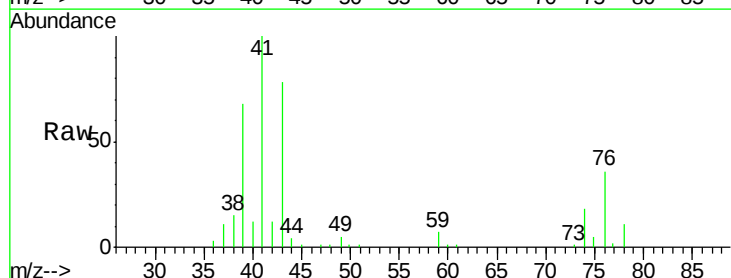
Tgt Ion: 41 Resp: 60004

Ion Ratio Lower Upper

41 100

39 69.3 56.3 84.5

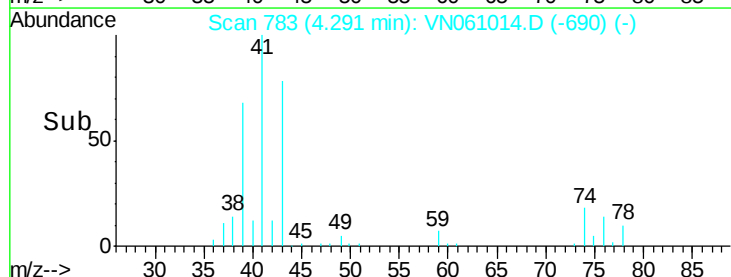
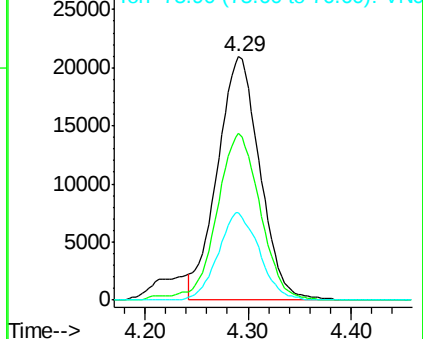
76 34.5 27.7 41.5

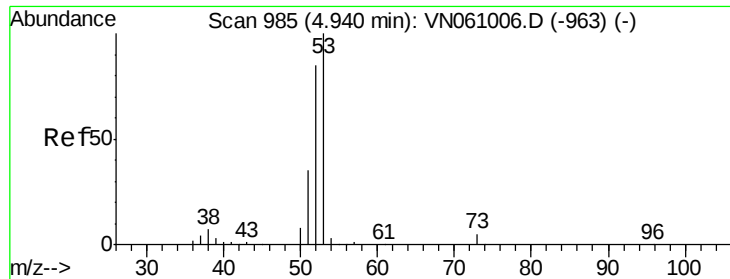


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 94.019 ug/l

RT: 4.94 min Scan# 985

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

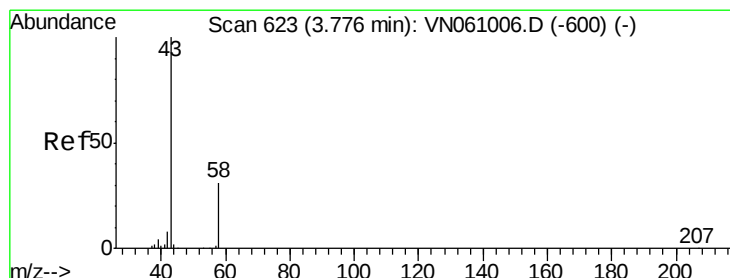
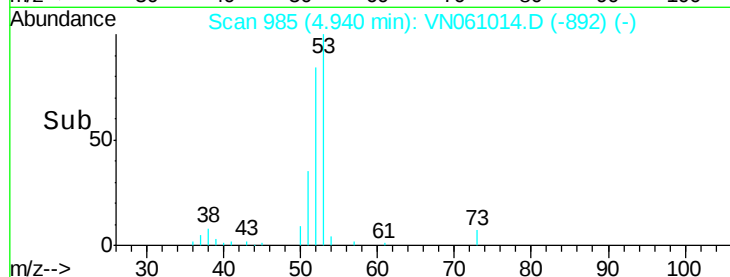
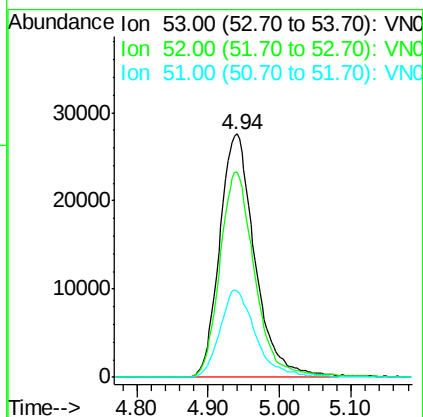
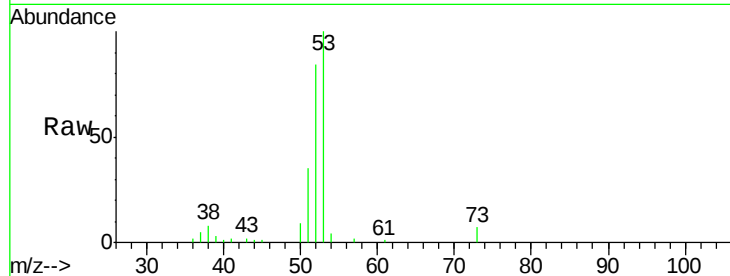
ClientSampleId :

VN0416WBSD01

Tot Ion:	53	Resp:	94647
Ion	Ratio	Lower	Upper
53	100		
52	83.7	66.8	100.2
51	36.0	28.9	43.3

Manual Integrations
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#16

Acetone

Concen: 90.037 ug/l

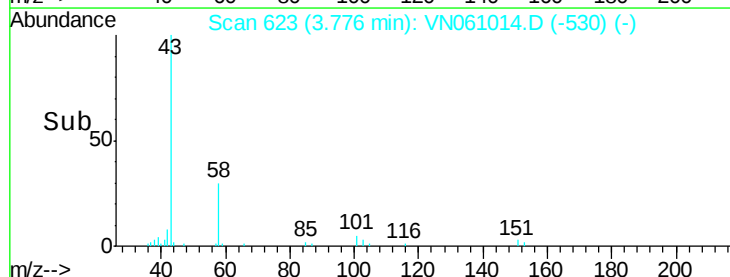
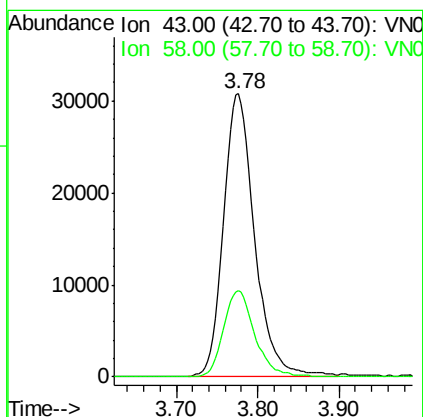
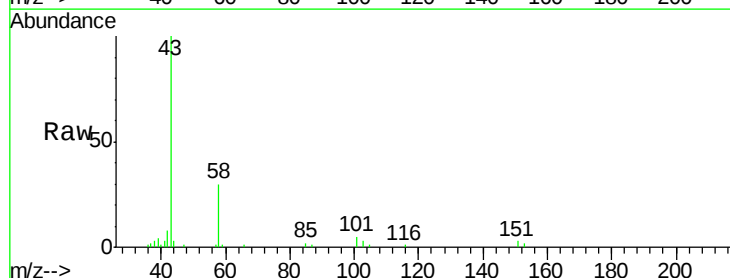
RT: 3.78 min Scan# 623

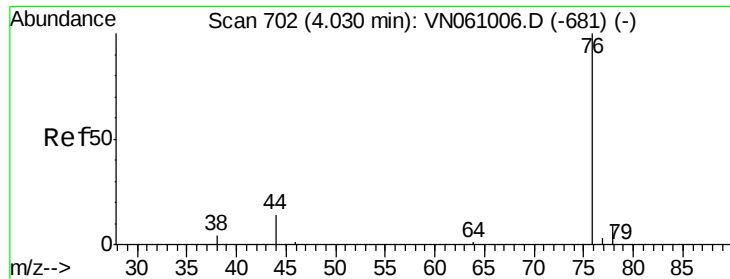
Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Tgt Ion:	43	Resp:	82929
Ion	Ratio	Lower	Upper
43	100		
58	30.4	24.6	37.0





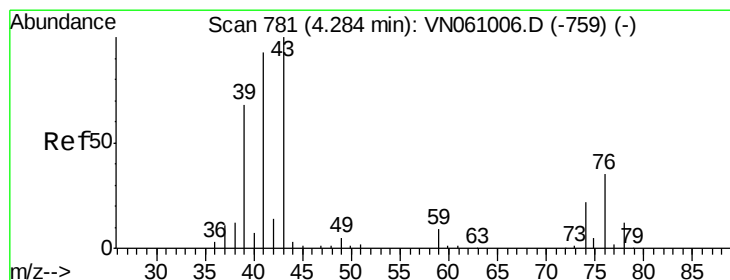
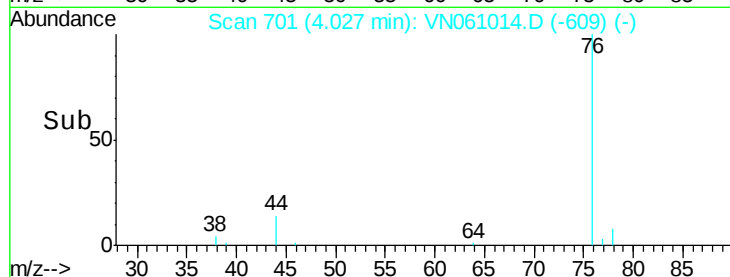
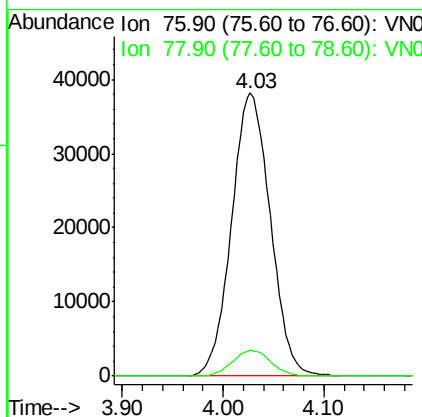
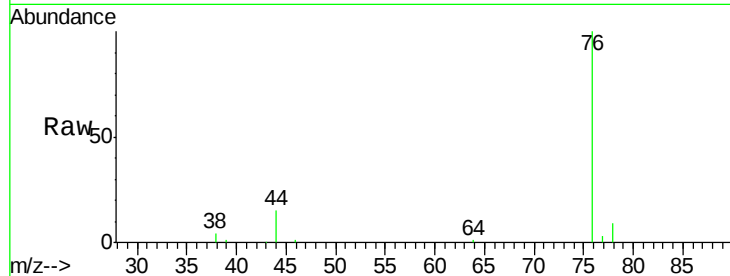
#17
Carbon Disulfide
Concen: 18.160 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion: 76 Resp: 101710
Ion Ratio Lower Upper
76 100
78 9.0 7.6 11.4

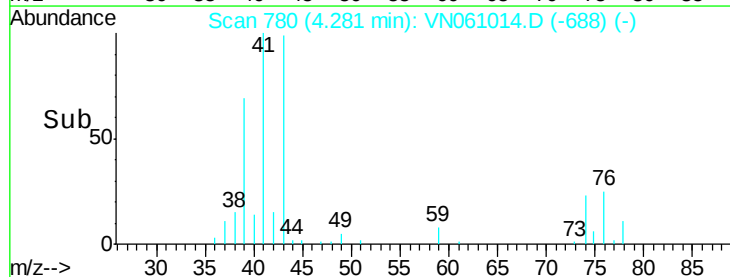
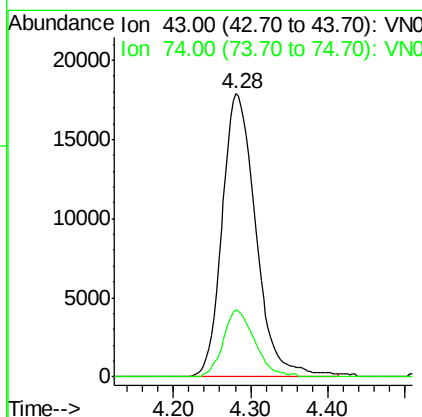
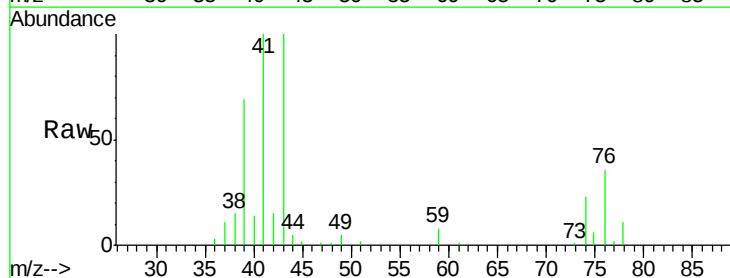
Manual Integrations
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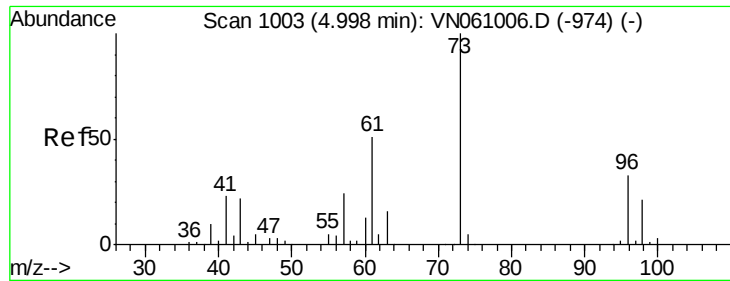
MMDadoda
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#18
Methyl Acetate
Concen: 18.751 ug/l
RT: 4.28 min Scan# 780
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion: 43 Resp: 54156
Ion Ratio Lower Upper
43 100
74 22.0 17.4 26.0





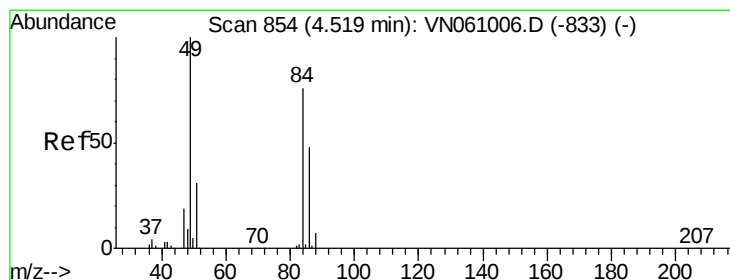
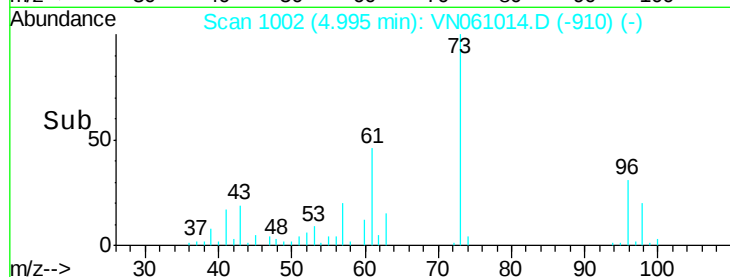
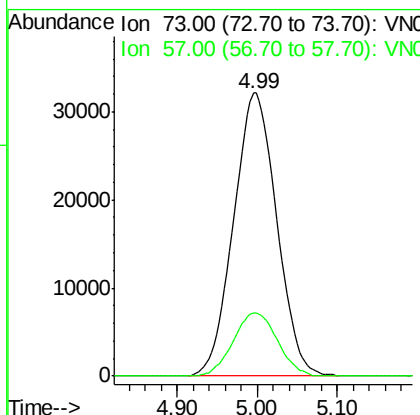
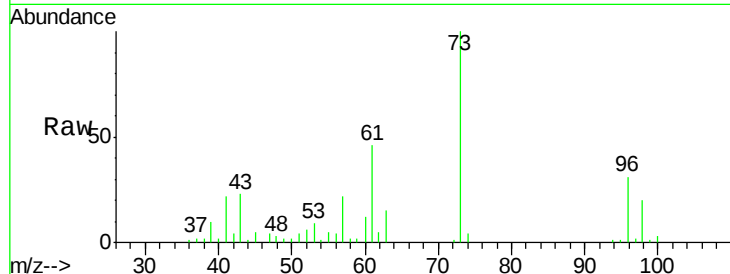
#19
Methvl tert-butvl Ether
Concen: 18.887 ug/l
RT: 4.99 min Scan# 1002
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampled :
VN0416WBSD01

Tot Ion: 73 Resp: 117872
Ion Ratio Lower Upper
73 100
57 22.2 19.0 28.4

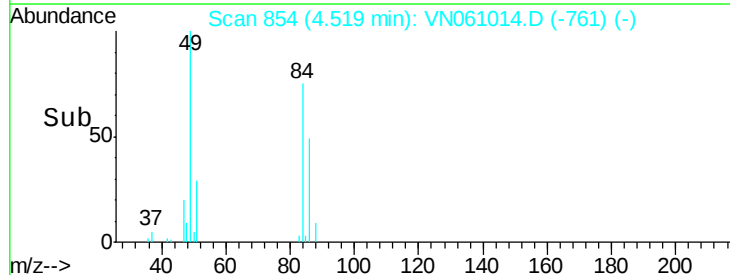
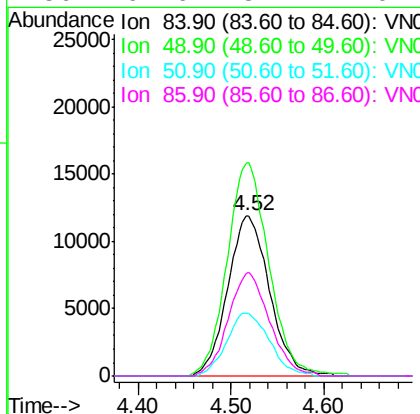
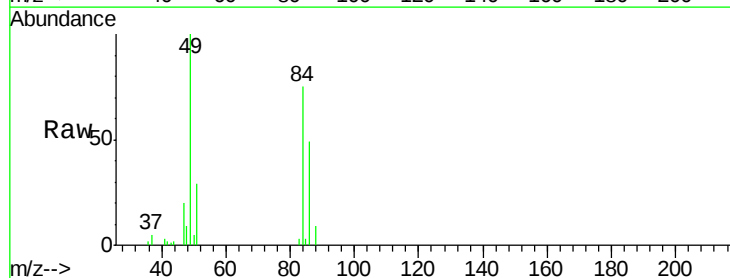
Manual Integrations
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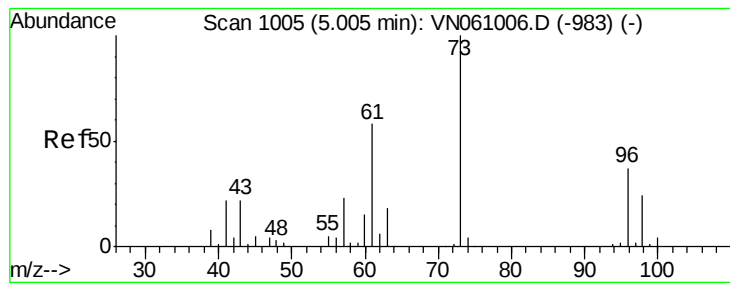
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#20
Methylene Chloride
Concen: 18.587 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion: 84 Resp: 37379
Ion Ratio Lower Upper
84 100
49 133.0 105.8 158.6
51 38.9 32.4 48.6
86 64.6 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: 18.458 ug/l

RT: 5.00 min Scan# 1005

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion: 96 Resp: 35334

Ion Ratio Lower Upper

96 100

61 146.5 124.8 187.2

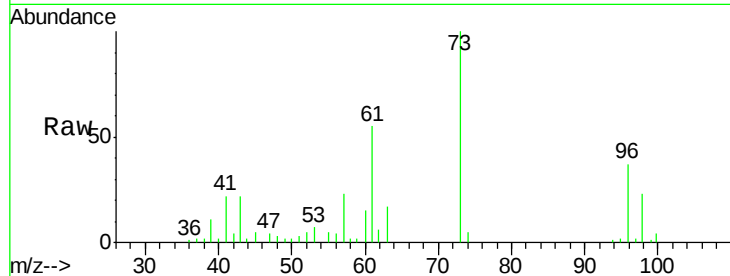
98 63.1 51.3 76.9

Manual Integrations

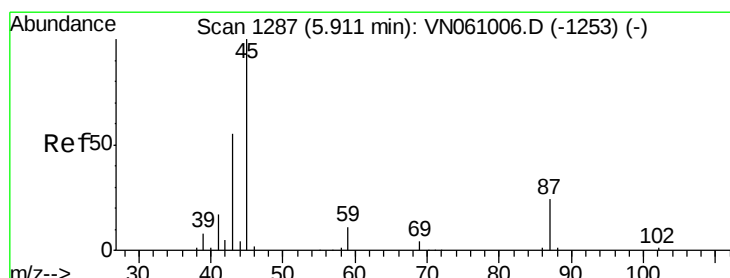
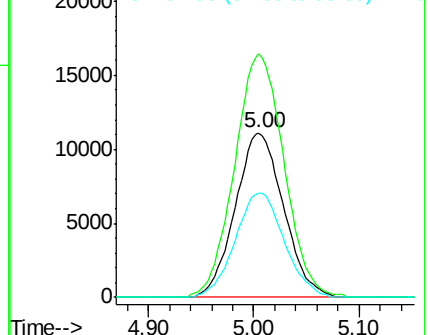
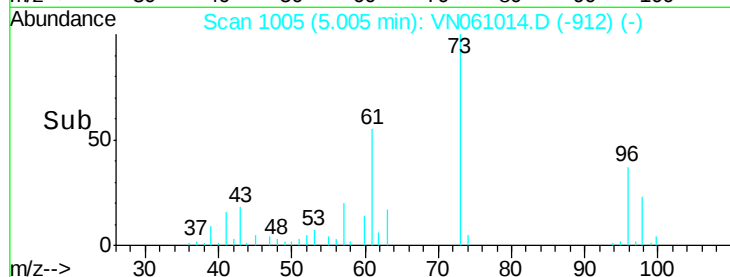
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Abundance Ion 95.90 (95.60 to 96.60): VN061014.D (-912) (-)



#22

Diisopropyl ether

Concen: 18.492 ug/l

RT: 5.91 min Scan# 1286

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Tgt Ion: 45 Resp: 130061

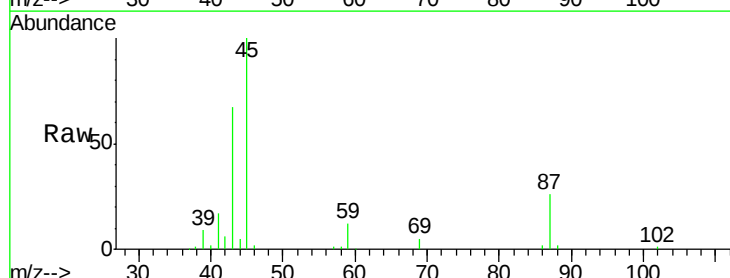
Ion Ratio Lower Upper

45 100

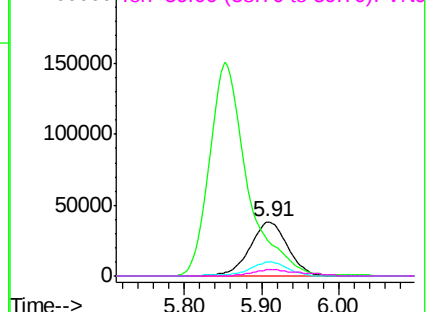
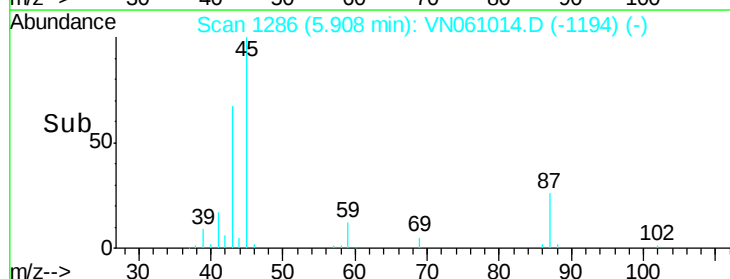
43 64.5 48.6 72.8

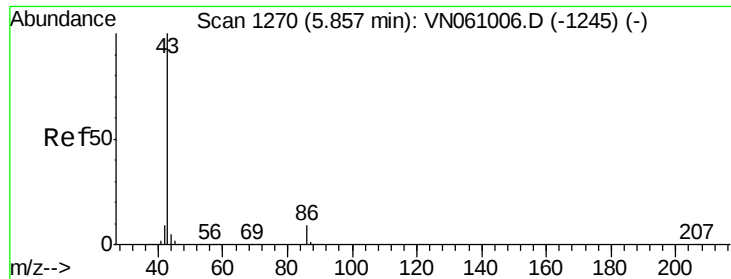
87 25.7 19.4 29.2

59 11.6 8.6 12.8



Abundance Ion 45.00 (44.70 to 45.70): VN061014.D (-1194) (-)





#23

Vinyl Acetate

Concen: 93.256 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion: 43 Resp: 514342

Ion Ratio Lower Upper

43 100

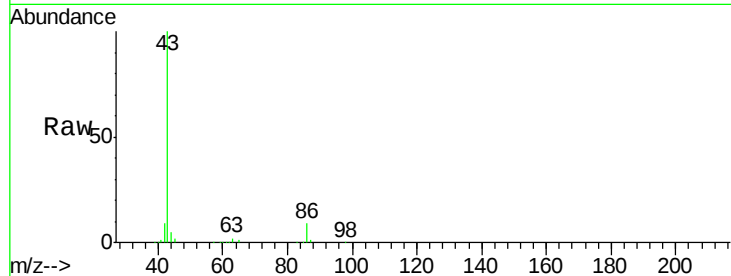
86 9.4 7.3 10.9

Manual Integrations

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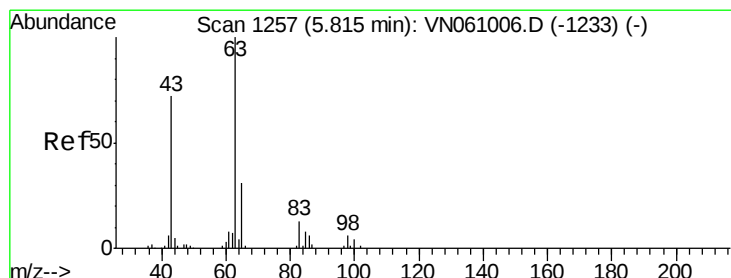
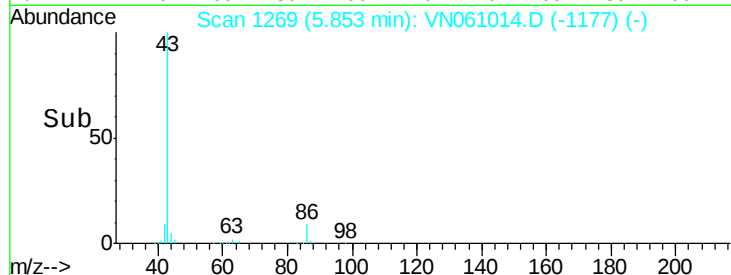
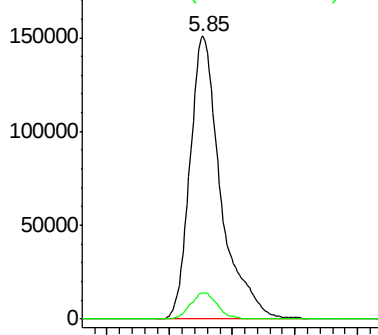
MMDadoda

4/17/2020 11:53:34 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 18.464 ug/l

RT: 5.81 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

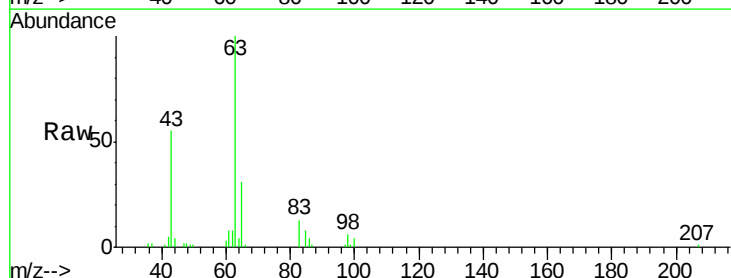
Tgt Ion: 63 Resp: 70139

Ion Ratio Lower Upper

63 100

98 6.0 2.9 8.8

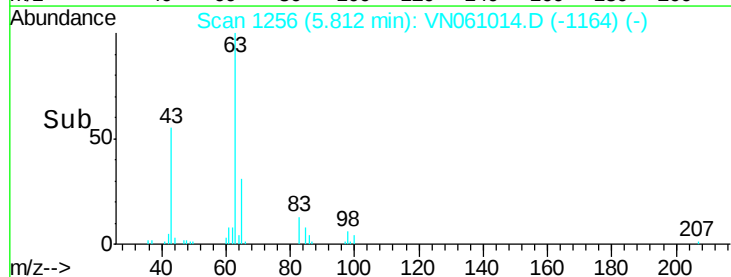
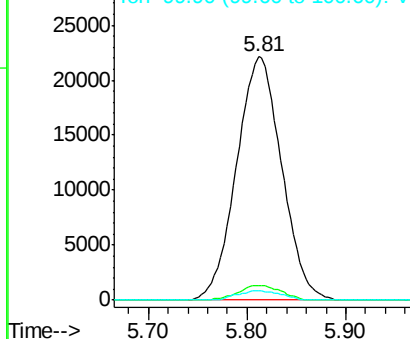
100 4.0 2.0 5.8

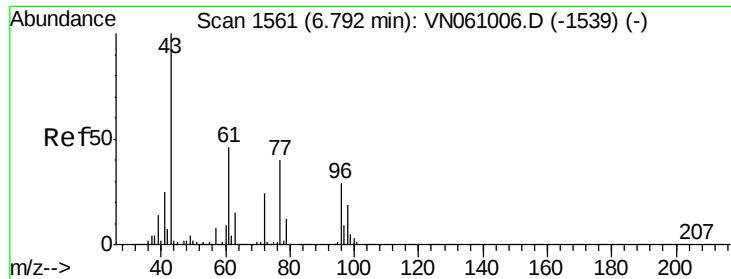


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 90.047 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion: 43 Resp: 127092

Ion Ratio Lower Upper

43 100

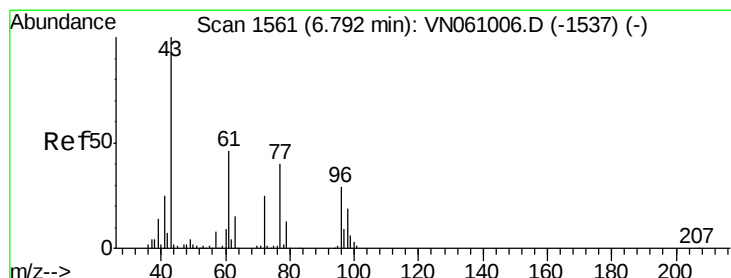
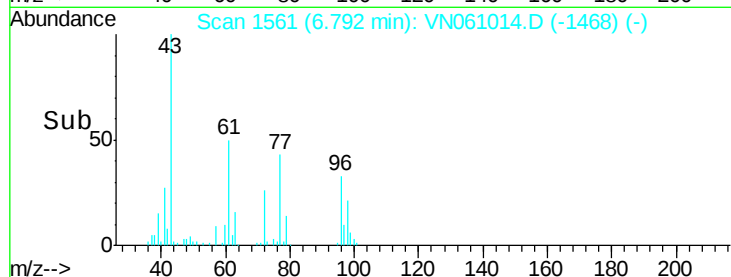
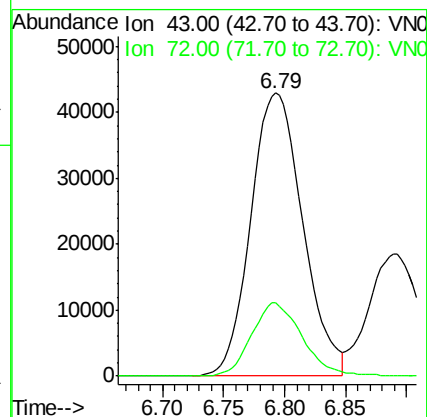
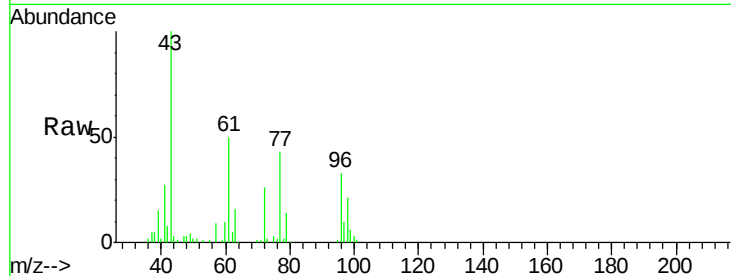
72 25.8 19.6 29.4

Manual Integrations

APPROVED

MMDadoda

4/17/2020 11:53:34 AM



#26

2,2-Dichloropropane

Concen: 18.736 ug/l

RT: 6.79 min Scan# 1560

Delta R.T. -0.00 min

Lab File: VN061014.D

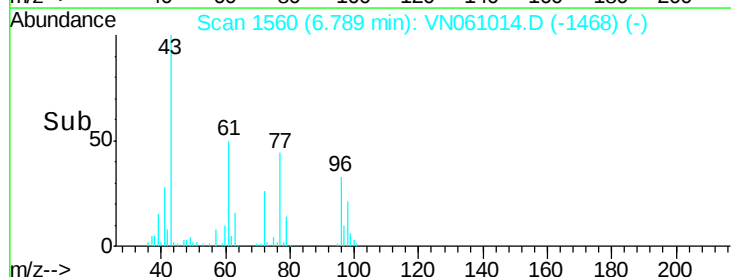
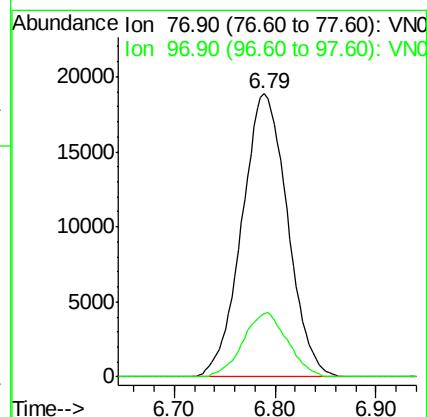
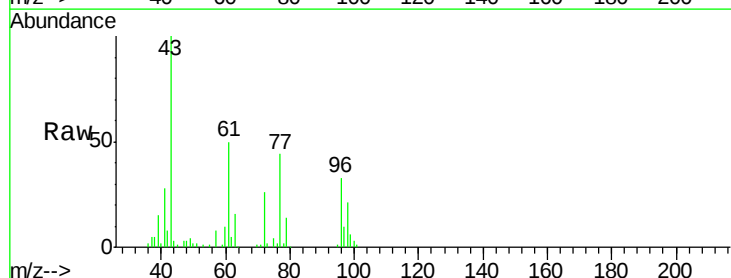
Acq: 16 Apr 2020 16:18

Tgt Ion: 77 Resp: 59259

Ion Ratio Lower Upper

77 100

97 22.1 11.2 33.6





#27

cis-1,2-Dichloroethene

Concen: 18.601 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

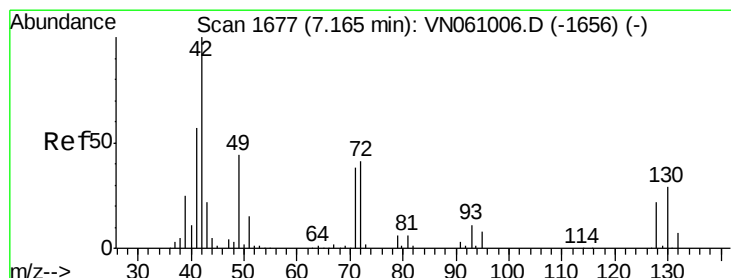
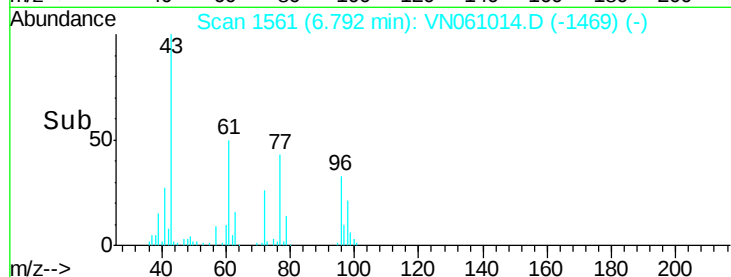
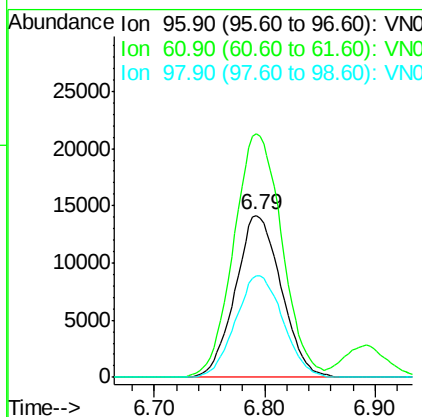
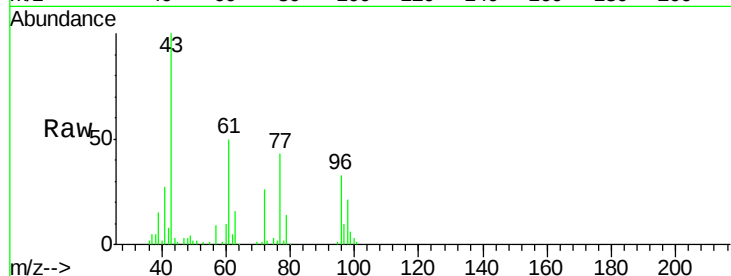
ClientSampleId :

VN0416WBSD01

Tot Ion:	96	Resp:	40880
Ion	Ratio	Lower	Upper
96	100		
61	157.5	0.0	317.4
98	64.6	0.0	127.8

Manual Integrations
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MMDadoda
4/17/2020 11:53:34 AM



#28

Bromochloromethane

Concen: 19.709 ug/l

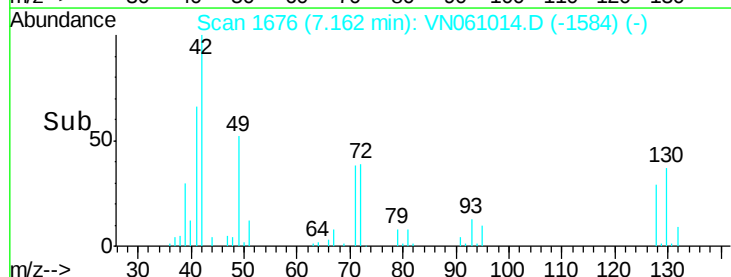
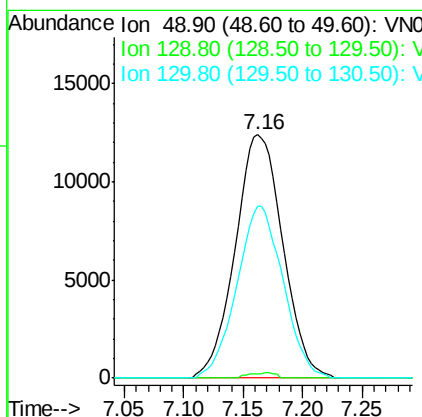
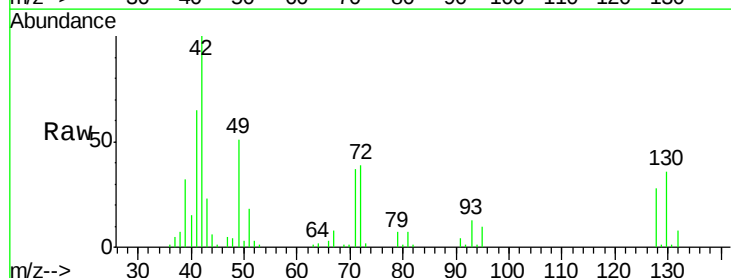
RT: 7.16 min Scan# 1676

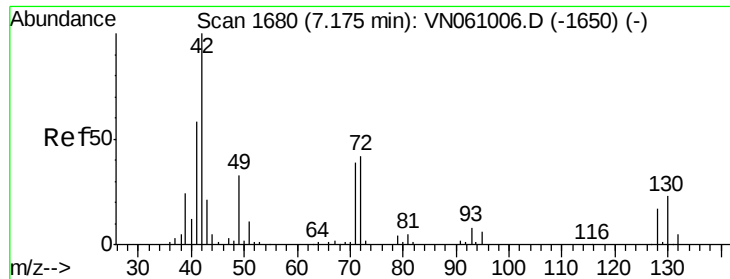
Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Tgt Ion:	49	Resp:	34367
Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	3.0
130	68.6	52.9	79.3





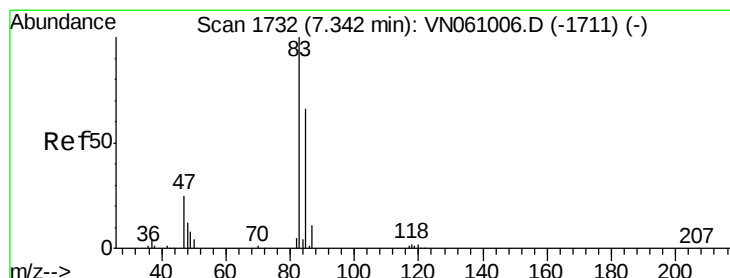
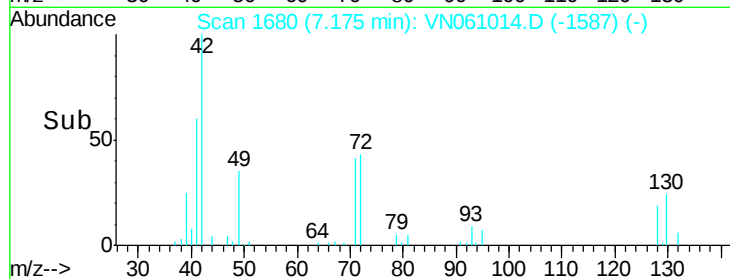
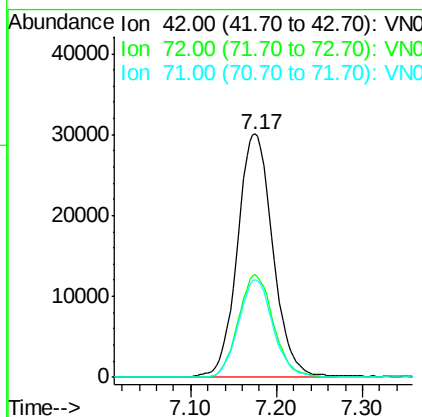
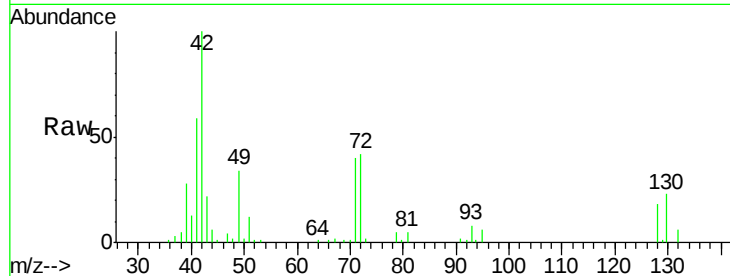
#29
Tetrahydrofuran
Concen: 89.945 ug/l
RT: 7.17 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.4	32.1	48.1
71	39.1	30.5	45.7

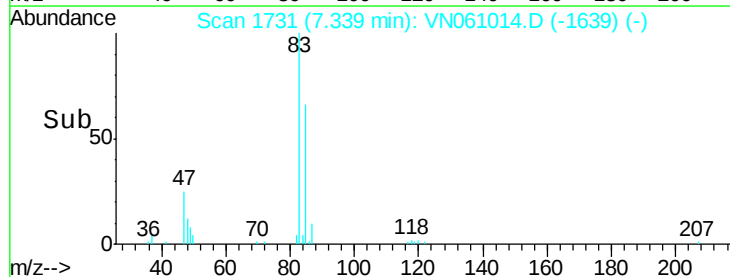
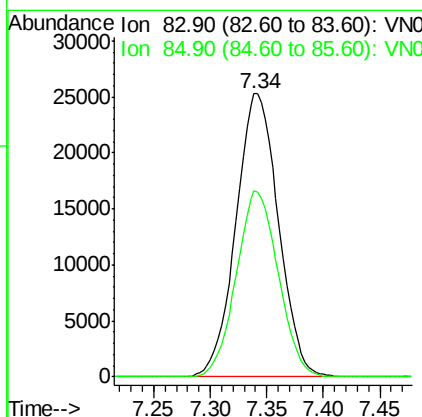
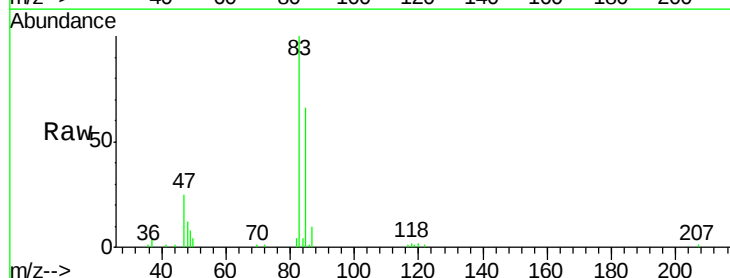
Manual Integrations
APPROVED

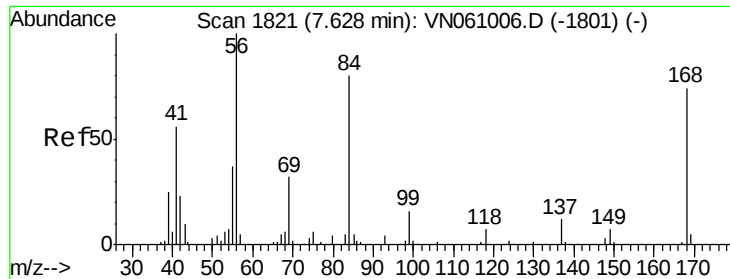
MMDadoda
4/17/2020 11:53:34 AM



#30
Chloroform
Concen: 18.638 ug/l
RT: 7.34 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	52.8	79.2





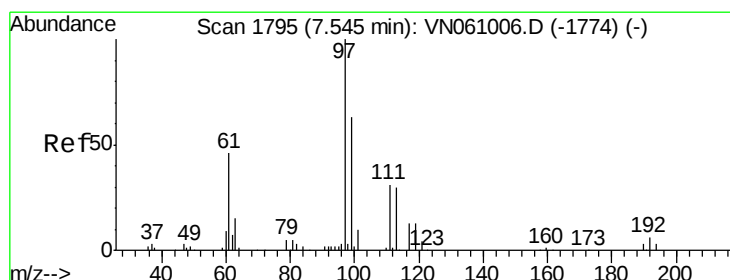
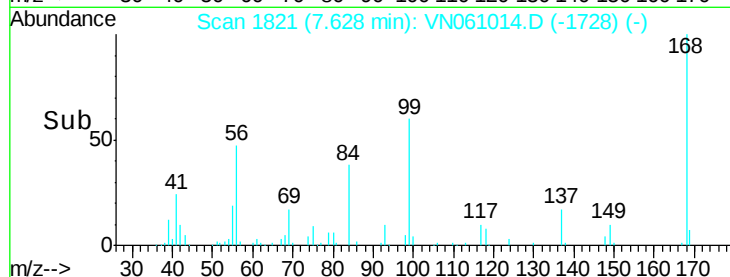
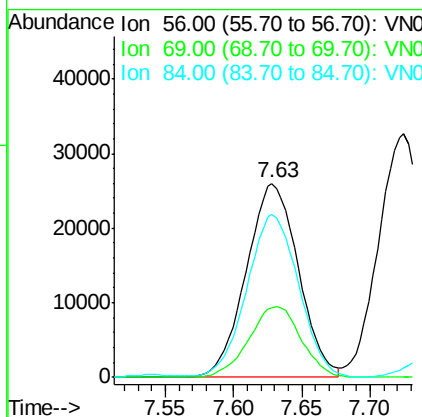
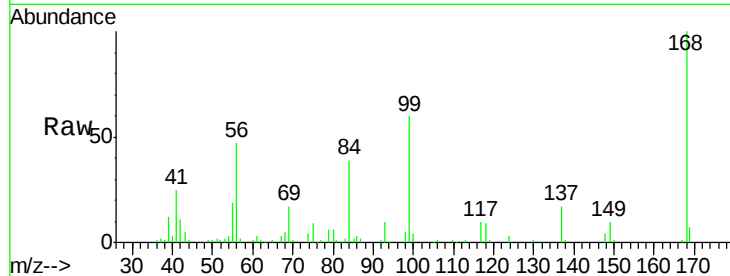
#31
Cyclohexane
Concen: 17.675 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
69	36.1	25.6	38.4	
84	82.9	63.4	95.2	

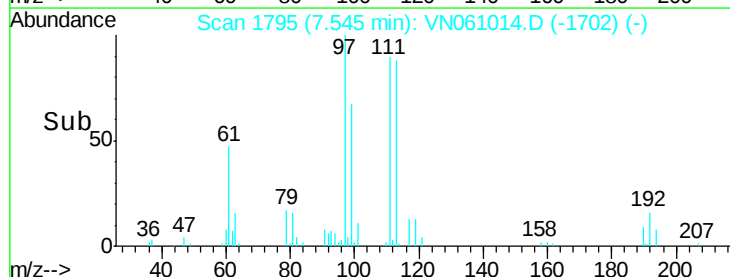
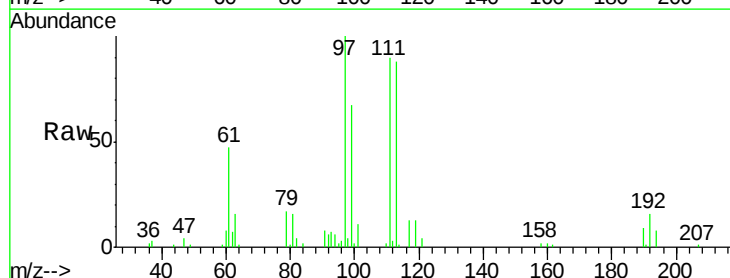
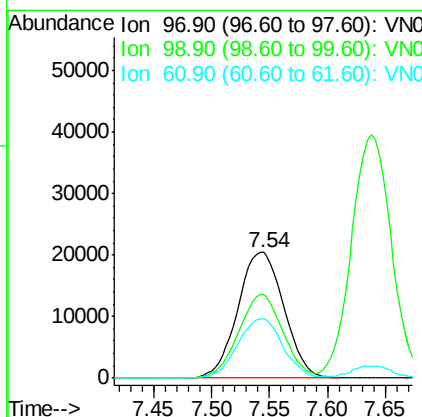
Manual Integrations
APPROVED

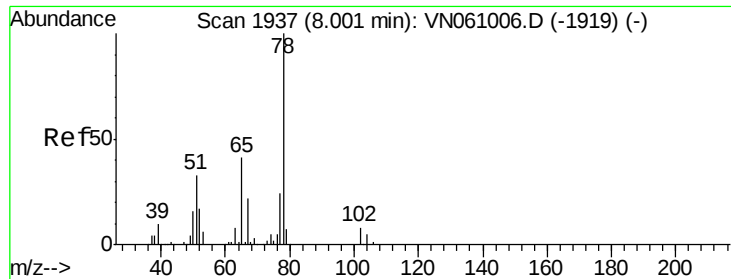
MMDadoda
4/17/2020 11:53:34 AM



#32
1,1,1-Trichloroethane
Concen: 18.530 ug/l
RT: 7.54 min Scan# 1795
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	63.8	51.0	76.4	
61	46.1	37.0	55.6	





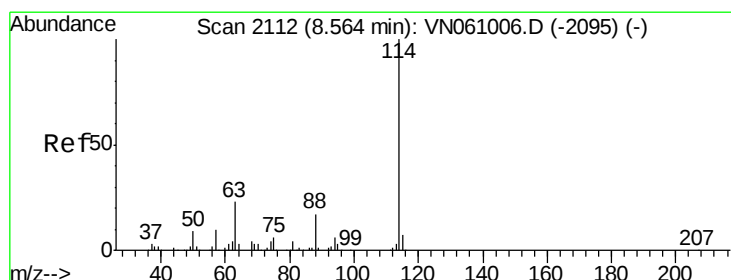
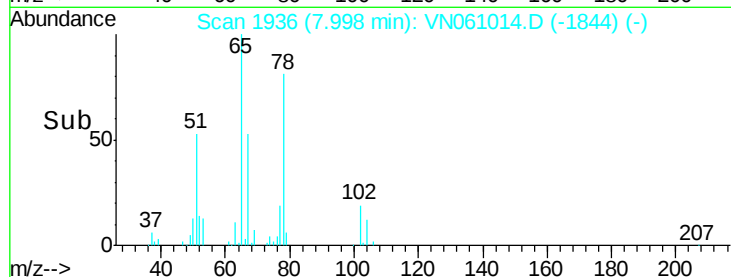
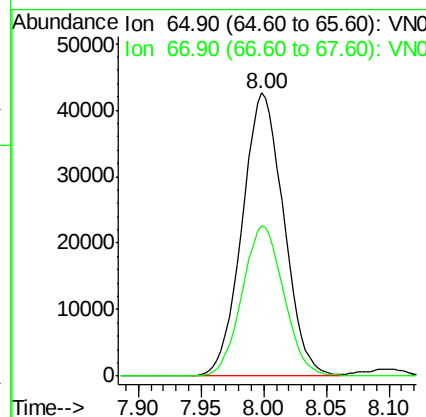
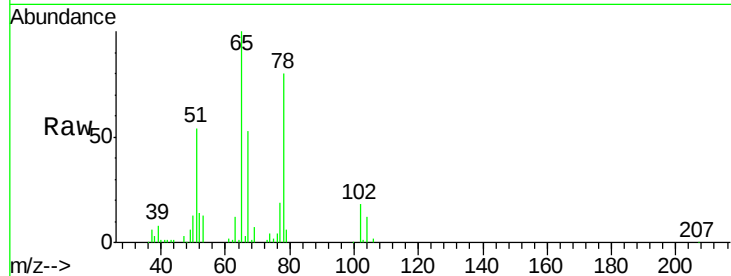
#33
 1,2-Dichloroethane-d4
 Concen: 46.933 ug/l
 RT: 8.00 min Scan# 1936
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.2	0.0	107.0	

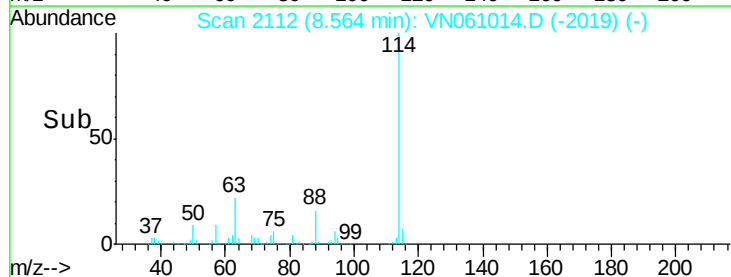
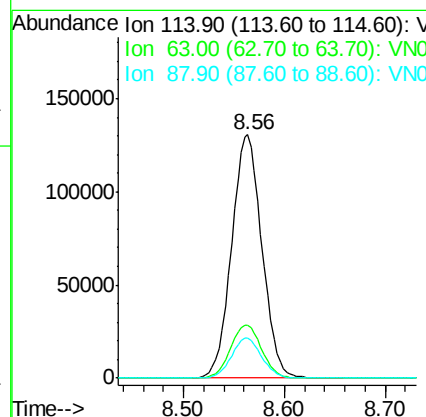
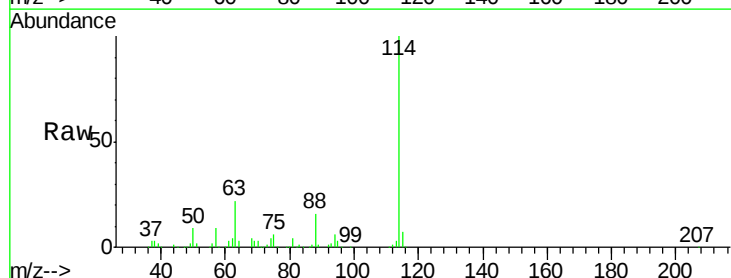
Manual Integrations
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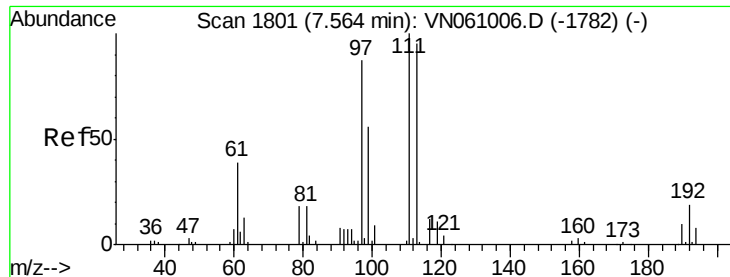
MMDadoda
 4/17/2020 11:53:34 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	21.9	0.0	46.2	
88	16.4	0.0	33.4	





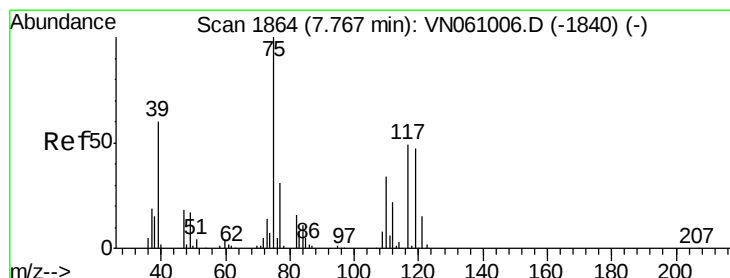
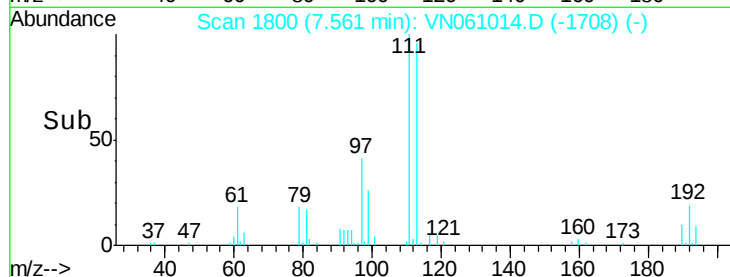
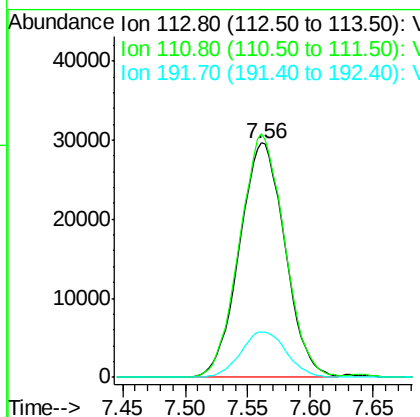
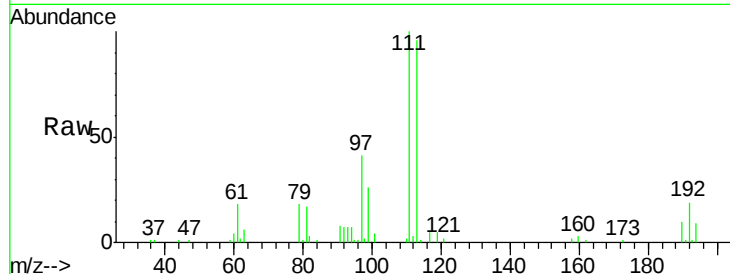
#35
 Dibromofluoromethane
 Concen: 47.068 ug/l
 RT: 7.56 min Scan# 1800
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.4	125.2
192	19.5	15.5	23.3

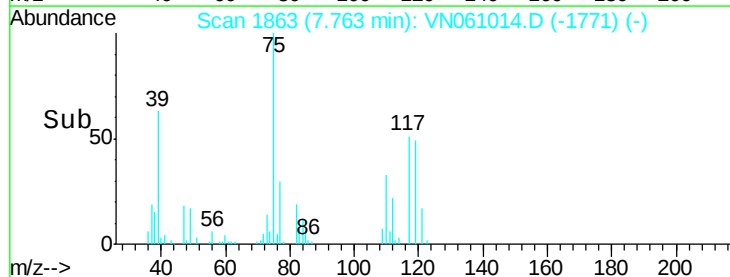
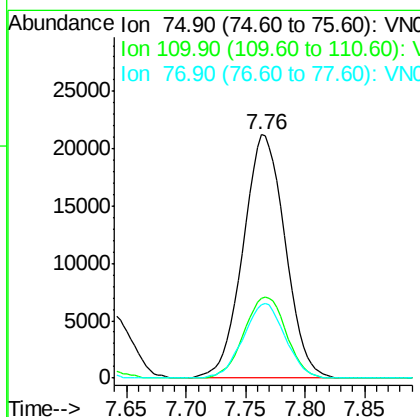
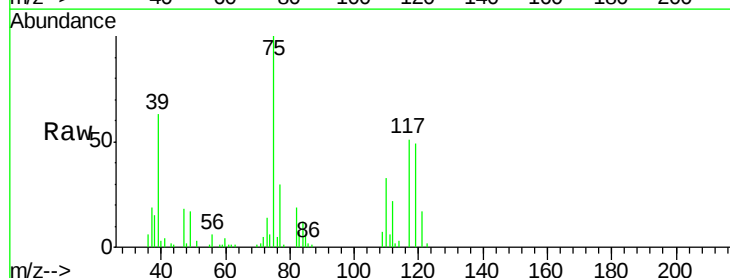
Manual Integrations
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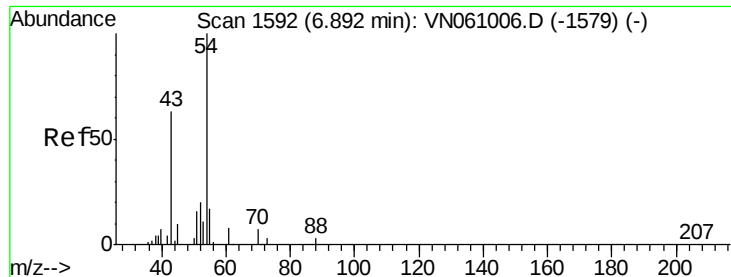
MMDadoda
 4/17/2020 11:53:34 AM



#36
 1,1-Dichloropropene
 Concen: 18.506 ug/l
 RT: 7.76 min Scan# 1863
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	33.3	16.8	50.3
77	30.4	24.7	37.1





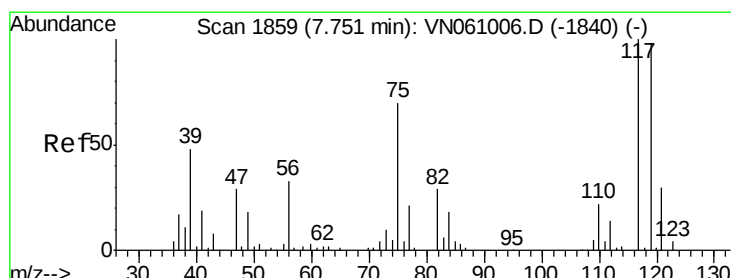
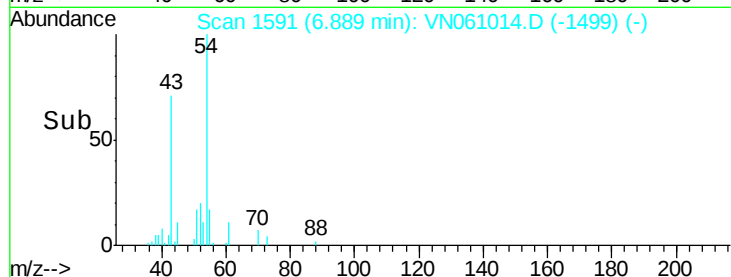
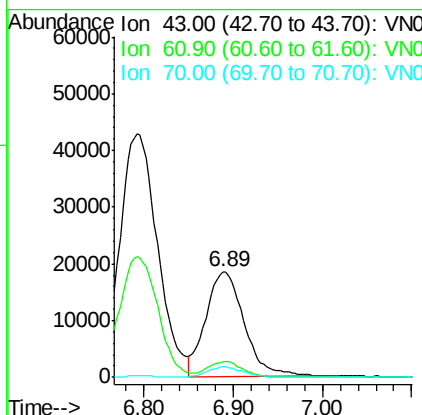
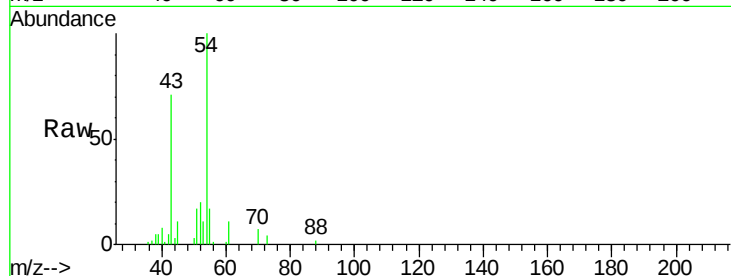
#37
Ethyl Acetate
Concen: 18.171 ug/l
RT: 6.89 min Scan# 1591
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	43	61	70
Resp	55406		
Ratio	100	13.7	9.2
Lower		10.9	7.7
Upper		16.3	11.5

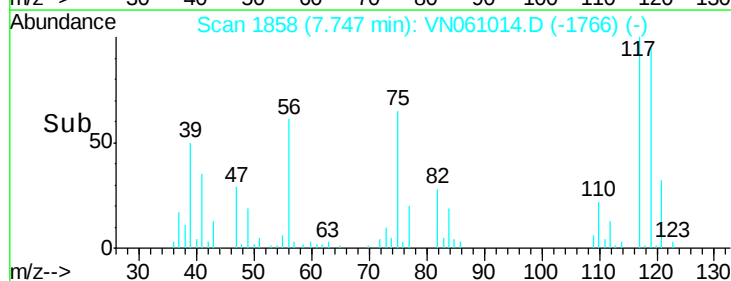
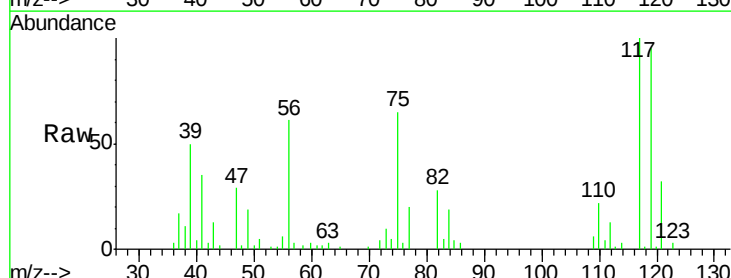
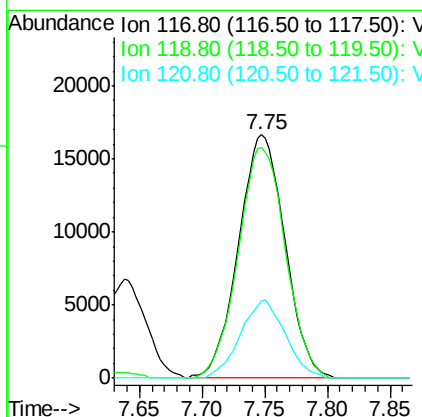
Manual Integrations
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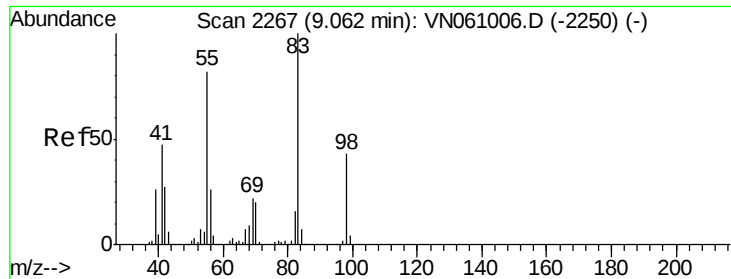
MMDadoda
4/17/2020 11:53:34 AM



#38
Carbon Tetrachloride
Concen: 18.373 ug/l
RT: 7.75 min Scan# 1858
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion	117	119	121
Resp	42945		
Ratio	100	94.7	31.9
Lower		78.1	24.0
Upper		117.1	36.0





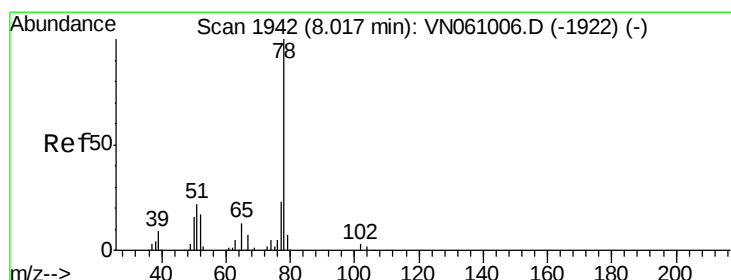
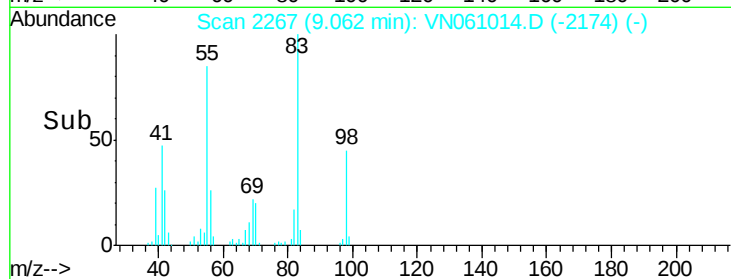
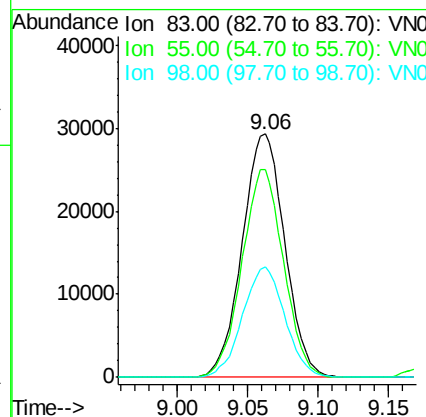
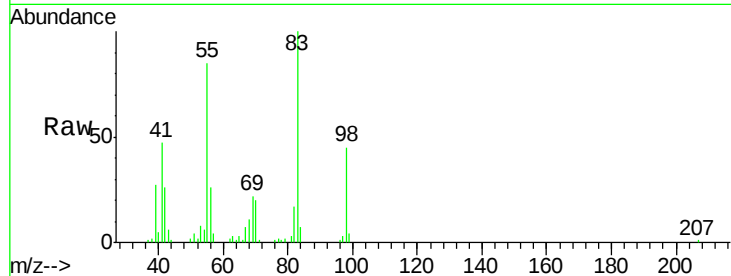
#39
Methvlcvclohexane
Concen: 18.469 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.4	65.4	98.0
98	45.4	34.6	51.8

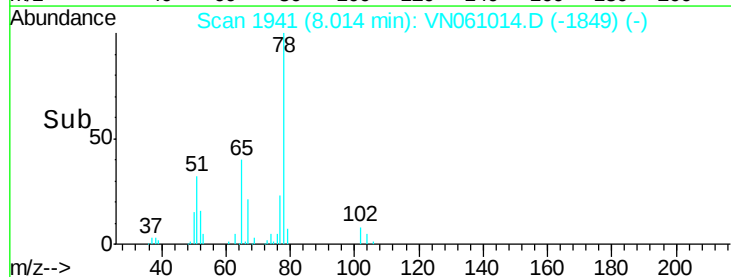
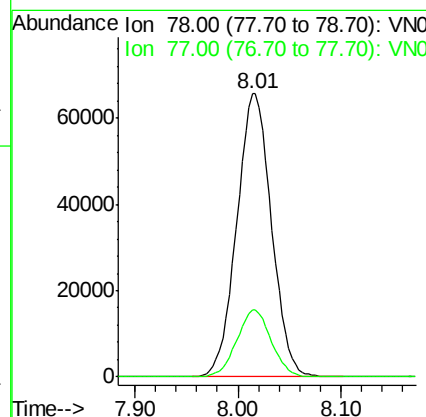
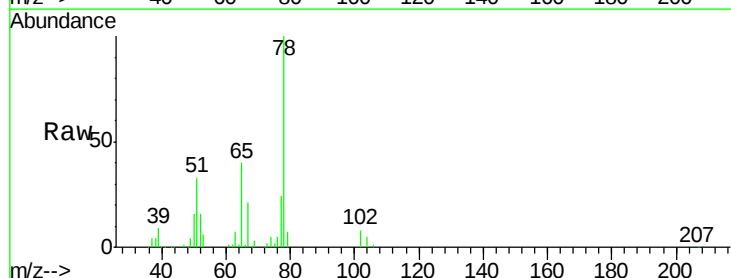
Manual Integrations
APPROVED

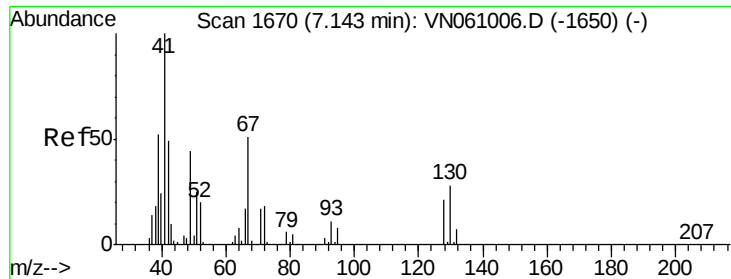
MMDadoda
4/17/2020 11:53:34 AM



#40
Benzene
Concen: 18.460 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.8	28.2





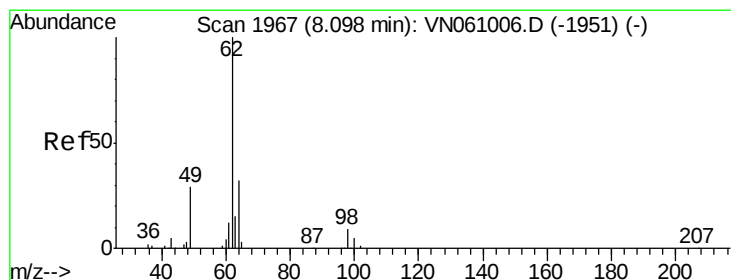
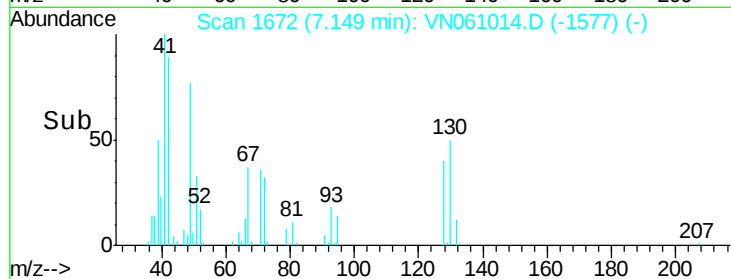
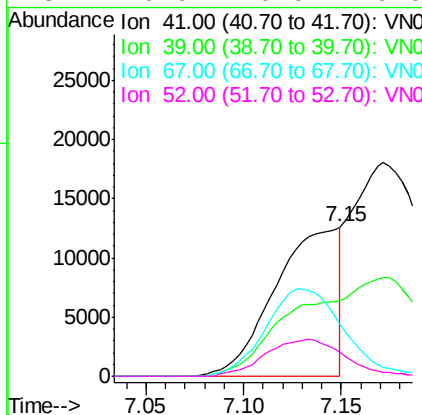
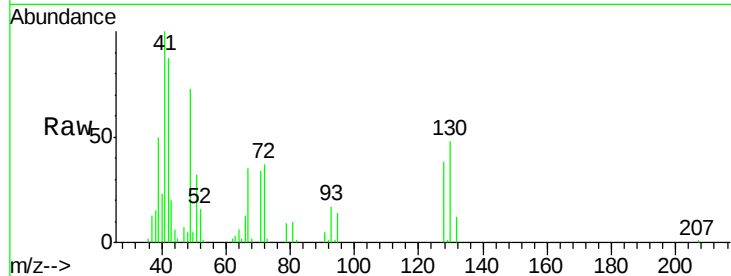
#41
Methacrylonitrile
Concen: 22.747 ug/l m
RT: 7.15 min Scan# 1672
Delta R.T. 0.01 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		28930		
39	130.9	0.0	0.0	0.0	0.0
67	0.0	0.0	0.0	0.0	0.0
52	0.0	0.0	0.0	0.0	0.0

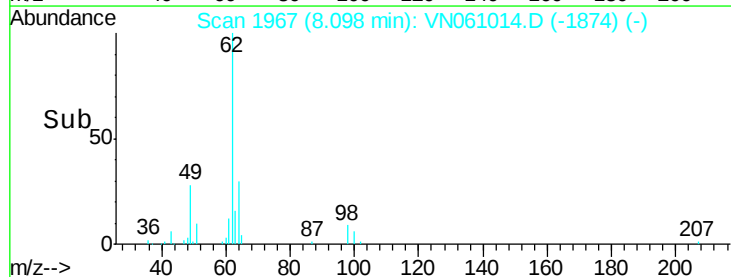
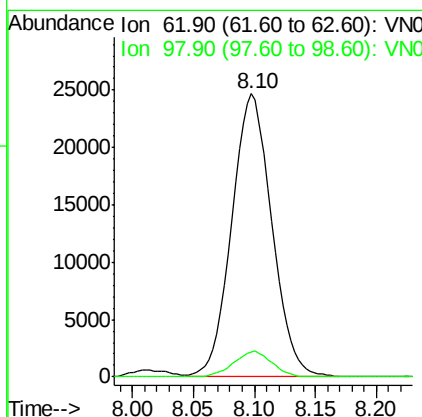
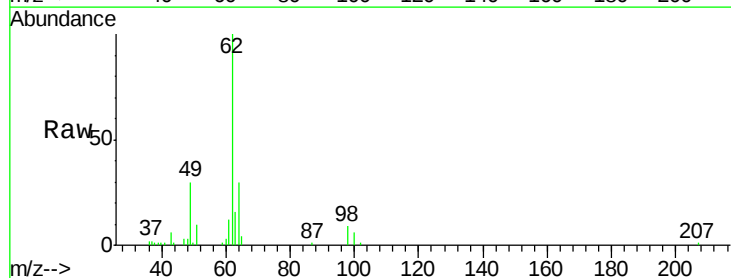
Manual Integrations
APPROVED

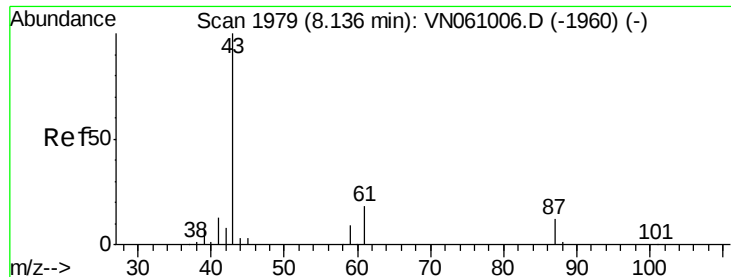
MMDadoda
4/17/2020 11:53:34 AM



#42
1,2-Dichloroethane
Concen: 19.799 ug/l
RT: 8.10 min Scan# 1967
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		56187		
98	8.6	0.0	17.2		





#43

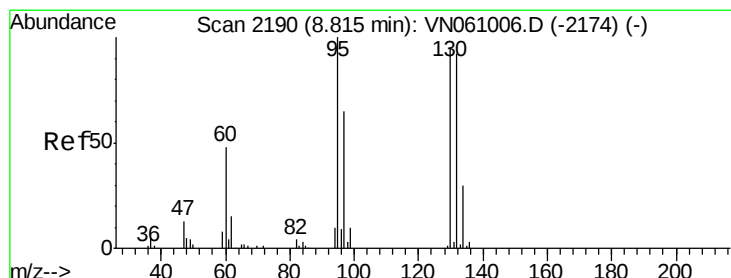
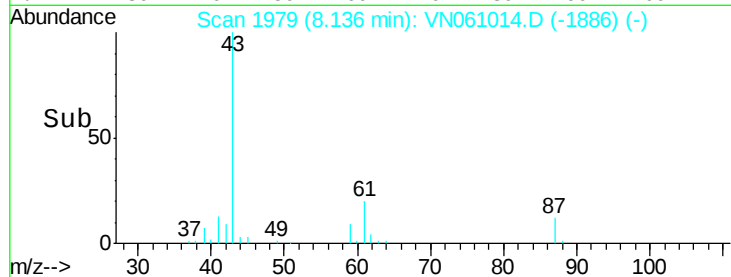
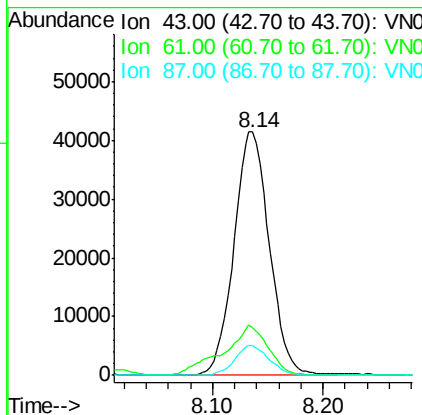
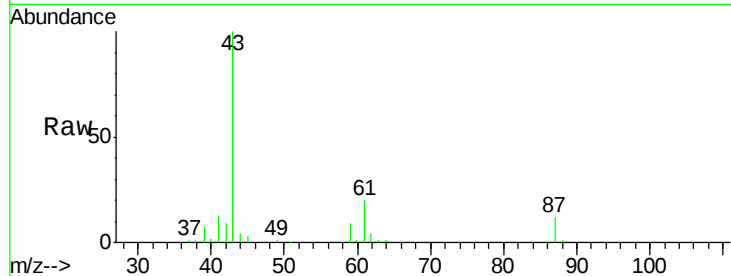
Isopropyl Acetate
 Concen: 18.586 ug/l
 RT: 8.14 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	26.1	20.3	30.5
87	11.9	9.4	14.2

Manual Integrations
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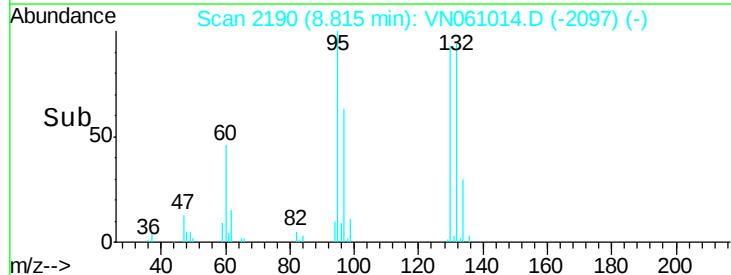
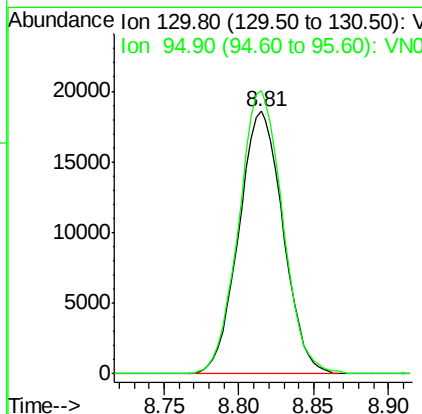
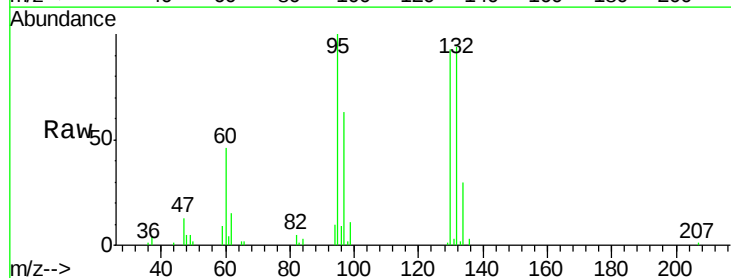
MMDadoda
 4/17/2020 11:53:34 AM

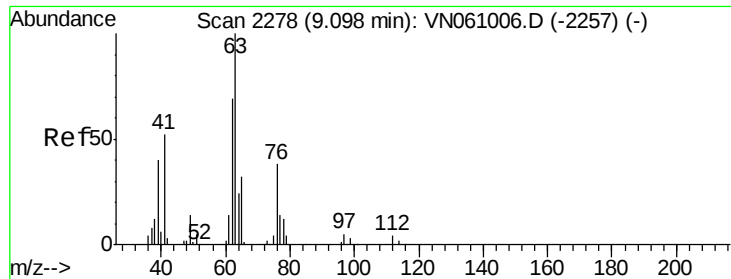


#44

Trichloroethene
 Concen: 18.240 ug/l
 RT: 8.81 min Scan# 2190
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Lower	Upper
130	100		
95	107.7	0.0	210.0





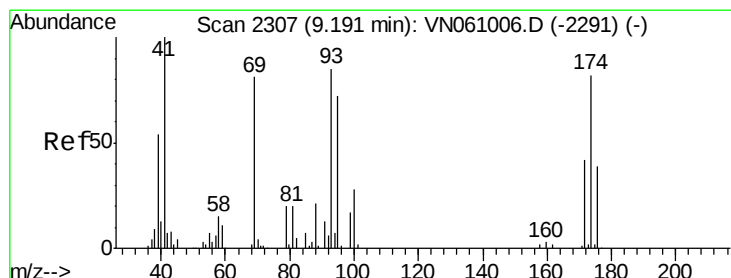
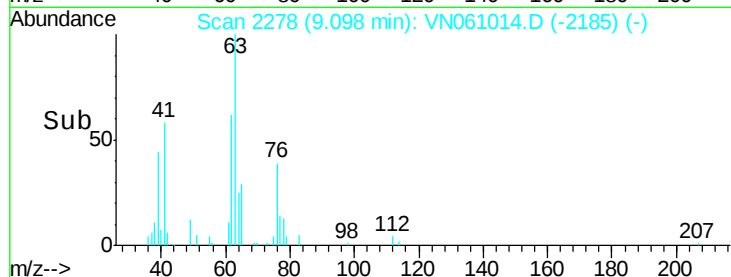
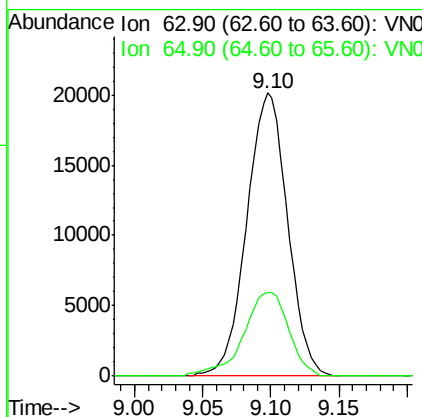
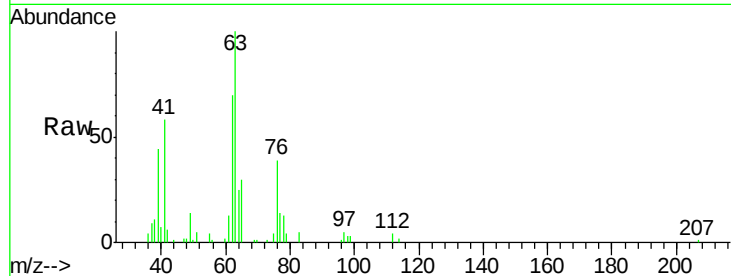
#45
 1,2-Dichloropropane
 Concen: 18.582 ug/l
 RT: 9.10 min Scan# 2278
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion: 63 Resp: 41812
 Ion Ratio Lower Upper
 63 100
 65 29.8 25.2 37.8

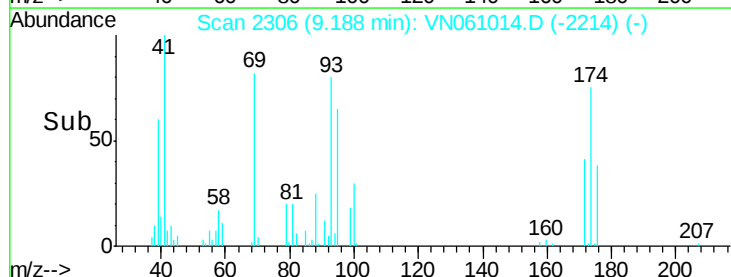
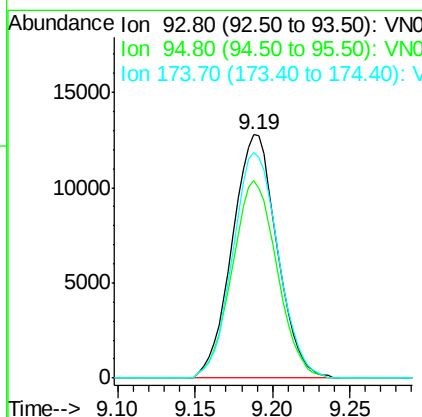
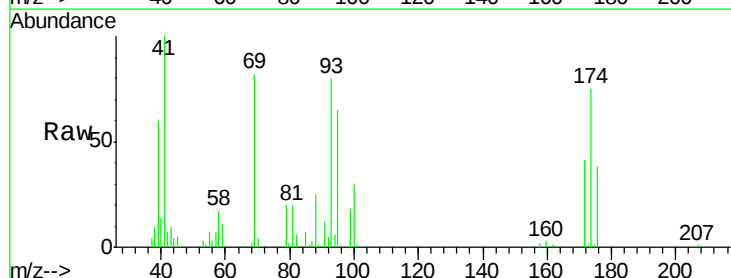
Manual Integrations
 APPROVED

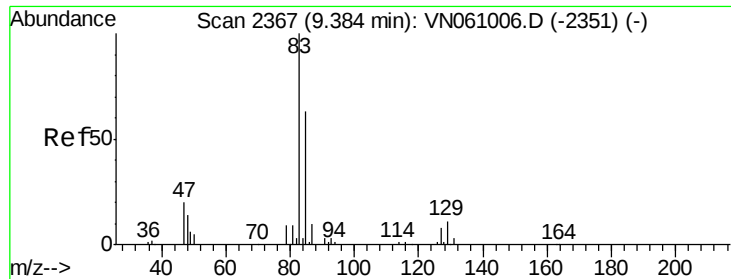
MMDadoda
 4/17/2020 11:53:34 AM



#46
 Dibromomethane
 Concen: 19.858 ug/l
 RT: 9.19 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Tgt Ion: 93 Resp: 25763
 Ion Ratio Lower Upper
 93 100
 95 81.1 66.8 100.2
 174 94.0 76.2 114.4





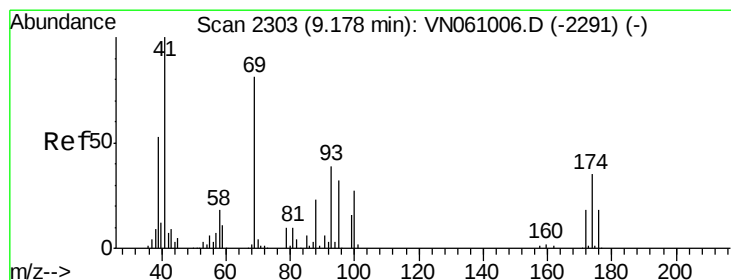
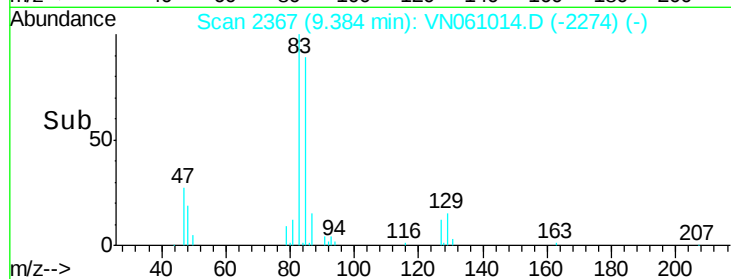
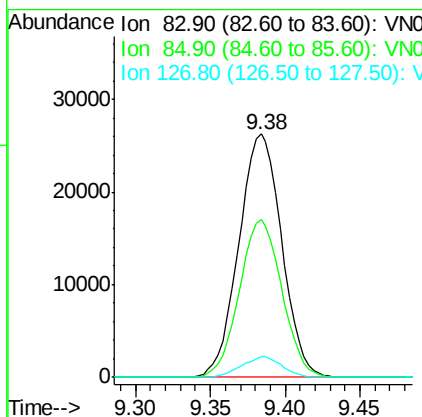
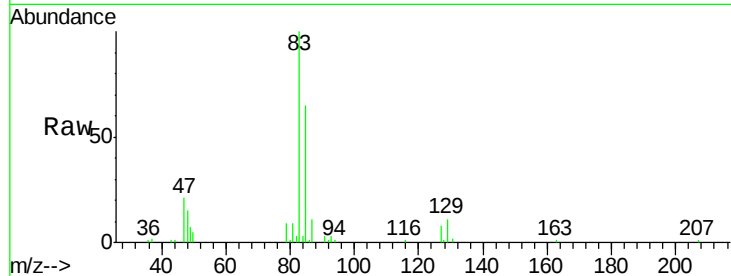
#47
Bromodichloromethane
Concen: 19.094 ug/l
RT: 9.38 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
85	64.7	50.6	76.0
127	8.5	6.1	9.1

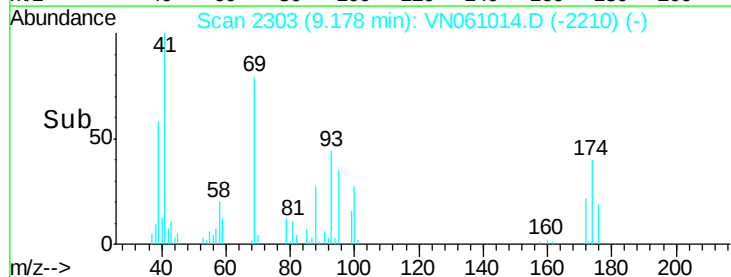
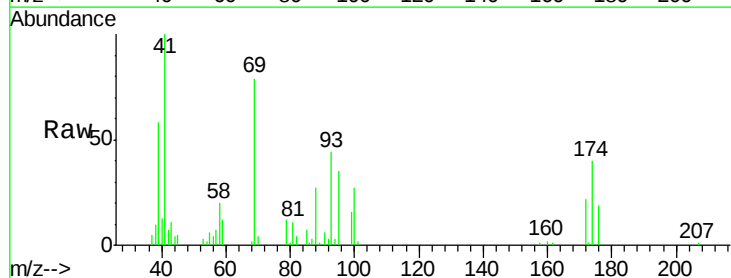
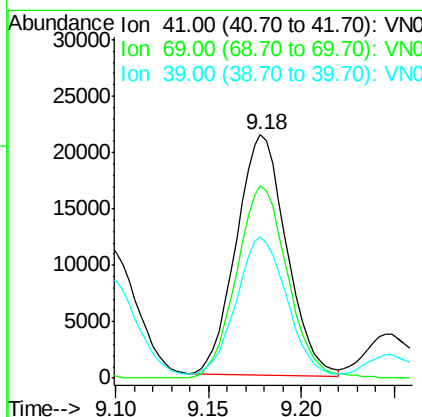
Manual Integrations
APPROVED

MMDadoda
4/17/2020 11:53:34 AM



#48
Methyl methacrylate
Concen: 18.209 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Lower	Upper
41	100		
69	81.6	65.3	97.9
39	57.3	45.2	67.8





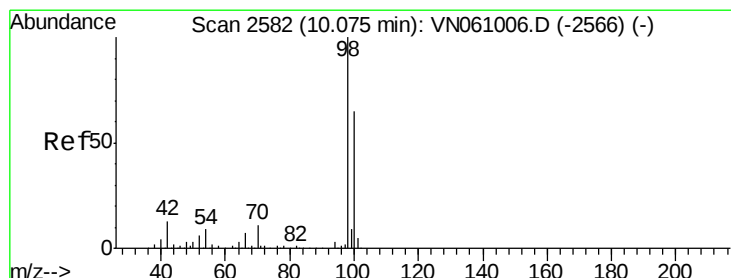
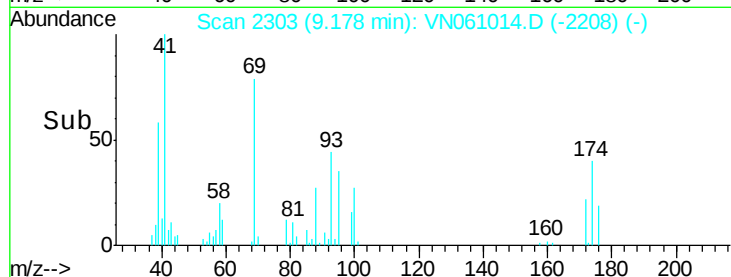
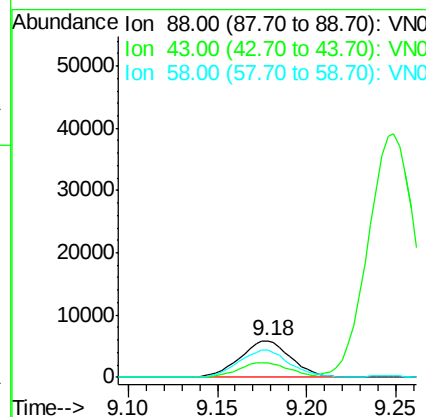
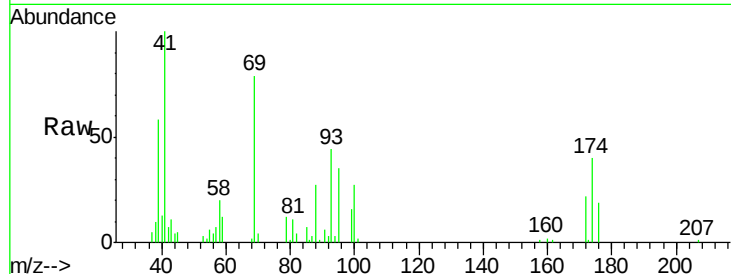
#49
1,4-Dioxane
Concen: 391.034 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. 0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	39.4	30.9	46.3
58	74.1	59.8	89.8

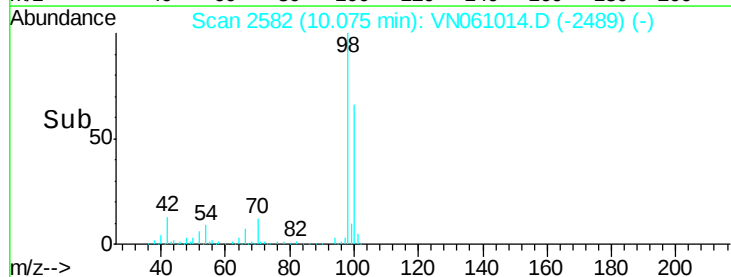
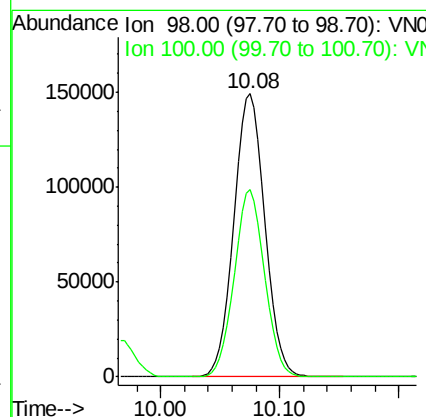
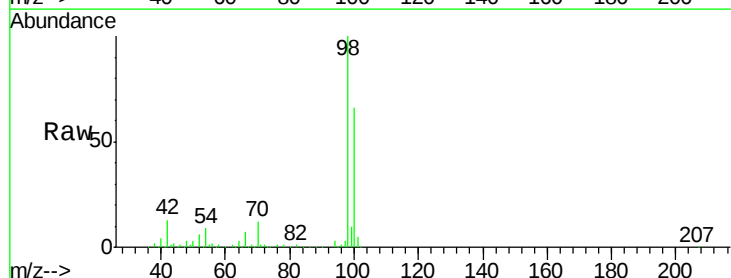
Manual Integrations
APPROVED

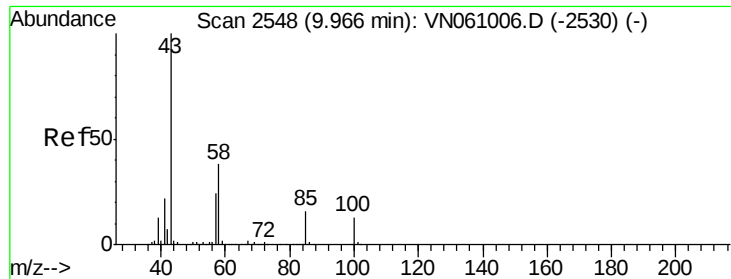
MMDadoda
4/17/2020 11:53:34 AM



#50
Toluene-d8
Concen: 44.906 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 93.253 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion: 43 Resp: 266589

Ion Ratio Lower Upper

43 100

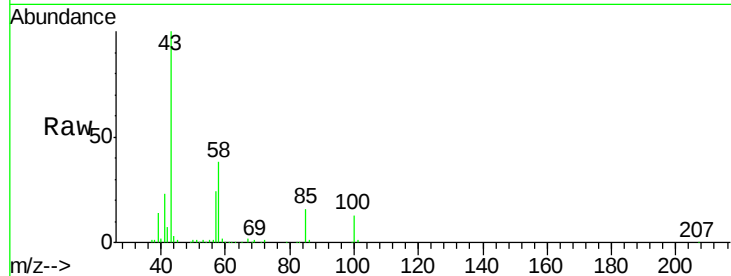
58 38.0 30.3 45.5

Manual Integrations

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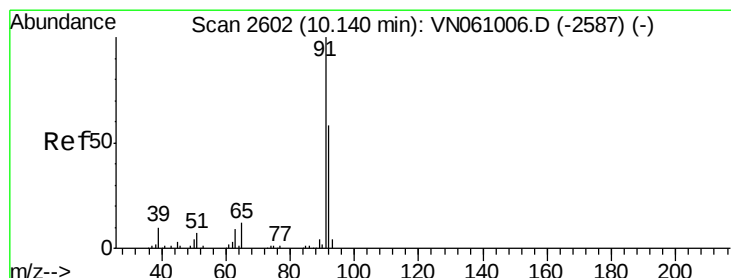
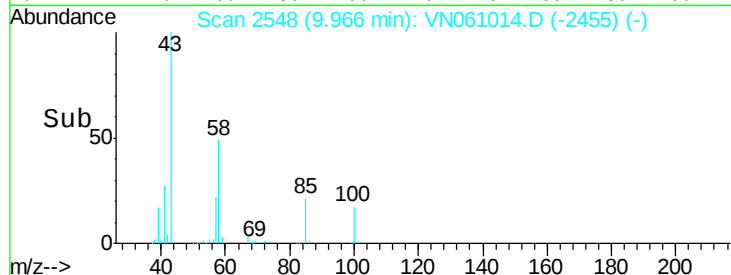
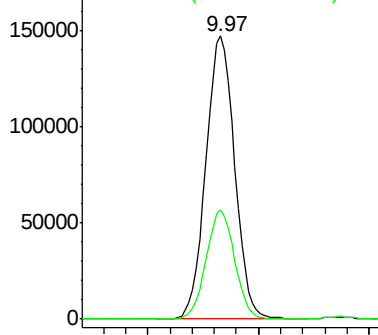
MMDadoda

4/17/2020 11:53:34 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 18.623 ug/l

RT: 10.14 min Scan# 2602

Delta R.T. -0.00 min

Lab File: VN061014.D

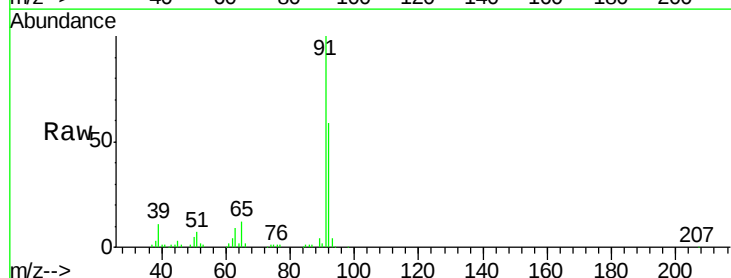
Acq: 16 Apr 2020 16:18

Tgt Ion: 92 Resp: 93072

Ion Ratio Lower Upper

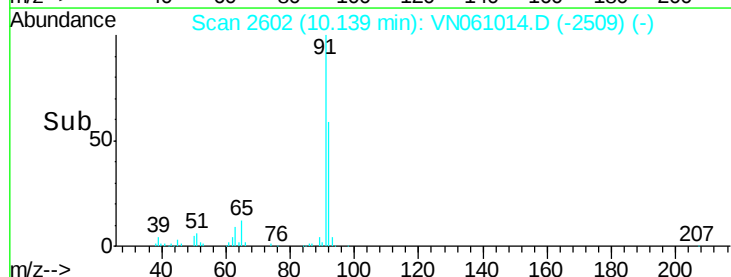
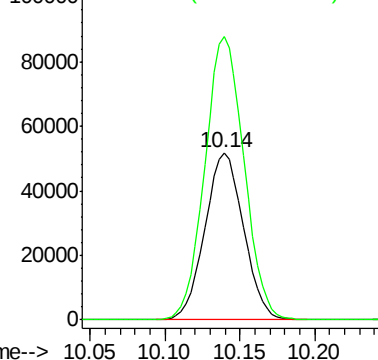
92 100

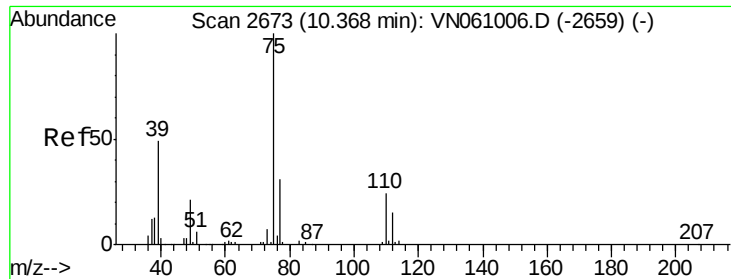
91 172.0 137.7 206.5



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





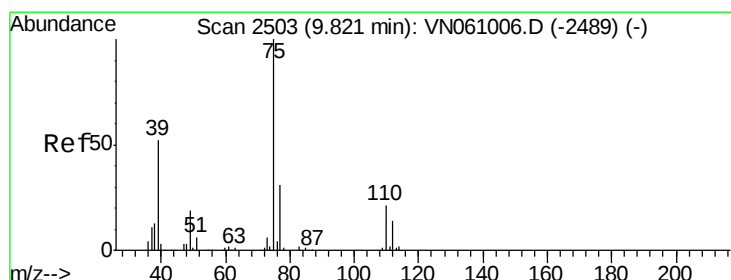
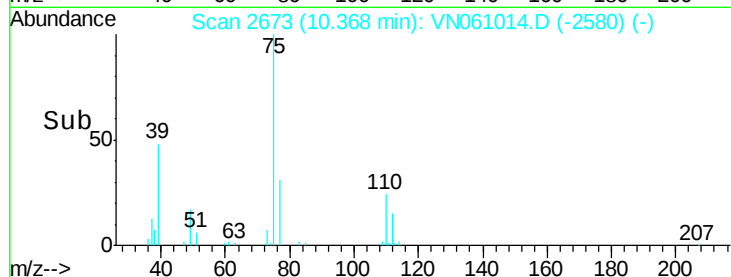
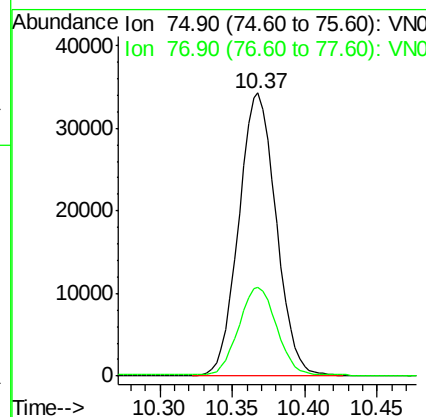
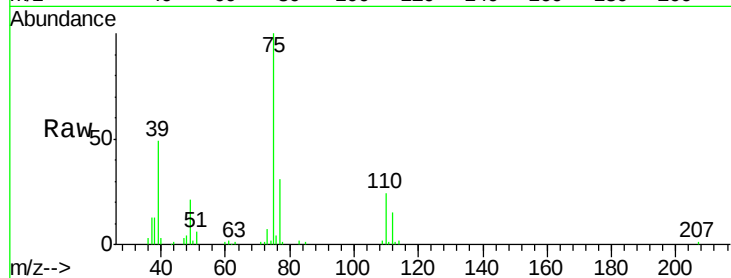
#53
t-1,3-Dichloropropene
Concen: 19.325 ug/l
RT: 10.37 min Scan# 2673
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion: 75 Resp: 61523
Ion Ratio Lower Upper
75 100
77 30.9 25.0 37.6

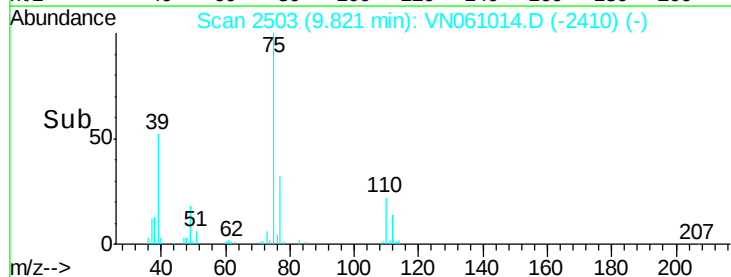
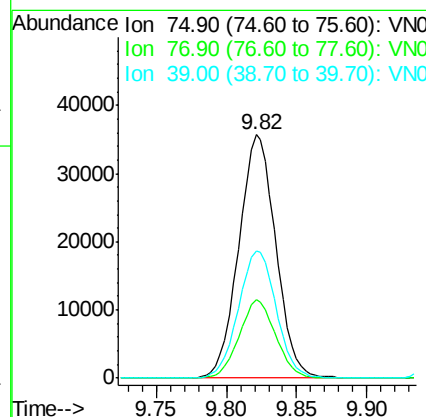
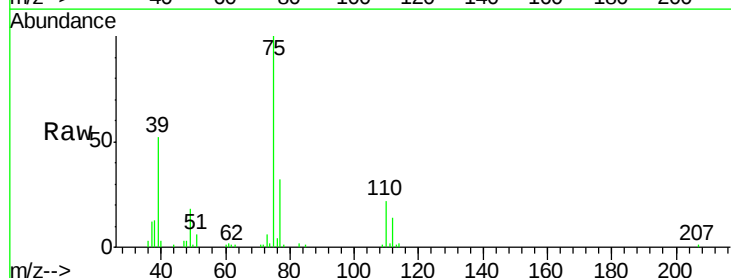
Manual Integrations
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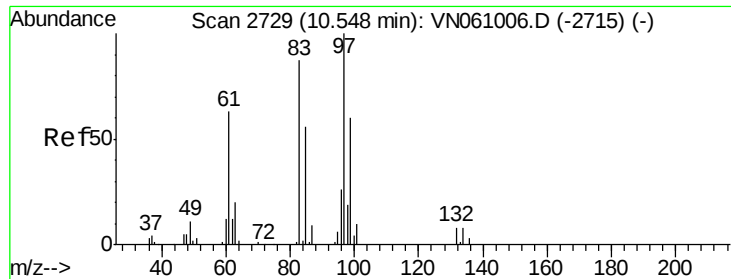
MMDadoda
4/17/2020 11:53:34 AM



#54
cis-1,3-Dichloropropene
Concen: 18.868 ug/l
RT: 9.82 min Scan# 2503
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion: 75 Resp: 65539
Ion Ratio Lower Upper
75 100
77 32.0 25.0 37.6
39 52.2 41.4 62.2





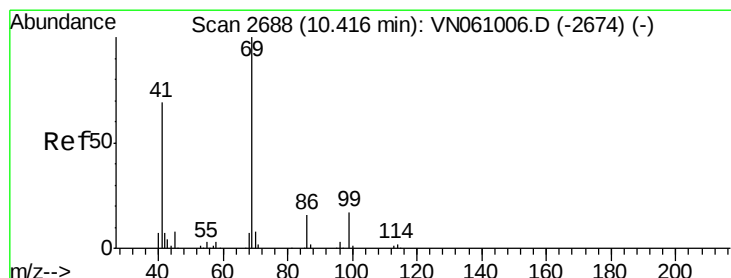
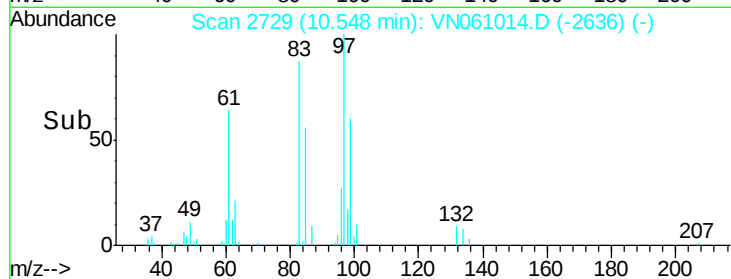
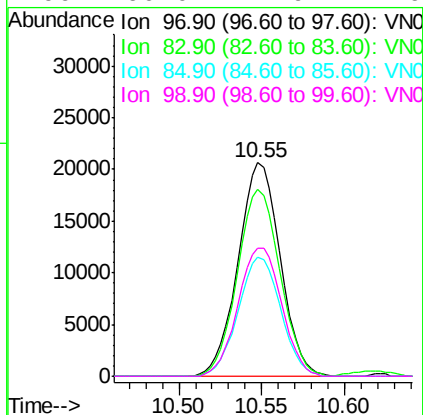
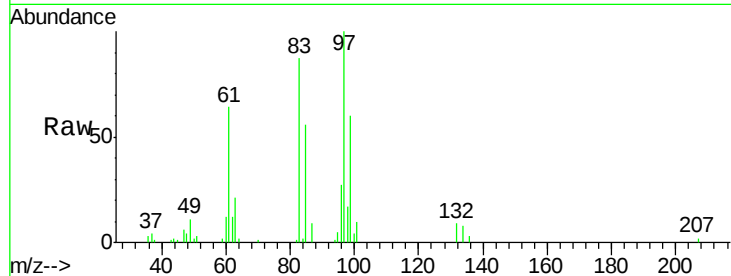
#55
 1,1,2-Trichloroethane
 Concen: 19.266 ug/l
 RT: 10.55 min Scan# 2729
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion:	97	Resp:	36437
Ion	Ratio	Lower	Upper
97	100		
83	87.3	69.5	104.3
85	55.7	45.0	67.4
99	60.0	47.9	71.9

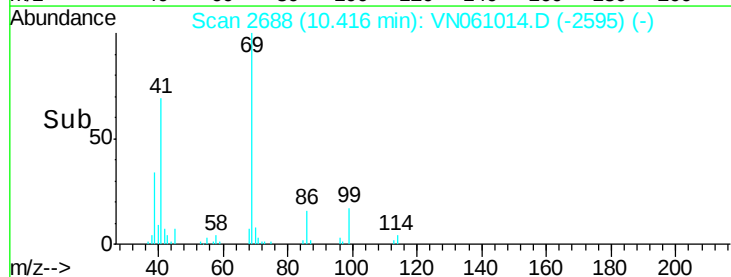
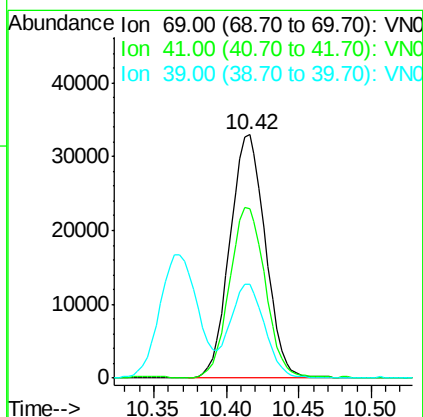
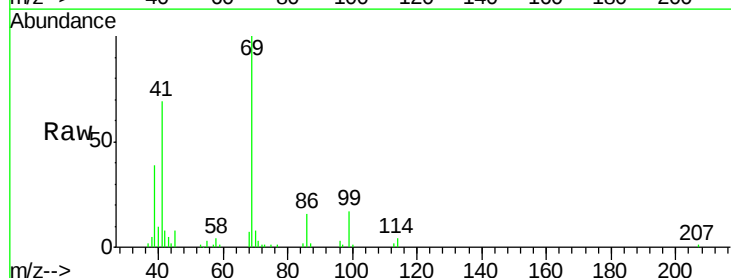
Manual Integrations
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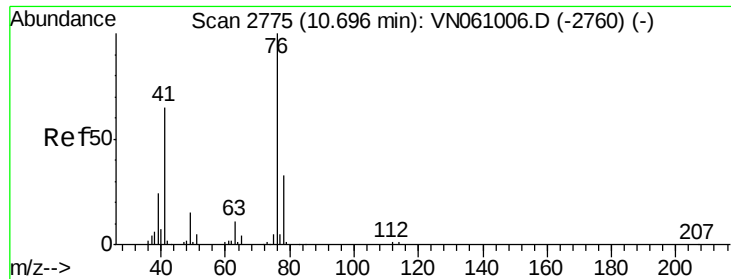
MMDadoda
 4/17/2020 11:53:34 AM



#56
 Ethyl methacrylate
 Concen: 18.839 ug/l
 RT: 10.42 min Scan# 2688
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Tgt Ion:	69	Resp:	56029
Ion	Ratio	Lower	Upper
69	100		
41	70.7	56.7	85.1
39	37.6	29.4	44.0





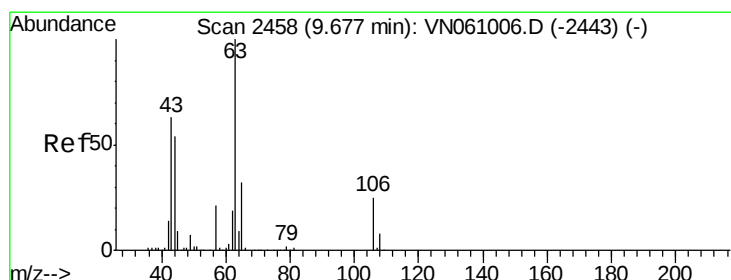
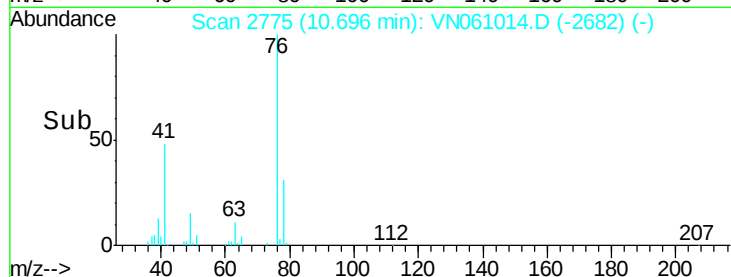
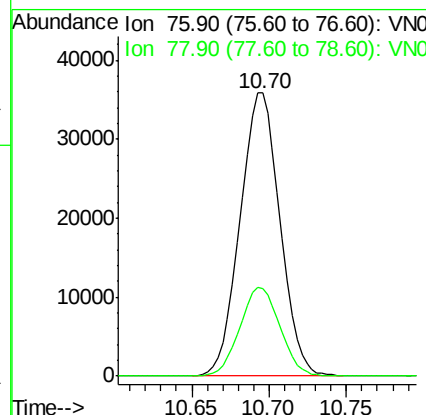
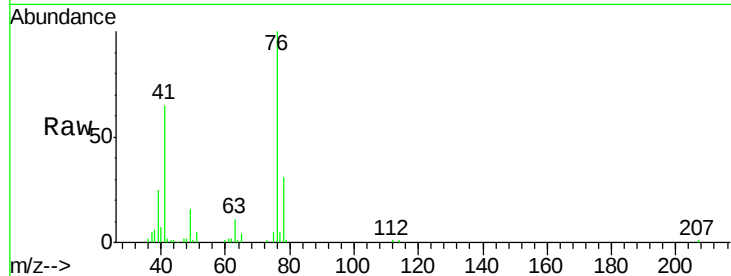
#57
 1,3-Dichloropropane
 Concen: 19.033 ug/l
 RT: 10.70 min Scan# 2775
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion: 76 Resp: 64209
 Ion Ratio Lower Upper
 76 100
 78 31.5 25.4 38.0

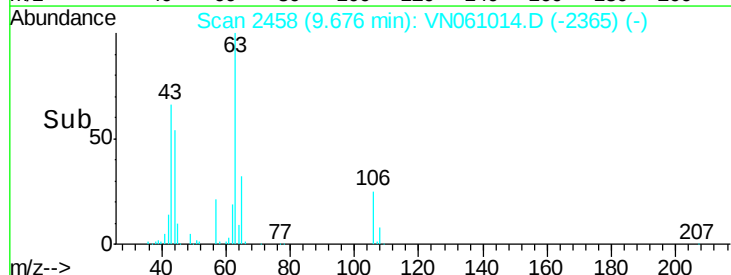
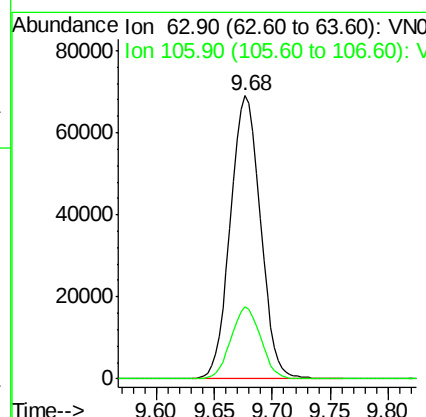
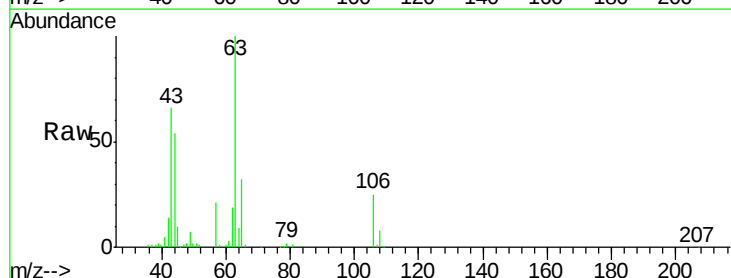
Manual Integrations
 APPROVED

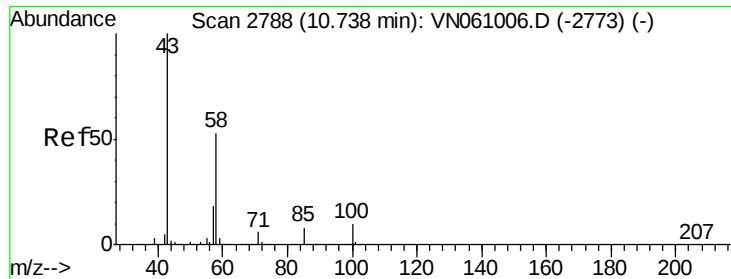
MMDadoda
 4/17/2020 11:53:34 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 91.789 ug/l
 RT: 9.68 min Scan# 2458
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Tgt Ion: 63 Resp: 124044
 Ion Ratio Lower Upper
 63 100
 106 24.9 19.5 29.3





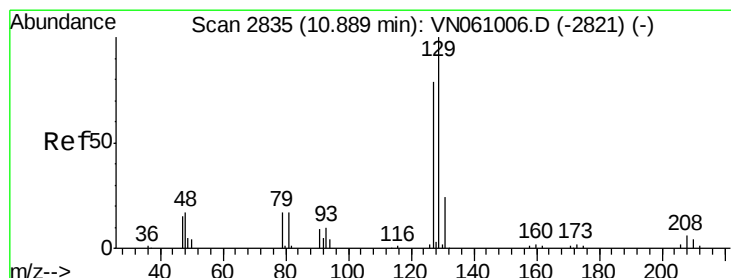
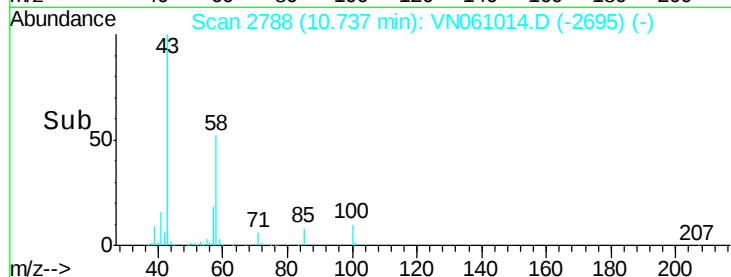
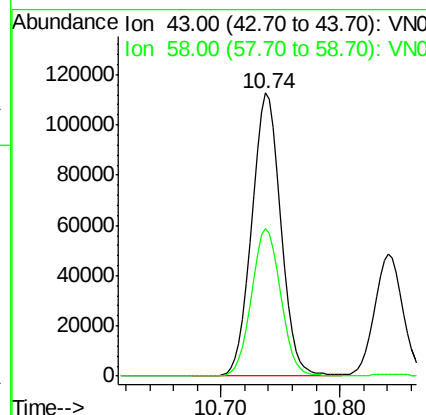
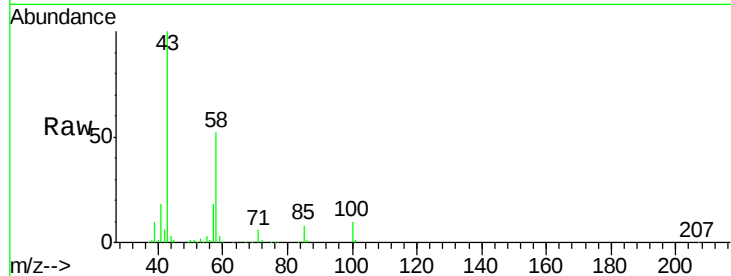
#59
2-Hexanone
Concen: 92.786 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion: 43 Resp: 191295
Ion Ratio Lower Upper
43 100
58 52.4 26.4 79.0

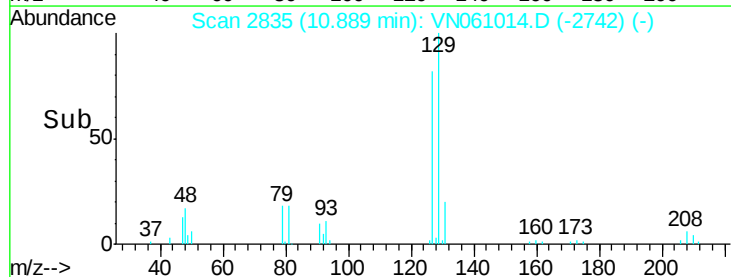
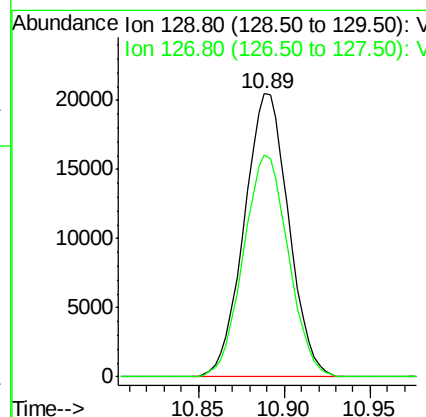
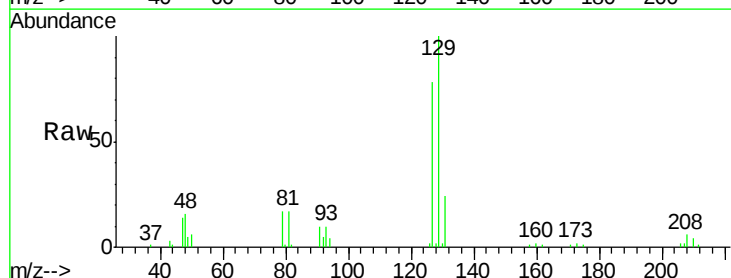
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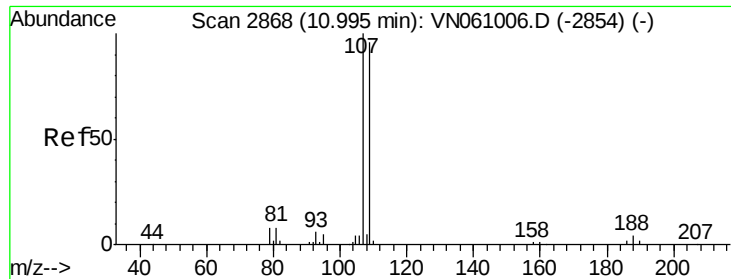
MMDadoda
4/17/2020 11:53:34 AM



#60
Dibromochloromethane
Concen: 18.907 ug/l
RT: 10.89 min Scan# 2835
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion: 129 Resp: 36734
Ion Ratio Lower Upper
129 100
127 79.1 39.0 116.9





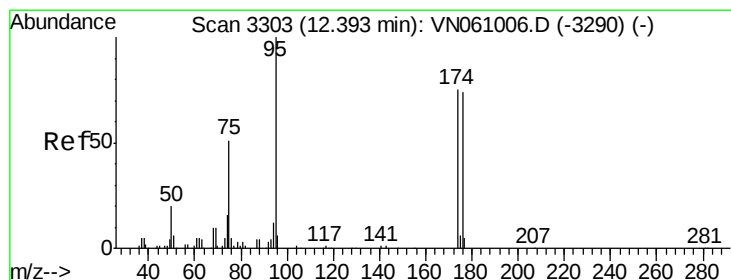
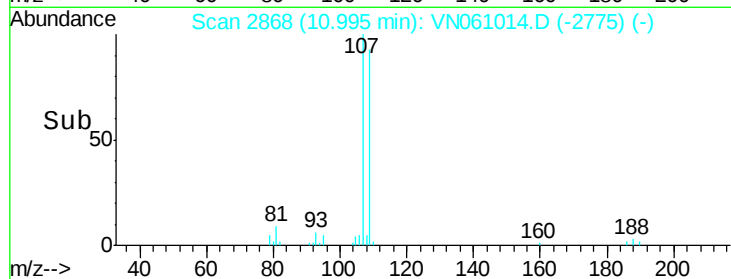
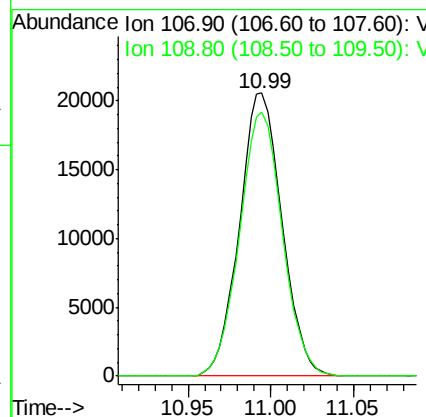
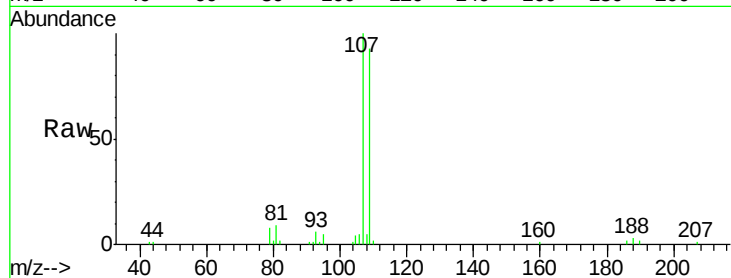
#61
 1,2-Dibromoethane
 Concen: 19.034 ug/l
 RT: 10.99 min Scan# 2868
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.9	113.9

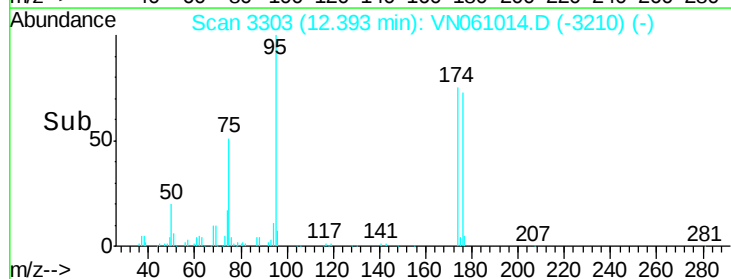
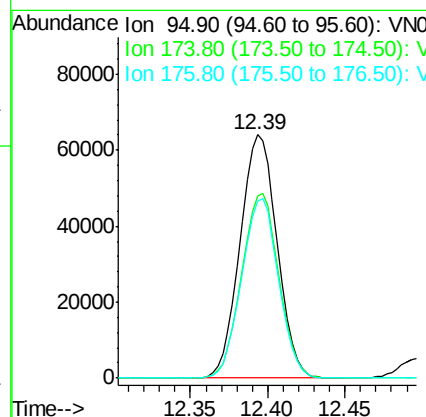
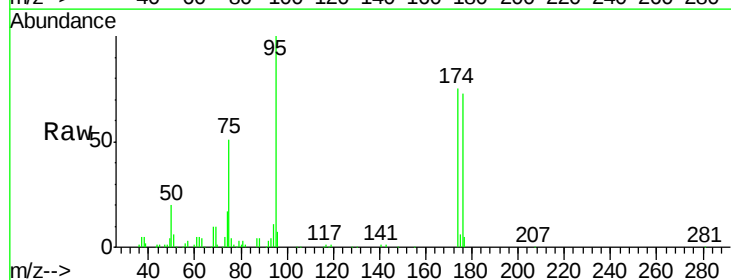
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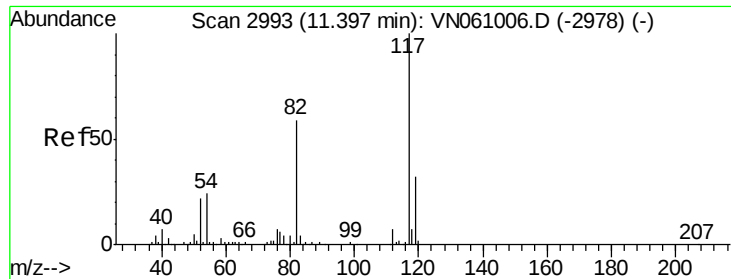
MMDadoda
 4/17/2020 11:53:34 AM



#62
 4-Bromofluorobenzene
 Concen: 45.315 ug/l
 RT: 12.39 min Scan# 3303
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Lower	Upper
95	100		
174	76.3	0.0	151.2
176	73.8	0.0	148.2





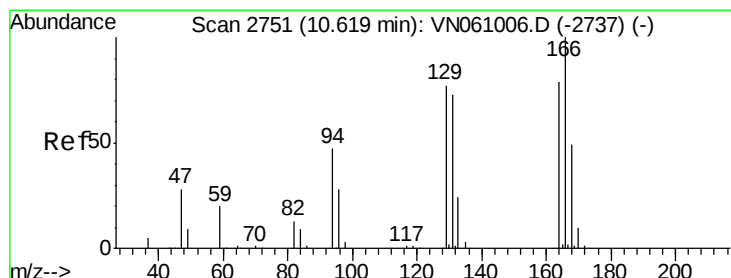
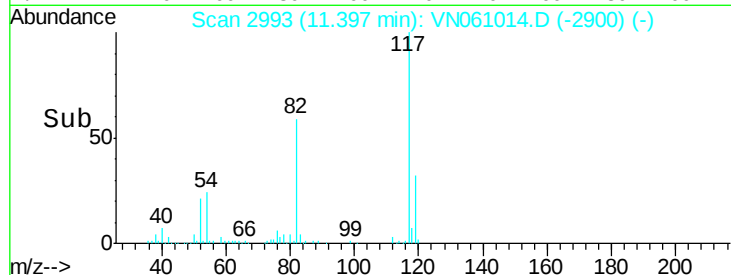
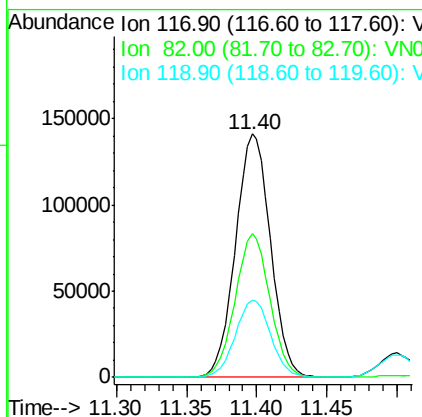
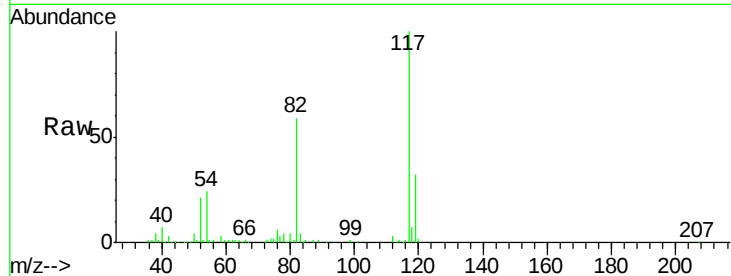
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.9	47.1	70.7
119	31.8	25.7	38.5

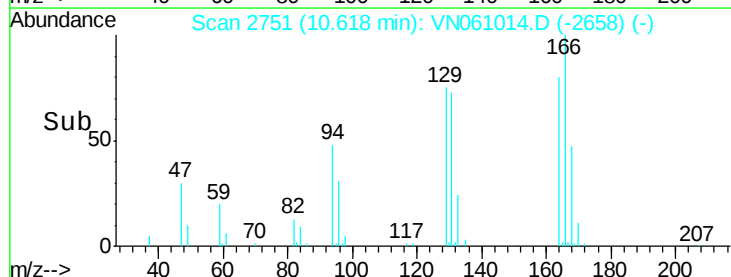
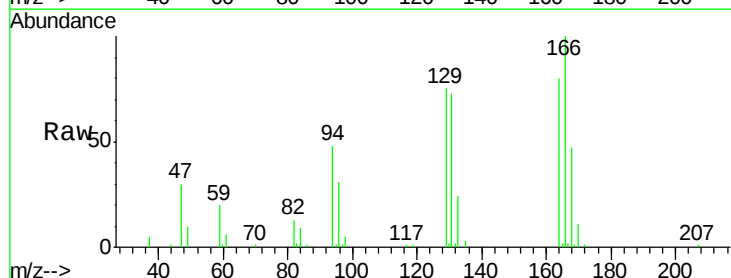
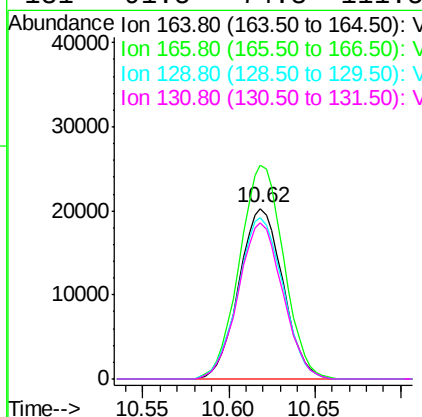
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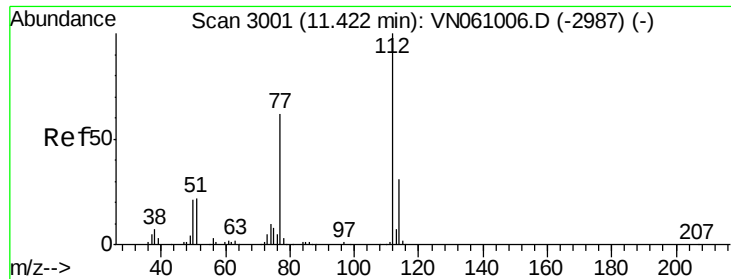
MMDadoda
4/17/2020 11:53:34 AM



#64
Tetrachloroethene
Concen: 19.175 ug/l
RT: 10.62 min Scan# 2751
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.2	101.6	152.4
129	94.5	78.5	117.7
131	91.5	74.3	111.5





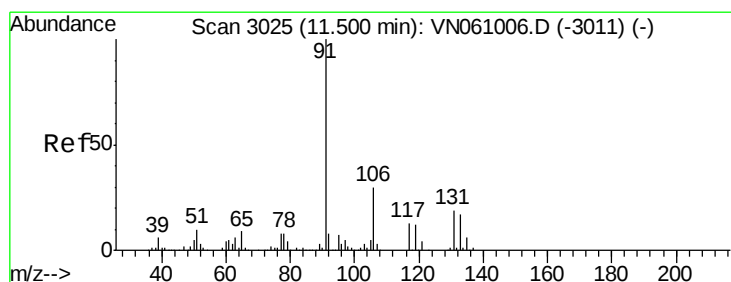
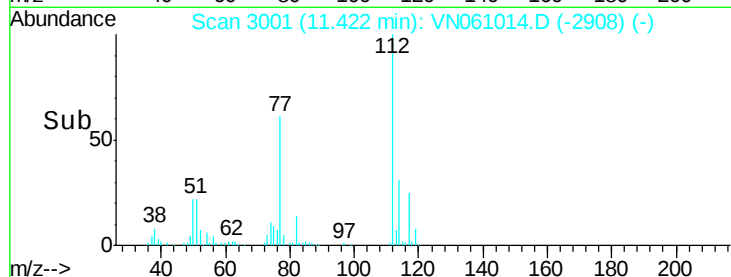
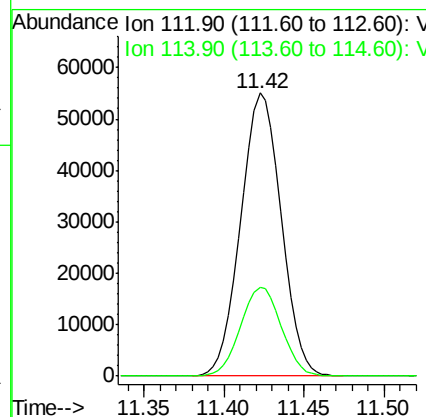
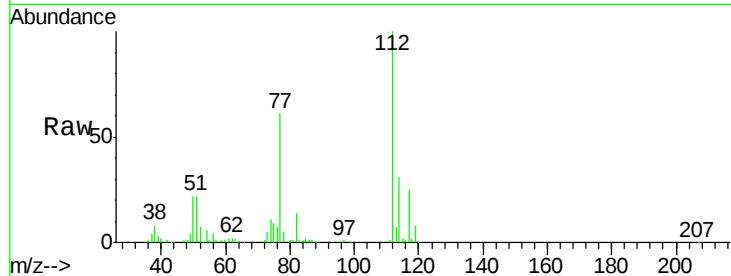
#65
Chlorobenzene
Concen: 18.723 ug/l
RT: 11.42 min Scan# 3001
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion:112 Resp: 94762
Ion Ratio Lower Upper
112 100
114 31.4 25.1 37.7

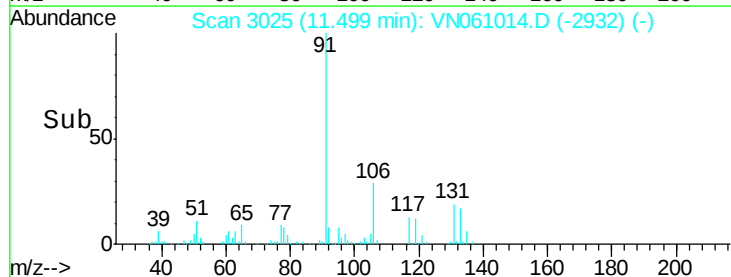
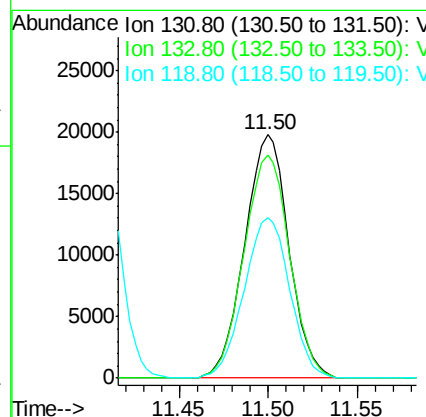
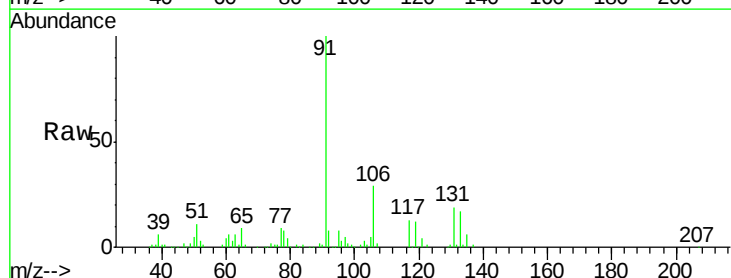
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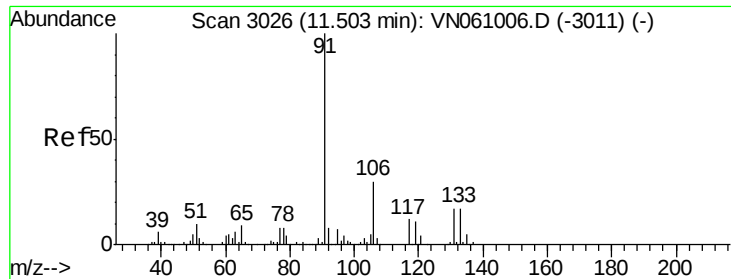
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 18.887 ug/l
RT: 11.50 min Scan# 3025
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion:131 Resp: 34200
Ion Ratio Lower Upper
131 100
133 94.7 47.9 143.8
119 68.0 33.3 99.8





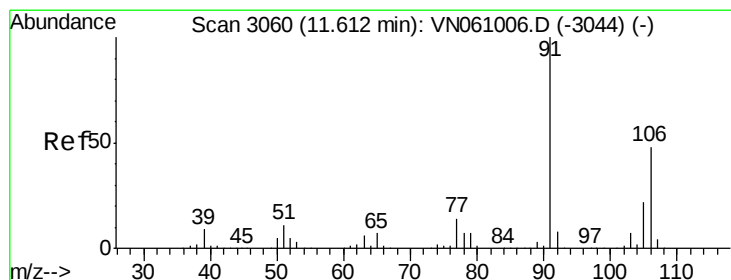
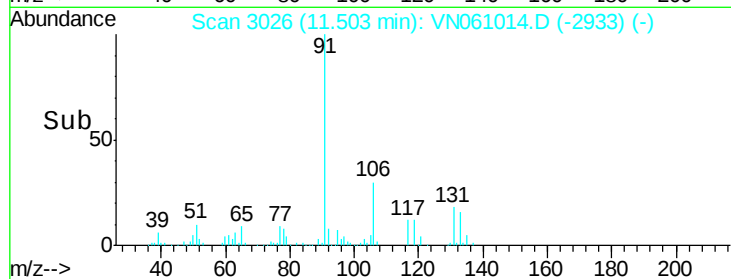
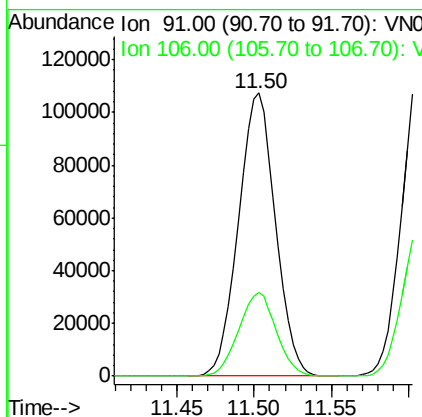
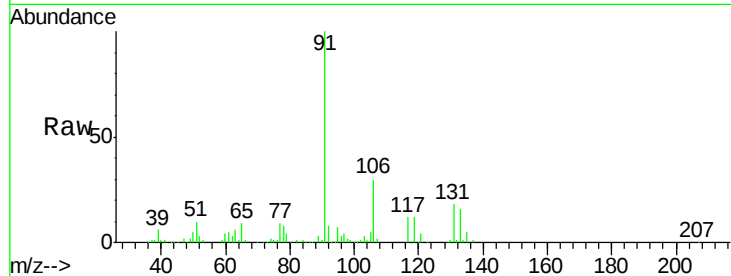
#67
Ethyl Benzene
Concen: 18.708 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion: 91 Resp: 178102
Ion Ratio Lower Upper
91 100
106 29.5 23.8 35.8

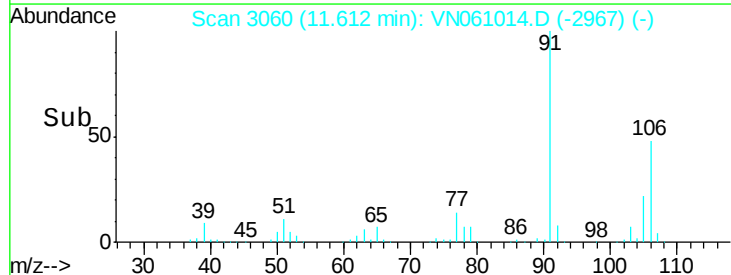
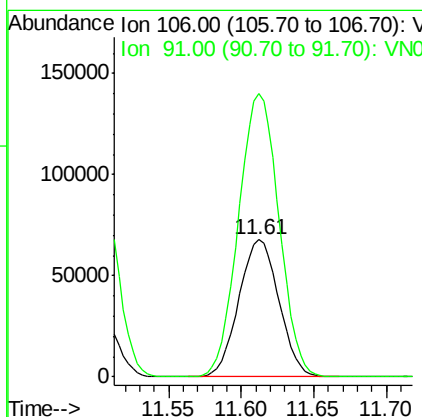
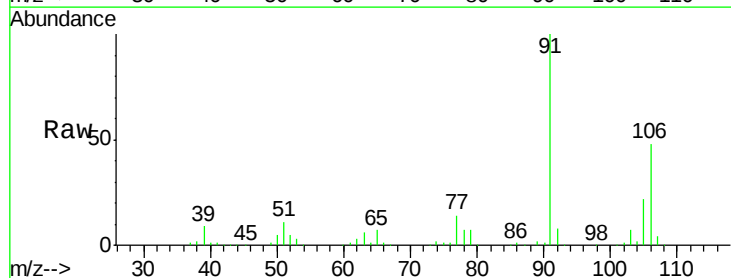
Manual Integrations
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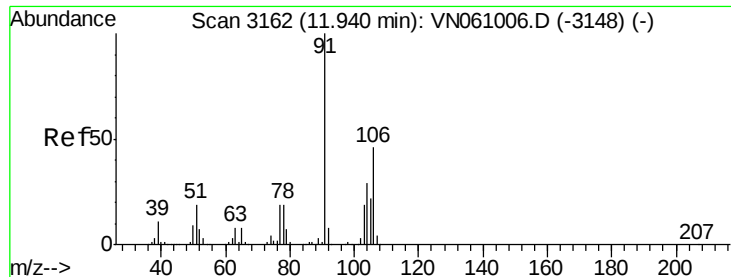
MMDadoda
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#68
m/p-Xylenes
Concen: 37.862 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion: 106 Resp: 130267
Ion Ratio Lower Upper
106 100
91 208.4 167.9 251.9





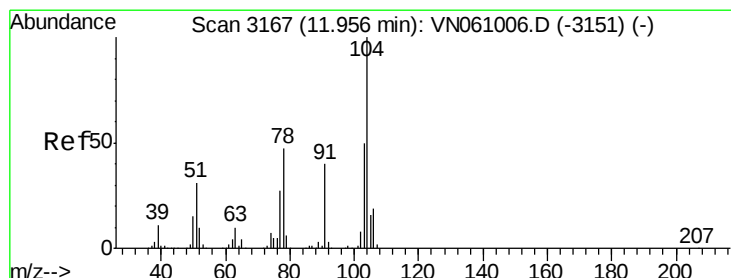
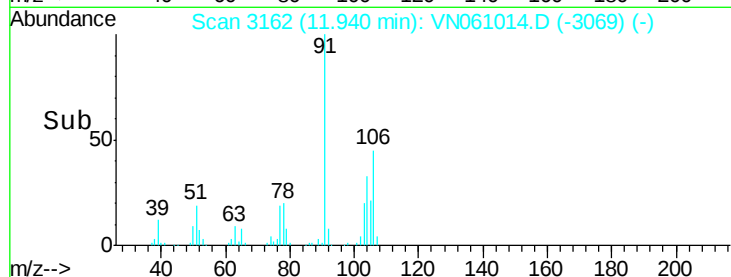
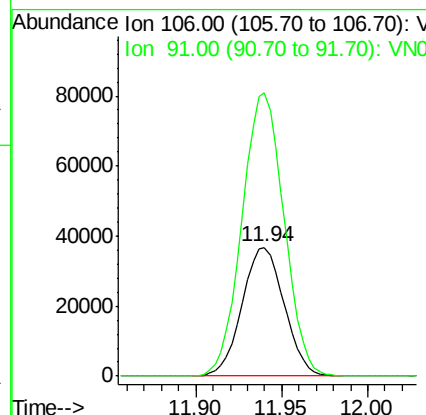
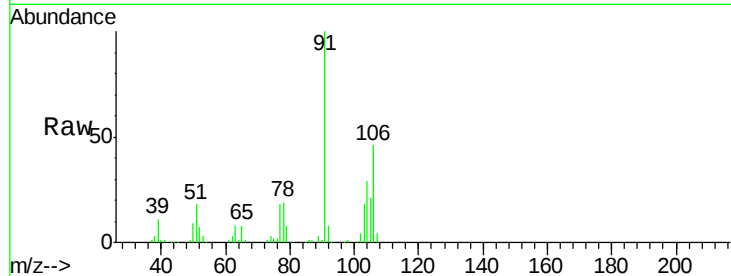
#69
o-Xylene
Concen: 18.903 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion:106 Resp: 62534
Ion Ratio Lower Upper
106 100
91 219.7 110.7 332.1

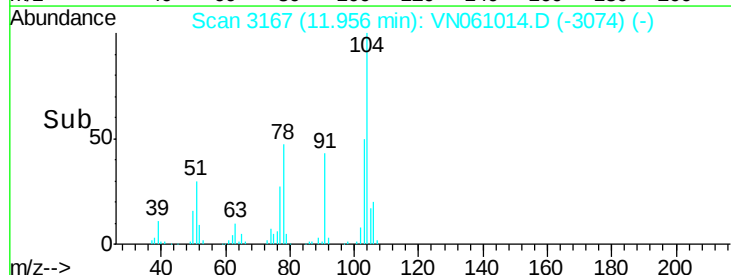
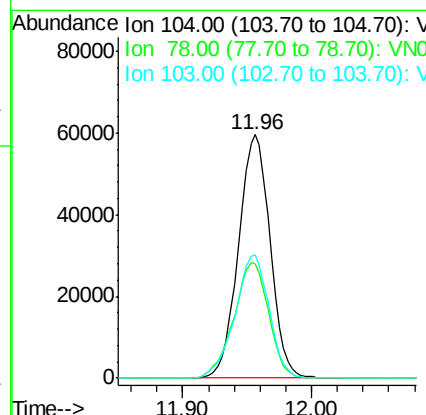
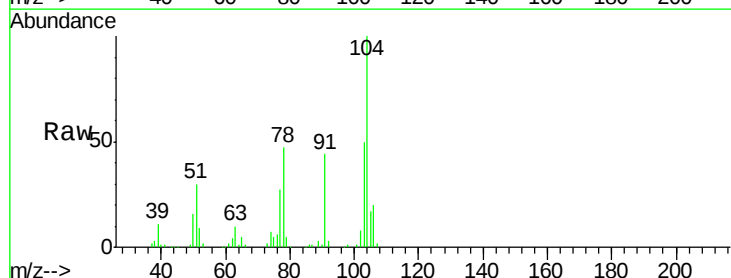
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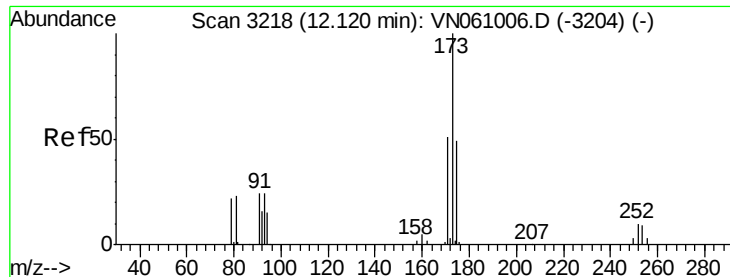
MMDadoda
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#70
Styrene
Concen: 19.058 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion:104 Resp: 101498
Ion Ratio Lower Upper
104 100
78 52.2 42.2 63.4
103 54.5 44.4 66.6





#71

Bromoform

Concen: 19.269 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion:173 Resp: 26044

Ion Ratio Lower Upper

173 100

175 48.5 24.5 73.5

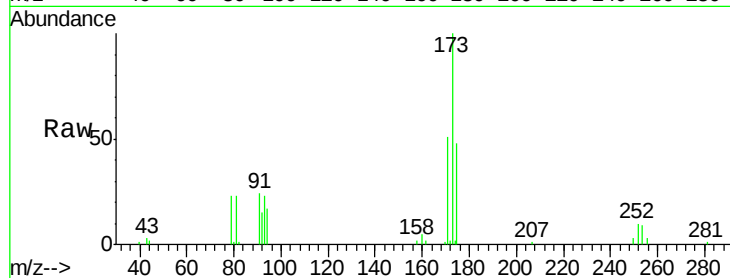
254 0.0 0.0 0.0

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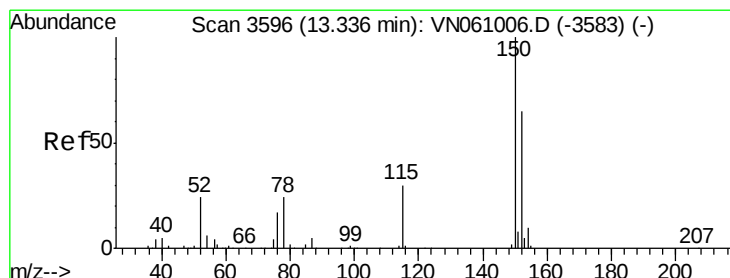
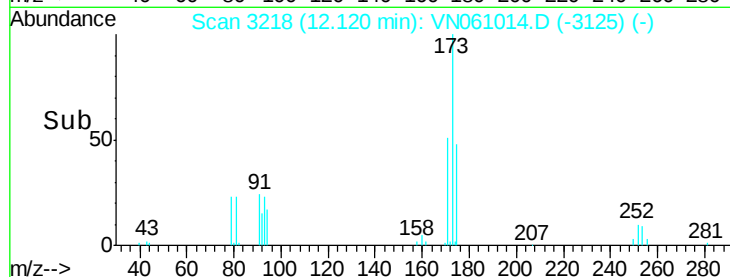
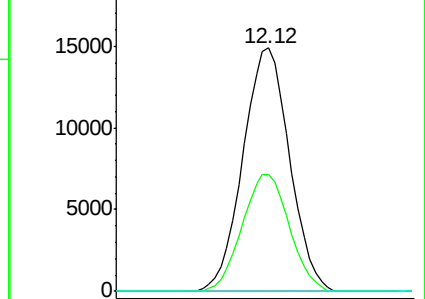
4/17/2020 11:53:34 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

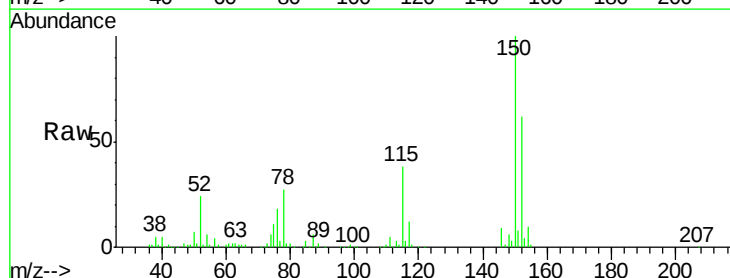
Tgt Ion:152 Resp: 111602

Ion Ratio Lower Upper

152 100

115 61.1 30.8 92.4

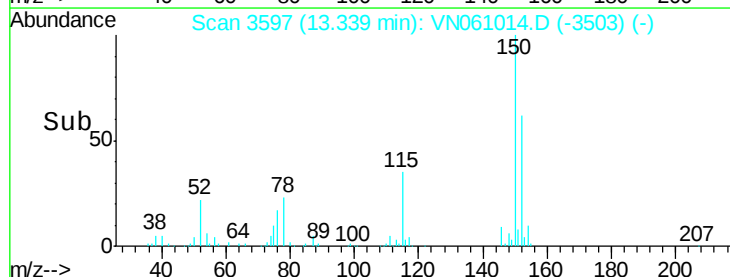
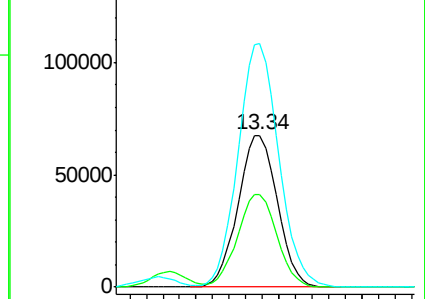
150 166.1 0.0 349.0

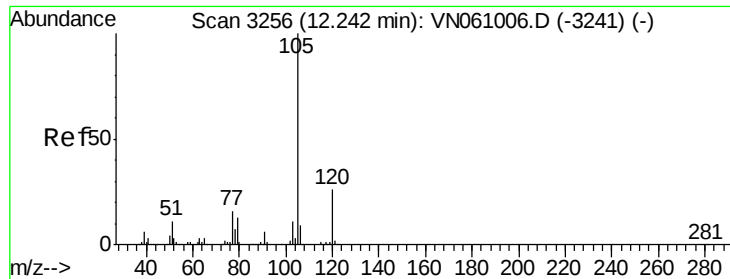


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 18.725 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion:105 Resp: 167416

Ion Ratio Lower Upper

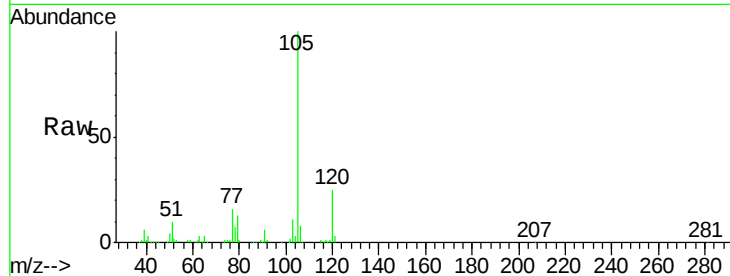
105 100

120 25.8 13.0 38.9

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

120000

100000

80000

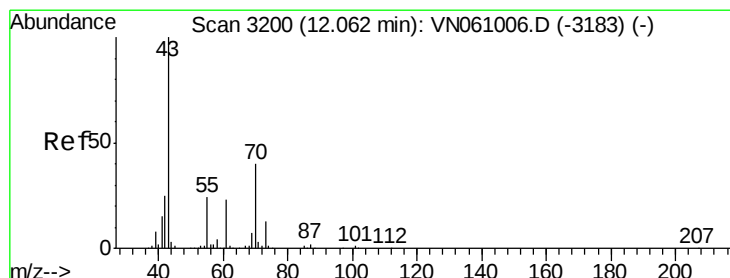
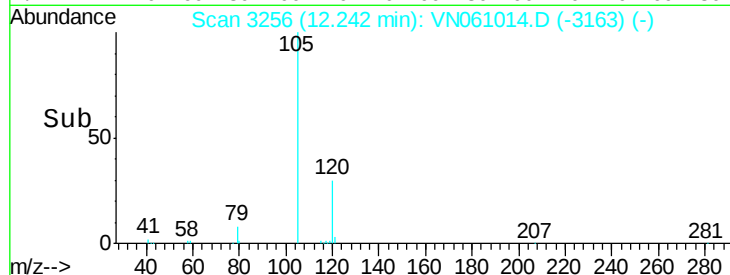
60000

40000

20000

0

Time-->



#74

N-ethyl acetate

Concen: 18.021 ug/l

RT: 12.06 min Scan# 3200

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Tgt Ion: 43 Resp: 74929

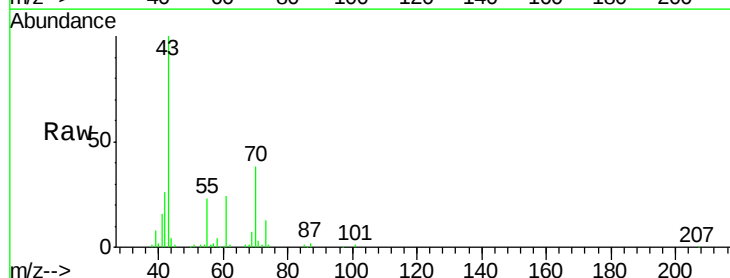
Ion Ratio Lower Upper

43 100

70 39.0 31.0 46.6

55 23.5 18.6 27.8

61 23.6 18.2 27.4



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

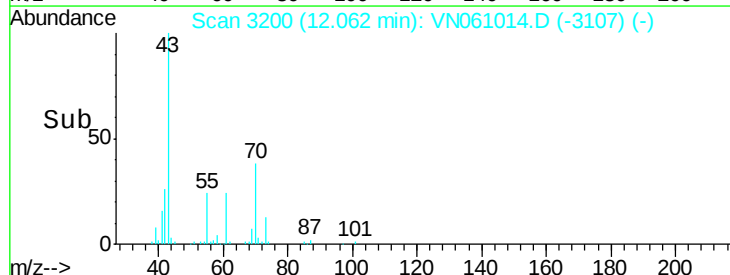
60000

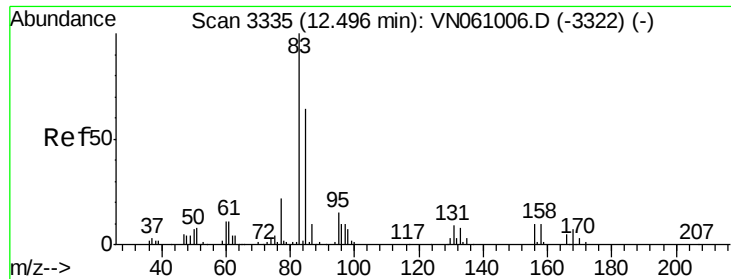
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.076 ug/l

RT: 12.50 min Scan# 3335

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

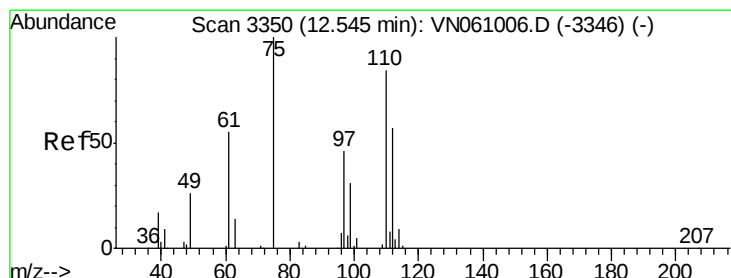
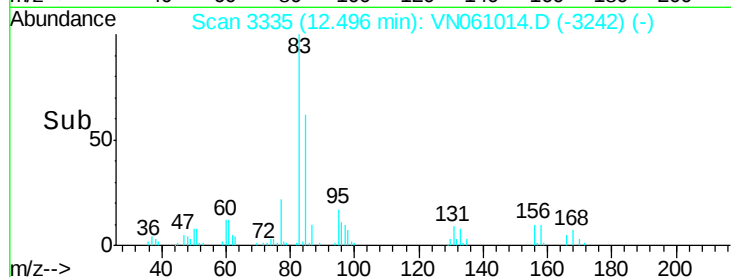
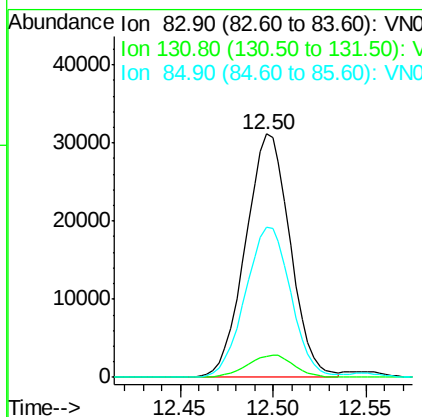
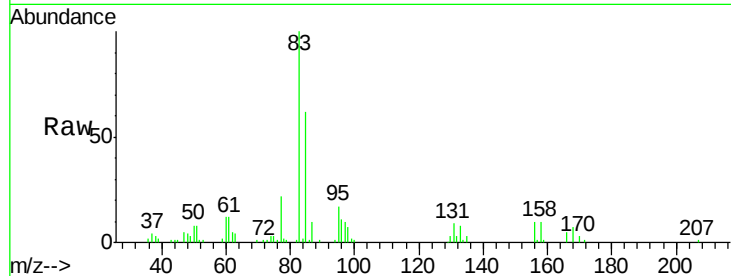
ClientSampleId :

VN0416WBSD01

Tot Ion:	83	Resp:	52065
Ion Ratio	Lower	Upper	
83	100		
131	9.4	4.8	14.3
85	63.0	32.3	96.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 18.689 ug/l m

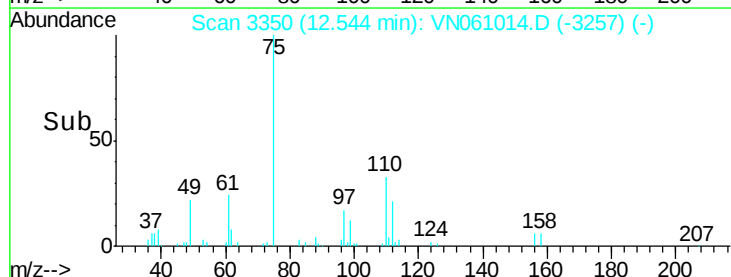
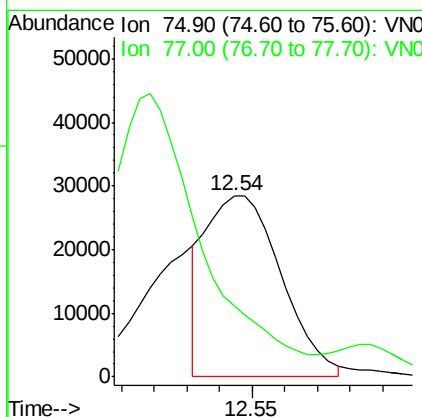
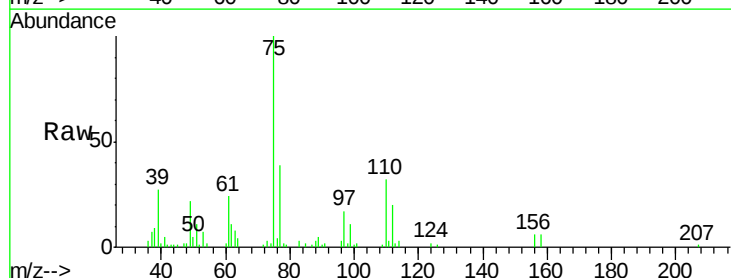
RT: 12.54 min Scan# 3350

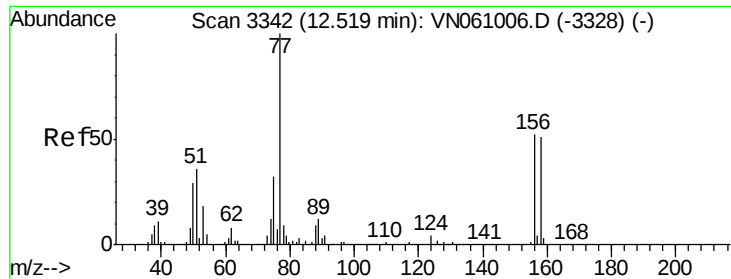
Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Tgt Ion:	75	Resp:	45877
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 18.999 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

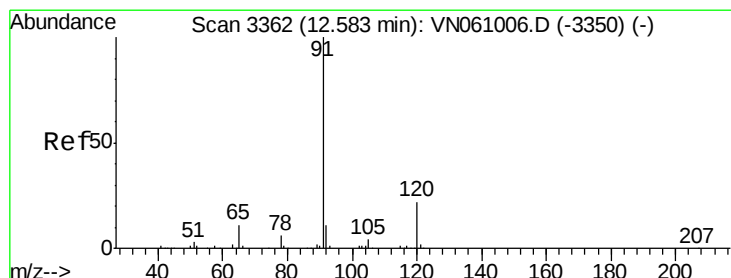
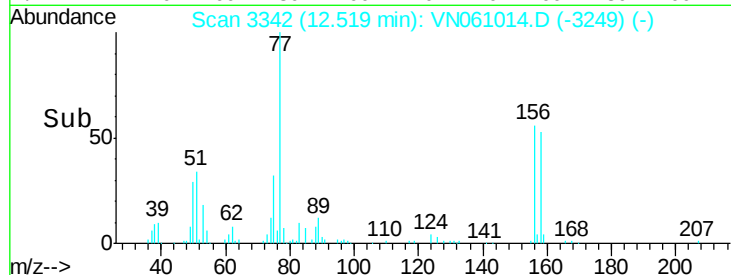
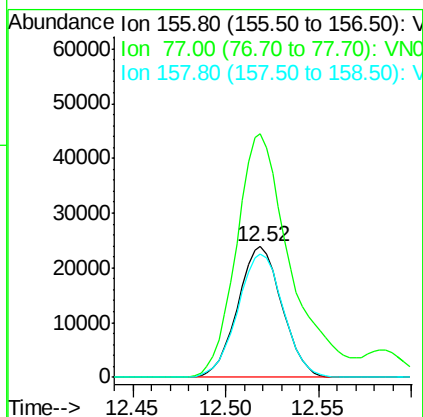
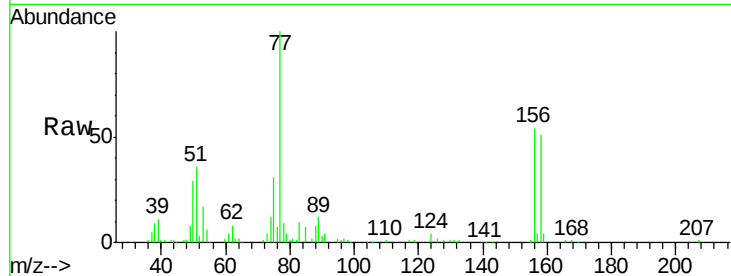
ClientSampleId :

VN0416WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	228.5	115.6	346.8	
158	96.7	48.9	146.6	

Manual Integrations
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#78

n-propylbenzene

Concen: 18.933 ug/l

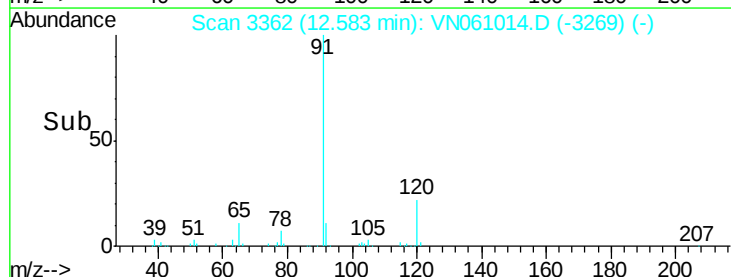
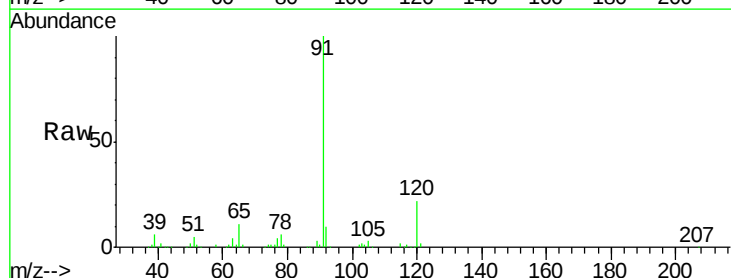
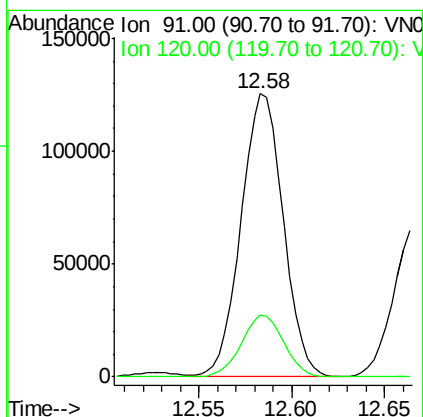
RT: 12.58 min Scan# 3362

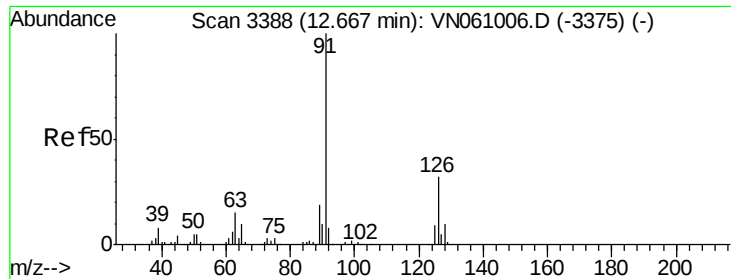
Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	22.0	10.9	32.7	





#79

2-Chlorotoluene

Concen: 18.761 ug/l

RT: 12.67 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion: 91 Resp: 115102

Ion Ratio Lower Upper

91 100

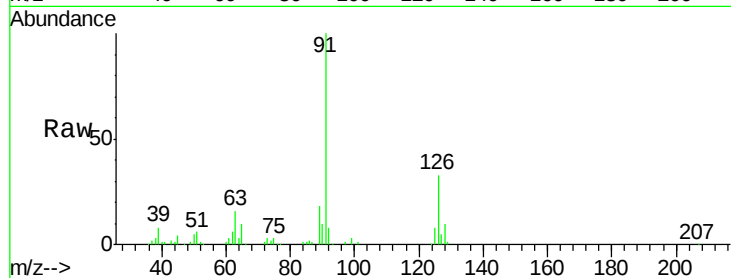
126 32.2 16.1 48.2

Manual Integrations

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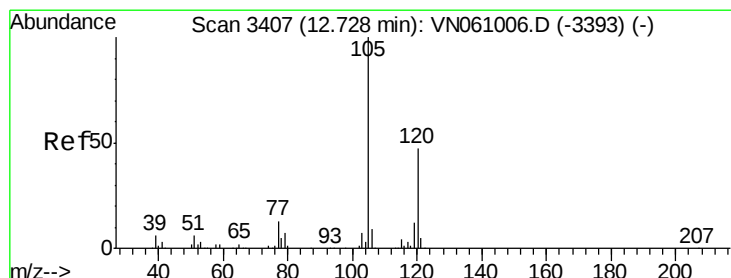
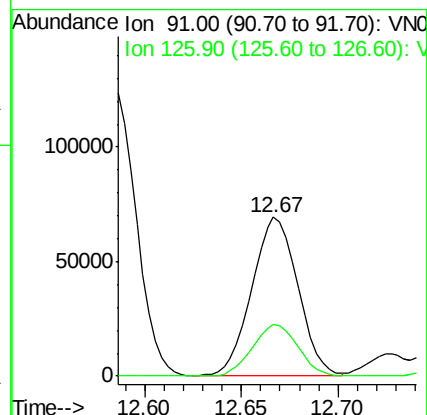
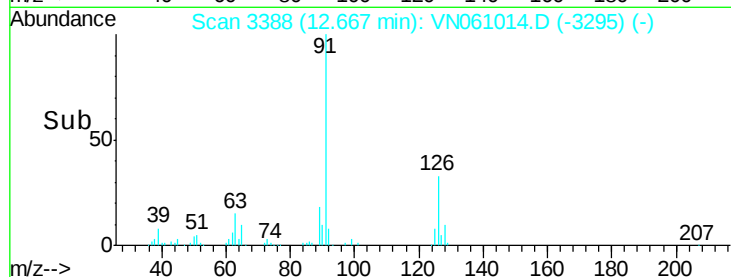
MMDadoda

4/17/2020 11:53:34 AM



Abundance Ion 91.00 (90.70 to 91.70): VN061014.D (-3295) (-)

Ion 125.90 (125.60 to 126.60): VN061014.D (-3295) (-)



#80

1,3,5-Trimethylbenzene

Concen: 19.027 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN061014.D

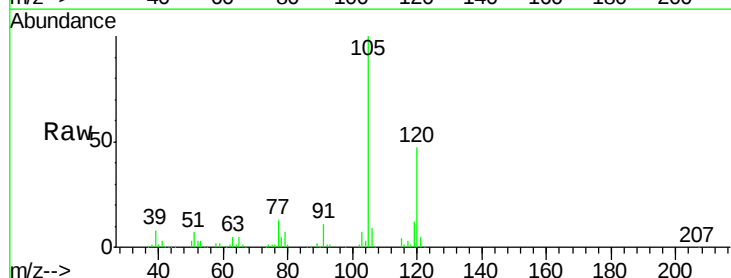
Acq: 16 Apr 2020 16:18

Tgt Ion: 105 Resp: 140617

Ion Ratio Lower Upper

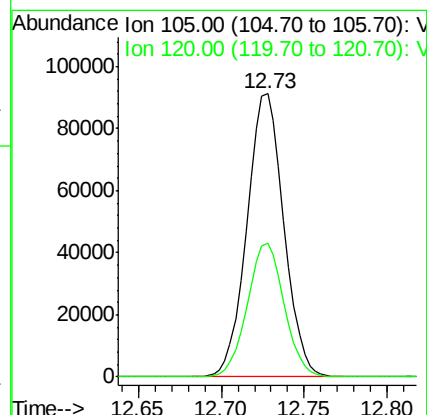
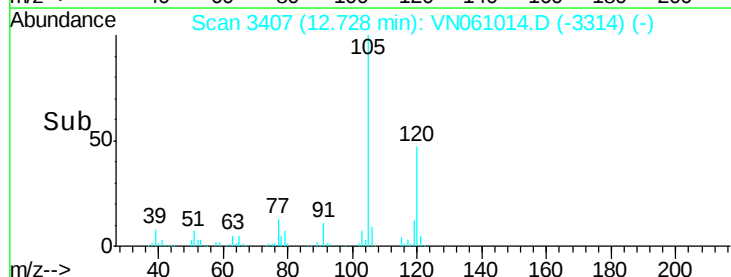
105 100

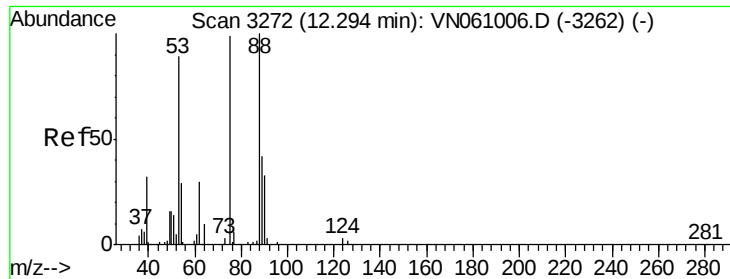
120 47.1 23.6 70.8



Abundance Ion 105.00 (104.70 to 105.70): VN061014.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN061014.D (-3314) (-)





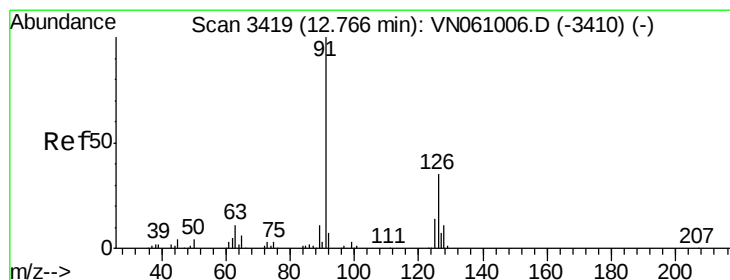
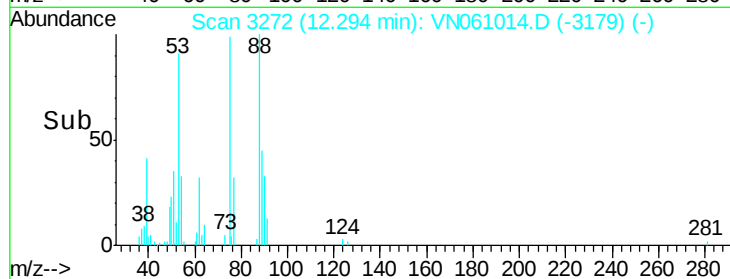
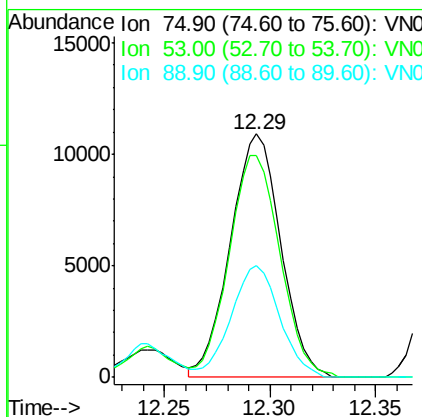
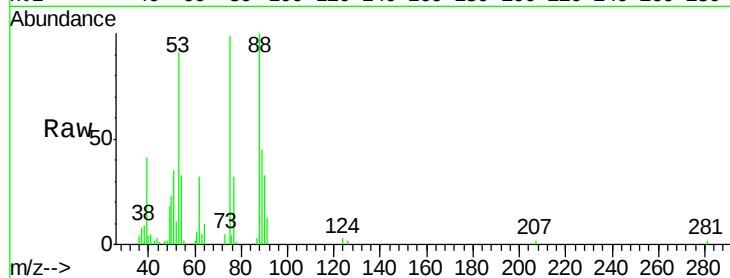
#81
trans-1,4-Dichloro-2-butene
Concen: 18.209 ug/l
RT: 12.29 min Scan# 3272
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	92.5	74.7	112.1
89	44.2	34.6	52.0

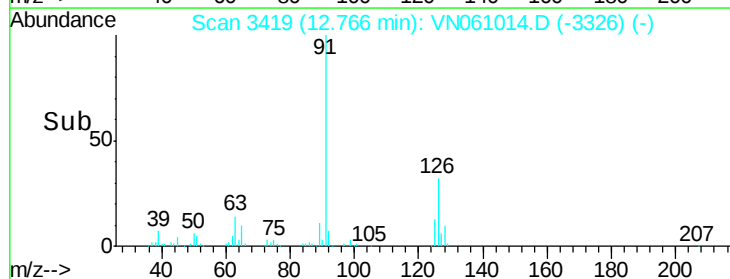
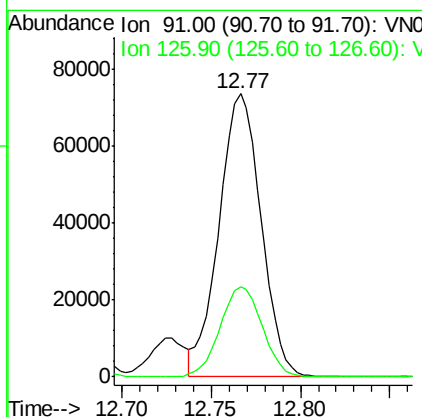
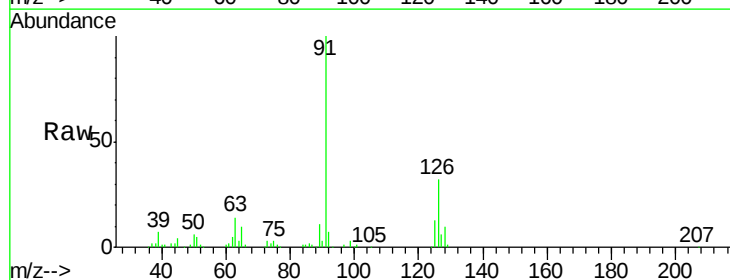
Manual Integrations
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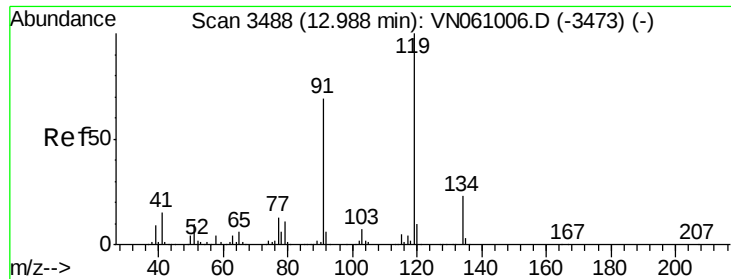
MMDadoda
4/17/2020 11:53:34 AM



#82
4-Chlorotoluene
Concen: 18.898 ug/l
RT: 12.77 min Scan# 3419
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.9	47.6





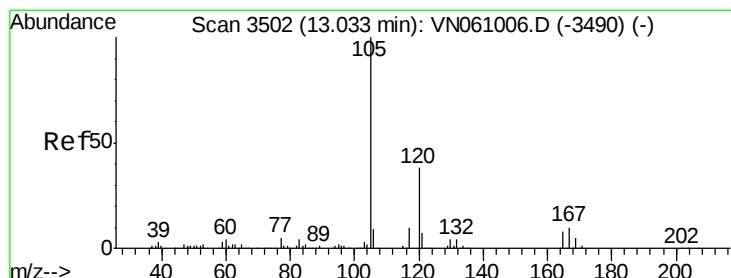
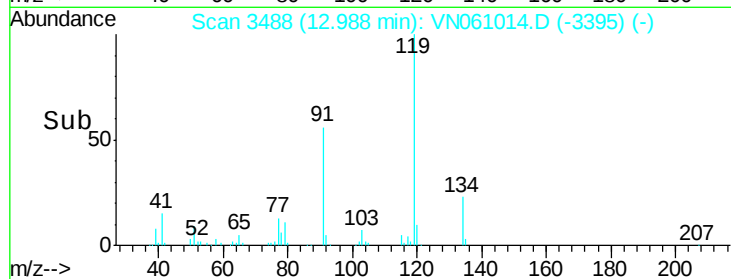
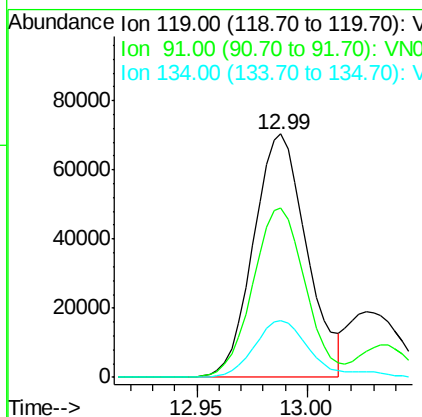
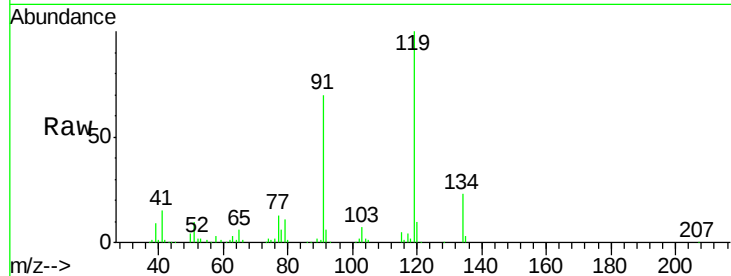
#83
tert-Butylbenzene
Concen: 18.973 ug/l
RT: 12.99 min Scan# 3488
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	117920		
91	68.8	34.1	102.3	
134	23.6	12.4	37.2	

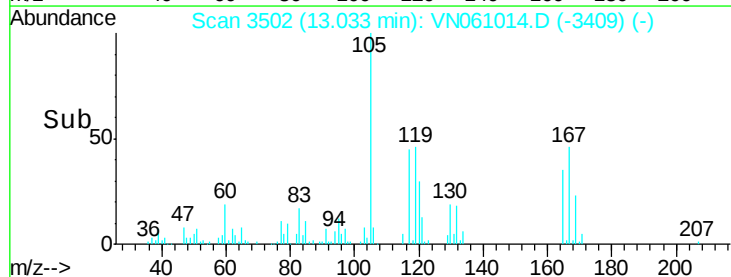
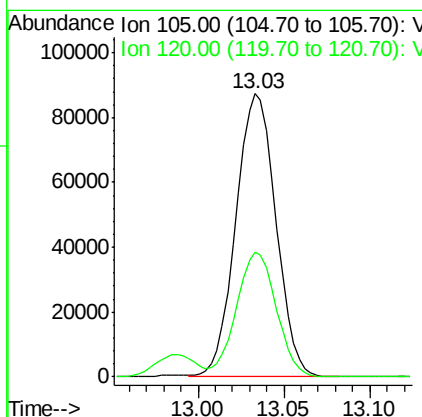
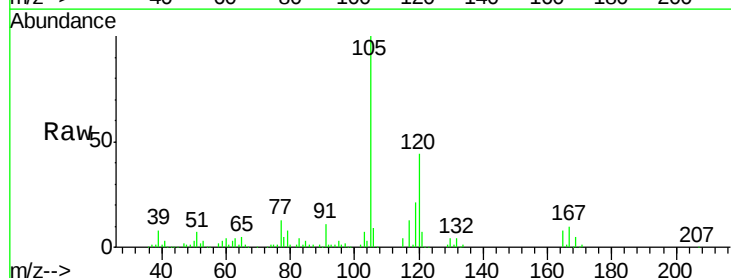
Manual Integrations
APPROVED

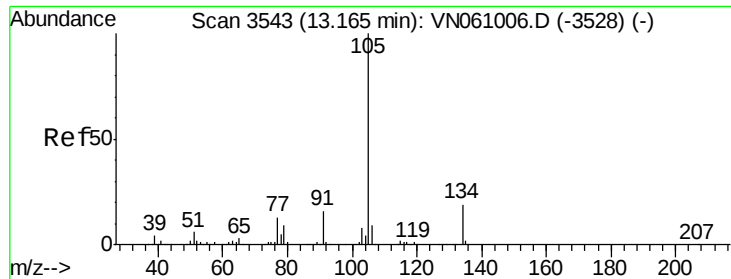
MMDadoda
4/17/2020 11:53:34 AM



#84
1,2,4-Trimethylbenzene
Concen: 19.394 ug/l
RT: 13.03 min Scan# 3502
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	141680		
120	43.9	22.1	66.5	





#85

sec-Butylbenzene

Concen: 18.872 ug/l

RT: 13.16 min Scan# 3543

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tot Ion:105 Resp: 158927

Ion Ratio Lower Upper

105 100

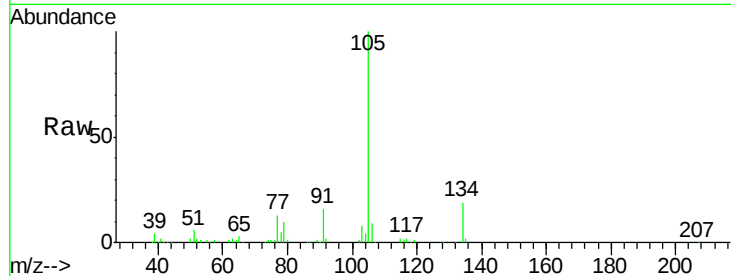
134 19.2 9.5 28.5

Manual Integrations

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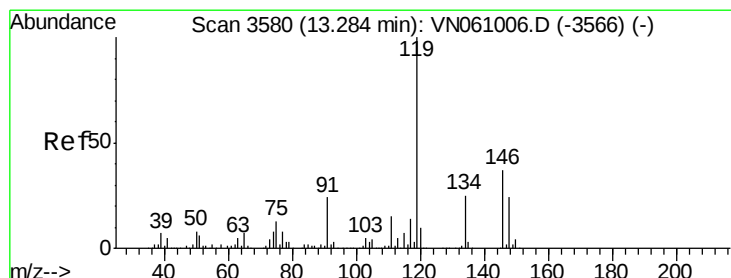
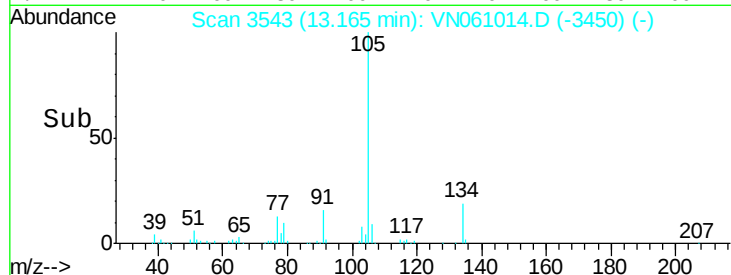
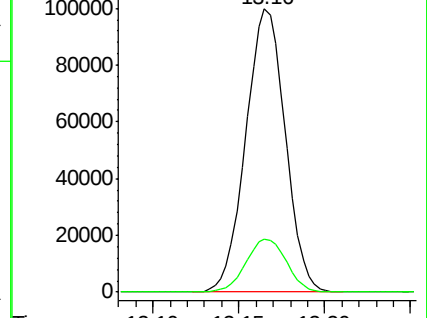
MMDadoda

4/17/2020 11:53:34 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 19.033 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN061014.D

Acq: 16 Apr 2020 16:18

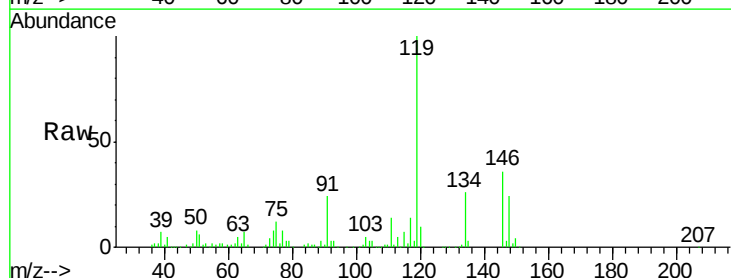
Tgt Ion:119 Resp: 142726

Ion Ratio Lower Upper

119 100

134 25.5 12.8 38.4

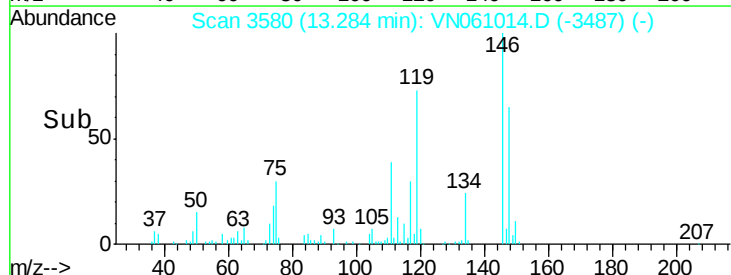
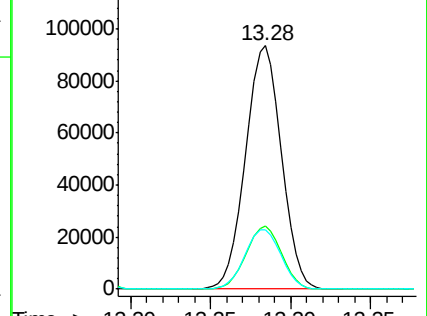
91 24.7 12.3 36.8

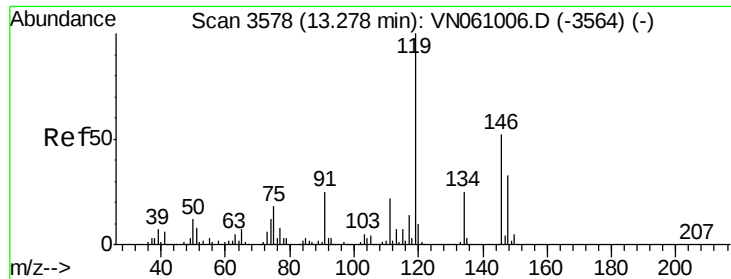


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





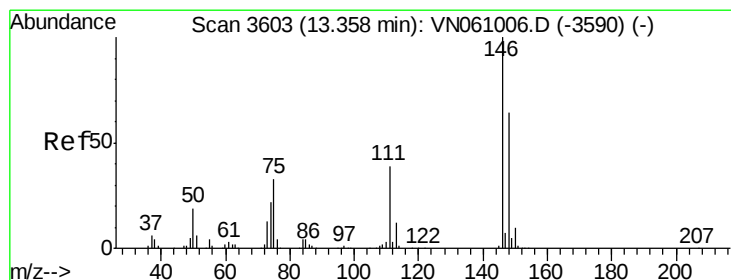
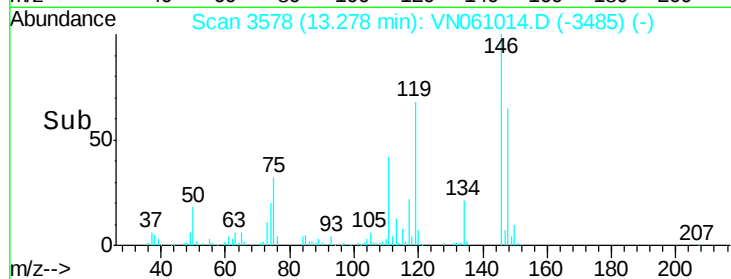
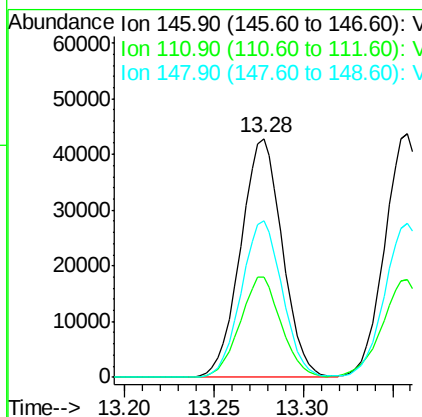
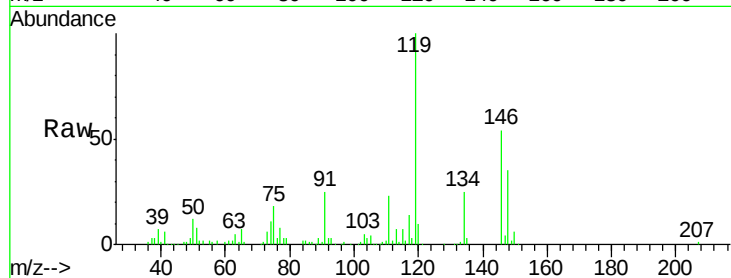
#87
 1,3-Dichlorobenzene
 Concen: 18.828 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.6	61.8
148	64.5	31.8	95.3

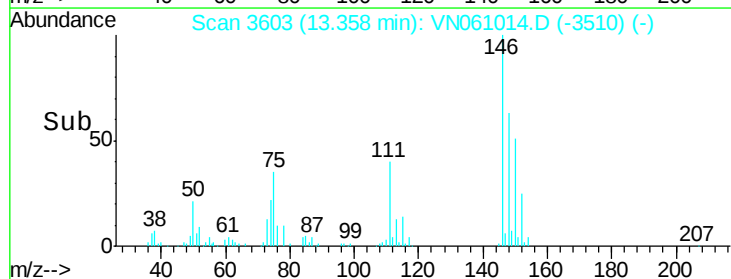
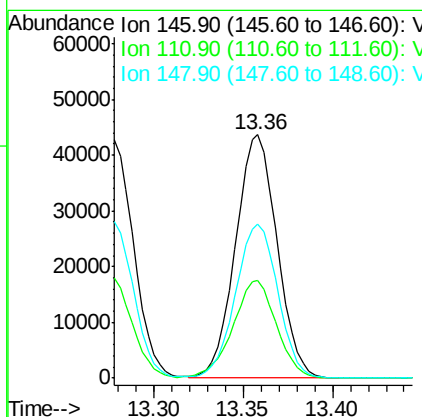
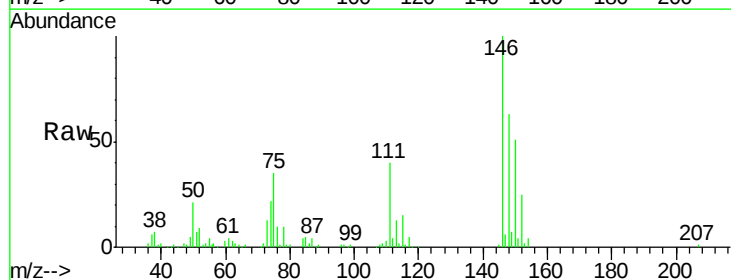
Manual Integrations
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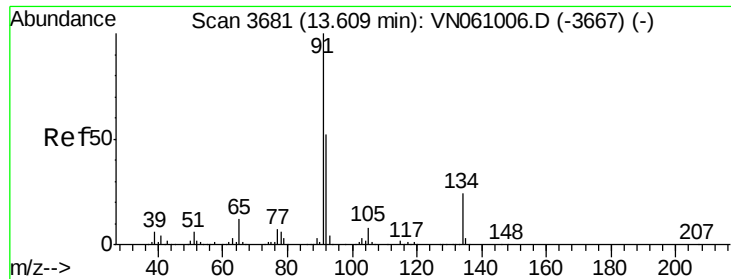
MMDadoda
 4/17/2020 11:53:34 AM



#88
 1,4-Dichlorobenzene
 Concen: 18.952 ug/l
 RT: 13.36 min Scan# 3603
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.1	60.3
148	64.3	32.1	96.3





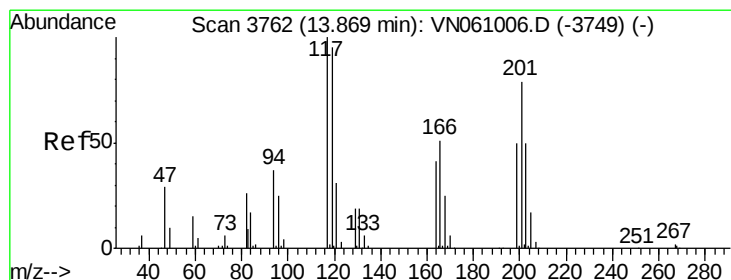
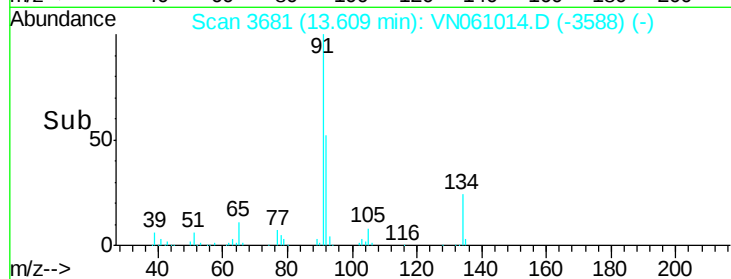
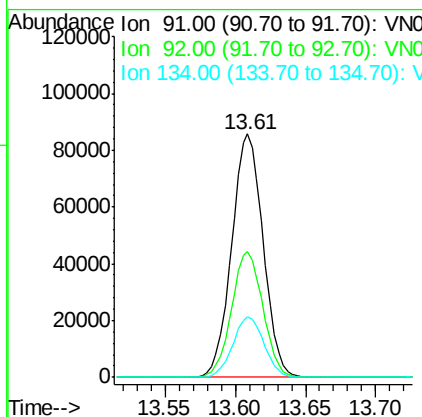
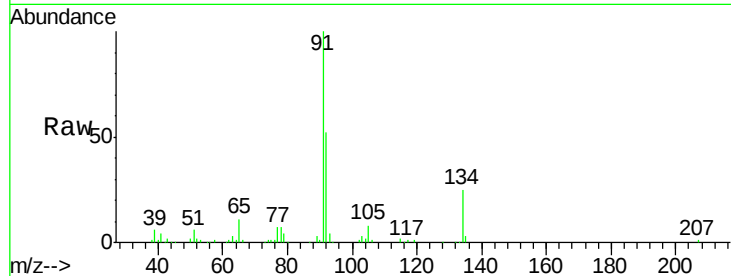
#89
n-Butylbenzene
Concen: 19.175 ug/l
RT: 13.61 min Scan# 3681
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.4	26.1	78.2
134	24.6	12.3	36.8

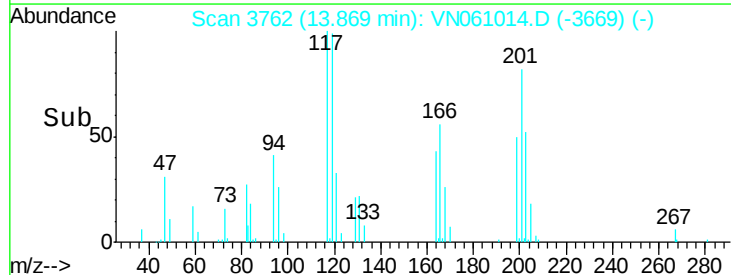
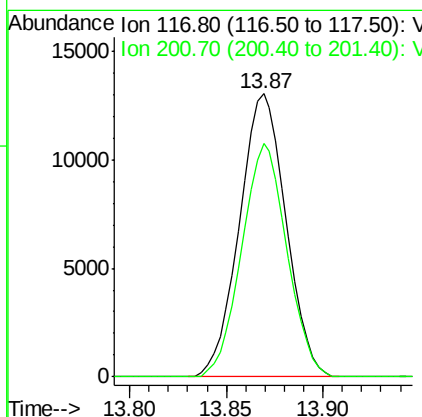
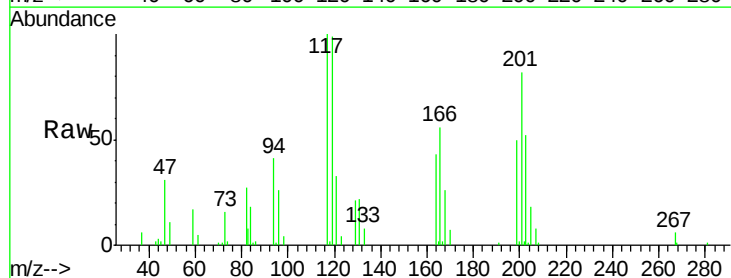
Manual Integrations
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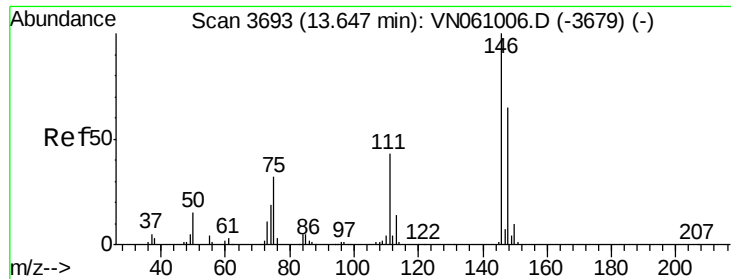
MMDadoda
4/17/2020 11:53:34 AM



#90
Hexachloroethane
Concen: 18.943 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Lower	Upper
117	100		
201	79.9	39.3	117.9





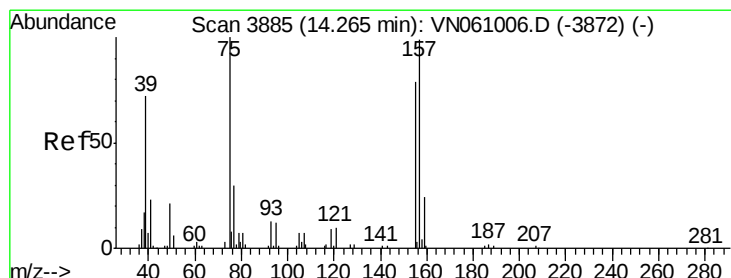
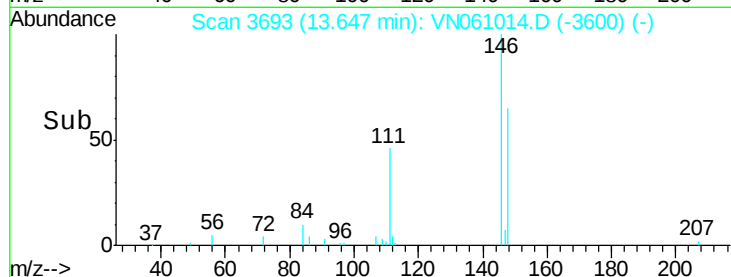
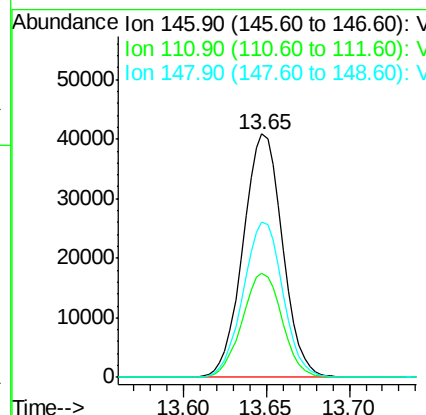
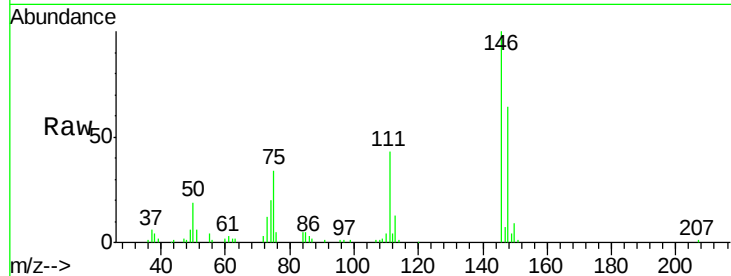
#91
 1,2-Dichlorobenzene
 Concen: 19.097 ug/l
 RT: 13.65 min Scan# 3693
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.3	64.0
148	64.0	32.0	96.0

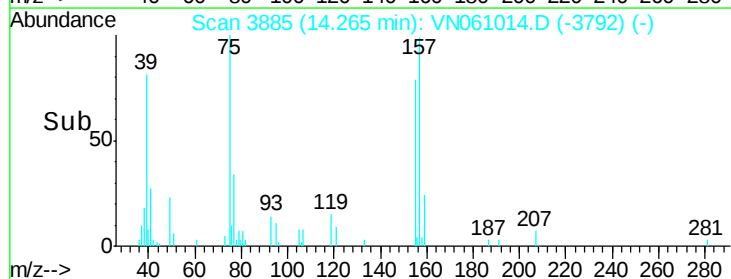
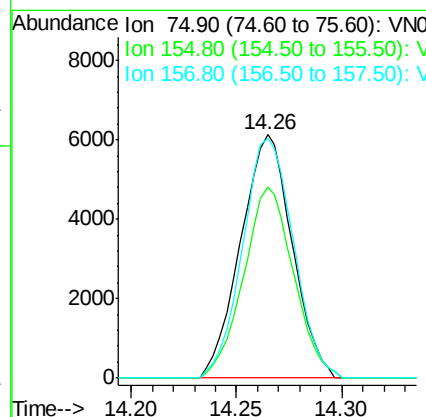
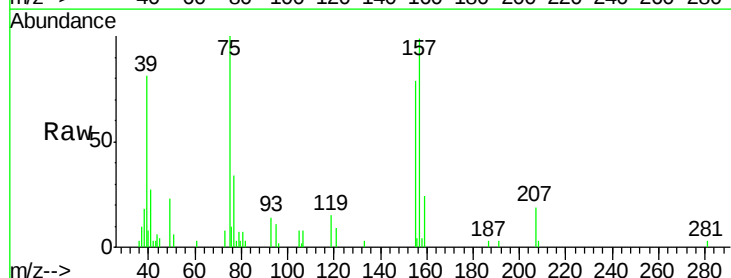
Manual Integrations
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MMDadoda
 4/17/2020 11:53:34 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.662 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Lower	Upper
75	100		
155	76.4	39.5	118.5
157	97.3	50.1	150.4





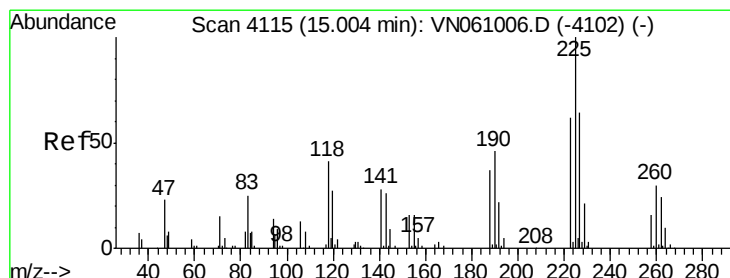
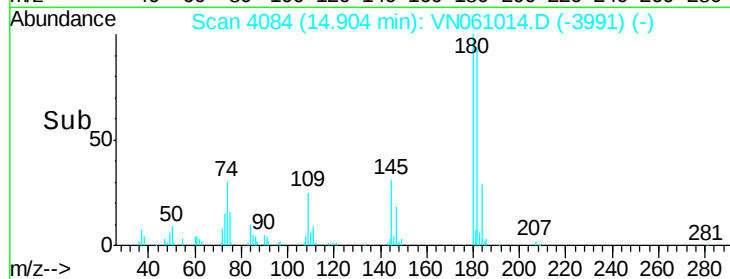
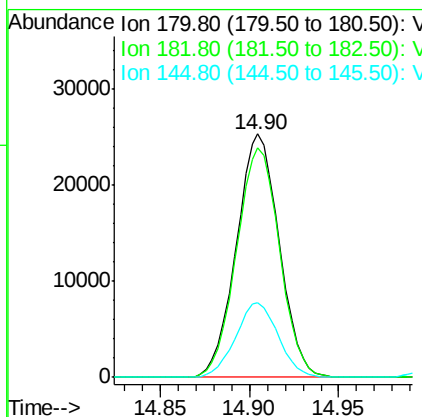
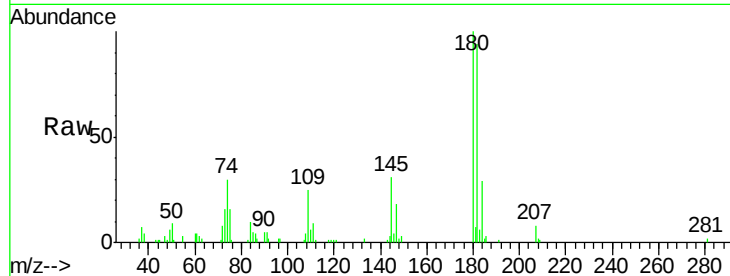
#93
 1,2,4-Trichlorobenzene
 Concen: 20.093 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	42228		
182	94.7		47.8	143.3
145	30.4		15.3	45.8

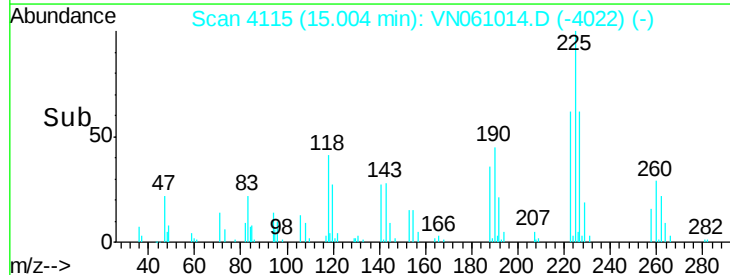
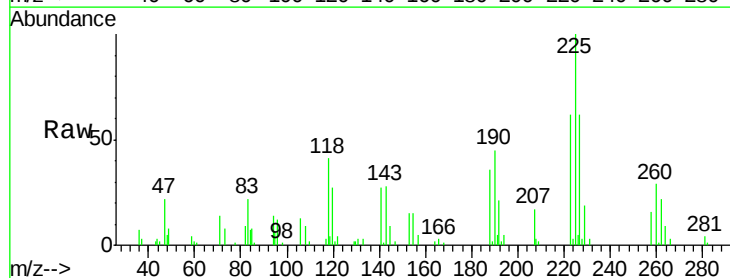
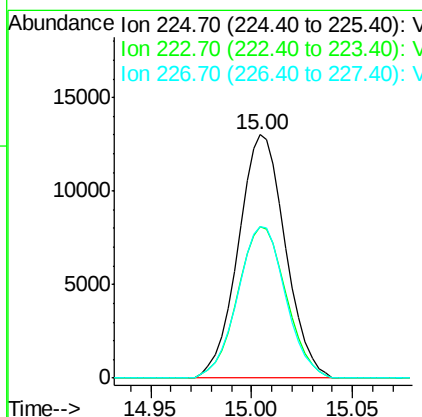
Manual Integrations
 APPROVED

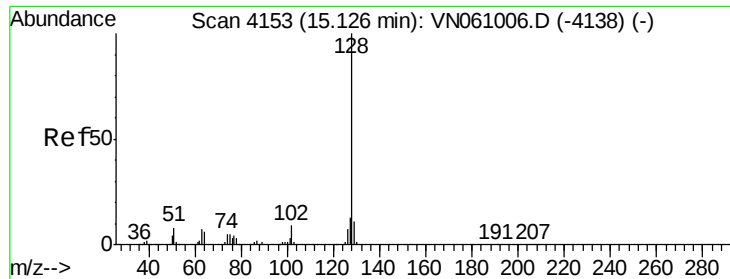
MMDadoda
 4/17/2020 11:53:34 AM



#94
 Hexachlorobutadiene
 Concen: 19.648 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN061014.D
 Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	21242		
223	63.9		31.3	93.8
227	63.2		31.9	95.5





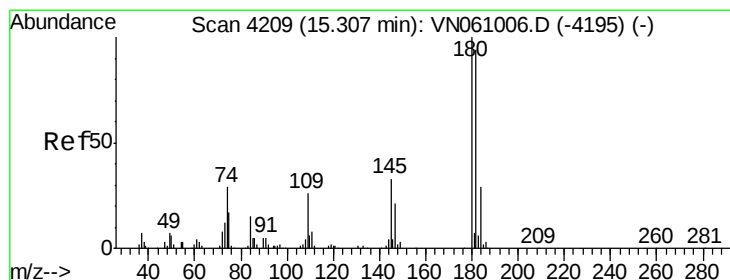
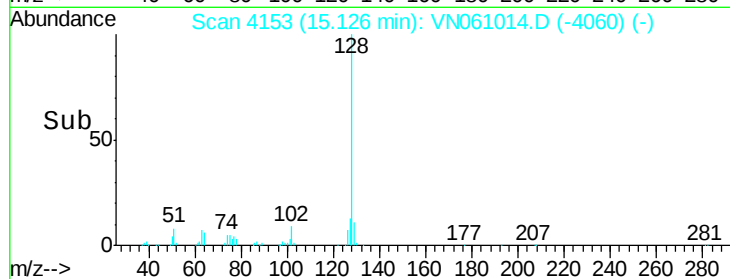
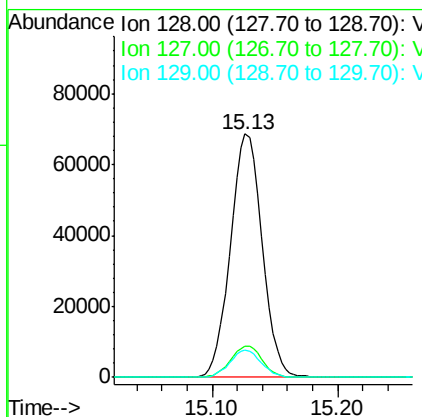
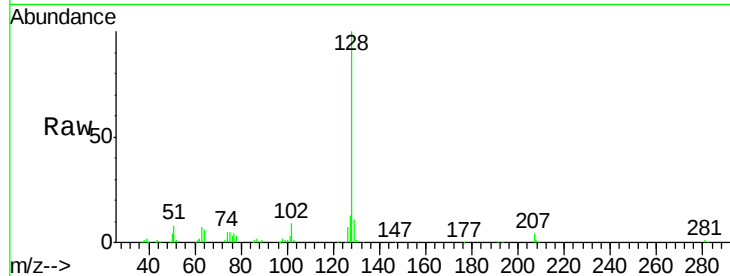
#95
Naphthalene
Concen: 19.682 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
4/17/2020 11:53:34 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.075 ug/l
RT: 15.31 min Scan# 4210
Delta R.T. 0.00 min
Lab File: VN061014.D
Acq: 16 Apr 2020 16:18

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.6	142.8
145	33.1	16.4	49.2

