

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022020\
 Data File : VN060171.D
 Acq On : 20 Feb 2020 14:48
 Operator : JC/MD
 Sample : VN0220MBSD01
 Misc : 5.00µg/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 9:15:04 AM

Quant Time: Feb 21 03:14:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	205140	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	320607	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	301410	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145106	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	127330	51.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.02%	
35) Dibromofluoromethane	7.56	113	99320	50.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.80%	
50) Toluene-d8	10.08	98	378508	48.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.54%	
62) 4-Bromofluorobenzene	12.40	95	139555	48.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.88%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.83	85	35704	17.412	ug/l 99
3) Chloromethane	2.04	50	42554	17.439	ug/l 100
4) Vinyl Chloride	2.17	62	47306	17.008	ug/l 100
5) Bromomethane	2.55	94	32183	18.870	ug/l 98
6) Chloroethane	2.69	64	26008	18.487	ug/l 96
7) Trichlorofluoromethane	3.00	101	64793	18.068	ug/l 99
8) Diethyl Ether	3.38	74	24148	20.229	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	36635	18.401	ug/l 98
10) Methyl Iodide	3.93	142	48003	19.537	ug/l 98
11) Tert butyl alcohol	4.73	59	37071	99.241	ug/l 100
12) 1,1-Dichloroethene	3.72	96	35600	18.355	ug/l 98
13) Acrolein	3.58	56	30805	83.431	ug/l 96
14) Allyl chloride	4.29	41	54721	19.169	ug/l 92
15) Acrylonitrile	4.94	53	91621	100.435	ug/l 99
16) Acetone	3.78	43	83597	76.777	ug/l 100
17) Carbon Disulfide	4.03	76	98685	16.881	ug/l 97
18) Methyl Acetate	4.29	43	43042	21.044	ug/l 99
19) Methyl tert-butyl Ether	5.00	73	127567	19.558	ug/l 99
20) Methylene Chloride	4.52	84	41621	19.160	ug/l 98
21) trans-1,2-Dichloroethene	5.01	96	39072	18.481	ug/l 100
22) Diisopropyl ether	5.91	45	122325	19.552	ug/l 99
23) Vinyl Acetate	5.86	43	513071	97.656	ug/l 98
24) 1,1-Dichloroethane	5.82	63	71179	18.781	ug/l 99
25) 2-Butanone	6.80	43	123538	90.213	ug/l 97
26) 2,2-Dichloropropane	6.80	77	64537	17.928	ug/l 100
27) cis-1,2-Dichloroethene	6.80	96	45114	18.233	ug/l 100
28) Bromochloromethane	7.17	49	30223	20.284	ug/l 98
29) Tetrahydrofuran	7.18	42	82431	98.121	ug/l 98
30) Chloroform	7.35	83	74271	18.708	ug/l 98
31) Cyclohexane	7.63	56	64130	18.165	ug/l 96
32) 1,1,1-Trichloroethane	7.54	97	66581	18.352	ug/l 100
36) 1,1-Dichloropropene	7.77	75	54229	18.261	ug/l 99
37) Ethyl Acetate	6.90	43	53231	19.834	ug/l 100
38) Carbon Tetrachloride	7.75	117	57717	17.896	ug/l 99

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MMDadoda
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 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.06	83	65509	17.771	ug/l	97
40) Benzene	8.02	78	161067	18.284	ug/l	99
41) Methacrylonitrile	7.15	41	23209m	20.621	ug/l	
42) 1,2-Dichloroethane	8.10	62	59747	19.352	ug/l	99
43) Isopropyl Acetate	8.14	43	90237	19.669	ug/l	99
44) Trichloroethene	8.82	130	43923	18.008	ug/l	96
45) 1,2-Dichloropropane	9.10	63	42780	19.616	ug/l	98
46) Dibromomethane	9.19	93	29267	18.990	ug/l	98
47) Bromodichloromethane	9.39	83	58374	18.630	ug/l	98
48) Methyl methacrylate	9.18	41	38238	18.577	ug/l	99
49) 1,4-Dioxane	9.18	88	15000	426.506	ug/l	99
51) 4-Methyl-2-Pentanone	9.97	43	256157	96.463	ug/l	100
52) Toluene	10.14	92	105487	18.674	ug/l	98
53) t-1,3-Dichloropropene	10.37	75	67167	18.991	ug/l	99
54) cis-1,3-Dichloropropene	9.82	75	70257	18.865	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	41576	18.866	ug/l	98
56) Ethyl methacrylate	10.42	69	58843	18.875	ug/l	98
57) 1,3-Dichloropropane	10.70	76	69177	19.024	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.68	63	146081	100.583	ug/l	99
59) 2-Hexanone	10.74	43	187701	91.504	ug/l	99
60) Dibromochloromethane	10.89	129	45770	18.099	ug/l	97
61) 1,2-Dibromoethane	10.99	107	43037	18.629	ug/l	99
64) Tetrachloroethene	10.62	164	41449	18.090	ug/l	99
65) Chlorobenzene	11.43	112	111152	18.101	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.50	131	42222	18.175	ug/l	97
67) Ethyl Benzene	11.50	91	201793	18.220	ug/l	99
68) m/p-Xylenes	11.62	106	152172	36.608	ug/l	100
69) o-Xylene	11.94	106	72796	18.189	ug/l	98
70) Styrene	11.96	104	114662	17.766	ug/l	100
71) Bromoform	12.12	173	33819	18.100	ug/l #	98
73) Isopropylbenzene	12.25	105	194801	17.978	ug/l	99
74) N-amyl acetate	12.07	43	74874	19.162	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	58711	18.824	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	53152m	19.146	ug/l	
77) Bromobenzene	12.52	156	51982	19.331	ug/l	96
78) n-propylbenzene	12.59	91	223464	18.101	ug/l	99
79) 2-Chlorotoluene	12.67	91	131067	18.062	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	164059	18.210	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.29	75	20747	18.298	ug/l	99
82) 4-Chlorotoluene	12.77	91	134433	18.057	ug/l	100
83) tert-Butylbenzene	12.99	119	139829	17.545	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	165749	18.637	ug/l	99
85) sec-Butylbenzene	13.17	105	185580	17.582	ug/l	99
86) p-Isopropyltoluene	13.28	119	169272	17.700	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	86450	18.162	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	86835	18.246	ug/l	98
89) n-Butylbenzene	13.61	91	150807	17.929	ug/l	99
90) Hexachloroethane	13.87	117	30970	17.335	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	86160	18.496	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	12399	18.206	ug/l	99

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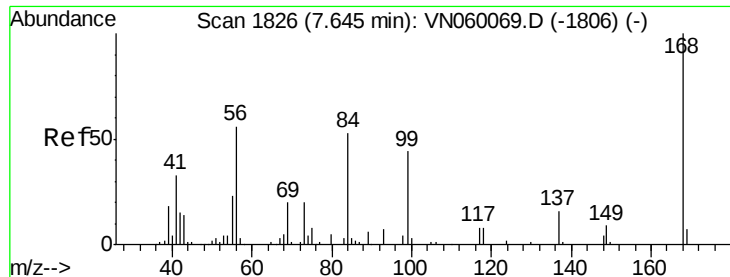
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
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QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.90	180	52456	19.165	ug/l	99
94) Hexachlorobutadiene	15.01	225	28139	17.561	ug/l	98
95) Naphthalene	15.13	128	146781	19.852	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	52037	19.091	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBSD01

Tot Ion:168 Resp: 205140

Ion Ratio Lower Upper

168 100

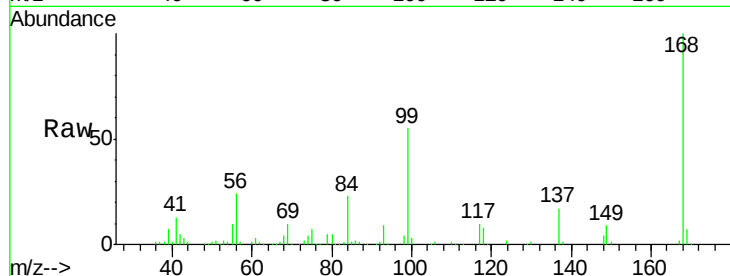
99 55.0 42.7 64.1

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

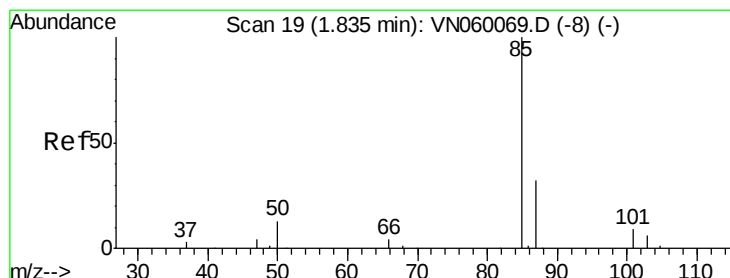
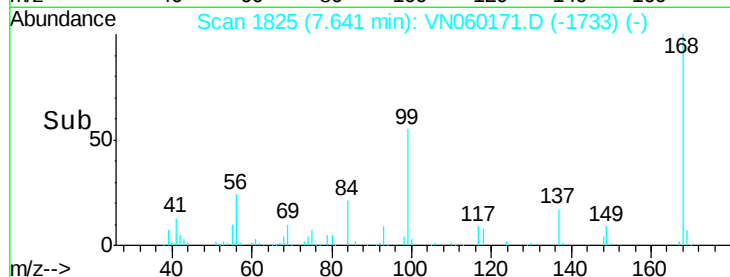
40000

20000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 17.412 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN060171.D

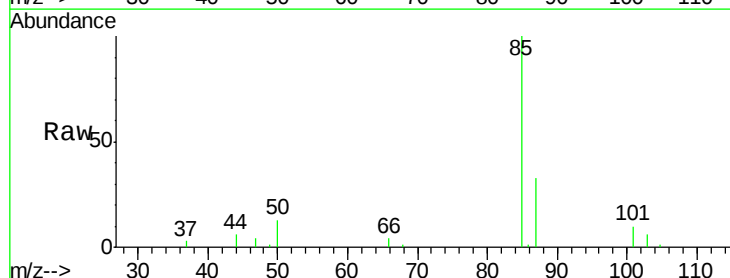
Acq: 20 Feb 2020 14:48

Tgt Ion: 85 Resp: 35704

Ion Ratio Lower Upper

85 100

87 32.9 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.83

30000

25000

20000

15000

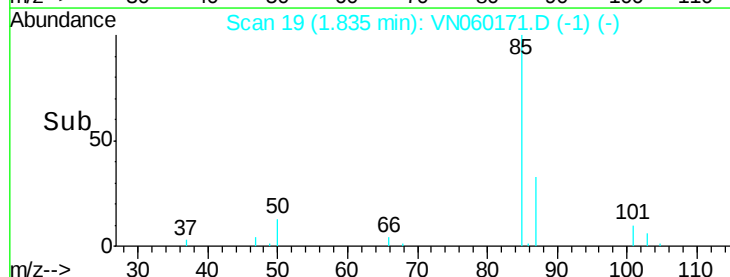
10000

5000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 17.439 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampled :

VN0220MBSD01

Tot Ion: 50 Resp: 42554

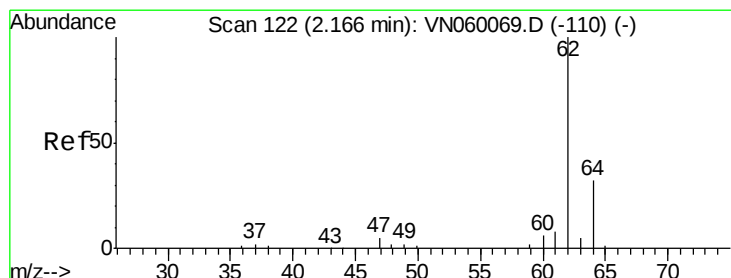
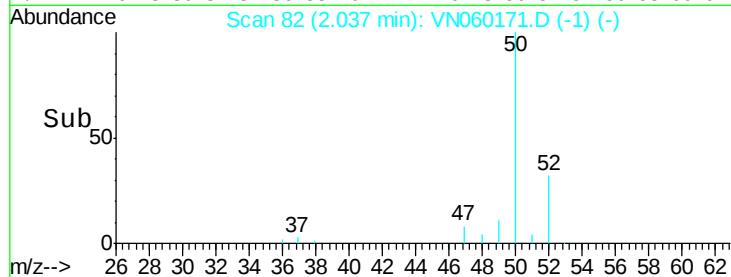
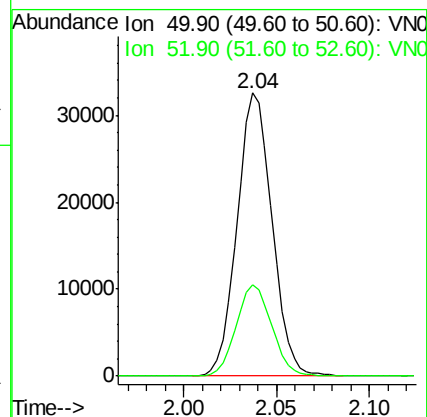
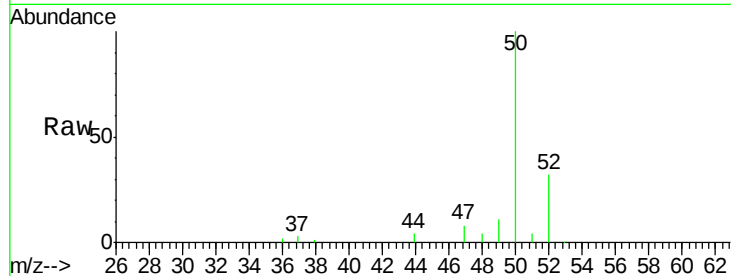
Ion Ratio Lower Upper

50 100

52 32.2 25.6 38.4

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#4

Vinyl Chloride

Concen: 17.008 ug/l

RT: 2.17 min Scan# 122

Delta R.T. 0.00 min

Lab File: VN060171.D

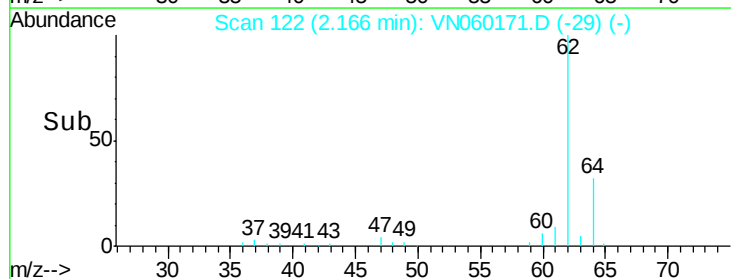
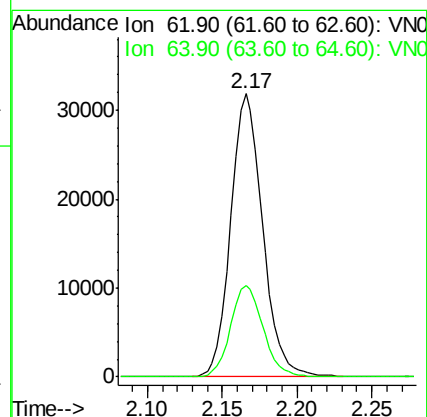
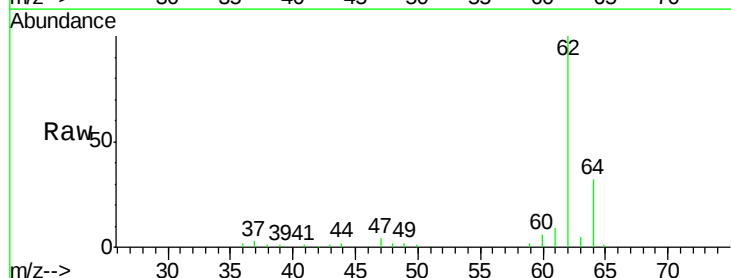
Acq: 20 Feb 2020 14:48

Tgt Ion: 62 Resp: 47306

Ion Ratio Lower Upper

62 100

64 32.5 25.9 38.9





#5

Bromomethane

Concen: 18.870 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBSD01

Tot Ion: 94 Resp: 32183

Ion Ratio Lower Upper

94 100

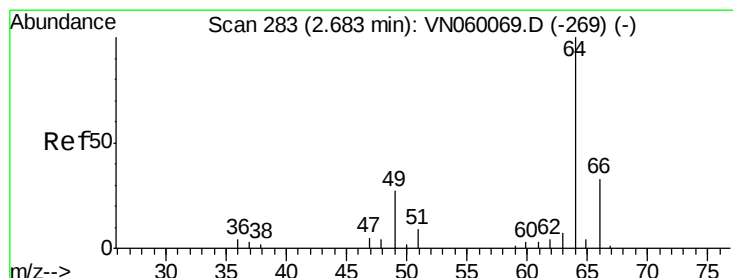
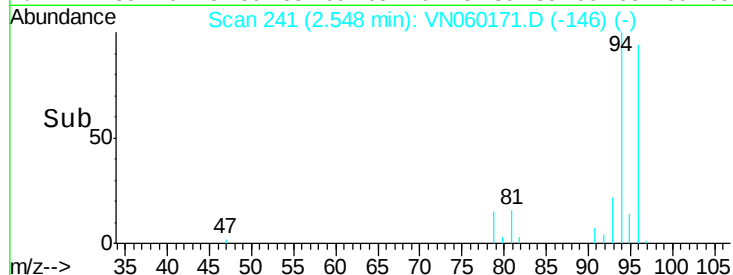
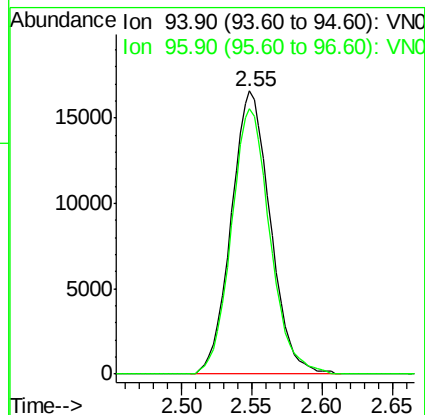
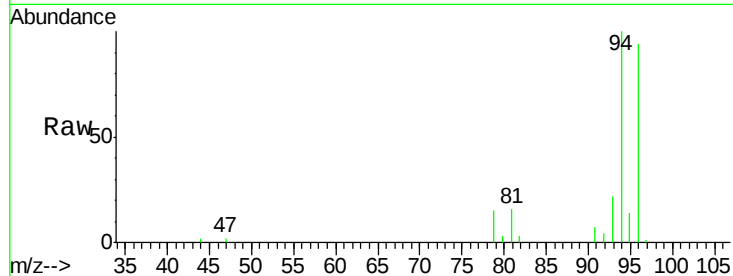
96 93.9 76.7 115.1

Manual Integrations

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#6

Chloroethane

Concen: 18.487 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN060171.D

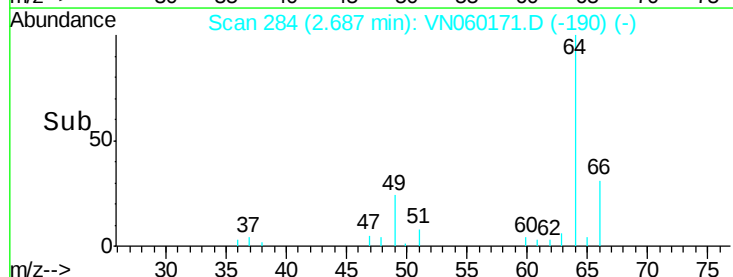
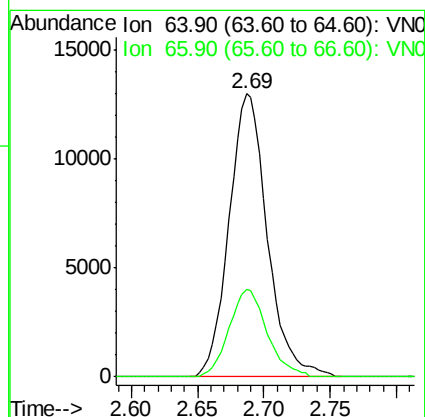
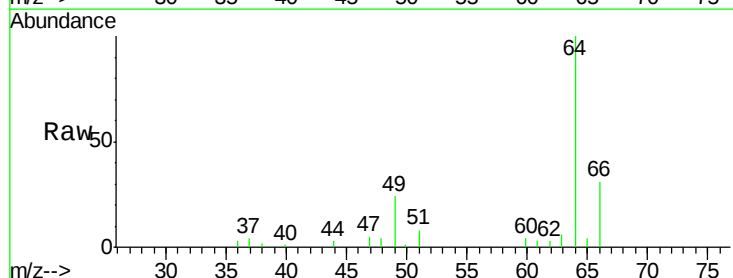
Acq: 20 Feb 2020 14:48

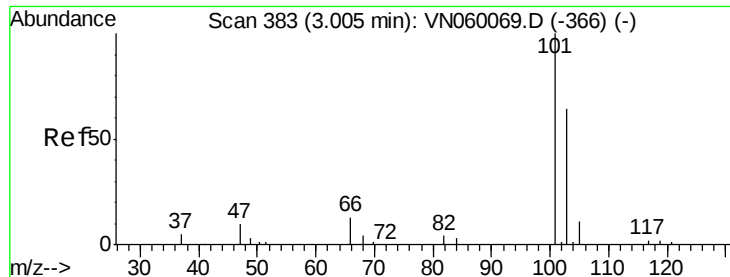
Tgt Ion: 64 Resp: 26008

Ion Ratio Lower Upper

64 100

66 30.9 26.6 40.0





#7

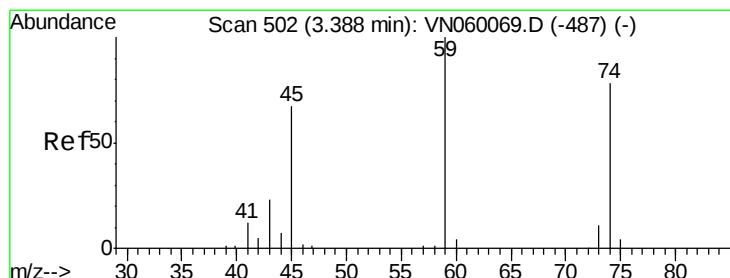
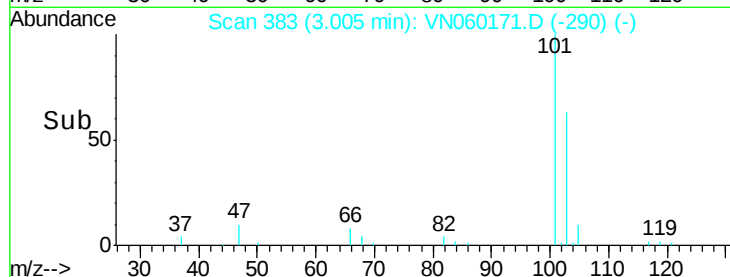
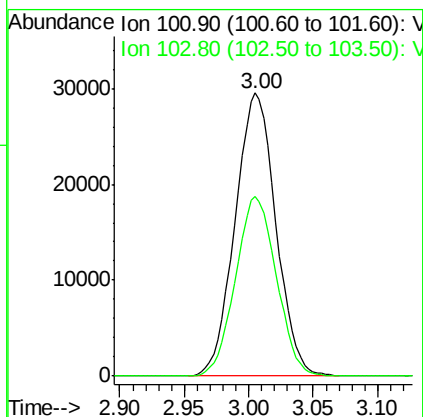
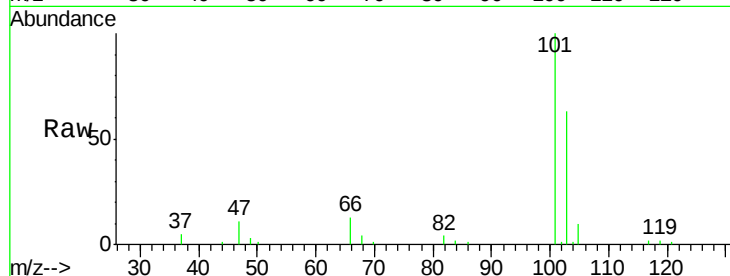
Trichlorofluoromethane
Concen: 18.068 ug/l
RT: 3.00 min Scan# 383
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

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Tot Ion:101 Resp: 64793
Ion Ratio Lower Upper
101 100
103 63.4 51.0 76.6

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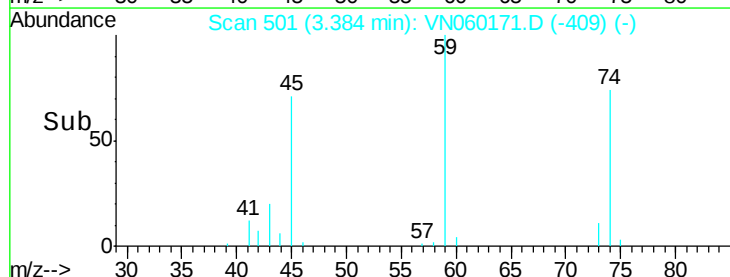
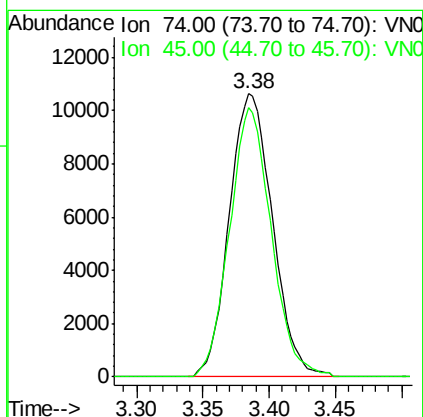
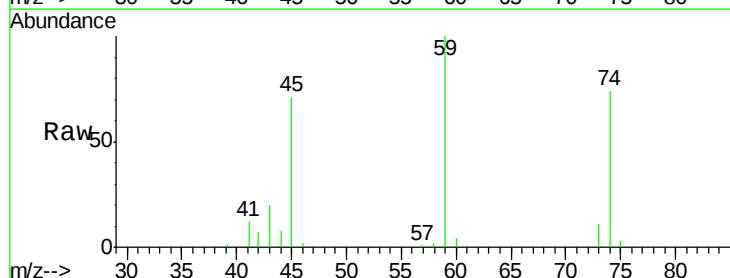
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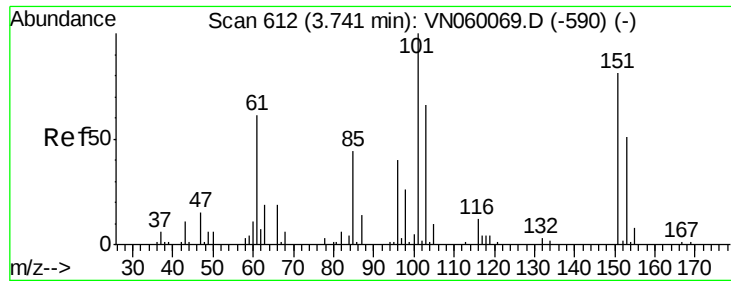


#8

Diethyl Ether
Concen: 20.229 ug/l
RT: 3.38 min Scan# 501
Delta R.T. -0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion: 74 Resp: 24148
Ion Ratio Lower Upper
74 100
45 91.7 44.7 134.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.401 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

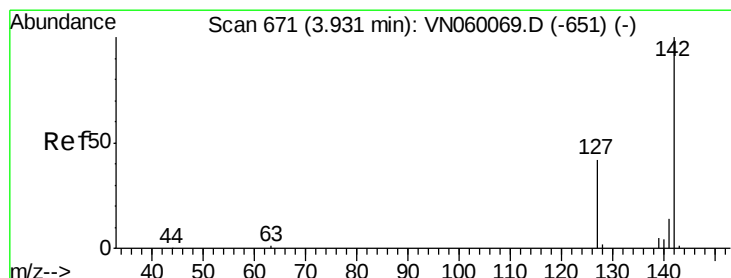
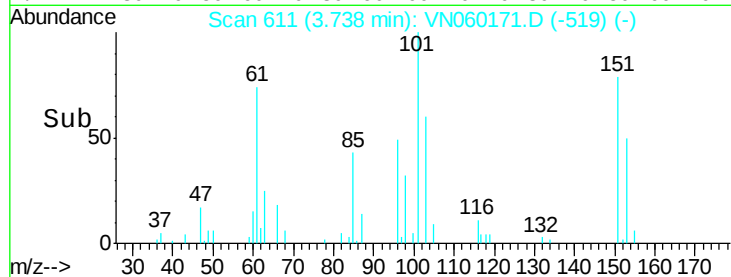
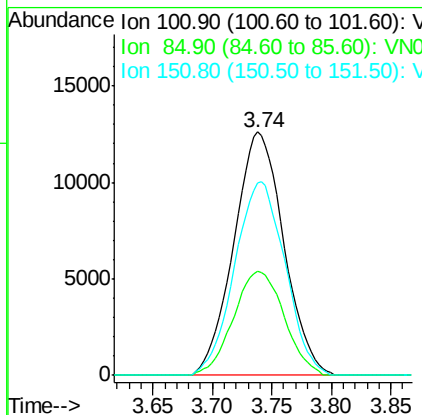
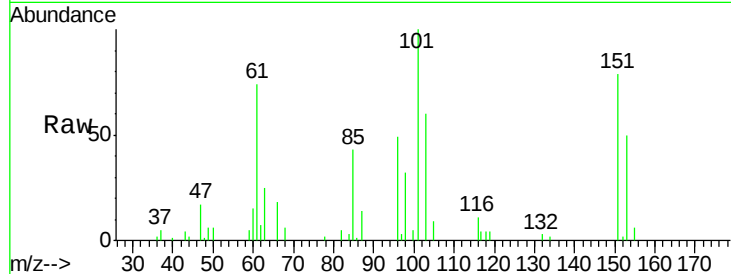
ClientSampleId :

VN0220MBSD01

Tot Ion:	101	Resp:	36635
Ion Ratio	Lower	Upper	
101	100		
85	43.4	35.1	52.7
151	80.5	65.8	98.6

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#10

Methyl Iodide

Concen: 19.537 ug/l

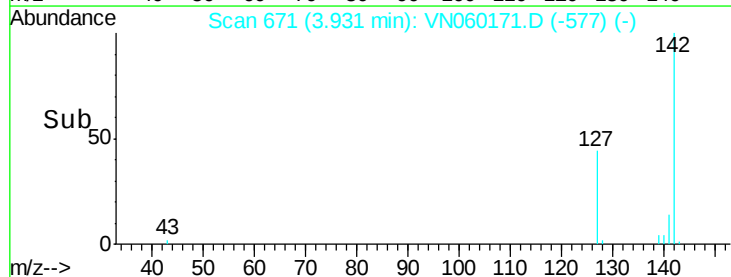
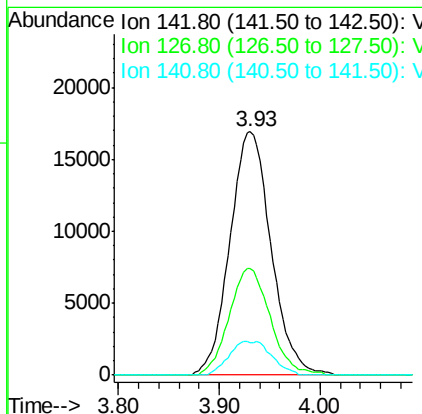
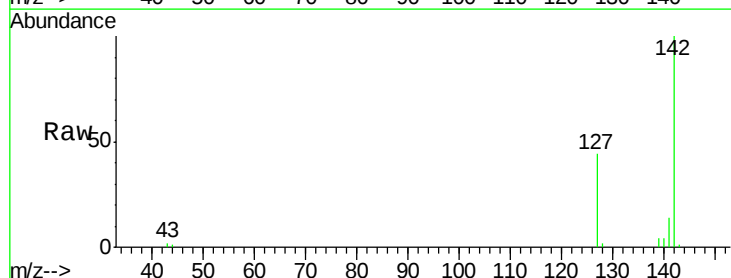
RT: 3.93 min Scan# 671

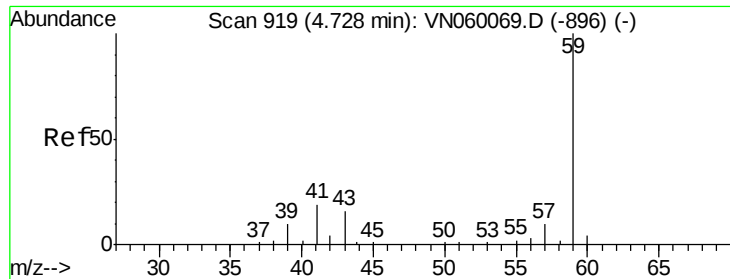
Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Tgt Ion:	142	Resp:	48003
Ion Ratio	Lower	Upper	
142	100		
127	43.6	33.6	50.4
141	14.2	11.4	17.2





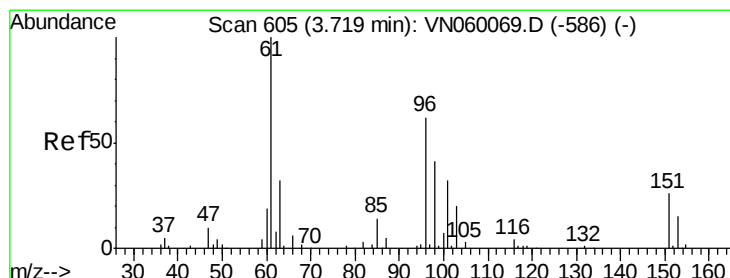
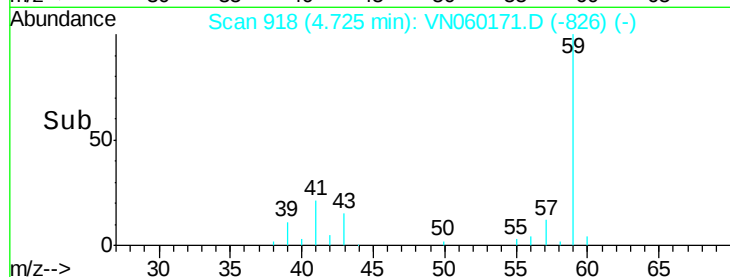
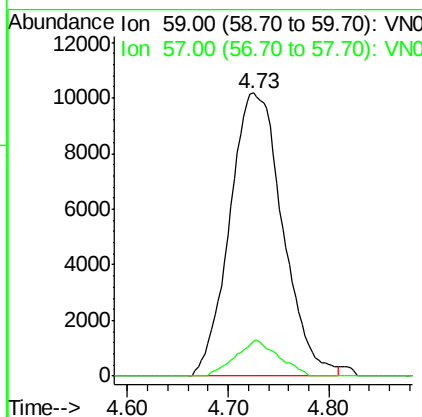
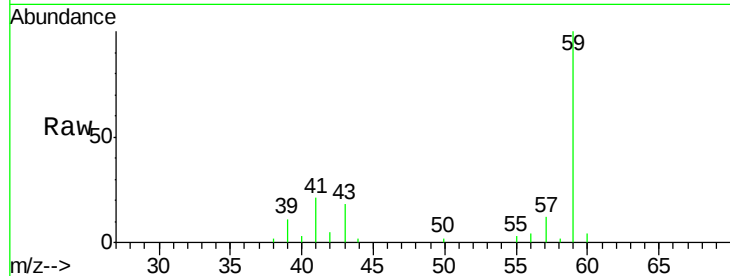
#11
Tert butyl alcohol
Concen: 99.241 ug/l
RT: 4.73 min Scan# 918
Delta R.T. -0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.2	12.4

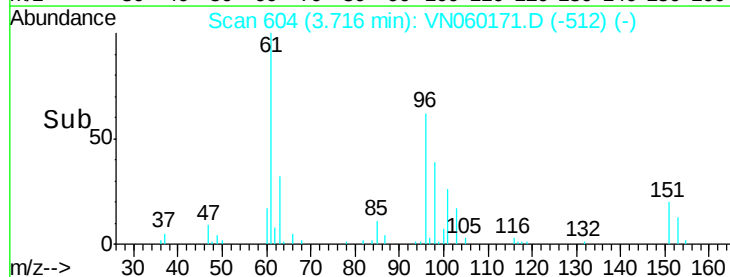
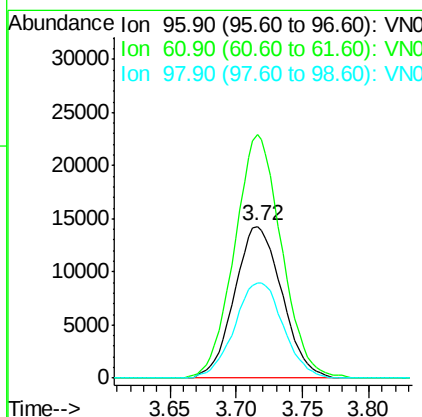
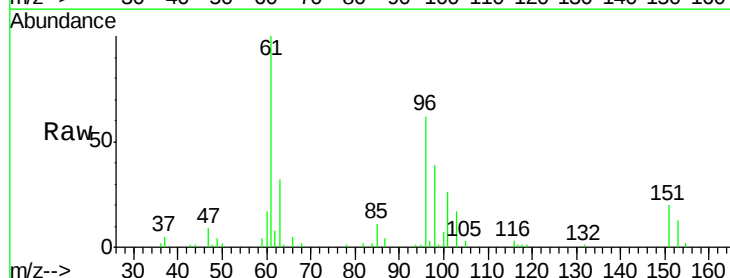
Manual Integrations
APPROVED

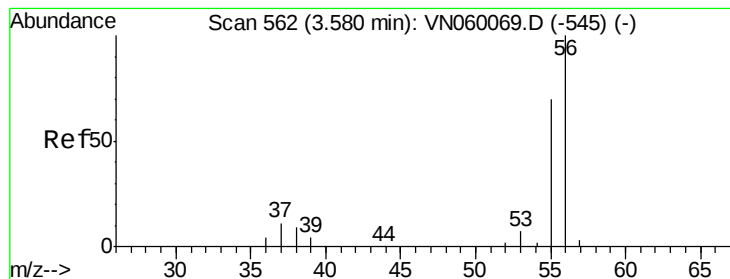
MMDadoda
2/21/2020 9:15:04 AM



#12
1,1-Dichloroethene
Concen: 18.355 ug/l
RT: 3.72 min Scan# 604
Delta R.T. -0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.4	128.3	192.5
98	62.4	52.2	78.4





#13

Acrolein

Concen: 83.431 ug/l

RT: 3.58 min Scan# 561

Delta R.T. -0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBSD01

Tot Ion: 56 Resp: 30805

Ion Ratio Lower Upper

56 100

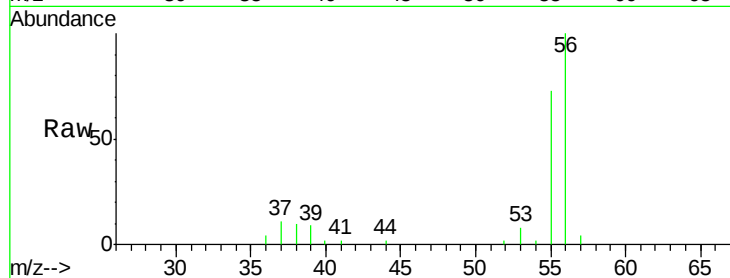
55 71.6 54.8 82.2

Manual Integrations

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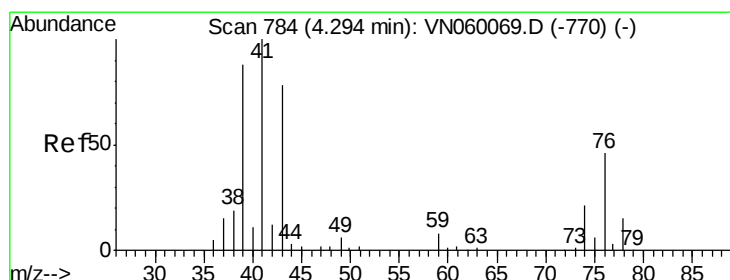
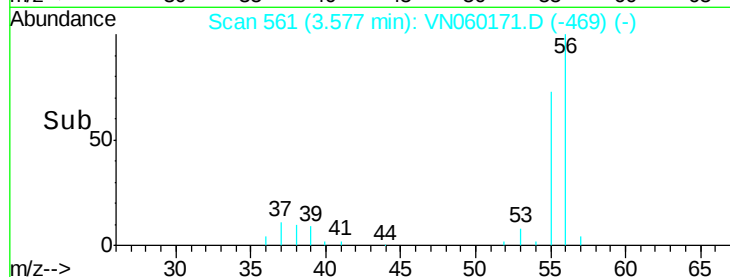
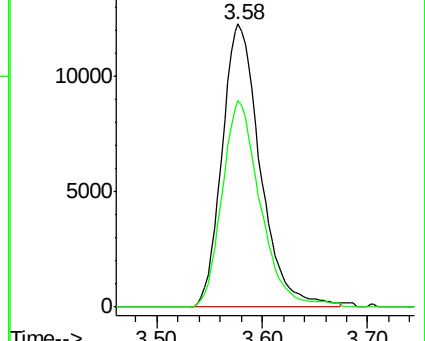
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 19.169 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

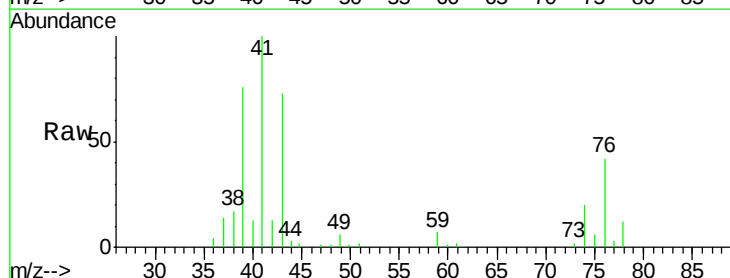
Tgt Ion: 41 Resp: 54721

Ion Ratio Lower Upper

41 100

39 76.2 67.8 101.8

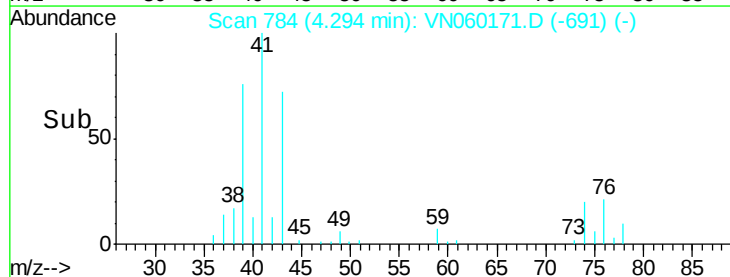
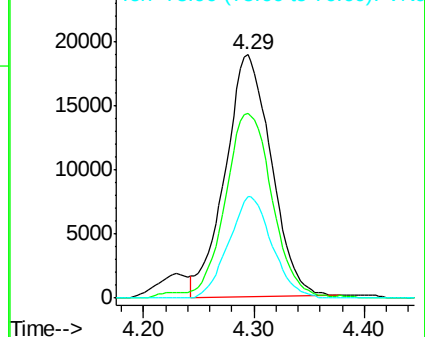
76 39.4 33.9 50.9

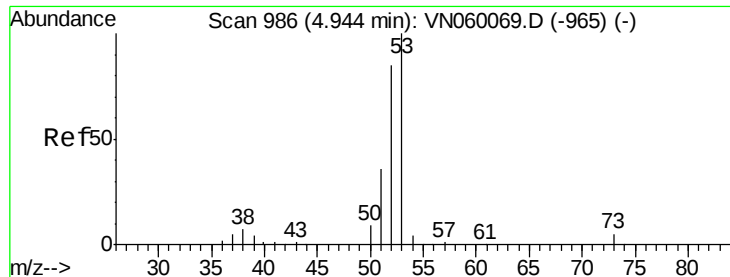


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 100.435 ug/l

RT: 4.94 min Scan# 986

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

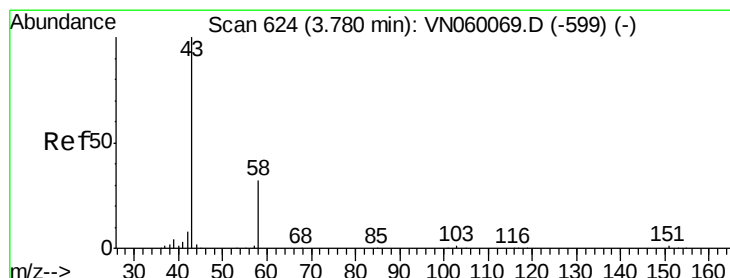
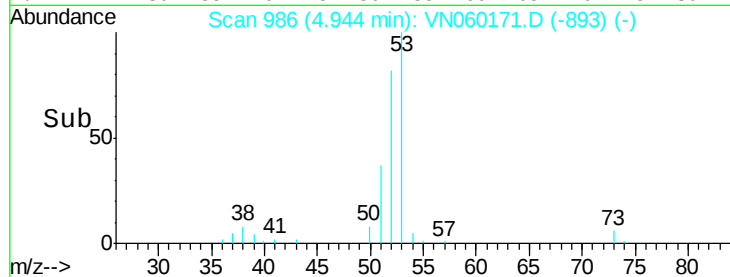
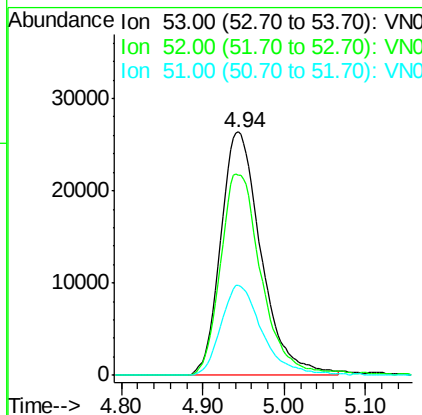
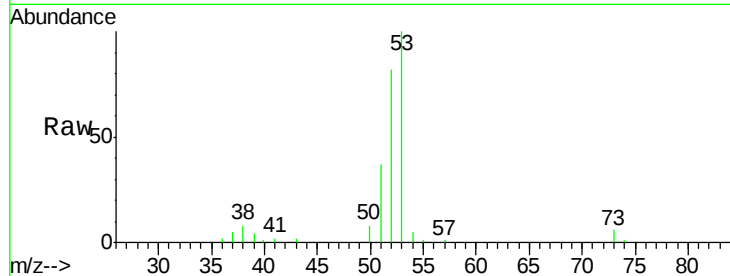
ClientSampled :

VN0220MBSD01

Tot Ion:	53	Resp:	91621
Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.8	100.2
51	37.6	29.4	44.0

Manual Integrations
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#16

Acetone

Concen: 76.777 ug/l

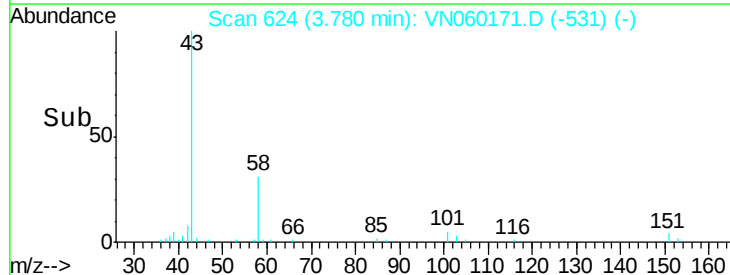
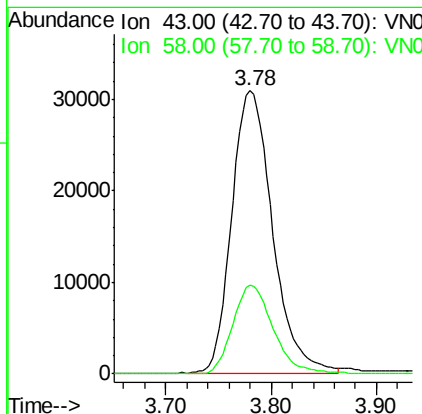
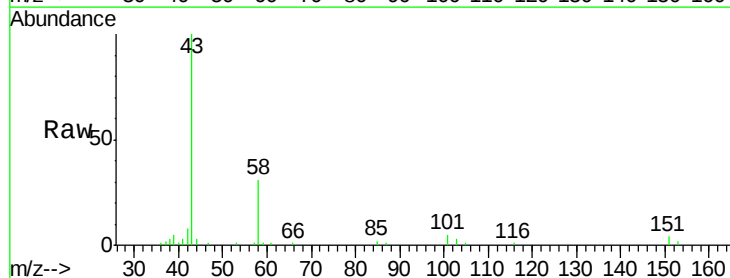
RT: 3.78 min Scan# 624

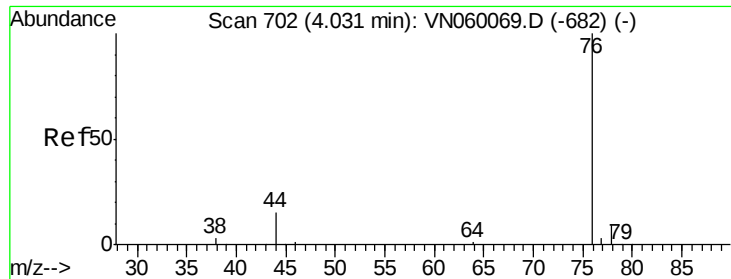
Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Tgt Ion:	43	Resp:	83597
Ion	Ratio	Lower	Upper
43	100		
58	31.4	25.2	37.8





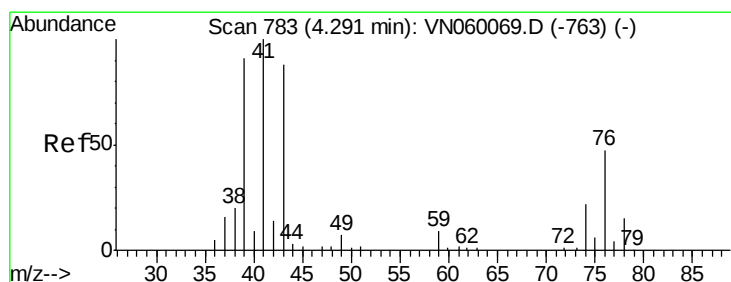
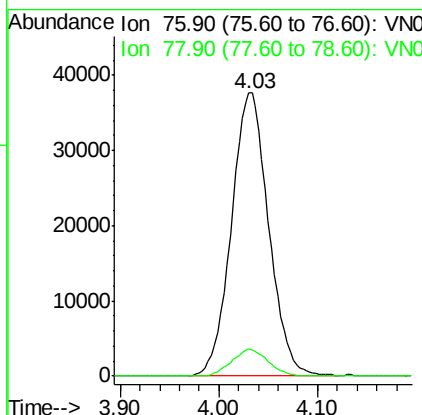
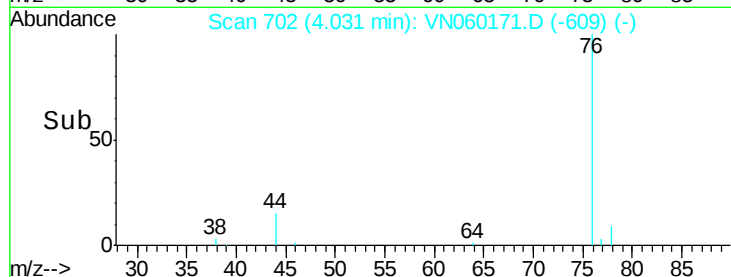
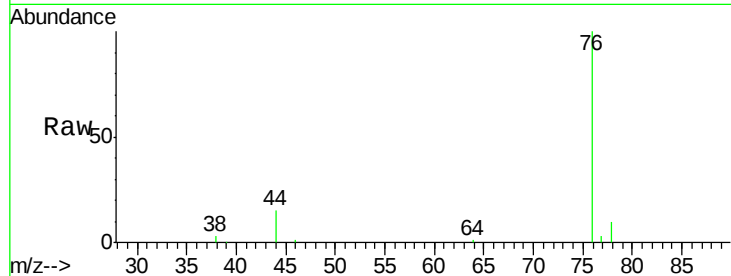
#17
Carbon Disulfide
Concen: 16.881 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.0	10.6

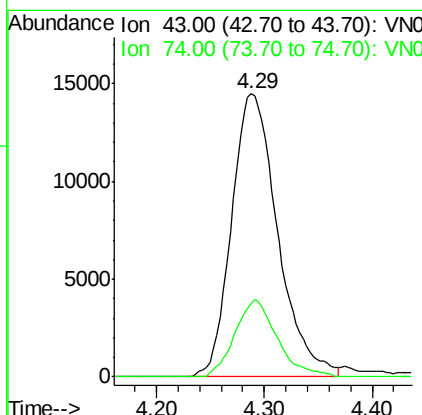
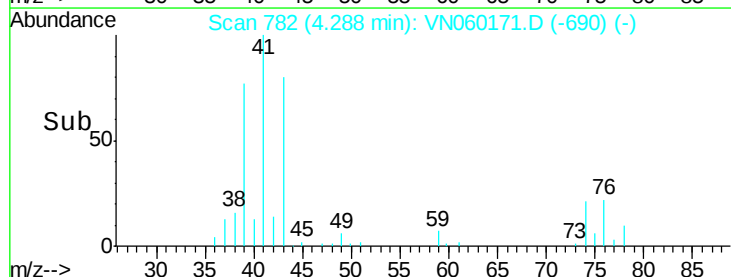
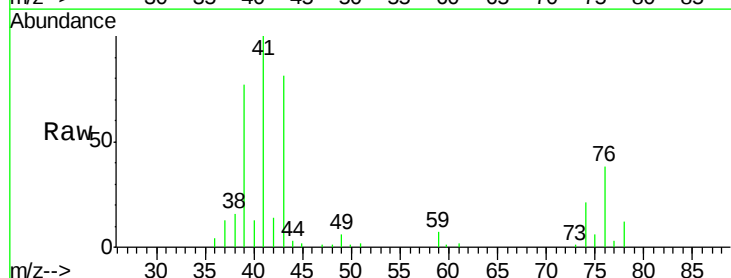
Manual Integrations
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2/21/2020 9:15:04 AM



#18
Methyl Acetate
Concen: 21.044 ug/l
RT: 4.29 min Scan# 782
Delta R.T. -0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.0	20.3	30.5





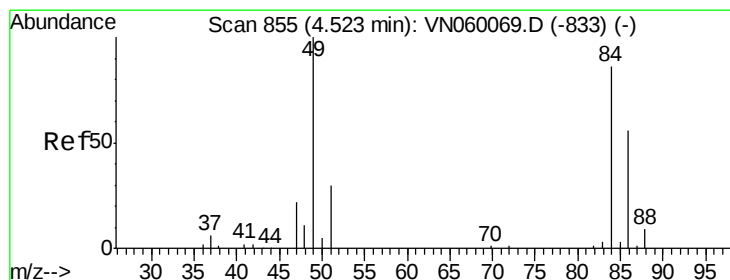
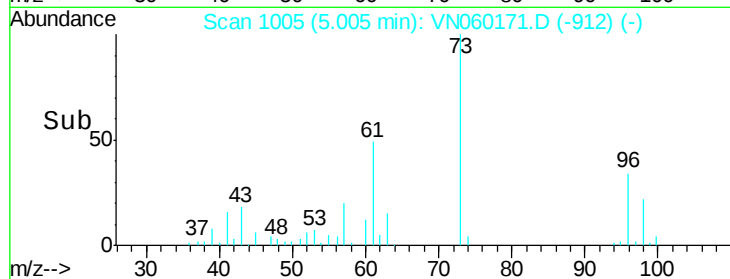
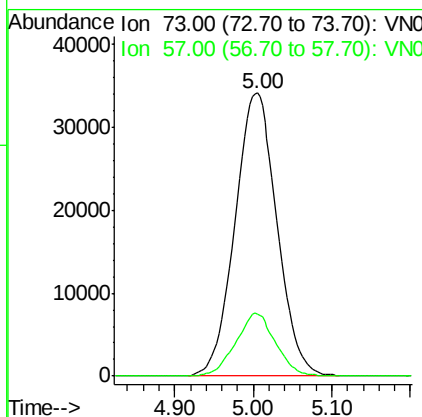
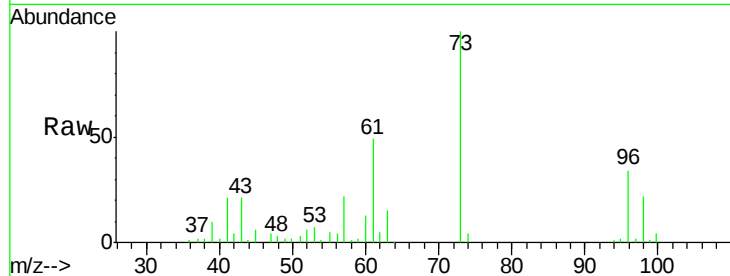
#19
Methvl tert-butvl Ether
Concen: 19.558 ug/l
RT: 5.00 min Scan# 1005
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBSD01

Tot Ion: 73 Resp: 127567
Ion Ratio Lower Upper
73 100
57 21.9 17.2 25.8

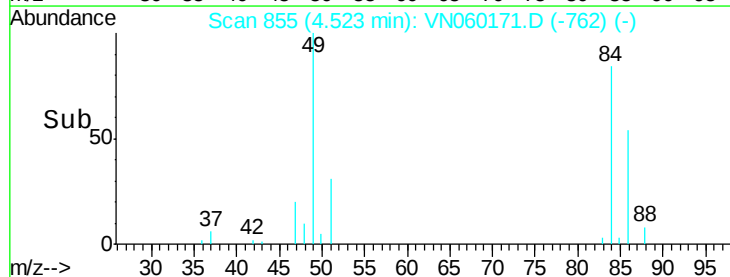
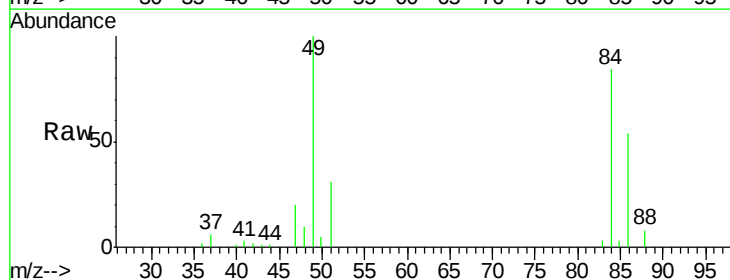
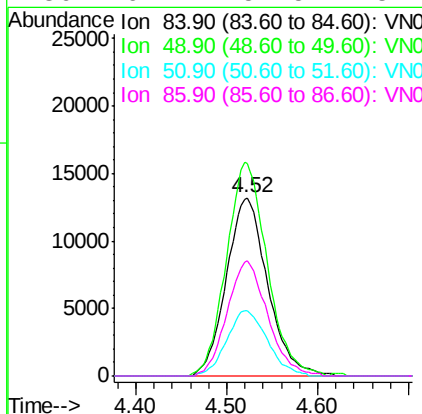
Manual Integrations
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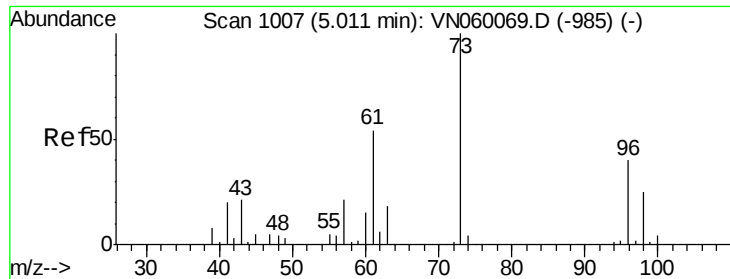
MMDadoda
2/21/2020 9:15:04 AM



#20
Methylene Chloride
Concen: 19.160 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion: 84 Resp: 41621
Ion Ratio Lower Upper
84 100
49 118.8 93.4 140.0
51 36.5 28.4 42.6
86 64.2 52.5 78.7





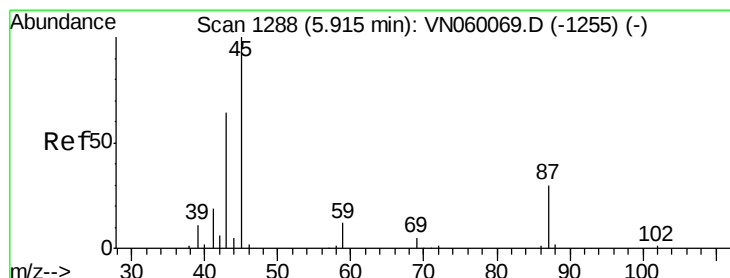
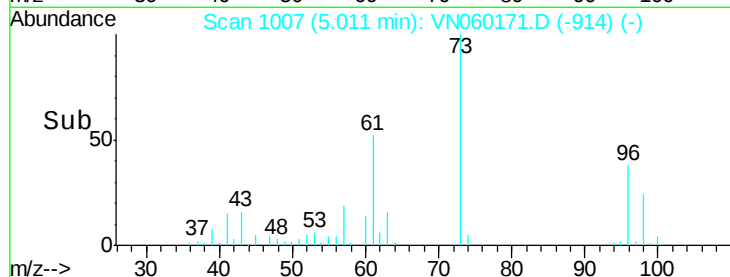
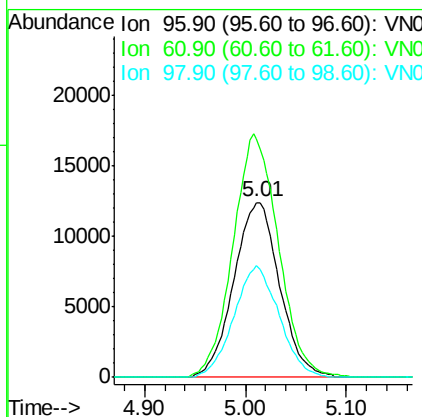
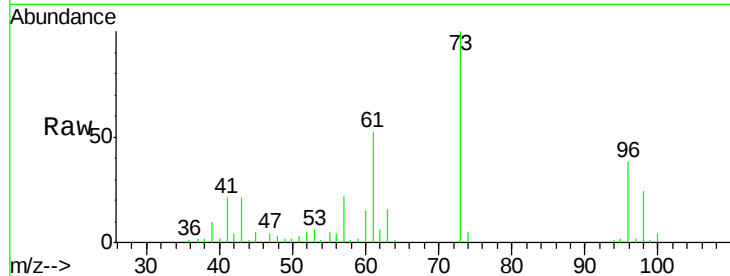
#21
trans-1,2-Dichloroethene
Concen: 18.481 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.8	109.3	163.9
98	63.8	51.0	76.6

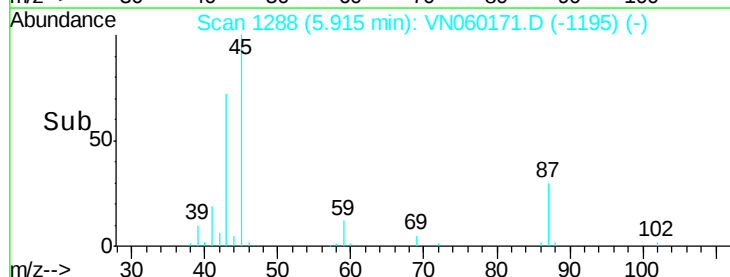
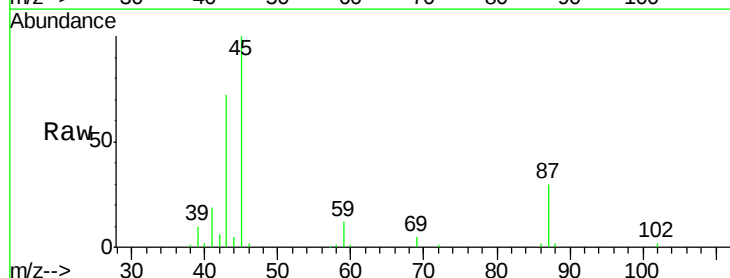
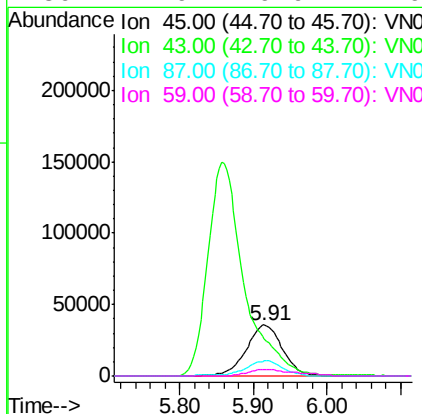
Manual Integrations
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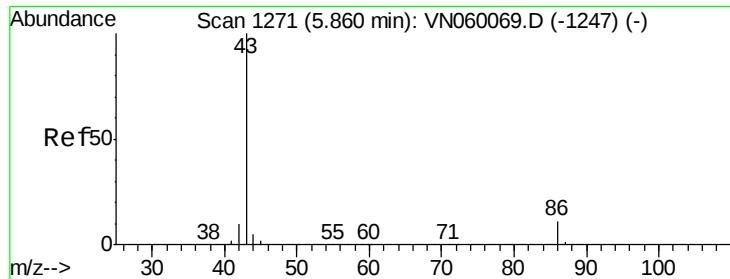
MMDadoda
2/21/2020 9:15:04 AM



#22
Diisopropyl ether
Concen: 19.552 ug/l
RT: 5.91 min Scan# 1288
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Lower	Upper
45	100		
43	70.1	55.9	83.9
87	29.9	24.5	36.7
59	11.9	9.9	14.9





#23

Vinyl Acetate

Concen: 97.656 ug/l

RT: 5.86 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBS01

Tot Ion: 43 Resp: 513071

Ion Ratio Lower Upper

43 100

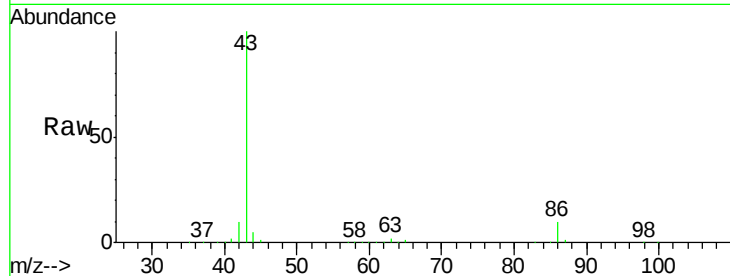
86 10.5 8.9 13.3

Manual Integrations

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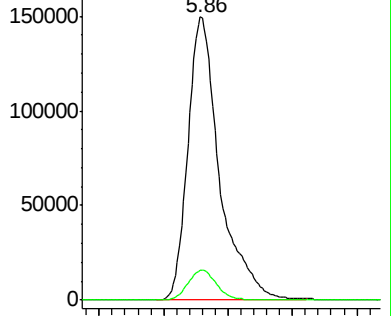
MMDadoda

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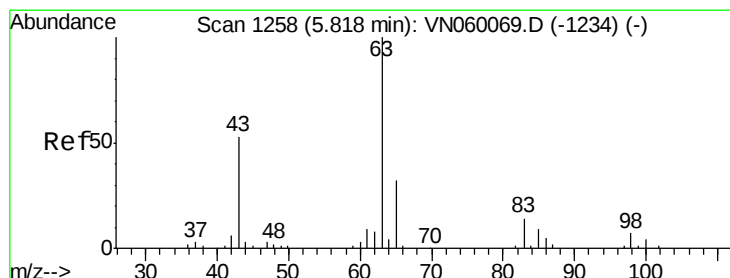
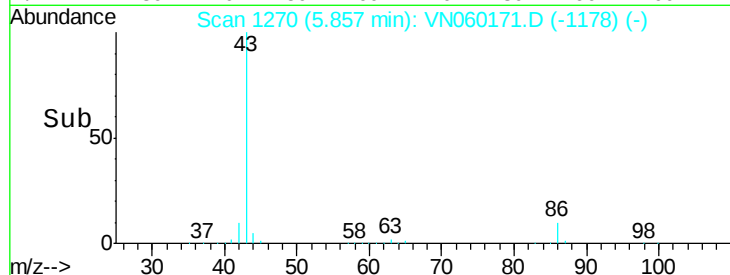


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



Time-->



#24

1,1-Dichloroethane

Concen: 18.781 ug/l

RT: 5.82 min Scan# 1258

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

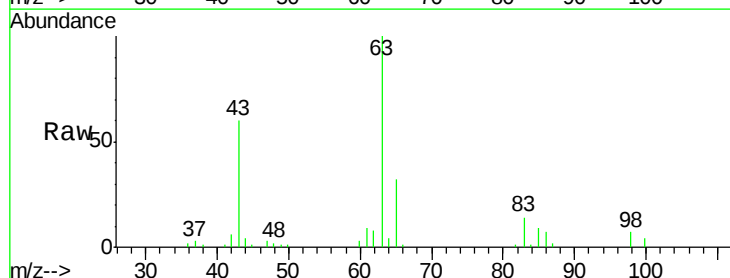
Tgt Ion: 63 Resp: 71179

Ion Ratio Lower Upper

63 100

98 6.6 3.5 10.5

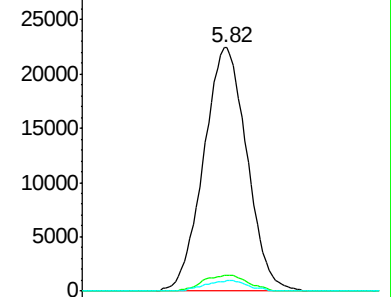
100 4.1 2.2 6.6



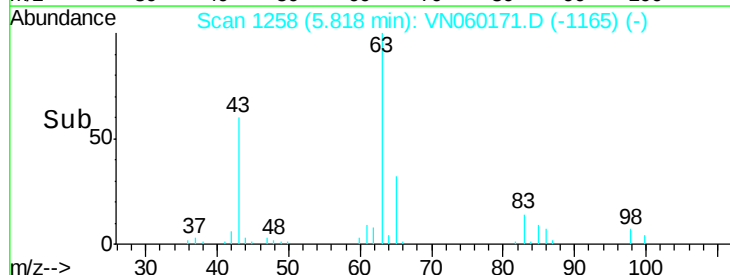
Abundance Ion 62.90 (62.60 to 63.60): VN0

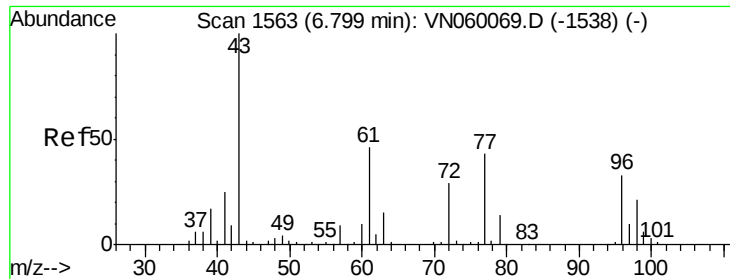
Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



Time-->





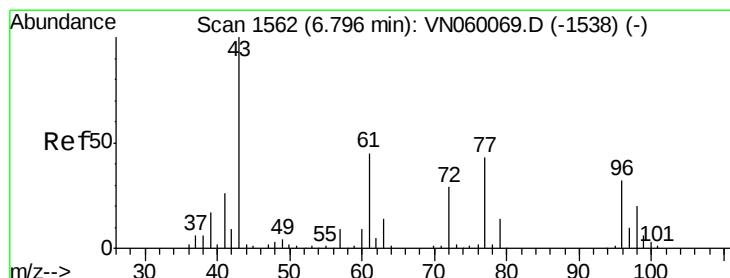
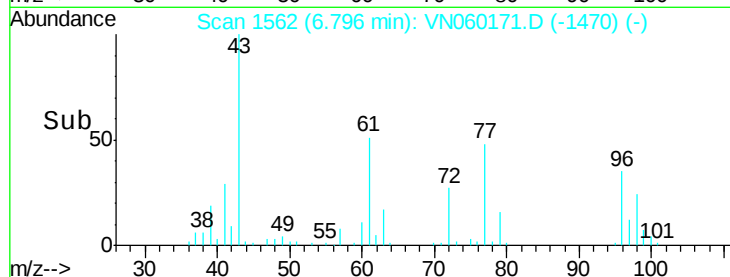
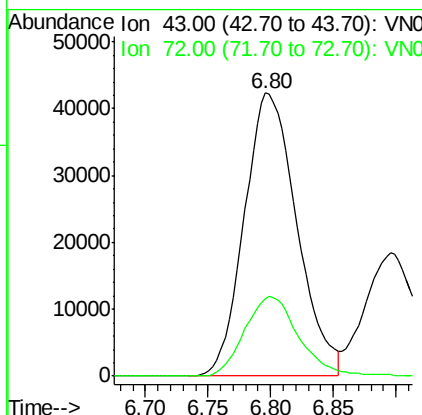
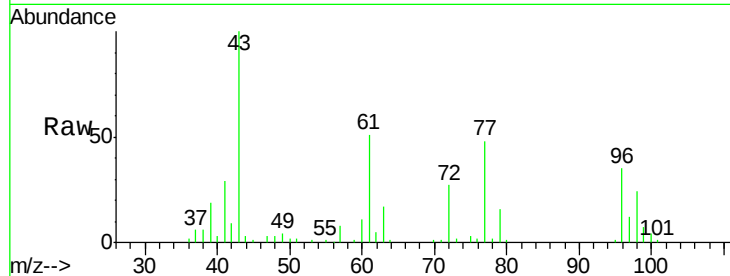
#25
2-Butanone
Concen: 90.213 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBSD01

Tot Ion: 43 Resp: 123538
Ion Ratio Lower Upper
43 100
72 27.4 23.3 34.9

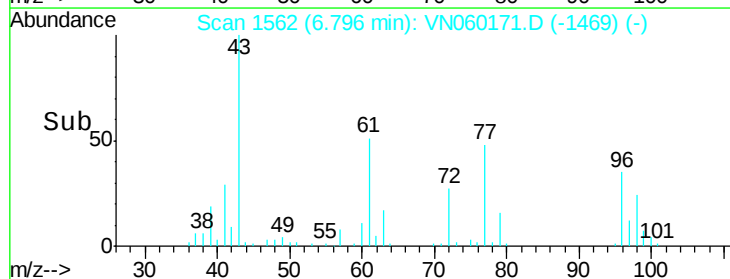
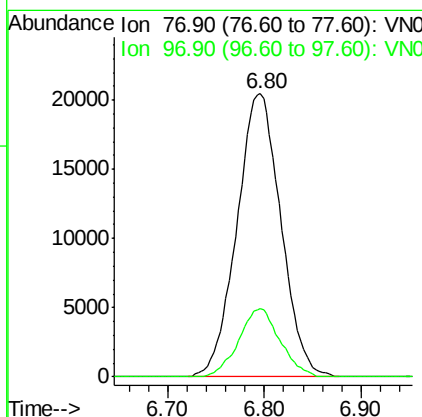
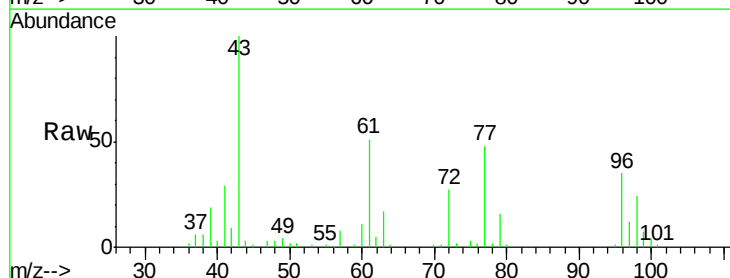
Manual Integrations
APPROVED

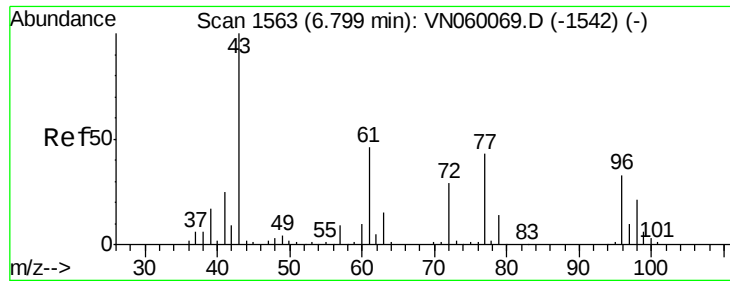
MMDadoda
2/21/2020 9:15:04 AM



#26
2,2-Dichloropropane
Concen: 17.928 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion: 77 Resp: 64537
Ion Ratio Lower Upper
77 100
97 22.6 11.4 34.2





#27

cis-1,2-Dichloroethene

Concen: 18.233 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

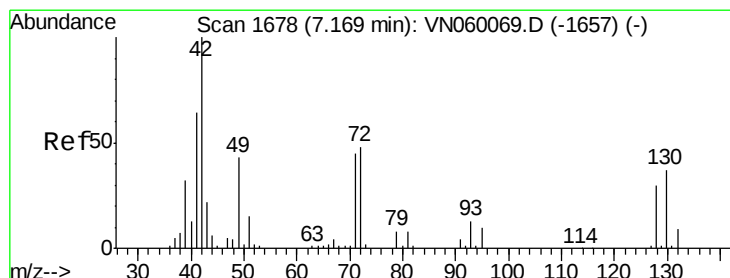
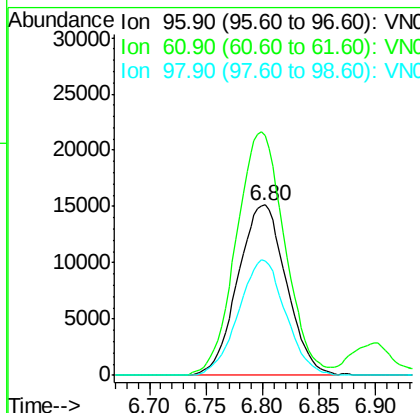
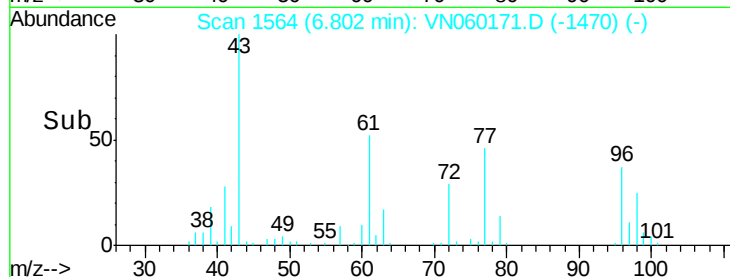
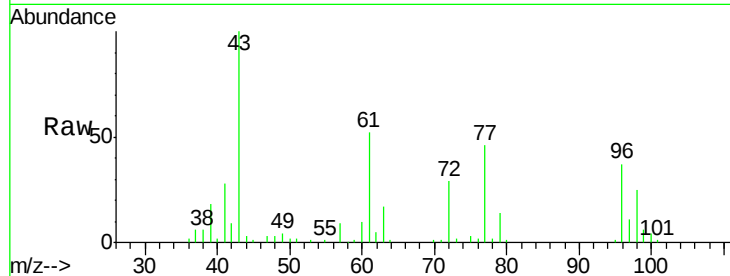
ClientSampleId :

VN0220MBSD01

Tot Ion:	96	Resp:	45114
Ion	Ratio	Lower	Upper
96	100		
61	142.9	0.0	285.8
98	65.7	0.0	129.6

Manual Integrations
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#28

Bromochloromethane

Concen: 20.284 ug/l

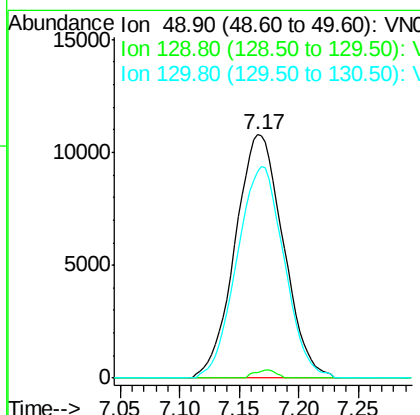
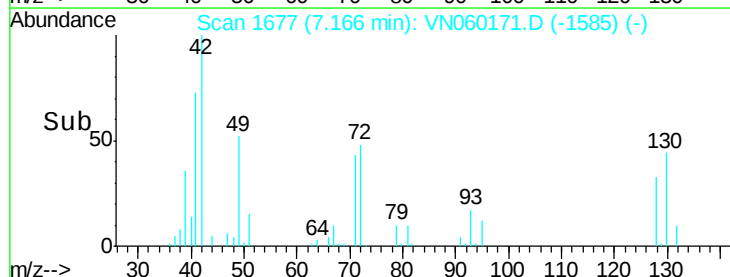
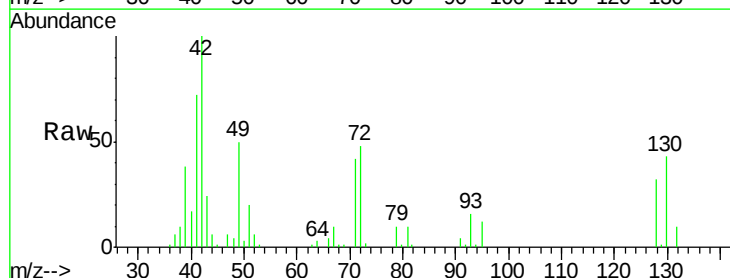
RT: 7.17 min Scan# 1677

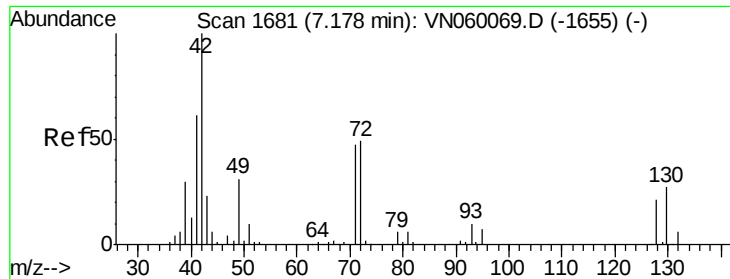
Delta R.T. -0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Tgt Ion:	49	Resp:	30223
Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	2.2
130	85.2	66.8	100.2





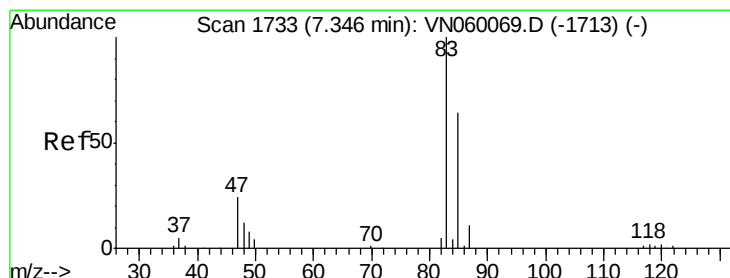
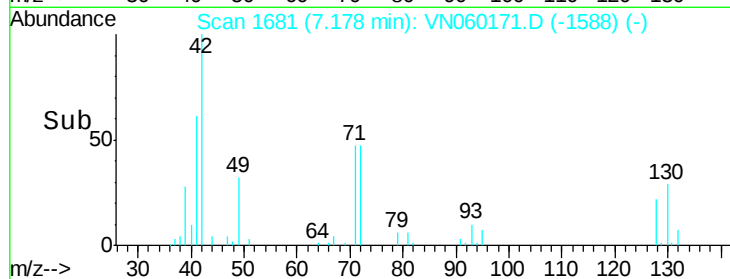
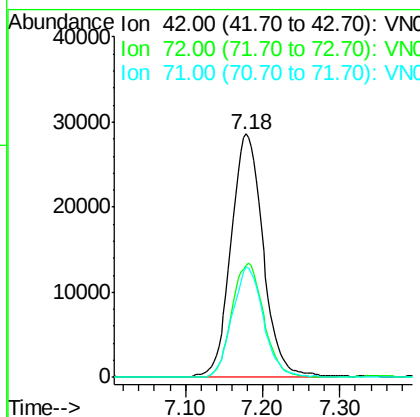
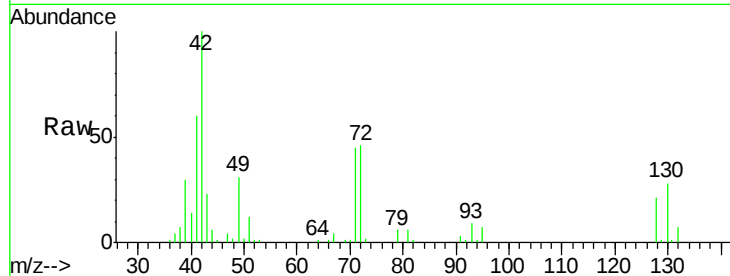
#29
Tetrahydrofuran
Concen: 98.121 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.5	38.2	57.4
71	43.8	36.6	54.8

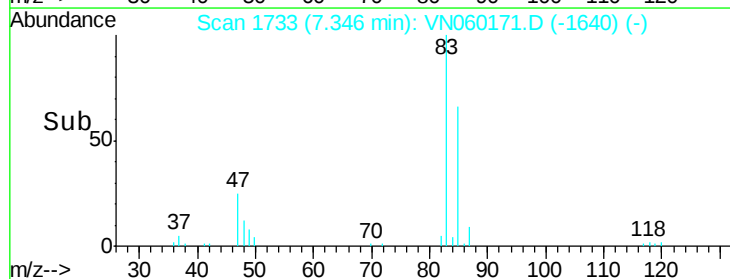
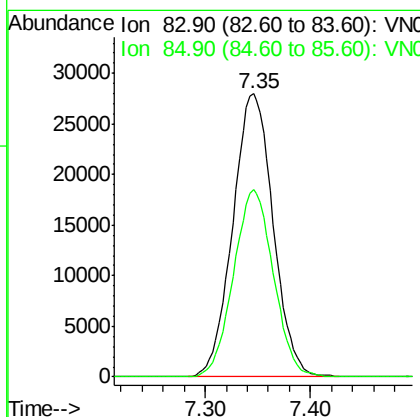
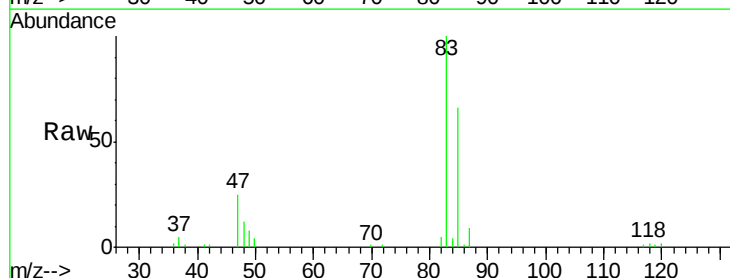
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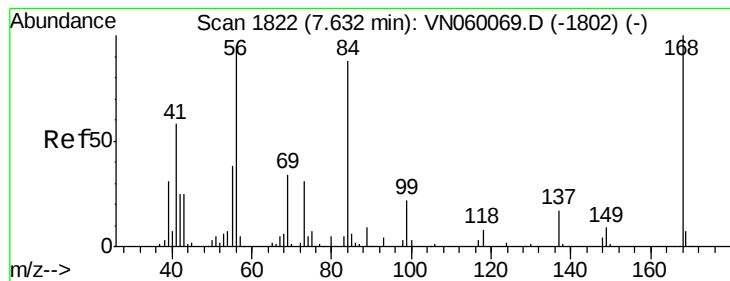
MMDadoda
2/21/2020 9:15:04 AM



#30
Chloroform
Concen: 18.708 ug/l
RT: 7.35 min Scan# 1733
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.4	77.0





#31

Cyclohexane

Concen: 18.165 ug/l

RT: 7.63 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

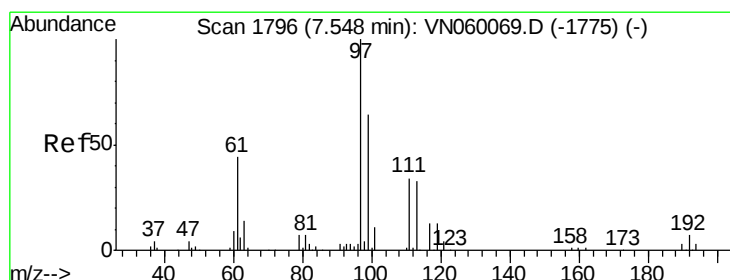
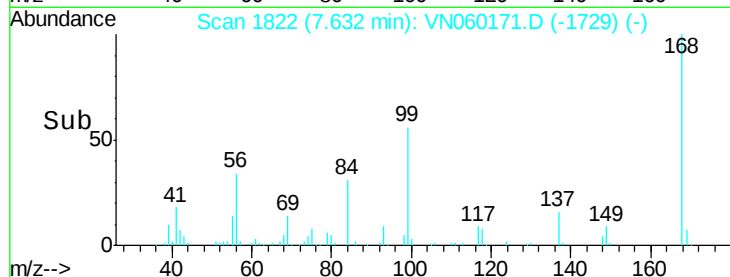
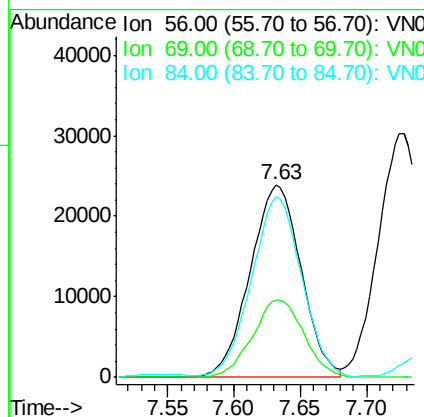
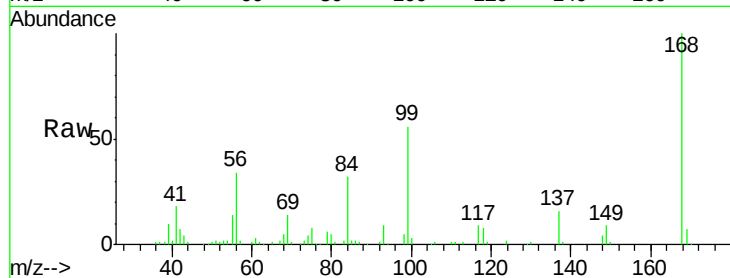
ClientSampleId :

VN0220MBSD01

Tot Ion:	56	Resp:	64130
Ion	Ratio	Lower	Upper
56	100		
69	40.1	28.3	42.5
84	93.0	72.6	108.8

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 18.352 ug/l

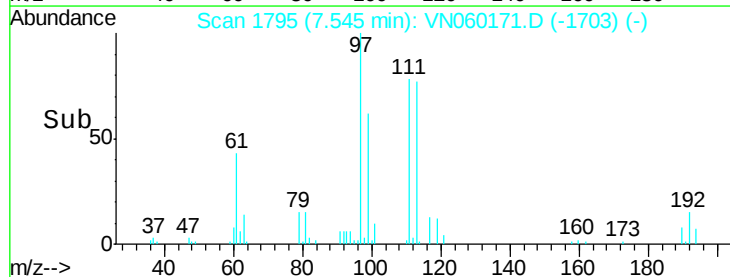
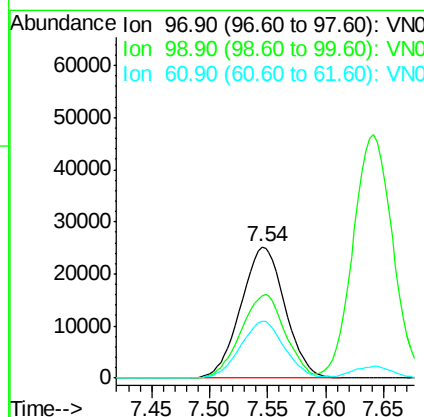
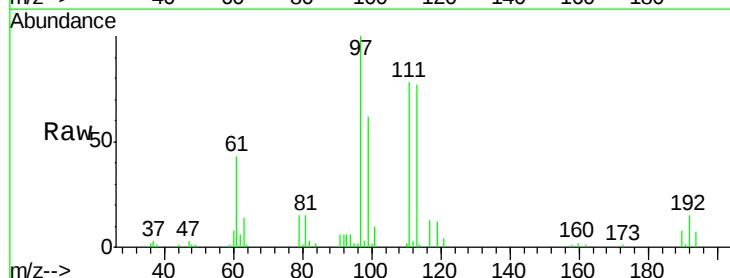
RT: 7.54 min Scan# 1795

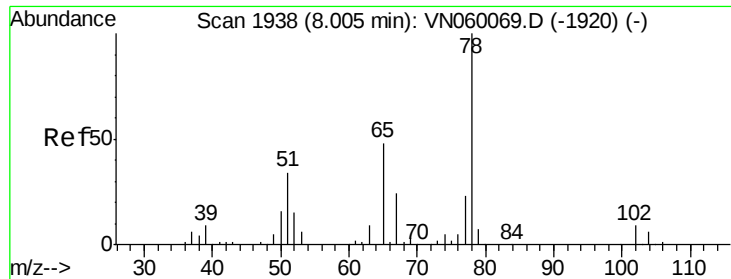
Delta R.T. -0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Tgt Ion:	97	Resp:	66581
Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.4	77.0
61	43.3	34.9	52.3





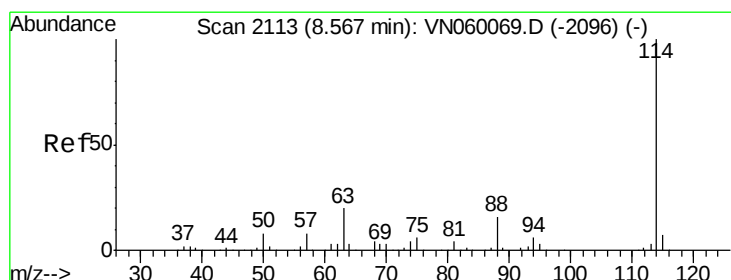
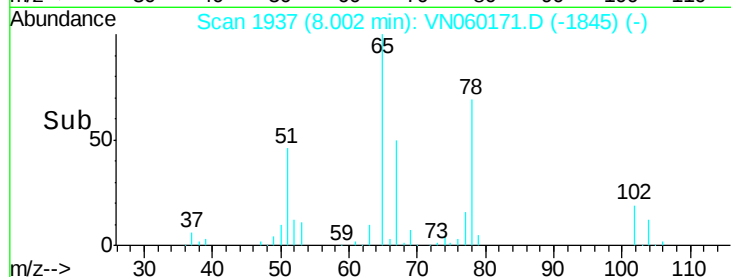
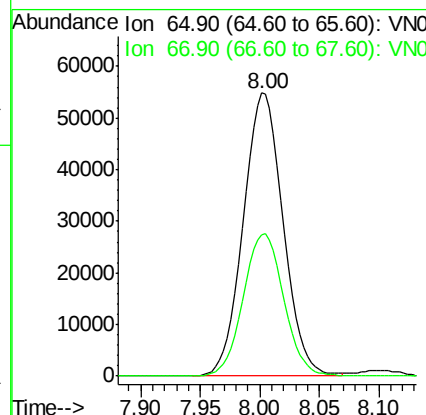
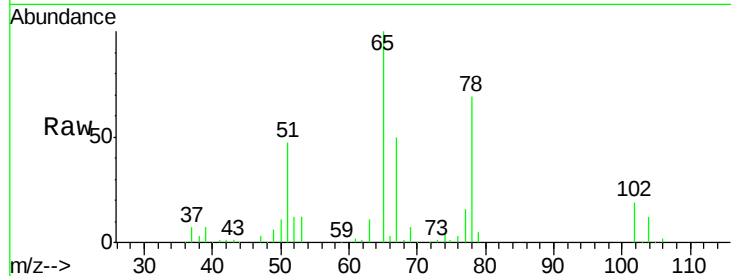
#33
 1,2-Dichloroethane-d4
 Concen: 51.009 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	127330		
67	51.1	0.0	104.0	

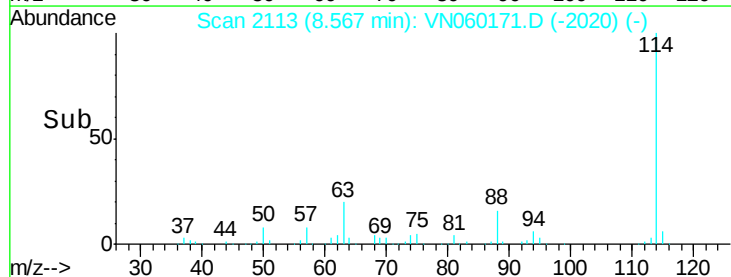
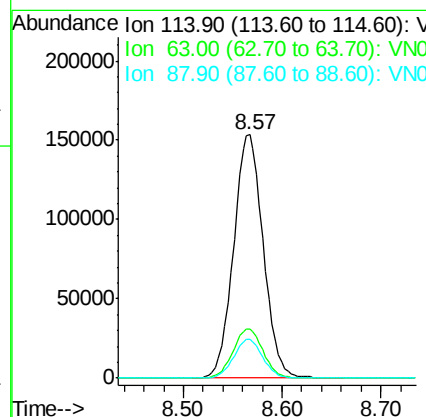
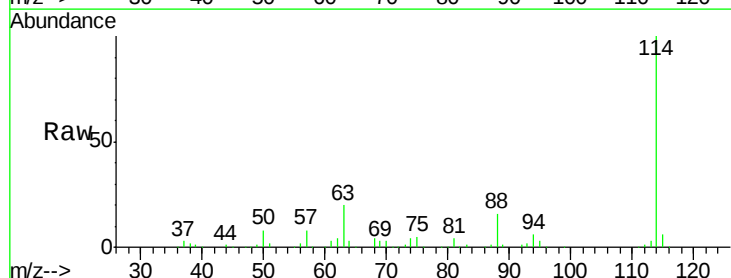
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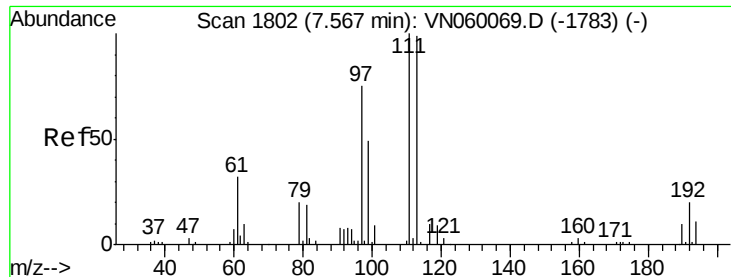
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	320607		
63	20.1	0.0	40.0	
88	15.8	0.0	31.6	





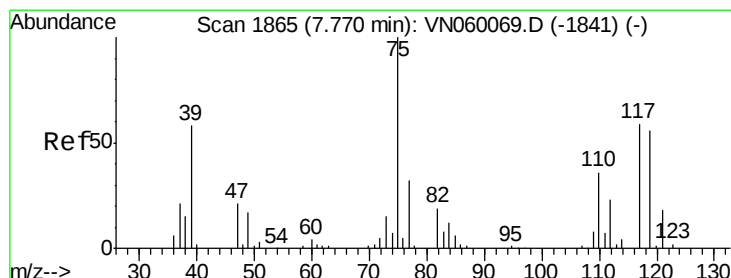
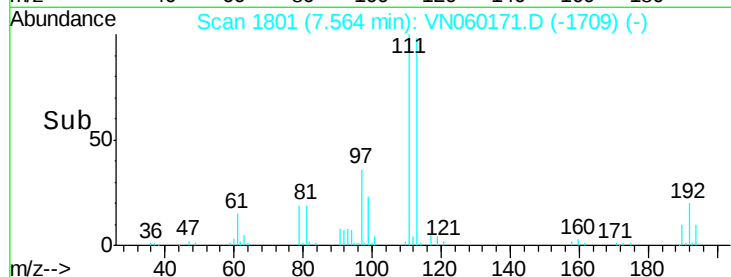
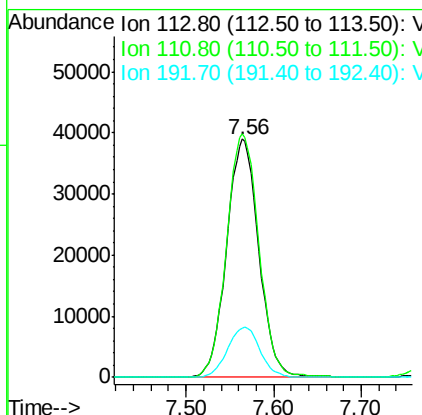
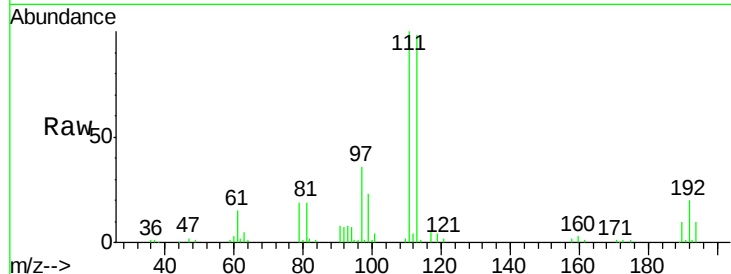
#35
 Dibromofluoromethane
 Concen: 50.396 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBSD01

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.4	122.2
192	21.1	16.2	24.2

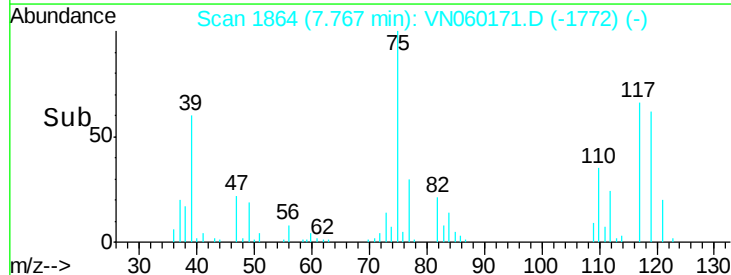
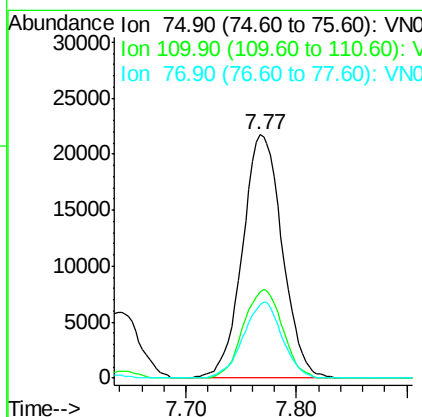
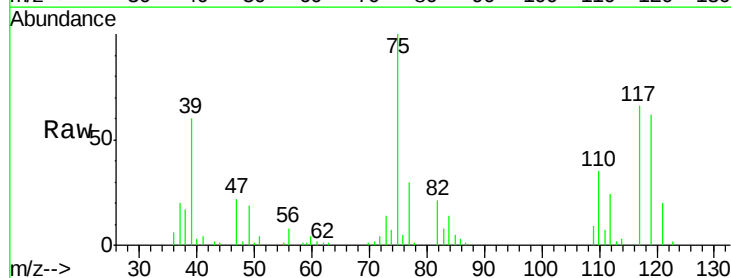
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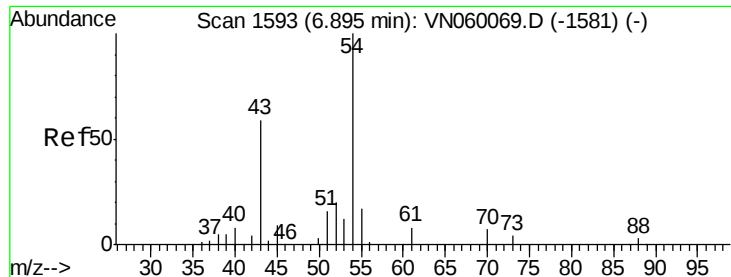
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 2/21/2020 9:15:04 AM



#36
 1,1-Dichloropropene
 Concen: 18.261 ug/l
 RT: 7.77 min Scan# 1864
 Delta R.T. -0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.0	18.1	54.3
77	30.4	25.1	37.7





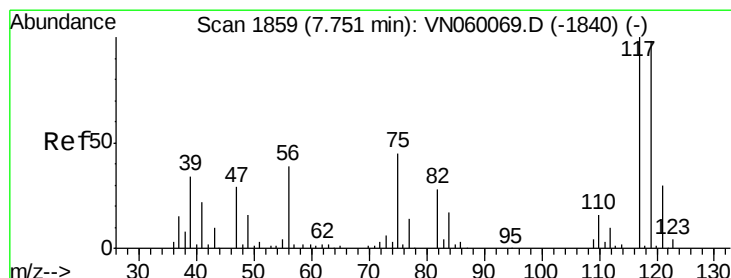
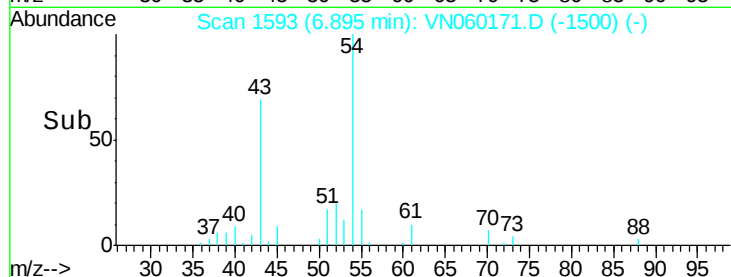
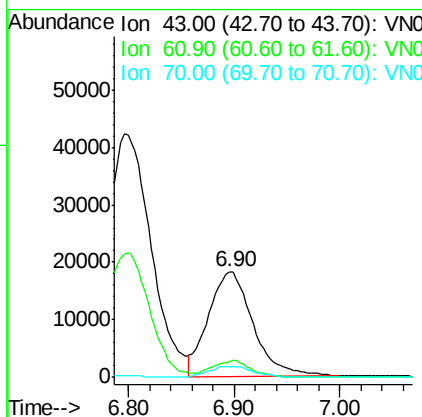
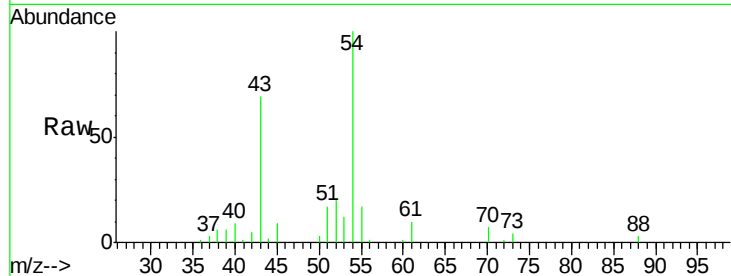
#37
Ethyl Acetate
Concen: 19.834 ug/l
RT: 6.90 min Scan# 1593
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampled :
VN0220MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.4	17.2
70	10.6	8.7	13.1

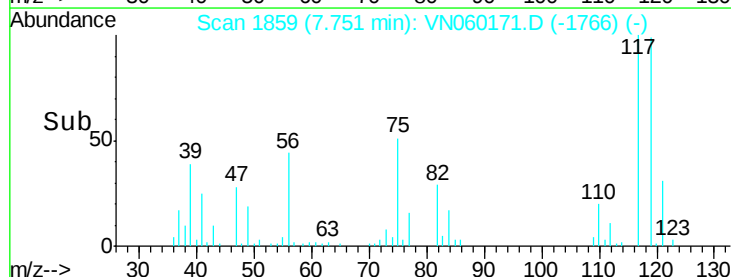
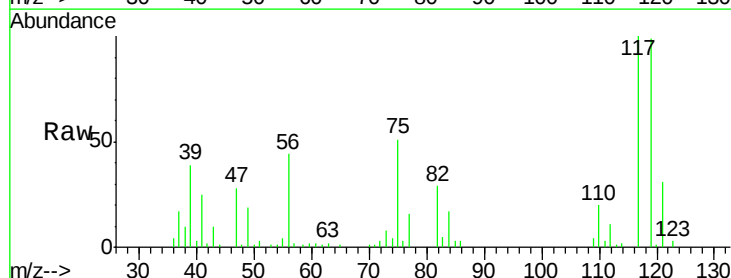
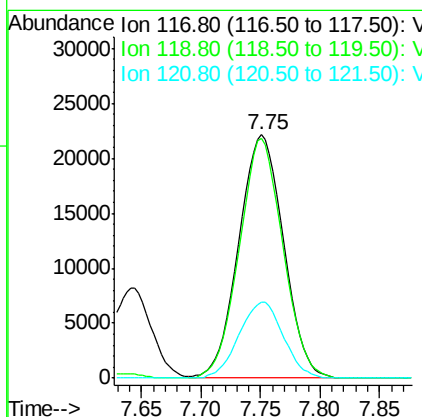
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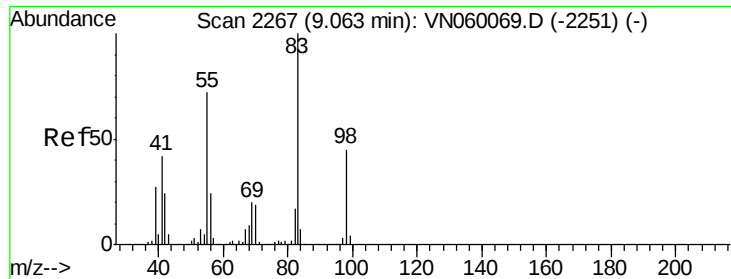
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#38
Carbon Tetrachloride
Concen: 17.896 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.7	78.2	117.4
121	31.2	24.2	36.2





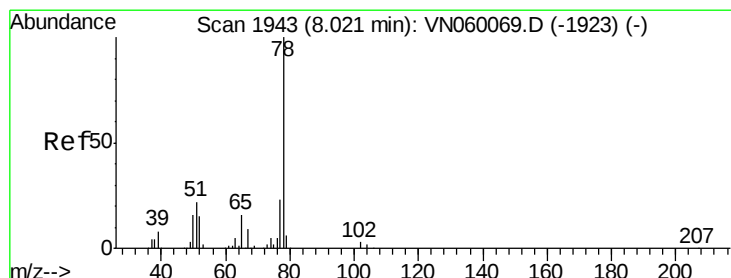
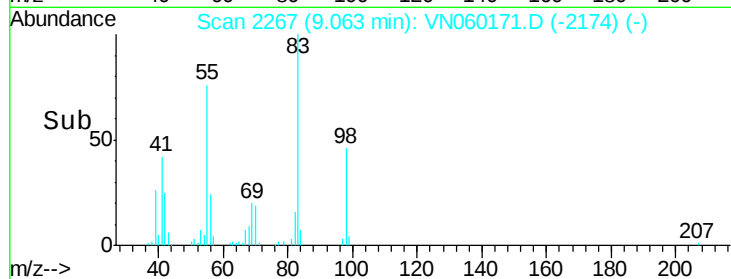
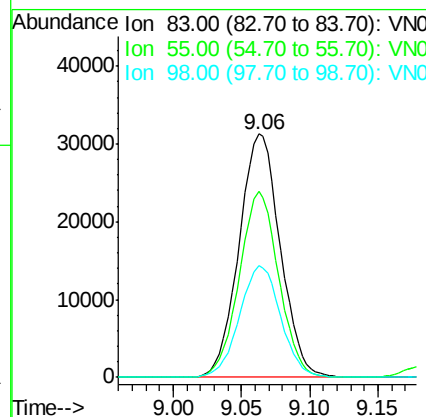
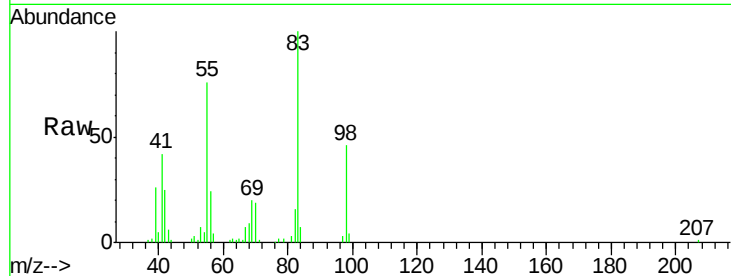
#39
Methvlcvclohexane
Concen: 17.771 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.3	57.8	86.8
98	45.7	36.4	54.6

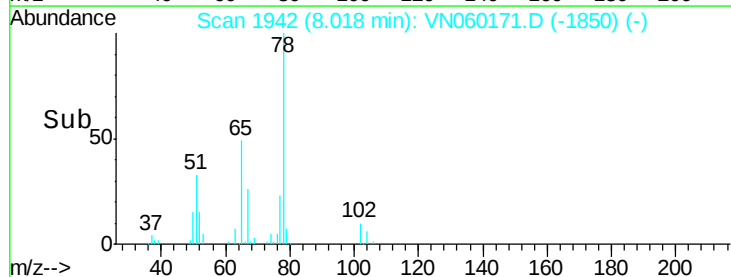
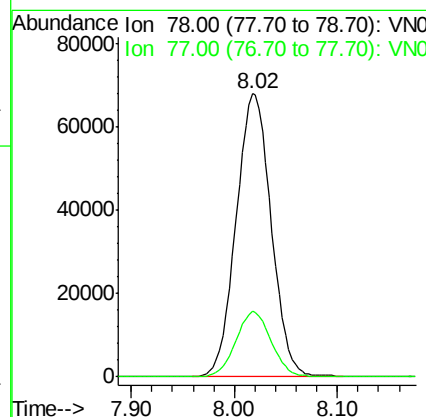
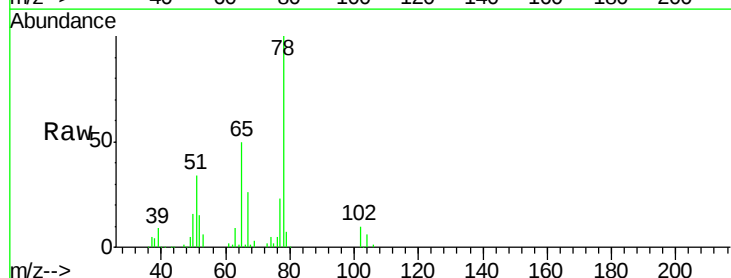
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#40
Benzene
Concen: 18.284 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.8	28.2





#41

Methacrylonitrile

Concen: 20.621 ug/l m

RT: 7.15 min Scan# 1672

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBSD01

Tot Ion: 41 Resp: 23209

Ion Ratio Lower Upper

41 100

39 172.4 0.0 0.0#

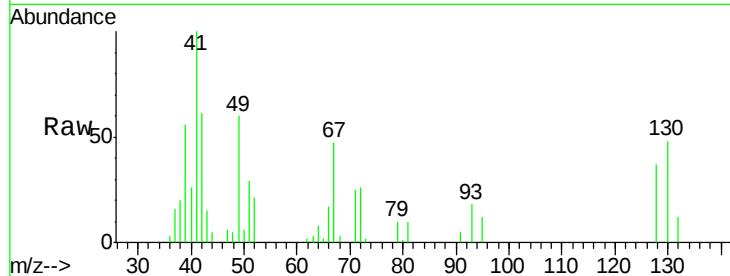
67 0.0 0.0 0.0

52 0.0 0.0 0.0

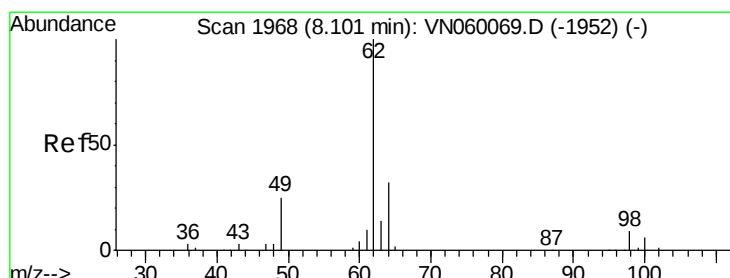
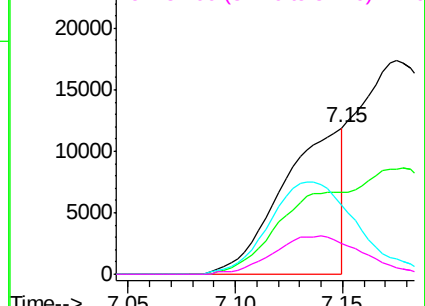
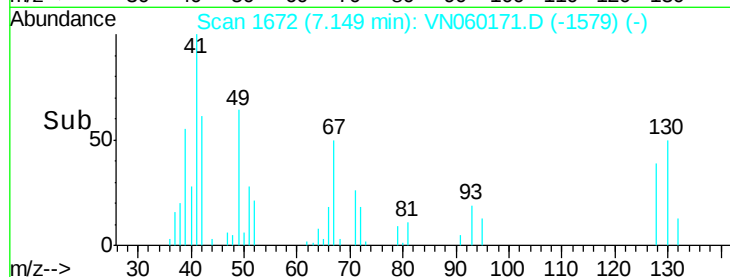
Manual Integrations
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Abundance Ion 41.00 (40.70 to 41.70): VN060171.D (-1579) (-)



#42

1,2-Dichloroethane

Concen: 19.352 ug/l

RT: 8.10 min Scan# 1968

Delta R.T. 0.00 min

Lab File: VN060171.D

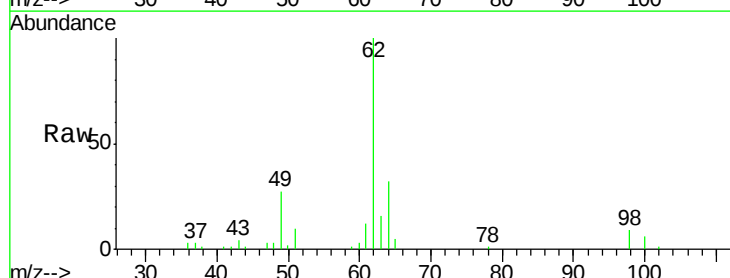
Acq: 20 Feb 2020 14:48

Tgt Ion: 62 Resp: 59747

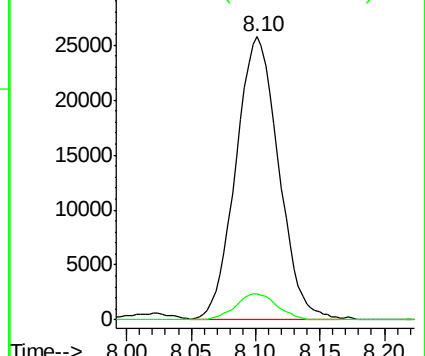
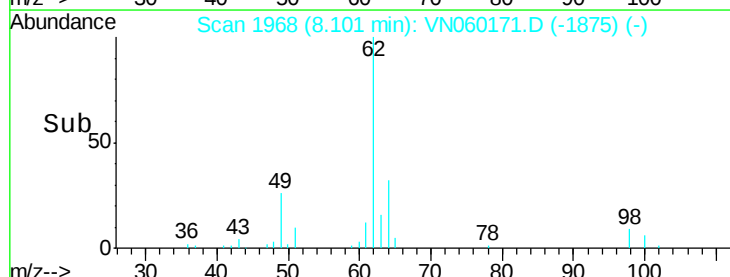
Ion Ratio Lower Upper

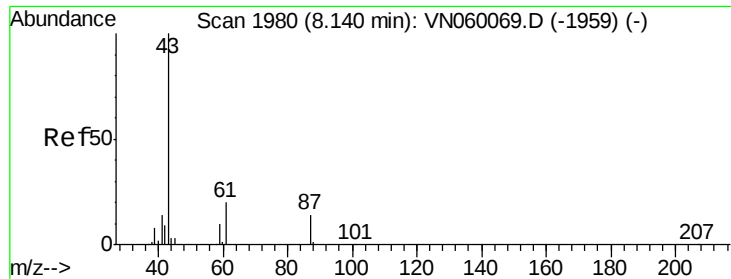
62 100

98 8.9 0.0 18.2



Abundance Ion 61.90 (61.60 to 62.60): VN060171.D (-1875) (-)





#43

Isopropyl Acetate

Concen: 19.669 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

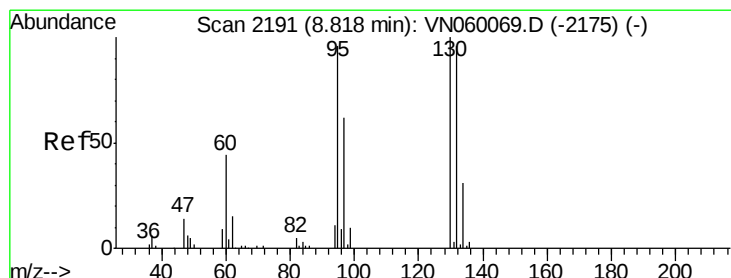
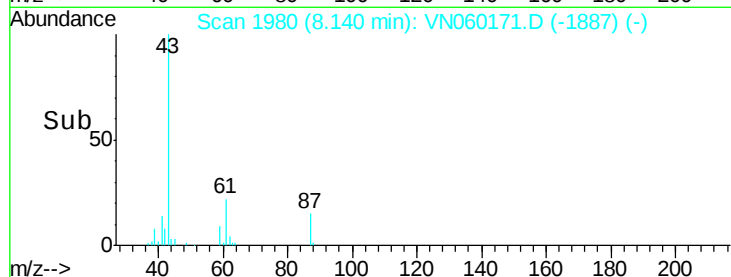
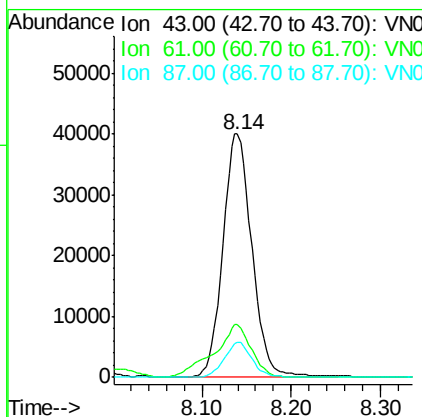
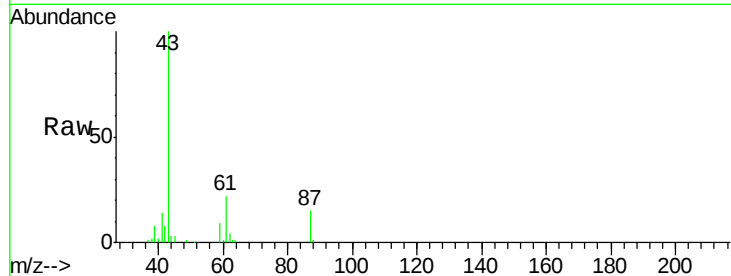
ClientSampleId :

VN0220MBS01

Tot Ion:	43	Resp:	90237
Ion	Ratio	Lower	Upper
43	100		
61	27.7	21.8	32.6
87	13.6	11.4	17.2

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#44

Trichloroethene

Concen: 18.008 ug/l

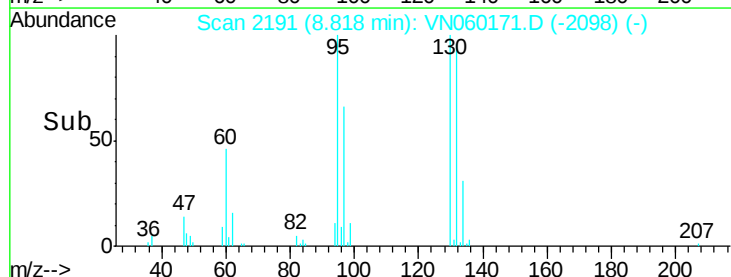
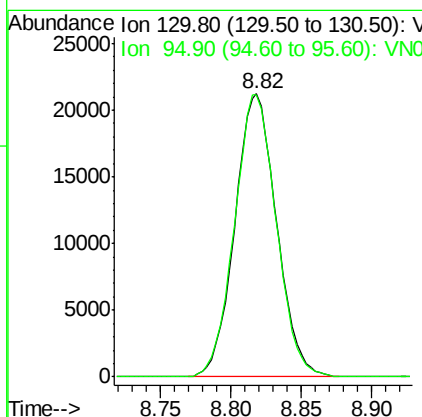
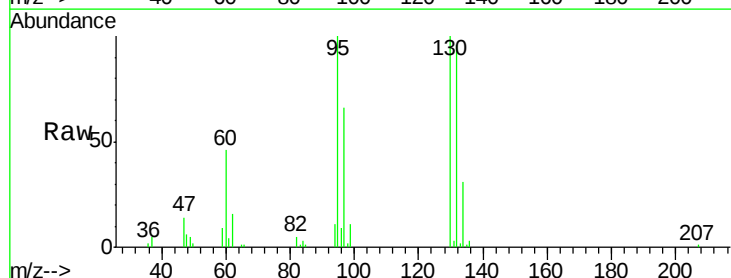
RT: 8.82 min Scan# 2191

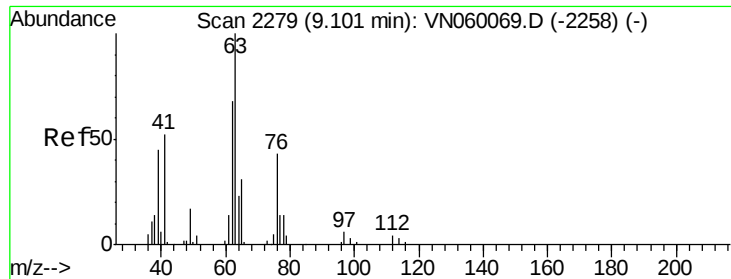
Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Tgt Ion:	130	Resp:	43923
Ion	Ratio	Lower	Upper
130	100		
95	99.8	0.0	192.4





#45

1,2-Dichloropropane

Concen: 19.616 ug/l

RT: 9.10 min Scan# 2279

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampled :

VN0220MBSD01

Tot Ion: 63 Resp: 42780

Ion Ratio Lower Upper

63 100

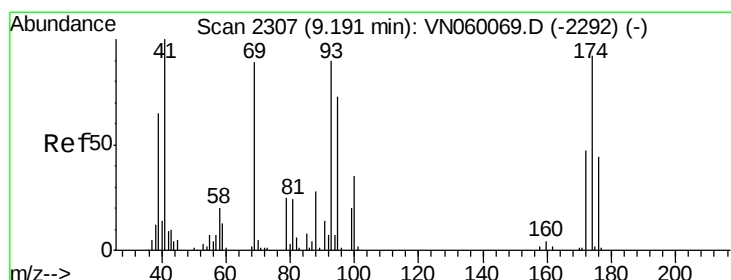
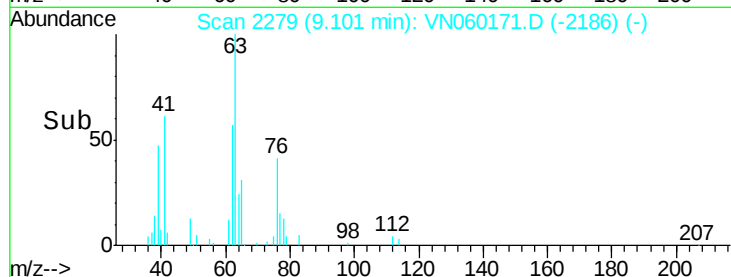
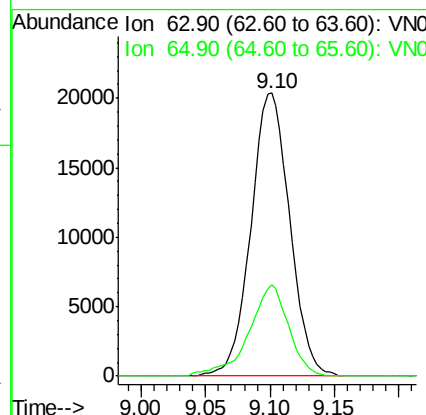
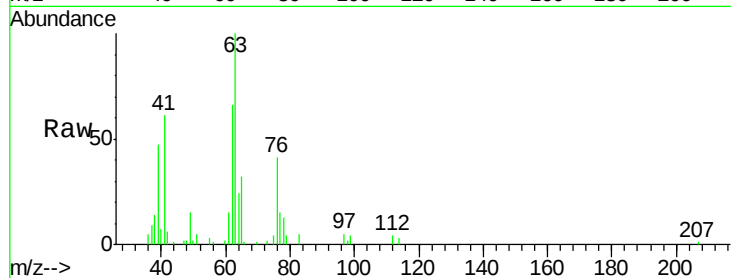
65 32.2 25.0 37.4

Manual Integrations

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#46

Dibromomethane

Concen: 18.990 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

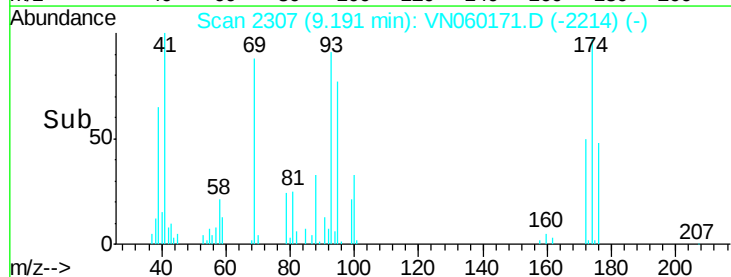
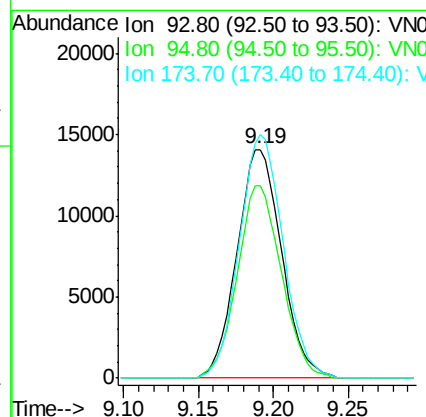
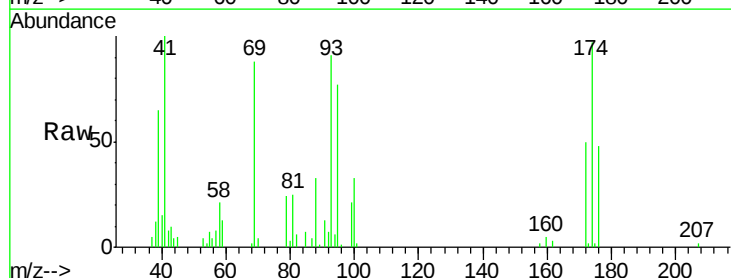
Tgt Ion: 93 Resp: 29267

Ion Ratio Lower Upper

93 100

95 83.2 65.0 97.6

174 104.5 82.3 123.5





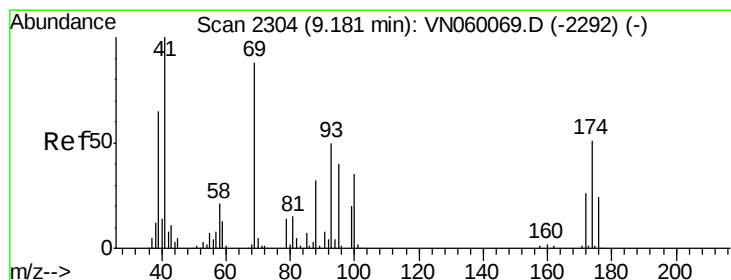
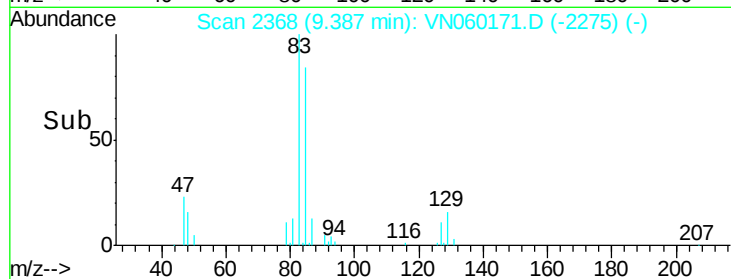
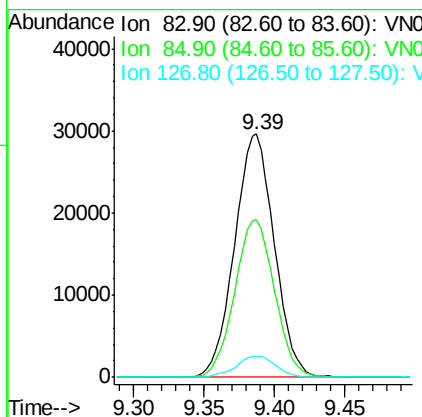
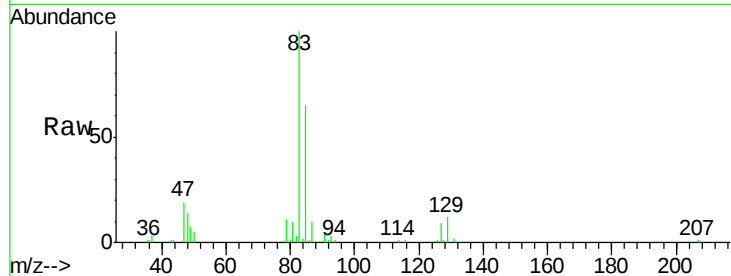
#47
 Bromodichloromethane
 Concen: 18.630 ug/l
 RT: 9.39 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBSD01

Tot Ion	83	Resp	58374
Ion Ratio	100	Lower	Upper
83	100		
85	64.7	50.6	75.8
127	8.8	7.0	10.6

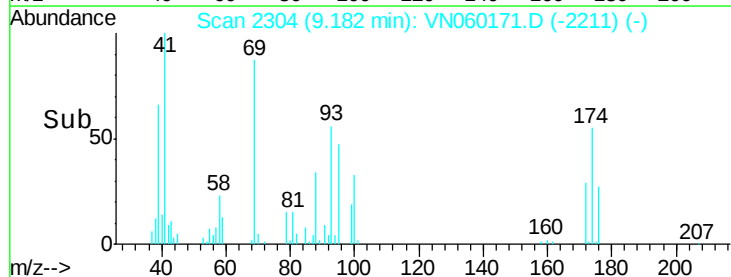
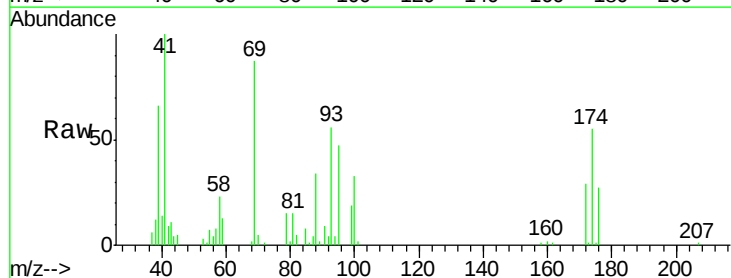
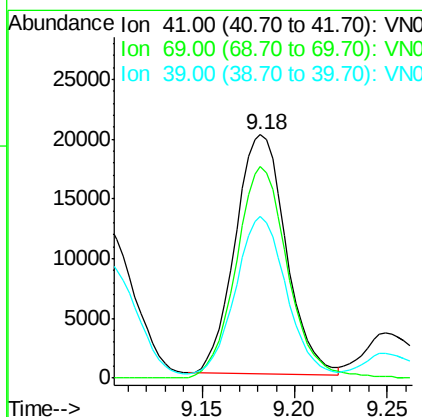
Manual Integrations
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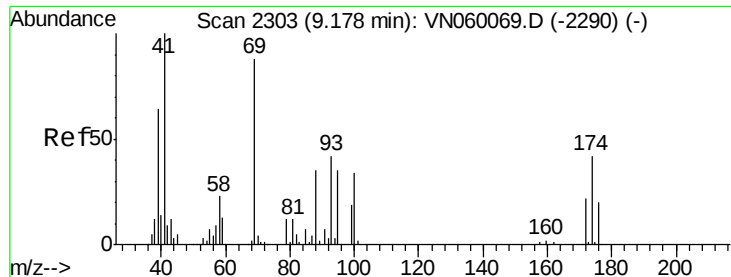
MMDadoda
 2/21/2020 9:15:04 AM



#48
 Methyl methacrylate
 Concen: 18.577 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. 0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Tgt Ion	41	Resp	38238
Ion Ratio	100	Lower	Upper
41	100		
69	89.8	72.0	108.0
39	68.8	54.1	81.1





#49

1,4-Dioxane

Concen: 426.506 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

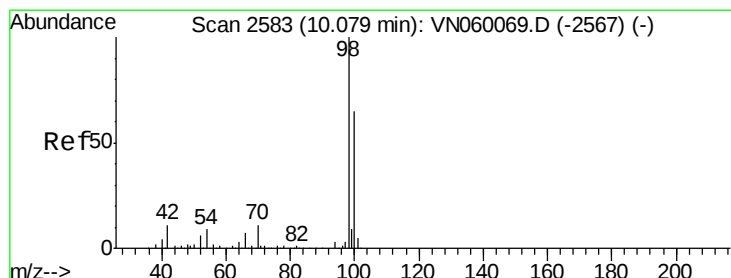
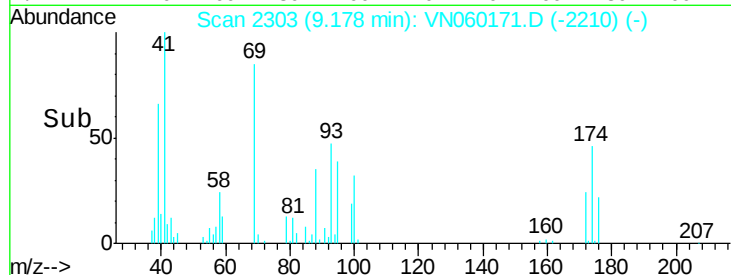
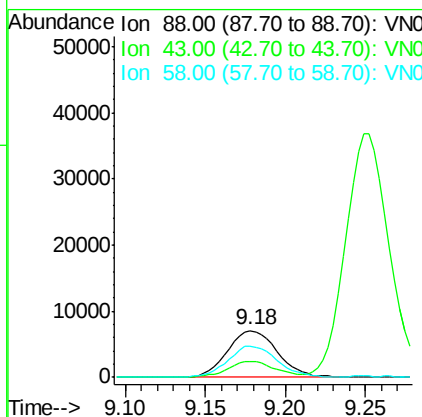
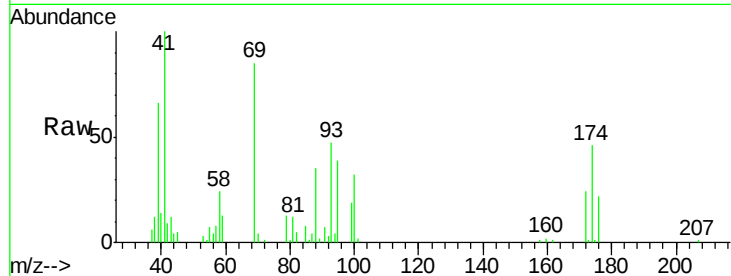
ClientSampleId :

VN0220MBSD01

Tot Ion:	88	Resp:	15000
Ion	Ratio	Lower	Upper
88	100		
43	32.4	26.2	39.2
58	66.0	53.2	79.8

Manual Integrations
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#50

Toluene-d8

Concen: 48.772 ug/l

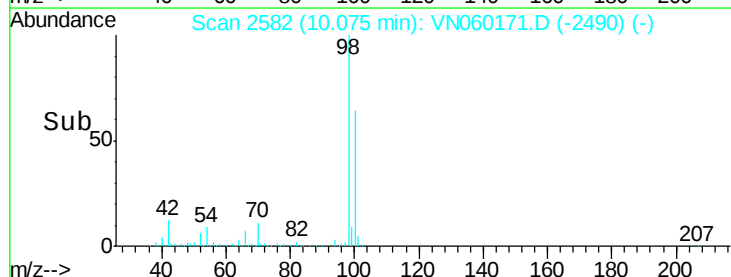
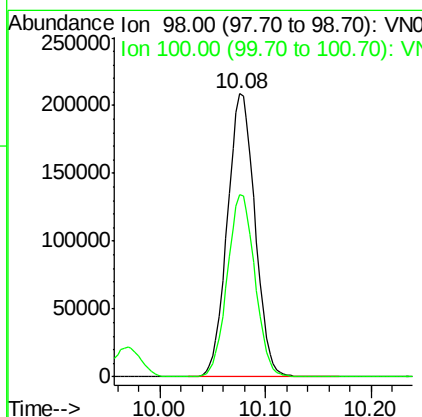
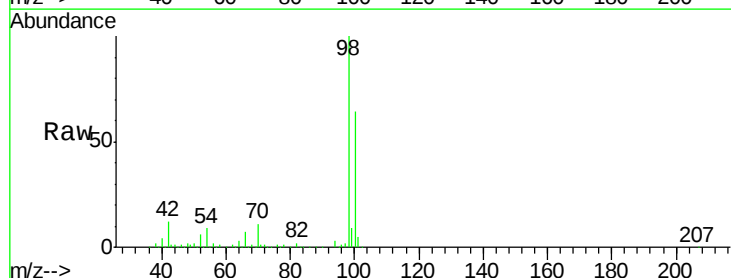
RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Tgt Ion:	98	Resp:	378508
Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 96.463 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBS01

Tot Ion: 43 Resp: 256157

Ion Ratio Lower Upper

43 100

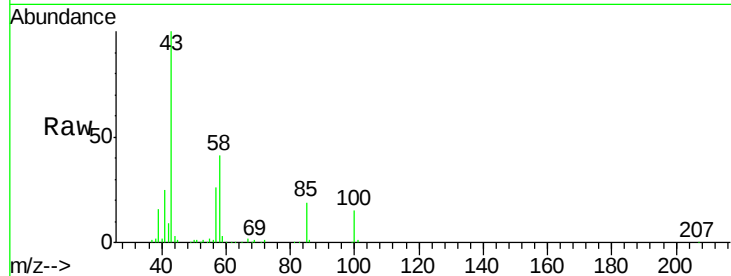
58 40.1 31.8 47.8

Manual Integrations

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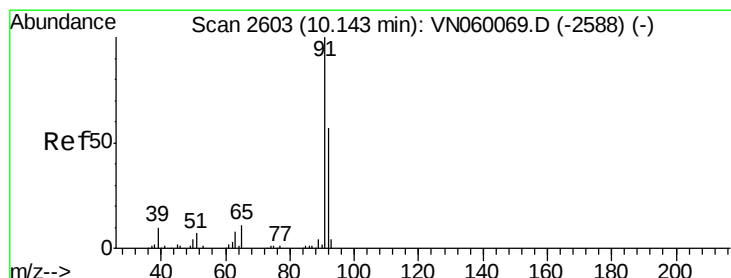
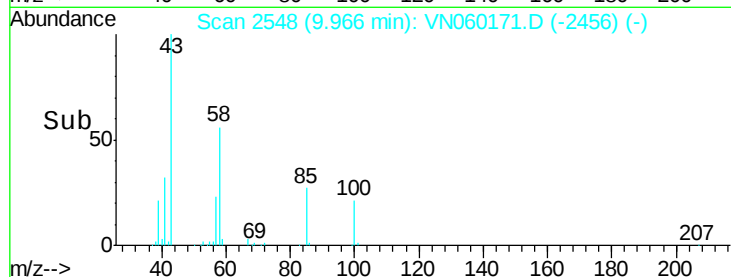
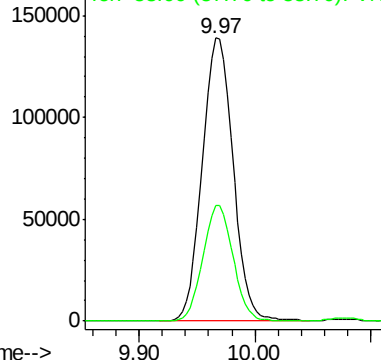
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 18.674 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN060171.D

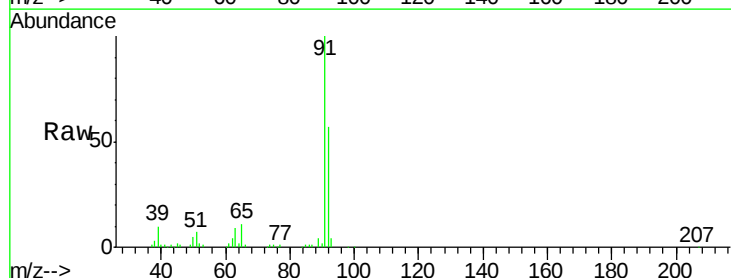
Acq: 20 Feb 2020 14:48

Tgt Ion: 92 Resp: 105487

Ion Ratio Lower Upper

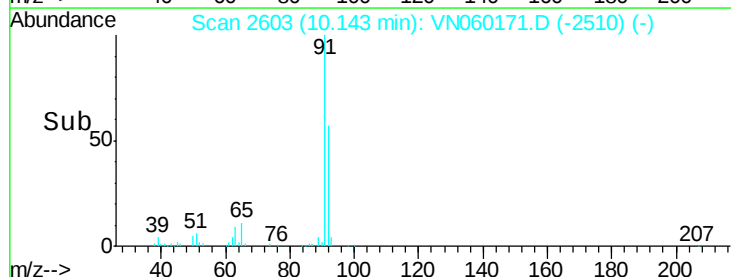
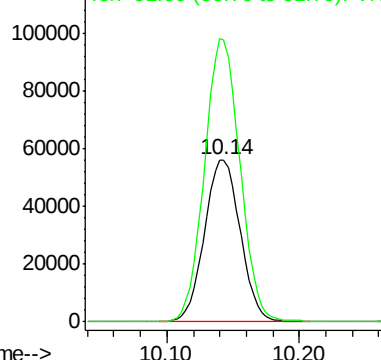
92 100

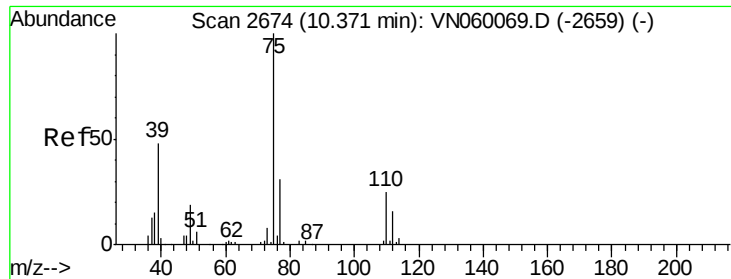
91 173.3 140.9 211.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





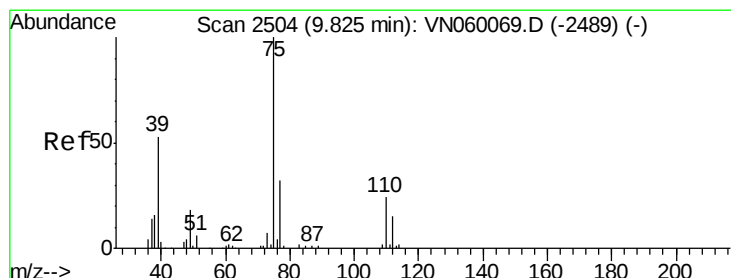
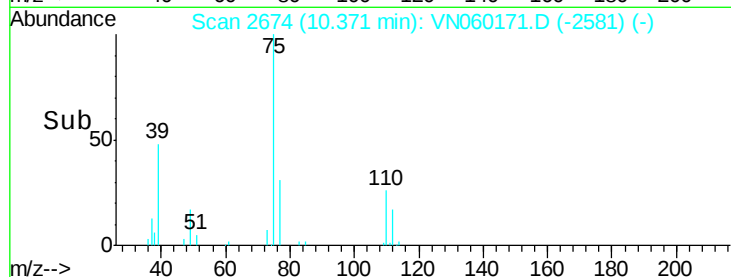
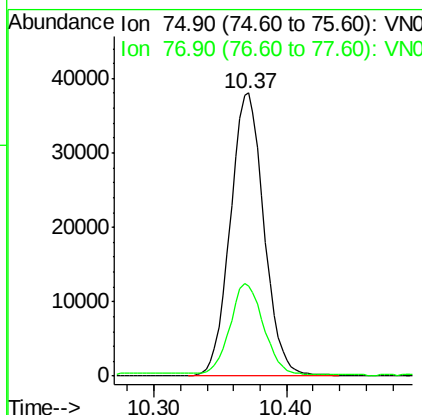
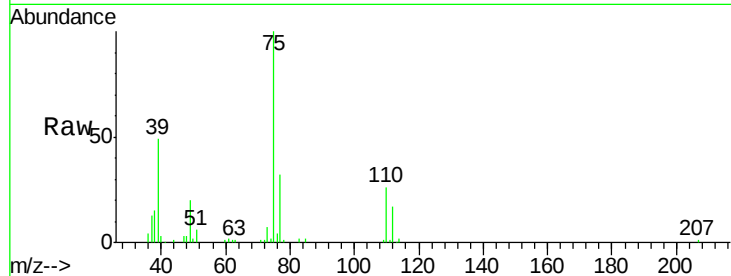
#53
t-1,3-Dichloropropene
Concen: 18.991 ug/l
RT: 10.37 min Scan# 2674
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBSD01

Tot Ion: 75 Resp: 67167
Ion Ratio Lower Upper
75 100
77 31.2 25.4 38.0

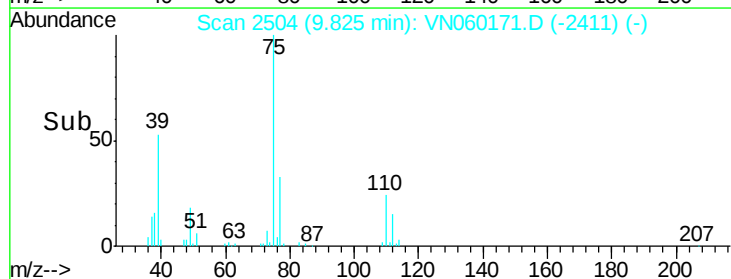
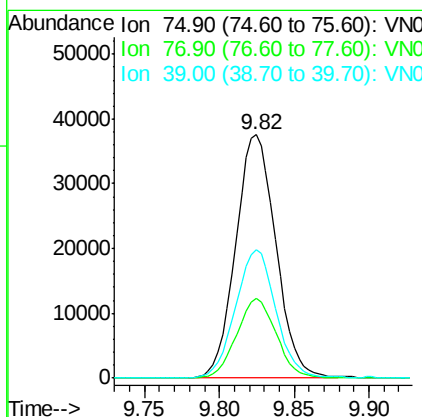
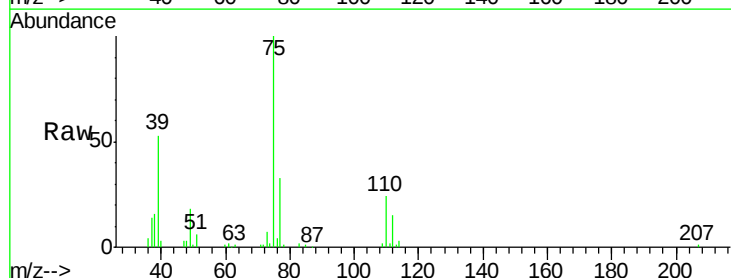
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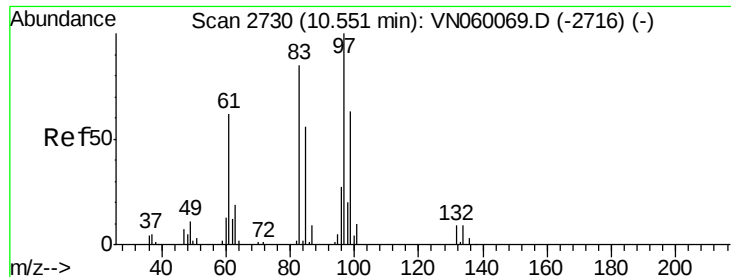
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#54
cis-1,3-Dichloropropene
Concen: 18.865 ug/l
RT: 9.82 min Scan# 2504
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion: 75 Resp: 70257
Ion Ratio Lower Upper
75 100
77 32.6 25.6 38.4
39 52.6 42.2 63.4





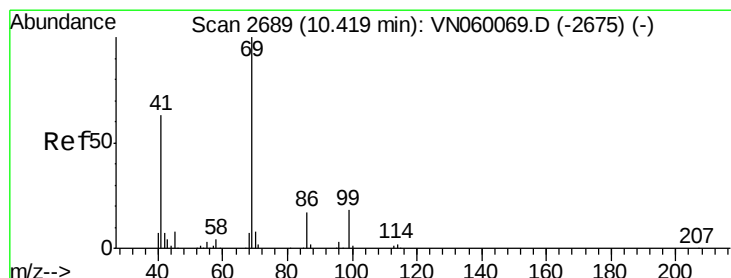
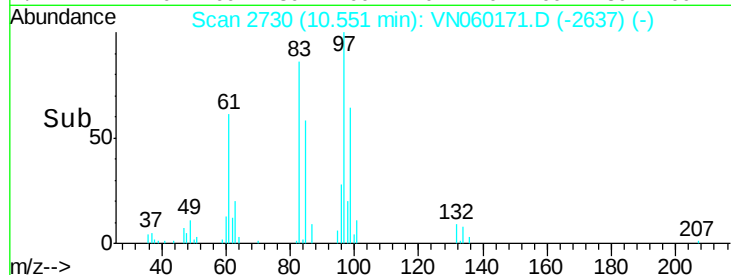
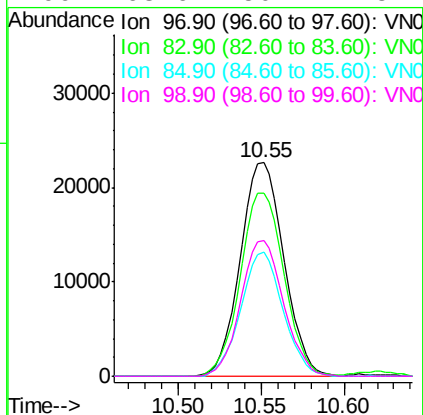
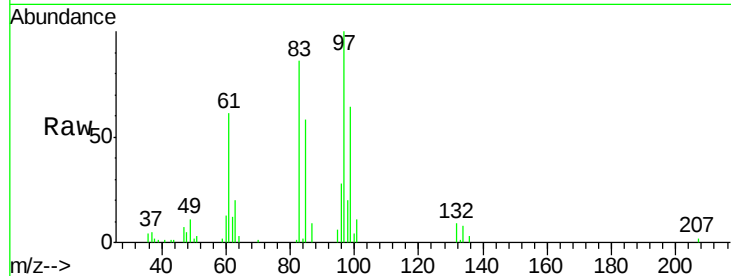
#55
 1,1,2-Trichloroethane
 Concen: 18.866 ug/l
 RT: 10.55 min Scan# 2730
 Delta R.T. 0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBSD01

Tot Ion	Ratio	Lower	Upper
97	100		
83	85.8	67.9	101.9
85	58.0	44.6	67.0
99	63.6	50.1	75.1

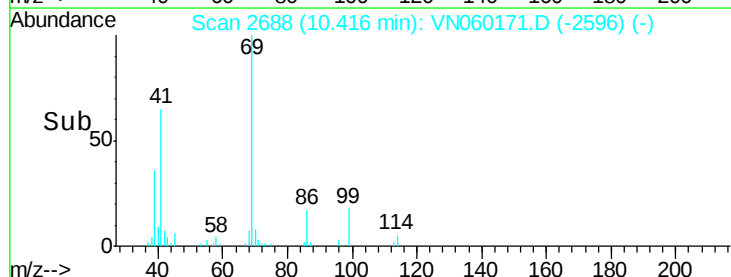
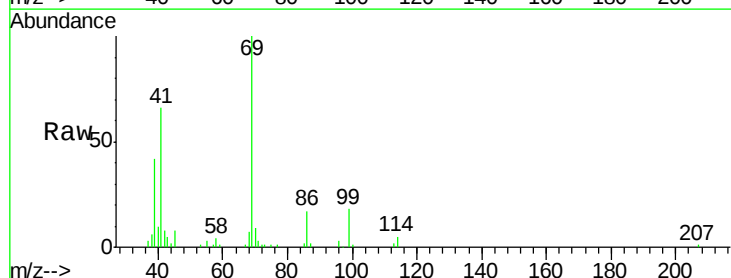
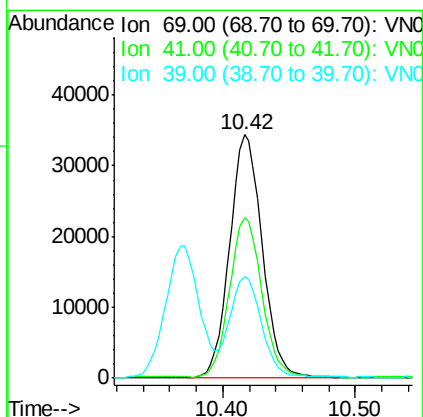
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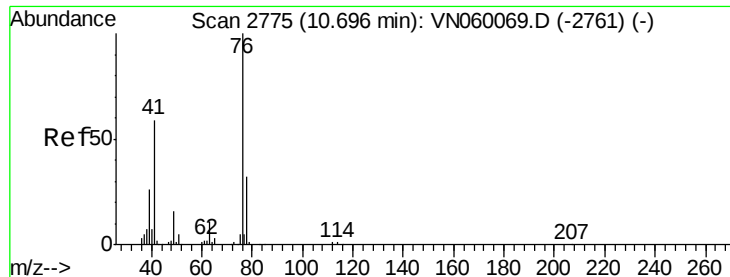
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 2/21/2020 9:15:04 AM



#56
 Ethyl methacrylate
 Concen: 18.875 ug/l
 RT: 10.42 min Scan# 2688
 Delta R.T. -0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Lower	Upper
69	100		
41	65.9	51.1	76.7
39	42.2	33.8	50.8





#57

1,3-Dichloropropane

Concen: 19.024 ug/l

RT: 10.70 min Scan# 2775

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBSD01

Tot Ion: 76 Resp: 69177

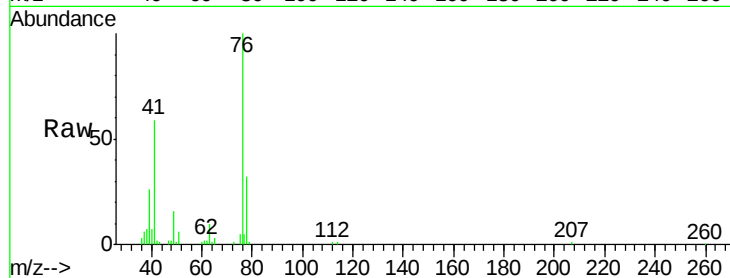
Ion Ratio Lower Upper

76 100

78 32.5 25.7 38.5

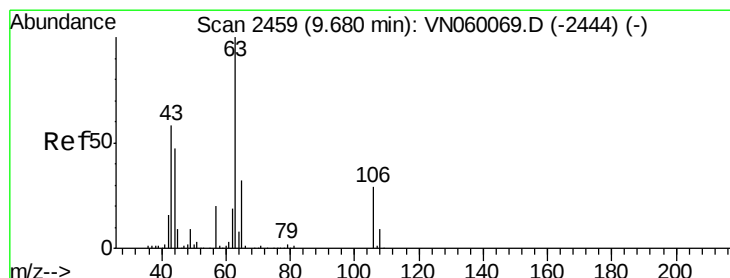
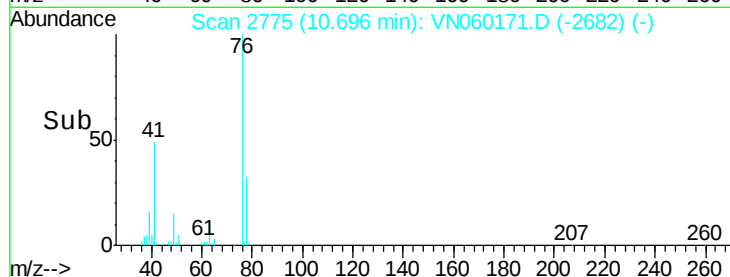
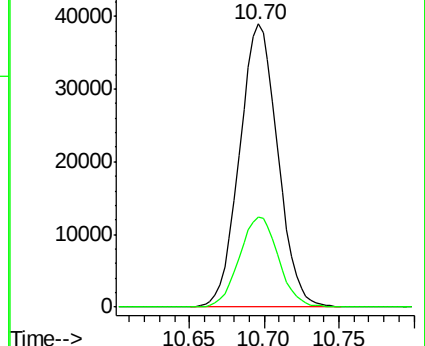
Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:15:04 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 100.583 ug/l

RT: 9.68 min Scan# 2459

Delta R.T. 0.00 min

Lab File: VN060171.D

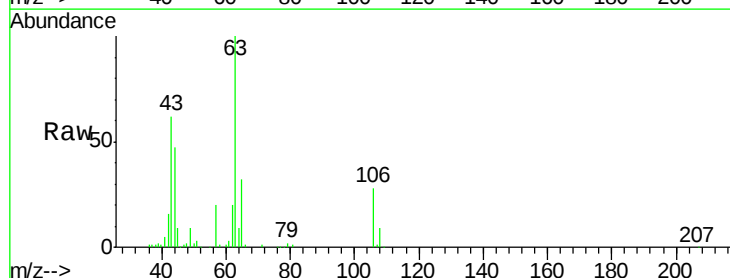
Acq: 20 Feb 2020 14:48

Tgt Ion: 63 Resp: 146081

Ion Ratio Lower Upper

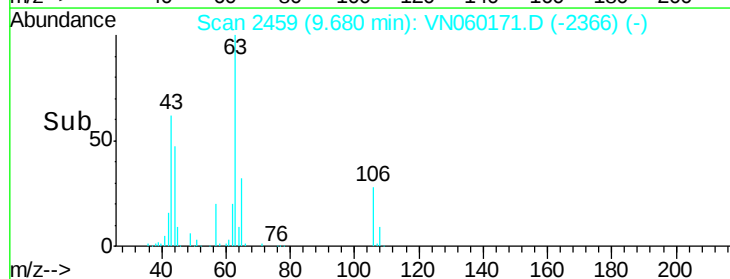
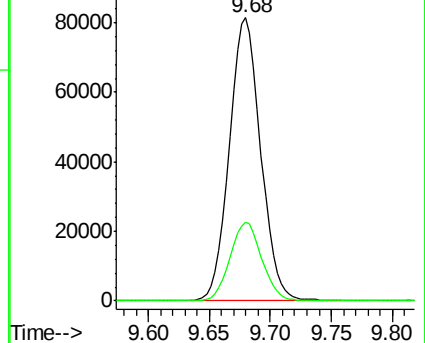
63 100

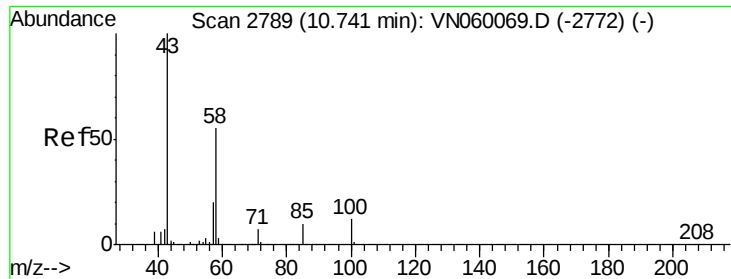
106 28.0 22.9 34.3



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





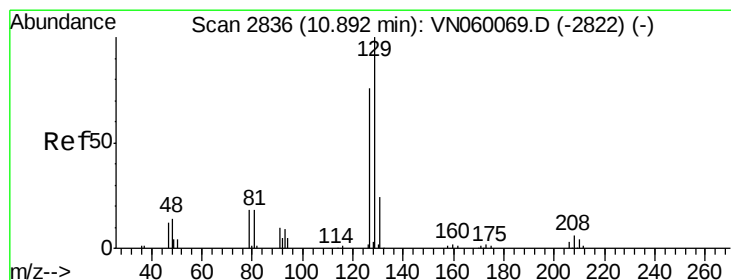
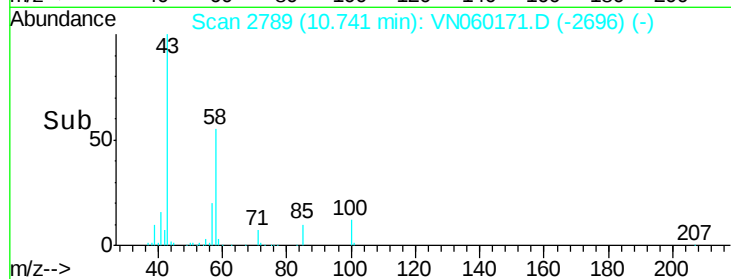
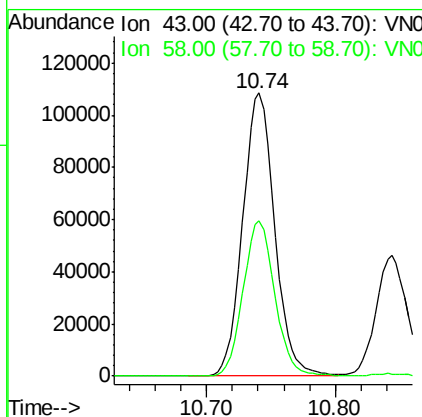
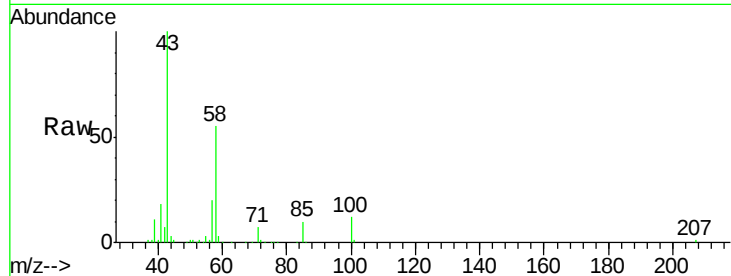
#59
2-Hexanone
Concen: 91.504 ug/l
RT: 10.74 min Scan# 2789
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBSD01

Tot Ion: 43 Resp: 187701
Ion Ratio Lower Upper
43 100
58 54.3 27.5 82.4

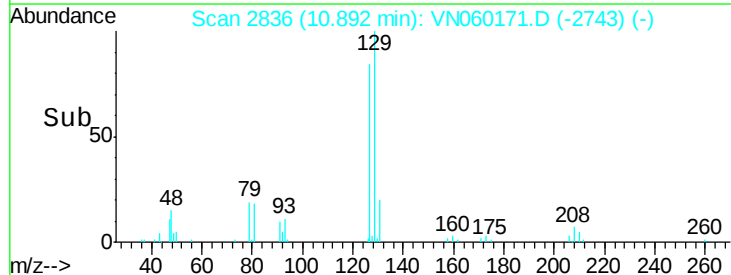
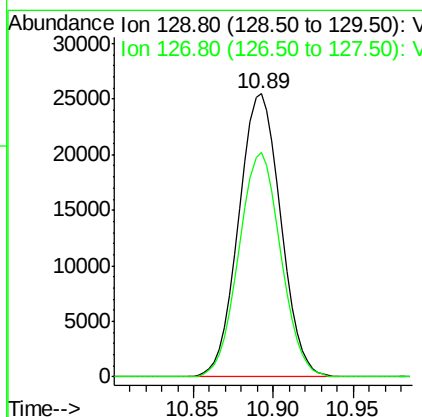
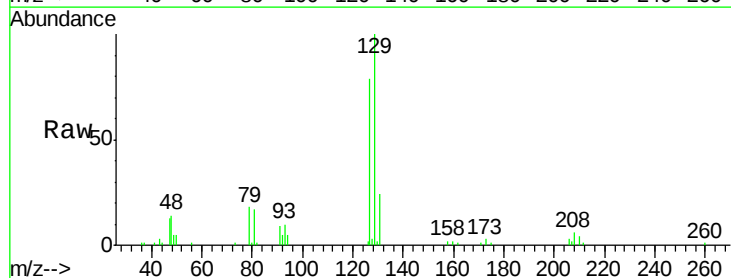
Manual Integrations
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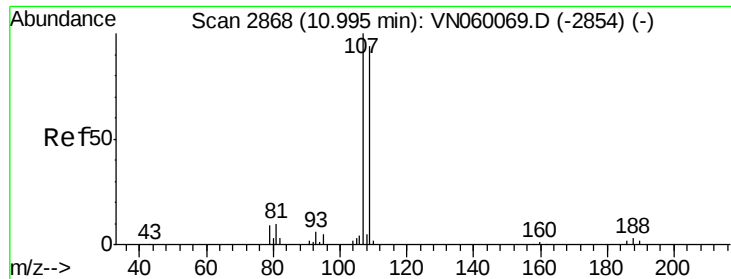
MMDadoda
2/21/2020 9:15:04 AM



#60
Dibromochloromethane
Concen: 18.099 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion: 129 Resp: 45770
Ion Ratio Lower Upper
129 100
127 78.9 38.0 114.1





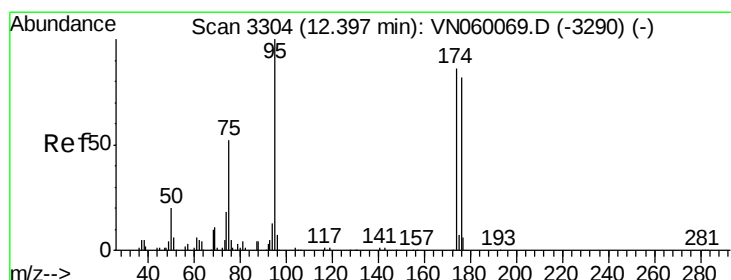
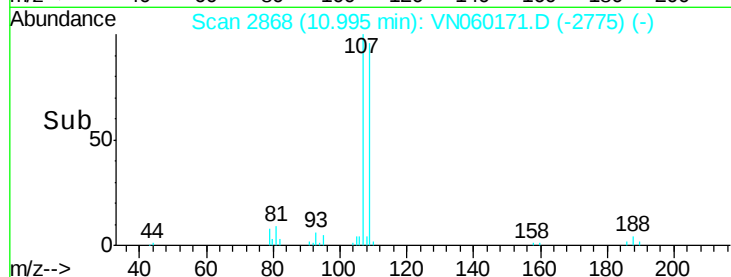
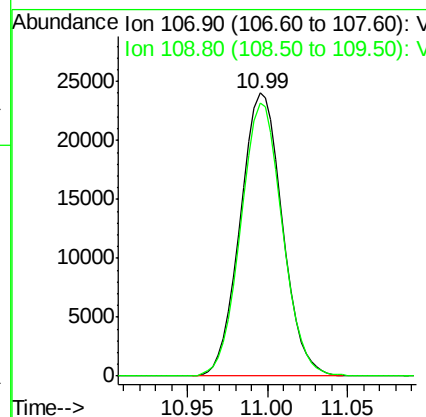
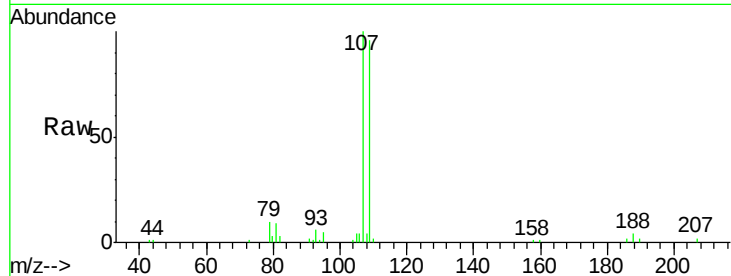
#61
 1,2-Dibromoethane
 Concen: 18.629 ug/l
 RT: 10.99 min Scan# 2868
 Delta R.T. 0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBS01

Tot Ion: 107 Resp: 43037
 Ion Ratio Lower Upper
 107 100
 109 95.5 75.4 113.0

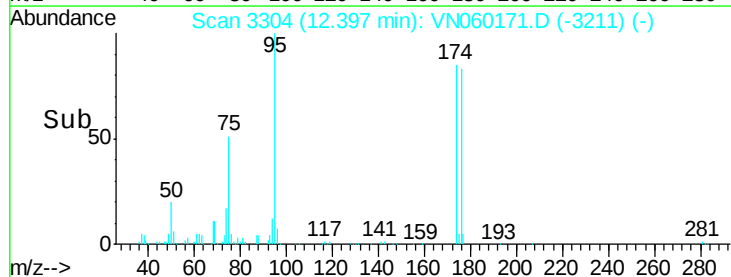
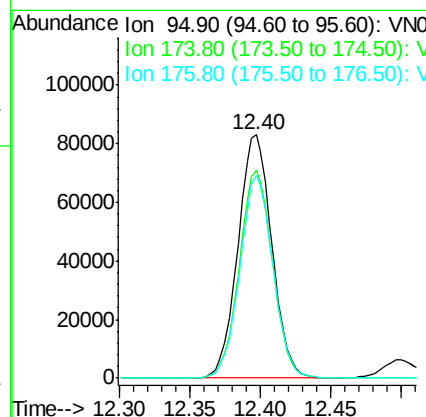
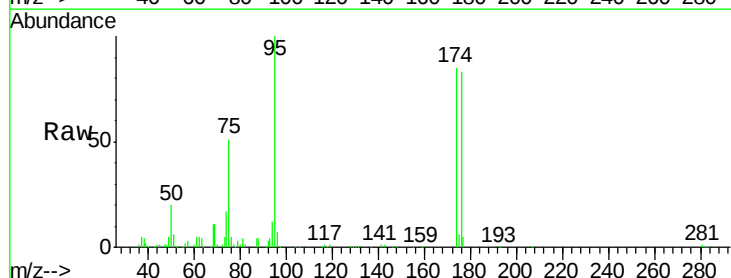
Manual Integrations
 APPROVED

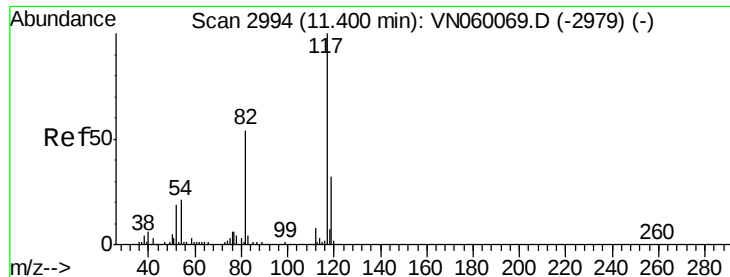
MMDadoda
 2/21/2020 9:15:04 AM



#62
 4-Bromofluorobenzene
 Concen: 48.937 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Tgt Ion: 95 Resp: 139555
 Ion Ratio Lower Upper
 95 100
 174 83.8 0.0 169.8
 176 81.4 0.0 164.8





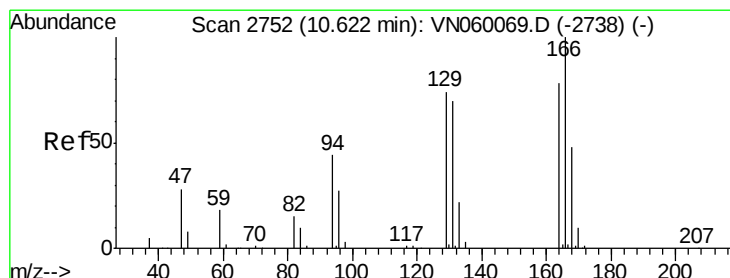
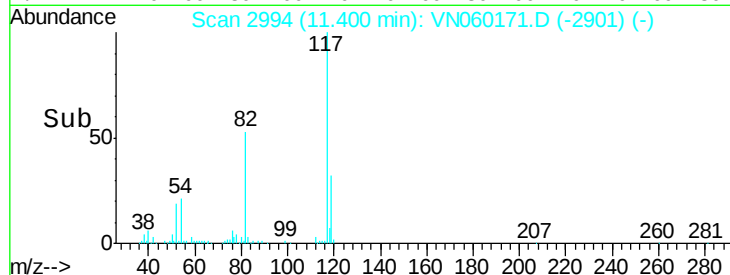
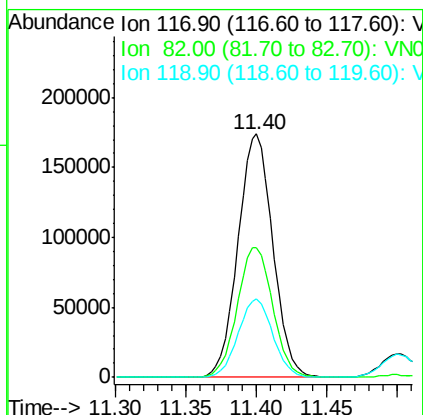
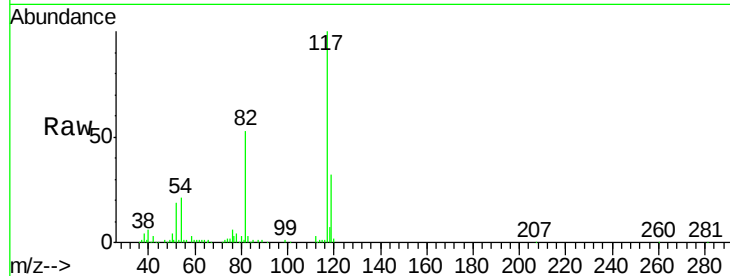
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	301410		
82	53.4	43.4	65.0	
119	32.1	25.8	38.6	

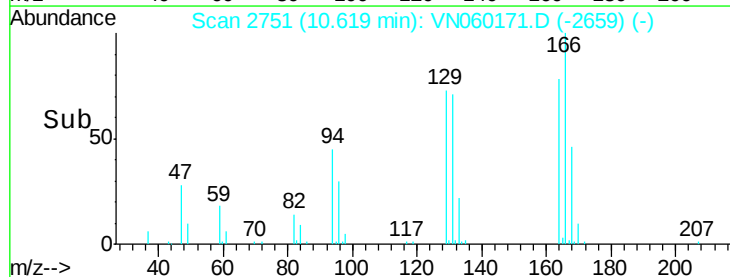
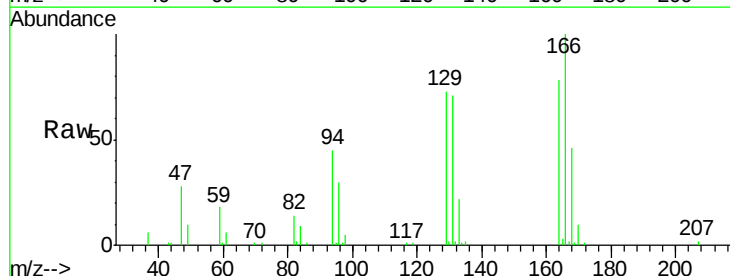
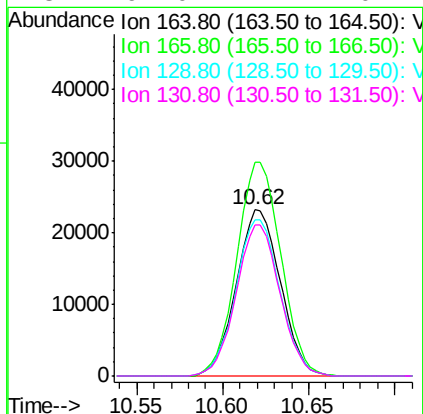
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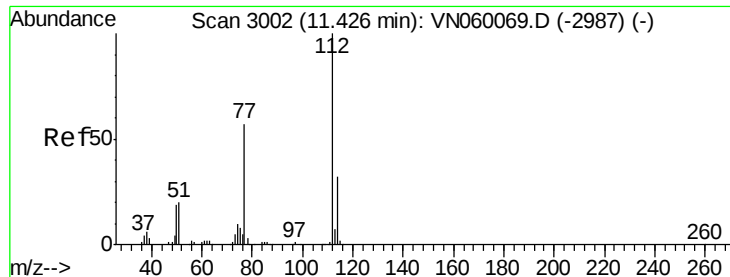
MMDadoda
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#64
Tetrachloroethene
Concen: 18.090 ug/l
RT: 10.62 min Scan# 2751
Delta R.T. -0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	41449		
166	128.4	101.9	152.9	
129	94.1	75.4	113.0	
131	91.0	71.4	107.2	





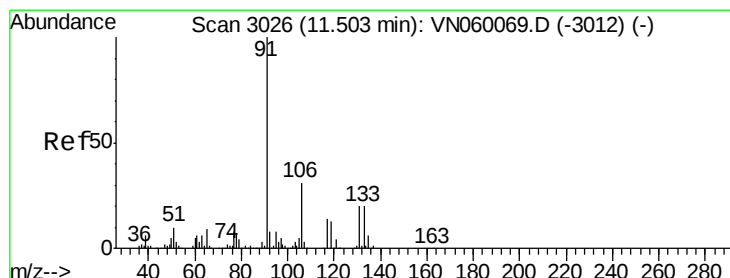
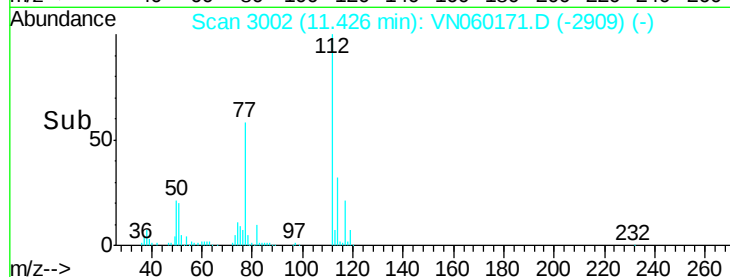
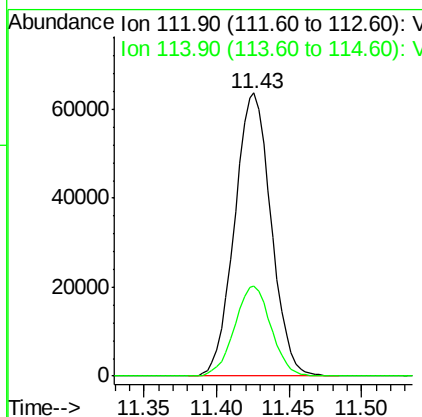
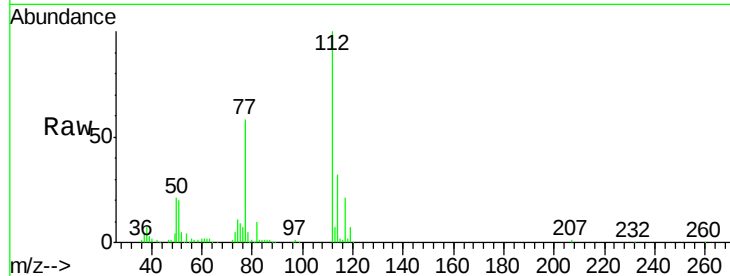
#65
Chlorobenzene
Concen: 18.101 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampled :
VN0220MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	111152		
114	31.9	25.4	38.0	

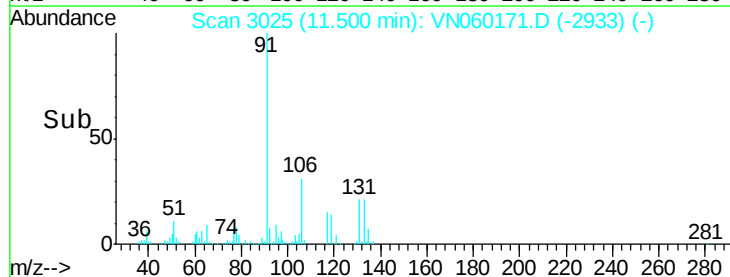
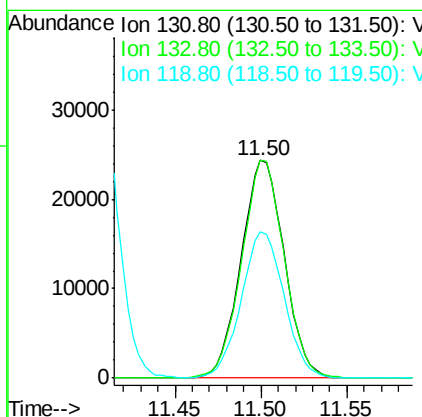
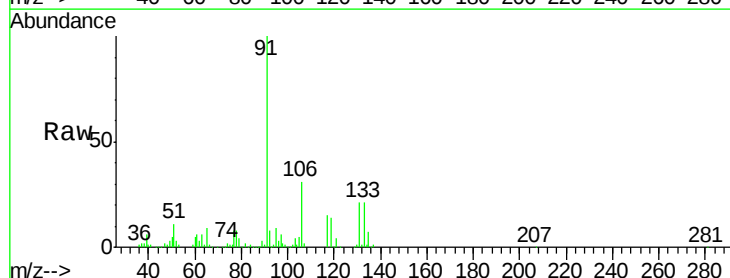
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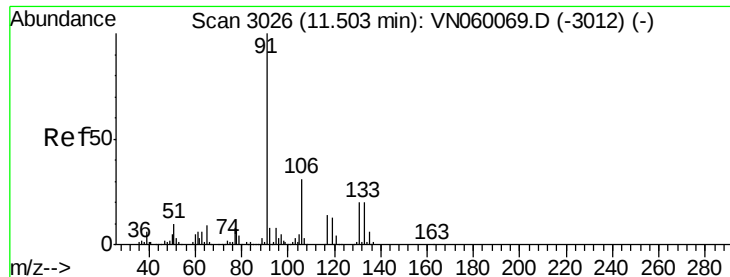
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#66
1,1,1,2-Tetrachloroethane
Concen: 18.175 ug/l
RT: 11.50 min Scan# 3025
Delta R.T. -0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	42222		
133	99.0	47.9	143.7	
119	67.0	32.6	97.7	





#67

Ethyl Benzene

Concen: 18.220 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampled :

VN0220MBSD01

Tot Ion: 91 Resp: 201793

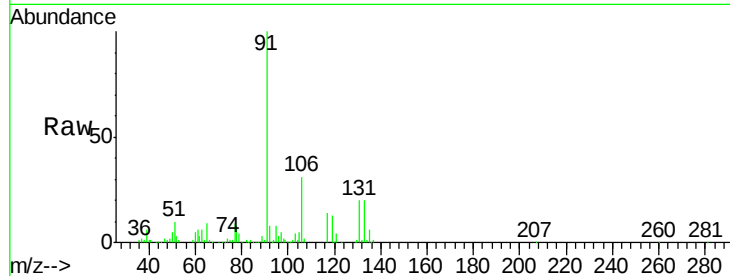
Ion Ratio Lower Upper

91 100

106 30.9 25.1 37.7

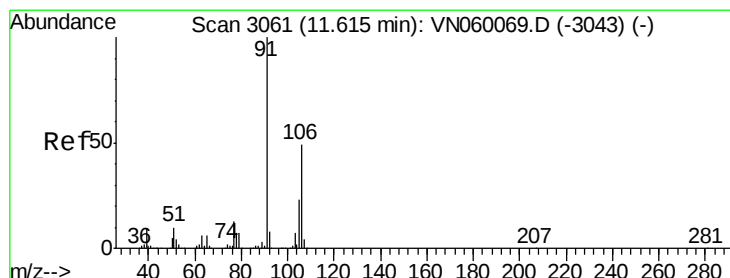
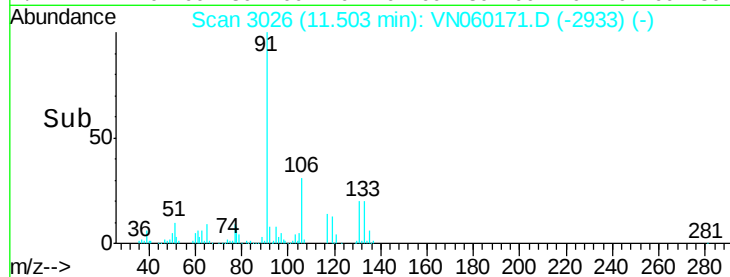
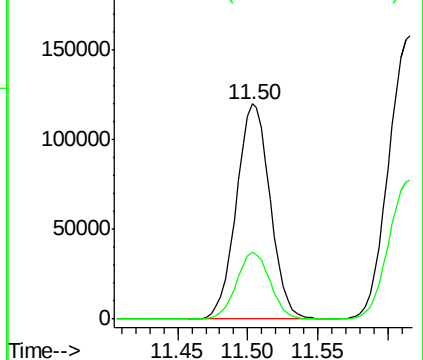
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 36.608 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. 0.00 min

Lab File: VN060171.D

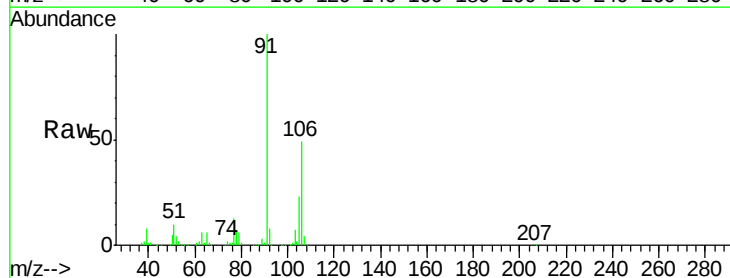
Acq: 20 Feb 2020 14:48

Tgt Ion: 106 Resp: 152172

Ion Ratio Lower Upper

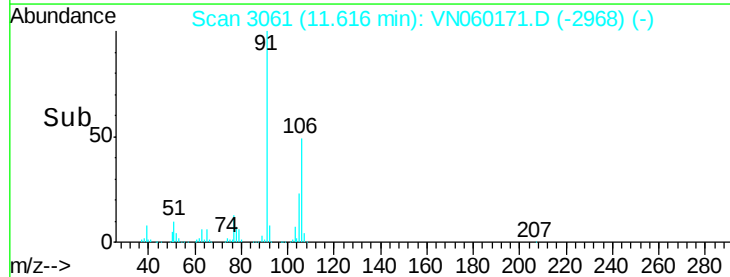
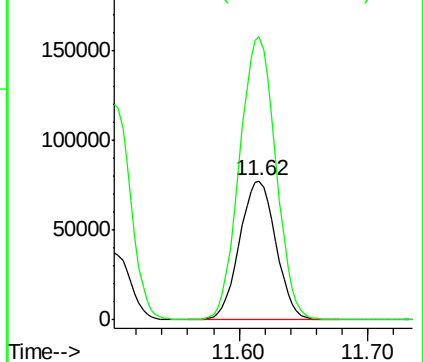
106 100

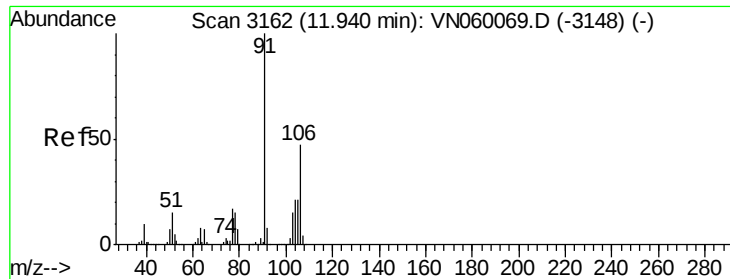
91 202.7 162.7 244.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





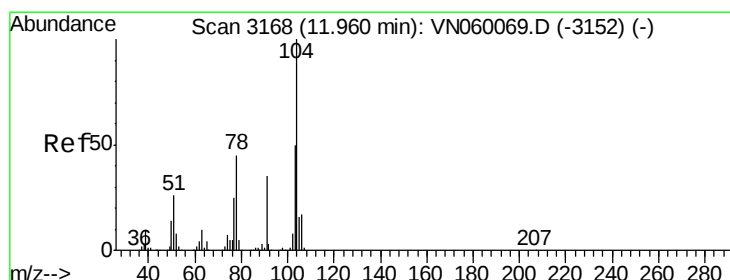
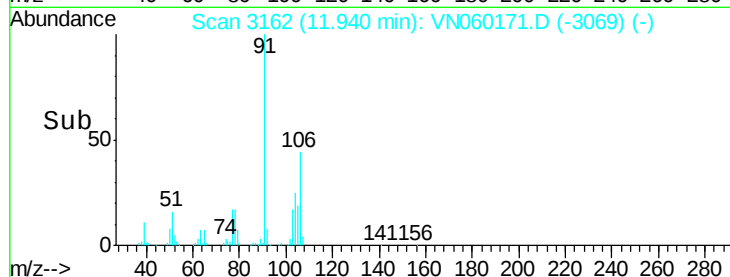
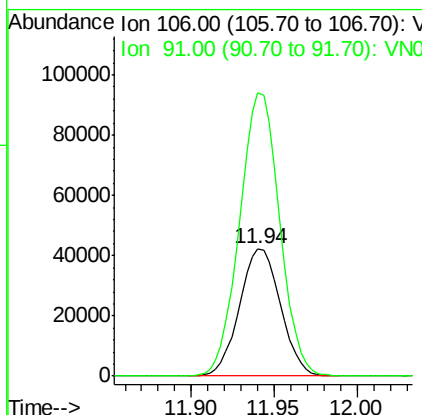
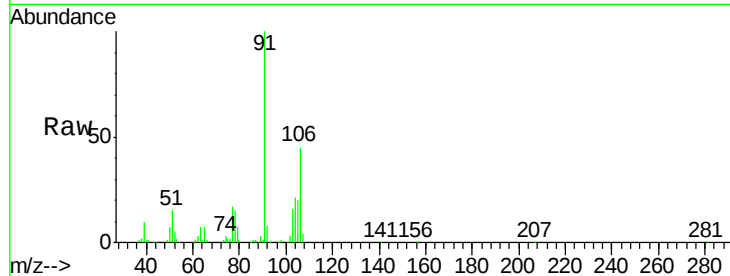
#69
o-Xylene
Concen: 18.189 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	217.3	107.2	321.6	

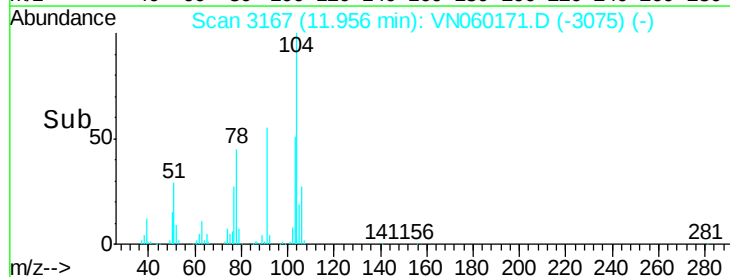
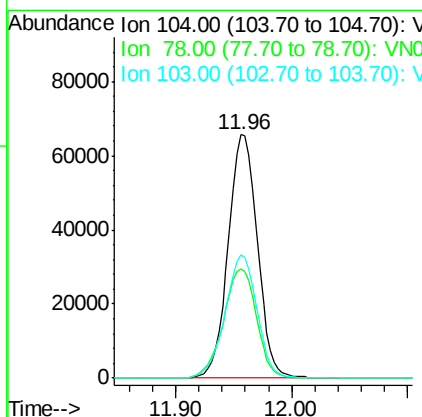
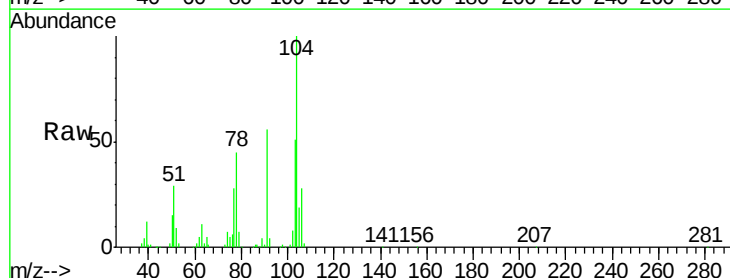
Manual Integrations
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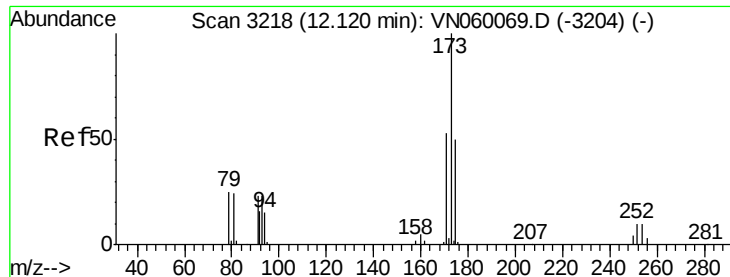
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#70
Styrene
Concen: 17.766 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. -0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	50.6	40.2	60.2	
103	55.3	44.3	66.5	





#71

Bromoform

Concen: 18.100 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBSD01

Tot Ion:173 Resp: 33819

Ion Ratio Lower Upper

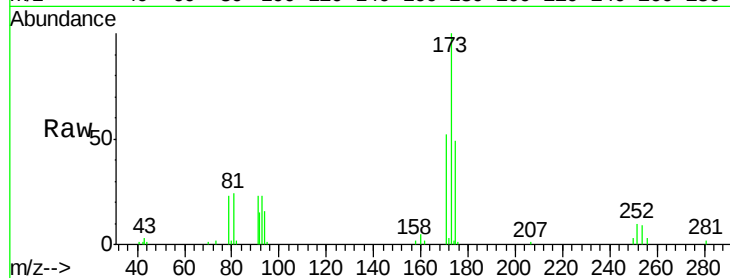
173 100

175 48.6 24.9 74.6

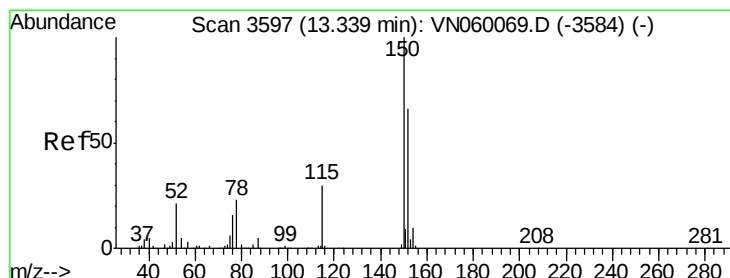
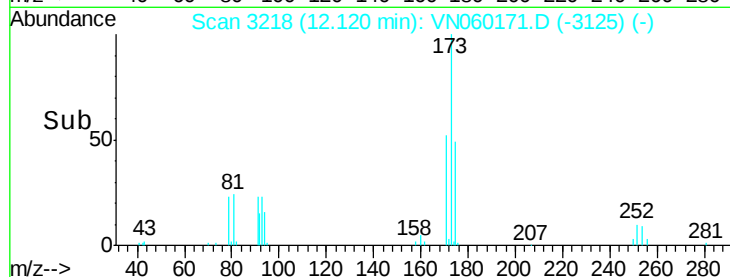
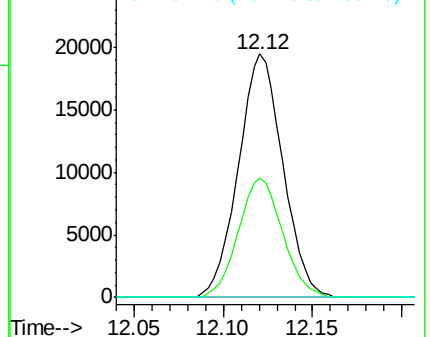
254 0.0 0.0 0.0

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

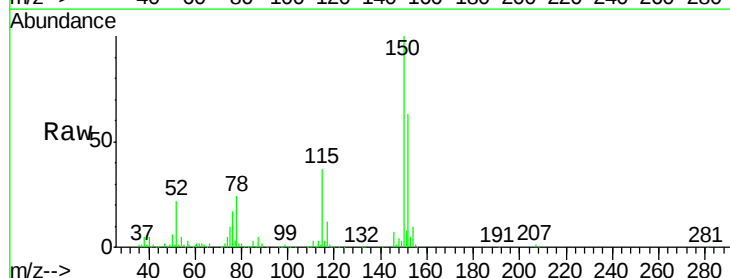
Tgt Ion:152 Resp: 145106

Ion Ratio Lower Upper

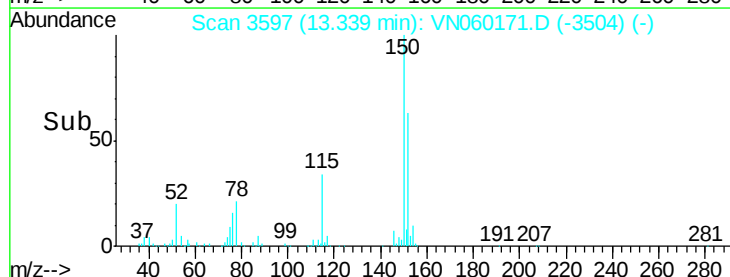
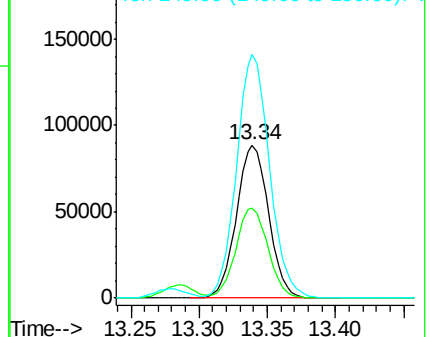
152 100

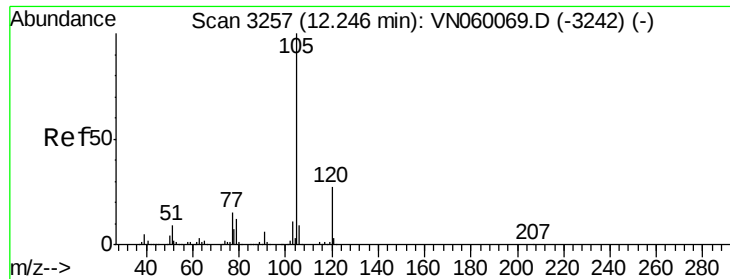
115 59.0 28.9 86.8

150 163.4 0.0 342.4



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: 17.978 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampled :

VN0220MBS01

Tot Ion: 105 Resp: 194801

Ion Ratio Lower Upper

105 100

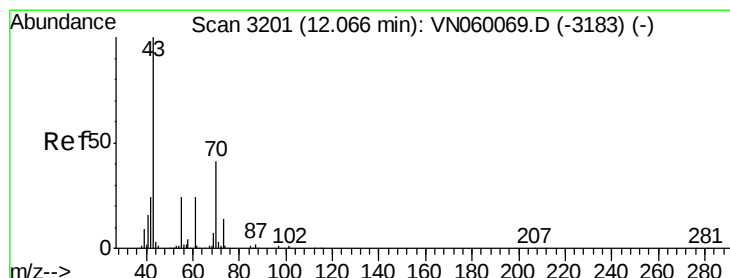
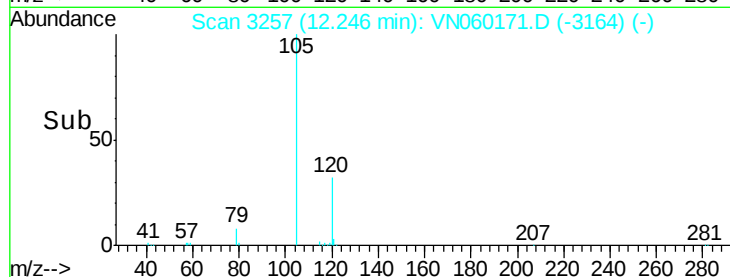
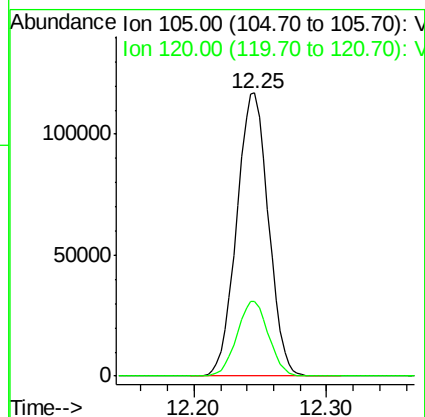
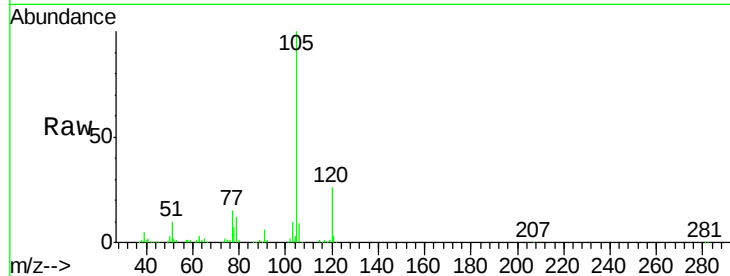
120 26.1 13.3 39.8

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#74

N-ethyl acetate

Concen: 19.162 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Tgt Ion: 43 Resp: 74874

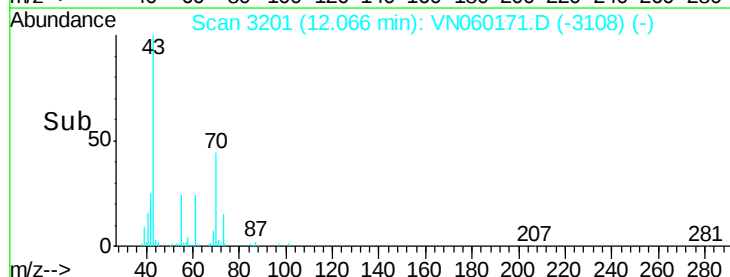
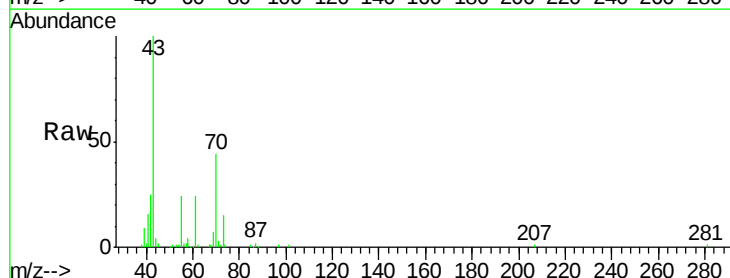
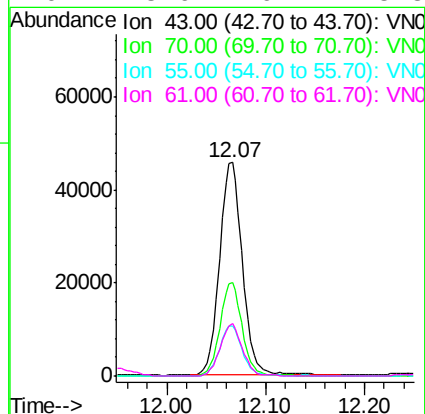
Ion Ratio Lower Upper

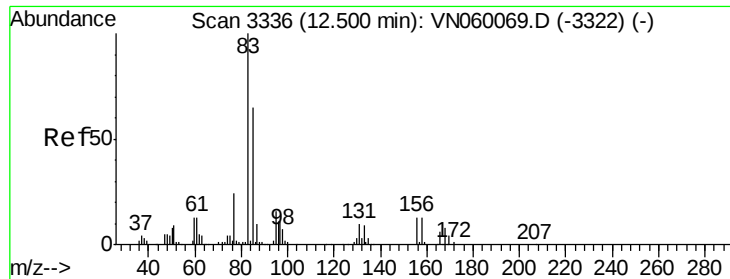
43 100

70 42.2 33.4 50.0

55 23.3 18.8 28.2

61 23.6 19.2 28.8





#75

1,1,2,2-Tetrachloroethane

Concen: 18.824 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

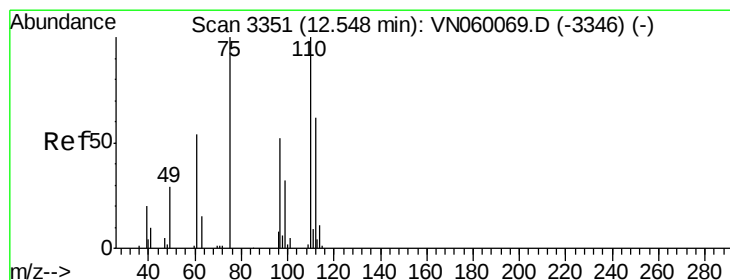
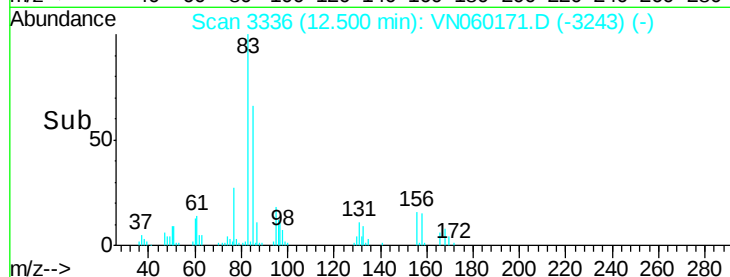
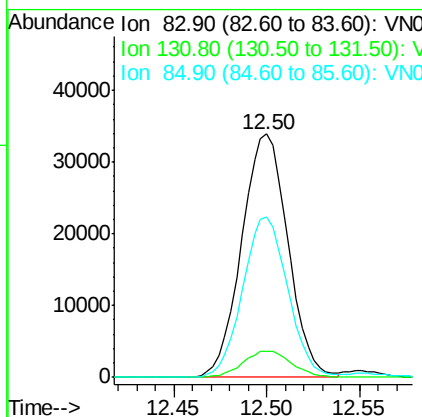
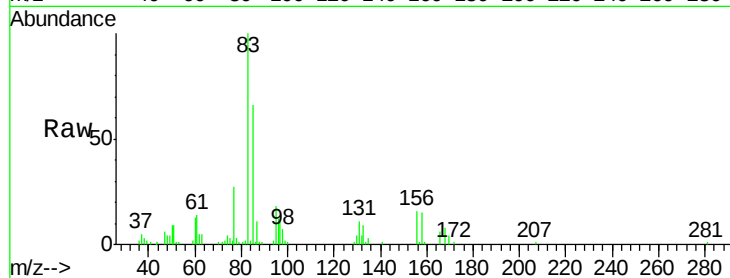
ClientSampleId :

VN0220MBSD01

Tot Ion:	83	Resp:	58711
Ion Ratio	Lower	Upper	
83	100		
131	11.2	5.2	15.6
85	64.2	32.3	96.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 19.146 ug/l m

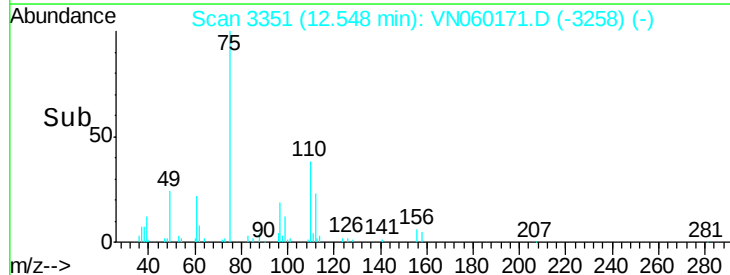
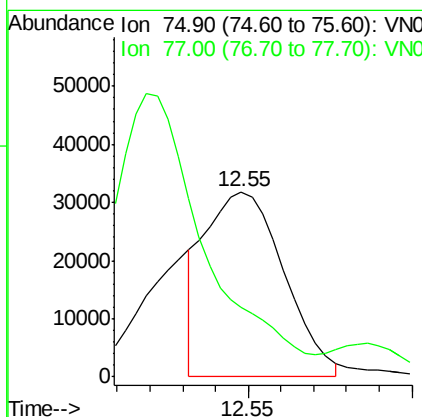
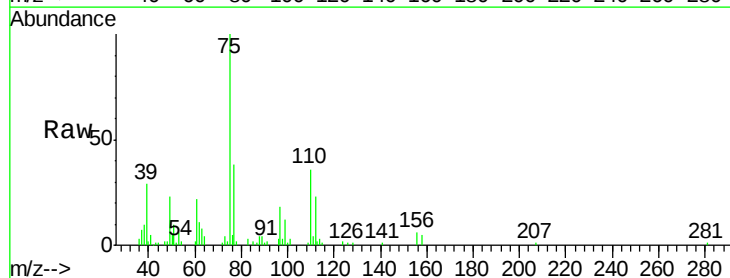
RT: 12.55 min Scan# 3351

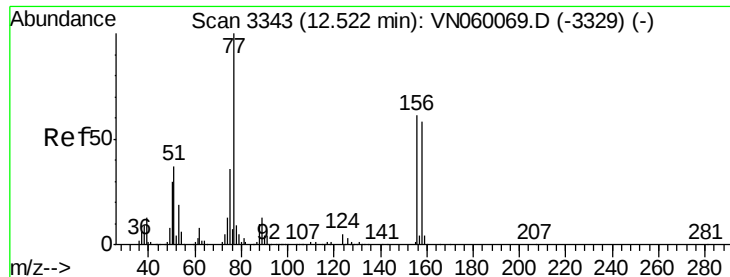
Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Tgt Ion:	75	Resp:	53152
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.331 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

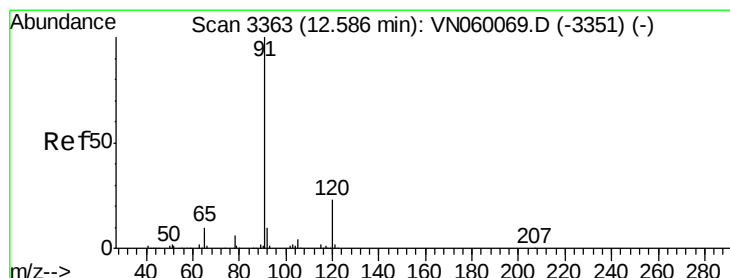
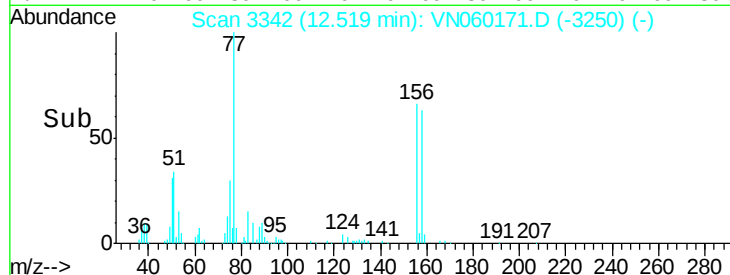
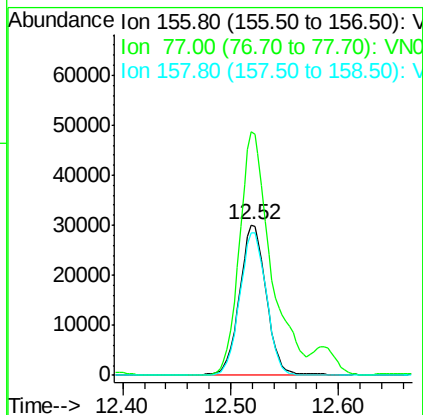
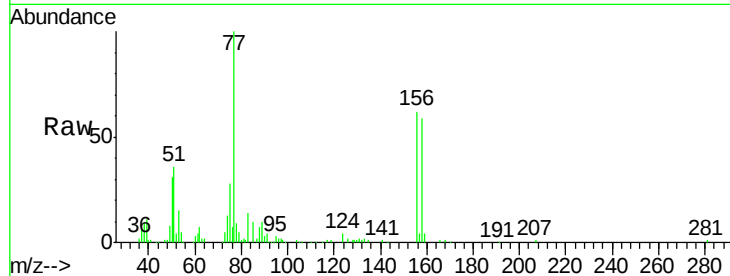
ClientSampleId :

VN0220MBSD01

Tot Ion:	156	Resp:	51982
Ion Ratio	Lower	Upper	
156	100		
77	189.8	98.7	296.1
158	93.6	48.1	144.4

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#78

n-propylbenzene

Concen: 18.101 ug/l

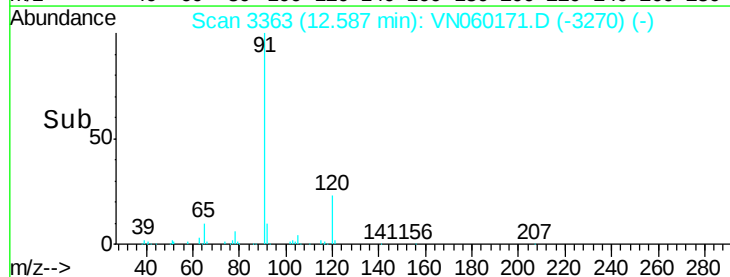
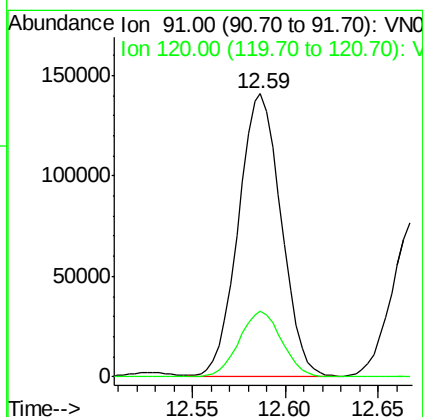
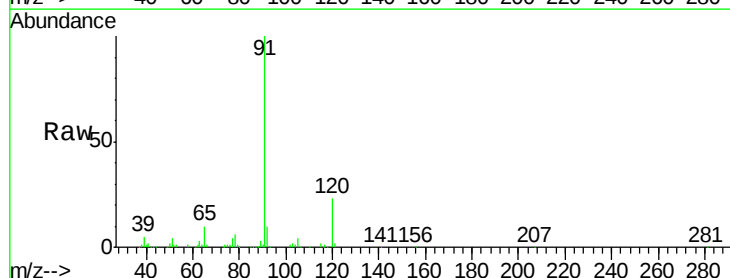
RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Tgt Ion:	91	Resp:	223464
Ion Ratio	Lower	Upper	
91	100		
120	23.4	11.5	34.5





#79

2-Chlorotoluene

Concen: 18.062 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampleId :

VN0220MBSD01

Tot Ion: 91 Resp: 131067

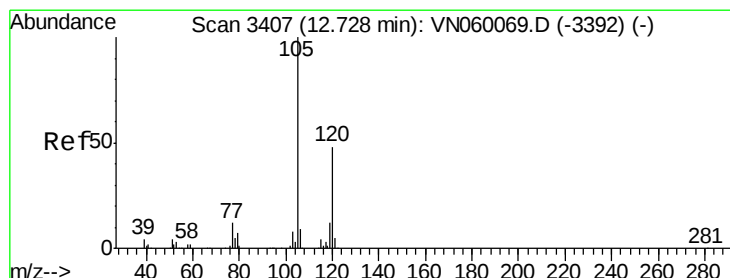
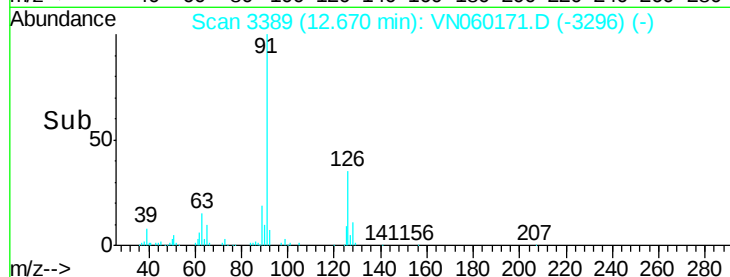
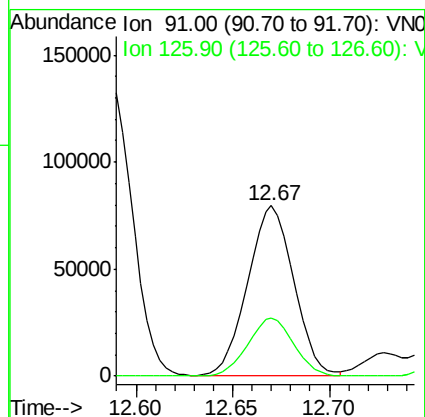
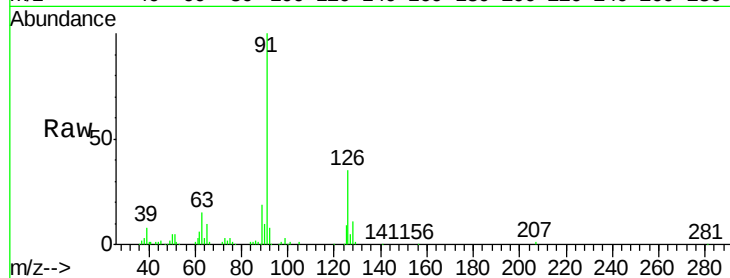
Ion Ratio Lower Upper

91 100

126 34.4 17.4 52.2

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#80

1,3,5-Trimethylbenzene

Concen: 18.210 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060171.D

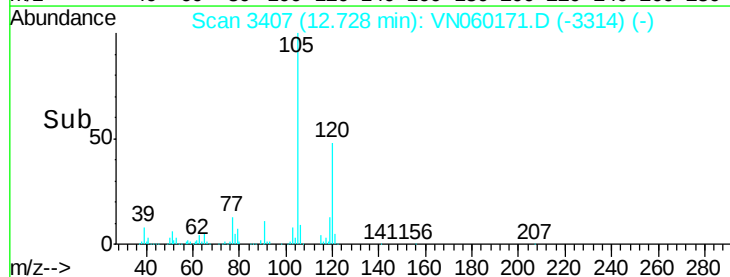
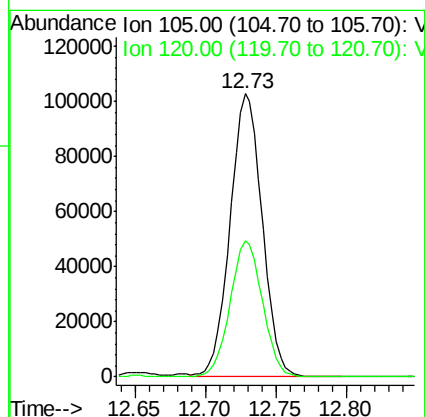
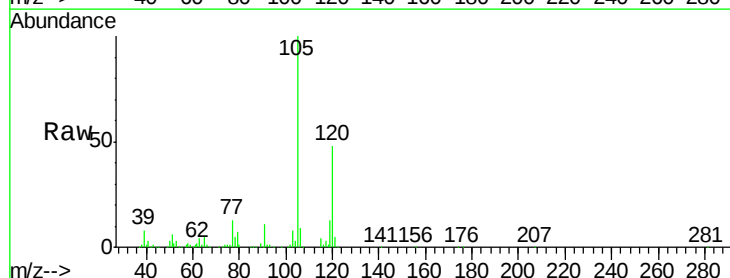
Acq: 20 Feb 2020 14:48

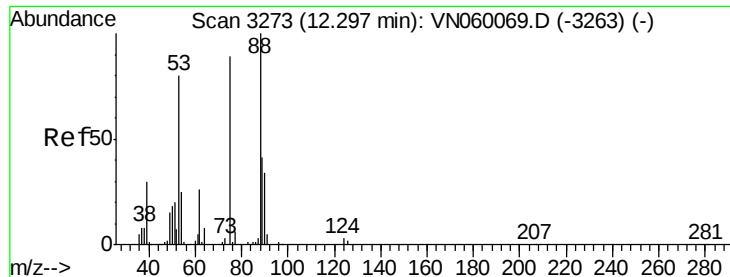
Tgt Ion: 105 Resp: 164059

Ion Ratio Lower Upper

105 100

120 48.4 24.3 72.9





#81

trans-1,4-Dichloro-2-butene

Concen: 18.298 ug/l

RT: 12.29 min Scan# 3272

Delta R.T. -0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

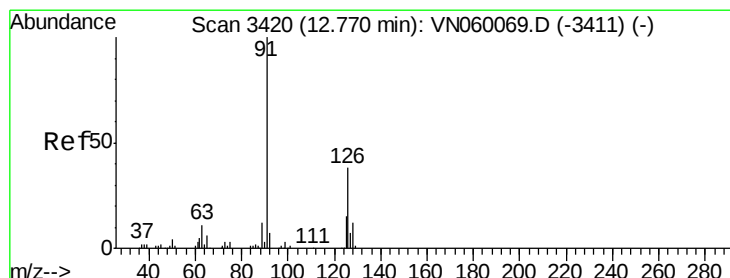
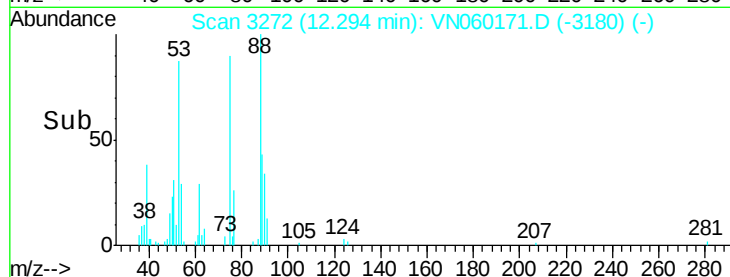
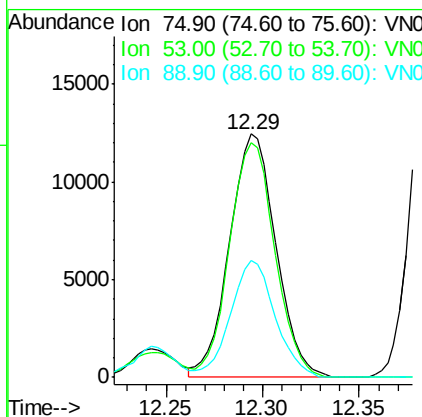
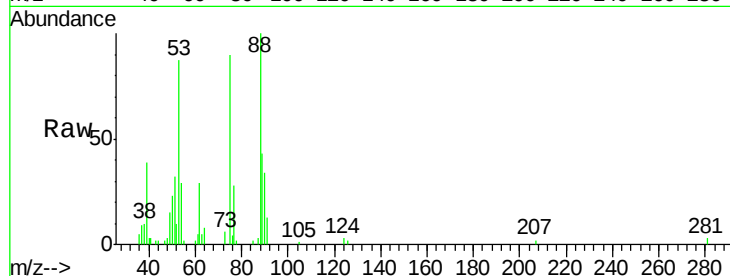
ClientSampleId :

VN0220MBSD01

Tot Ion:	75	Resp:	20747
Ion Ratio	Lower	Upper	
75	100		
53	94.1	73.9	110.9
89	46.0	37.0	55.4

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#82

4-Chlorotoluene

Concen: 18.057 ug/l

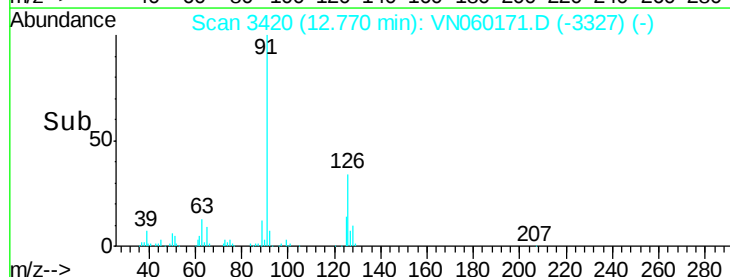
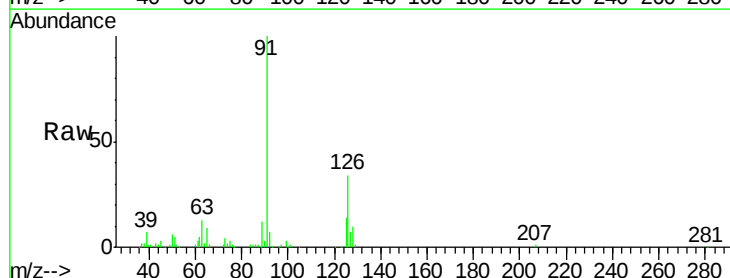
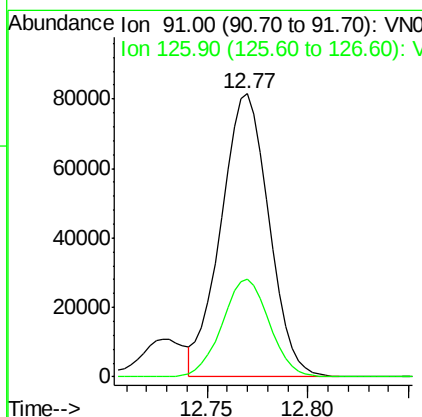
RT: 12.77 min Scan# 3420

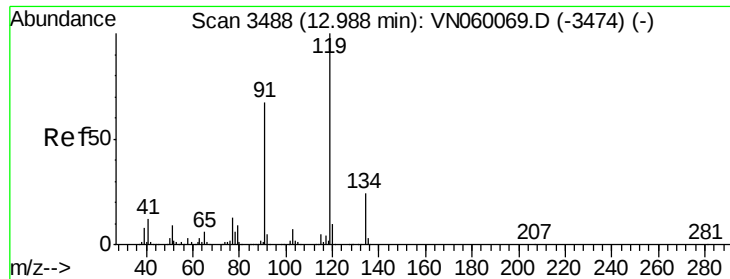
Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Tgt Ion:	91	Resp:	134433
Ion Ratio	Lower	Upper	
91	100		
126	34.3	17.1	51.3





#83

tert-Butylbenzene

Concen: 17.545 ug/l

RT: 12.99 min Scan# 3488

Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Instrument :

MSVOA_N

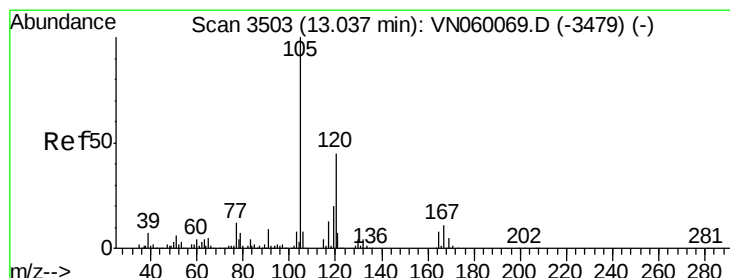
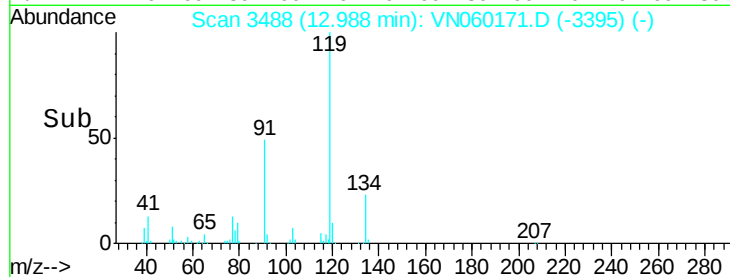
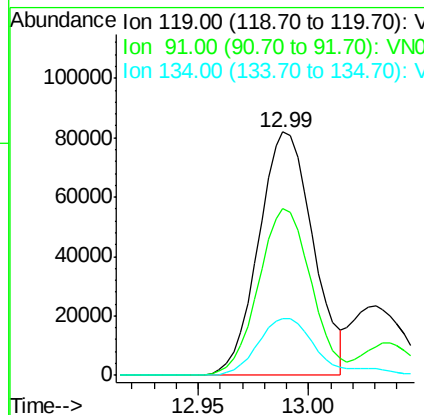
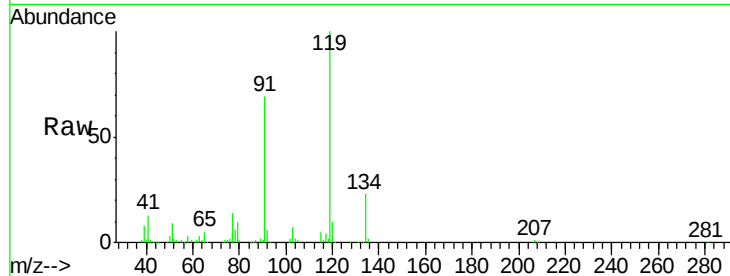
ClientSampleId :

VN0220MBSD01

Tot Ion:	119	Resp:	139829
Ion Ratio	Lower	Upper	
119	100		
91	66.4	32.7	98.1
134	24.0	12.9	38.7

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 18.637 ug/l

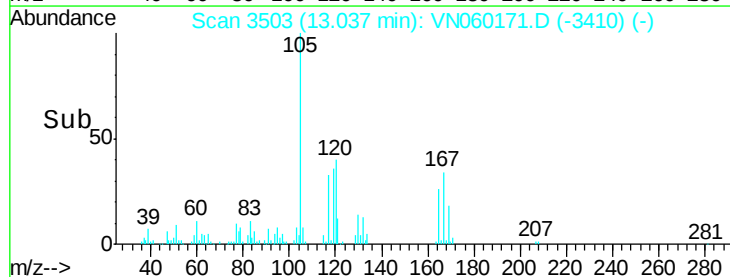
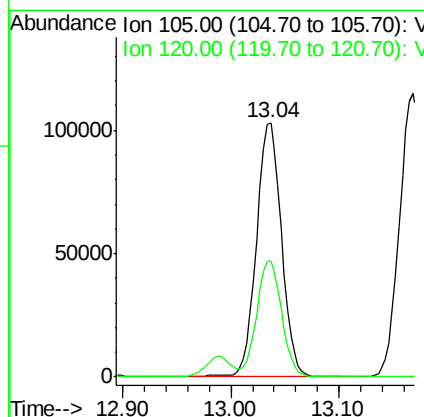
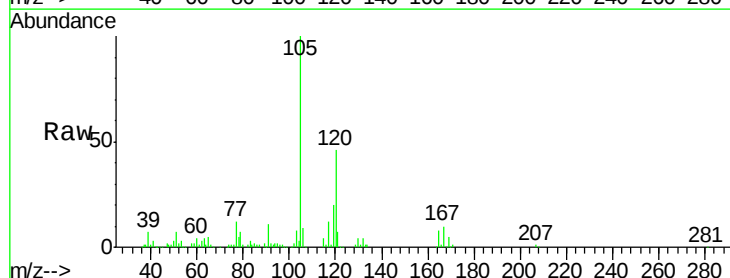
RT: 13.04 min Scan# 3503

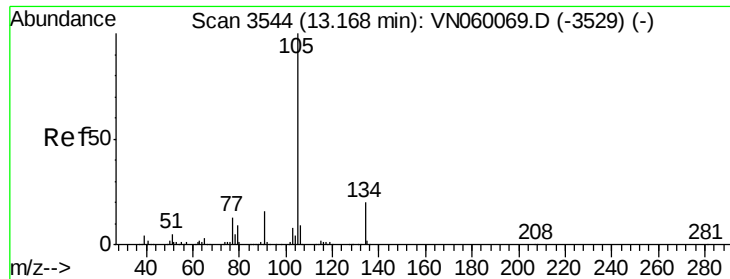
Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Tgt Ion:	105	Resp:	165749
Ion Ratio	Lower	Upper	
105	100		
120	45.4	22.4	67.3





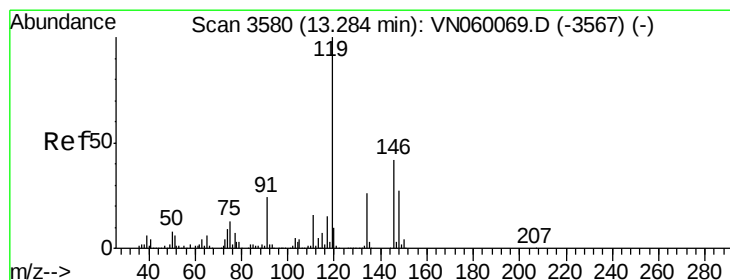
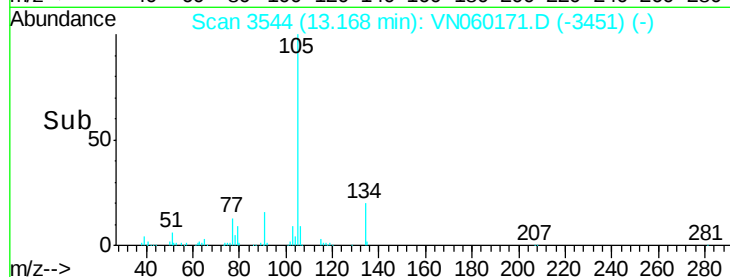
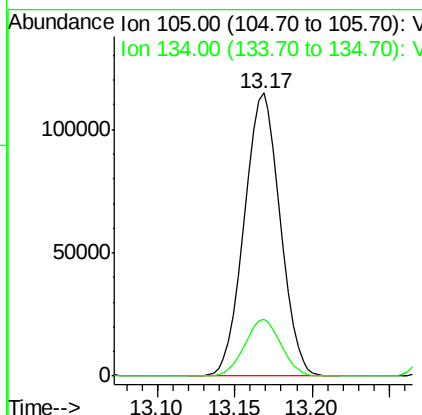
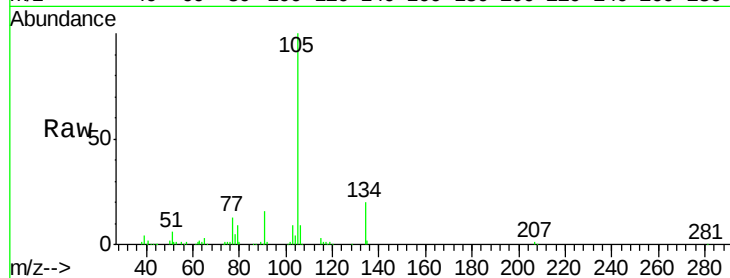
#85
 sec-Butylbenzene
 Concen: 17.582 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. 0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	185580		
134	20.2	9.9	29.7	

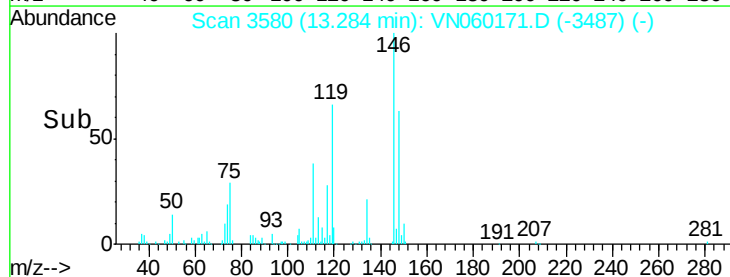
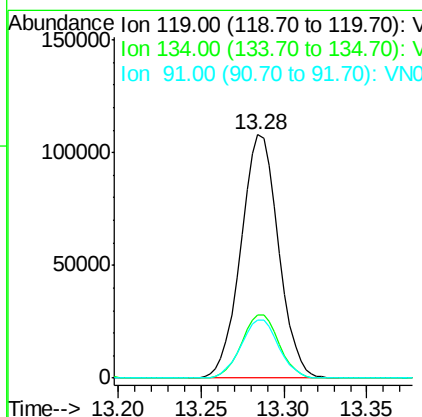
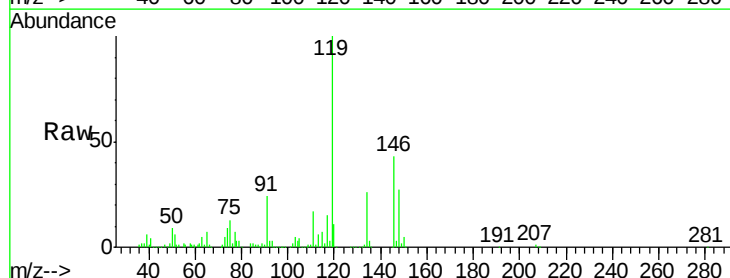
Manual Integrations
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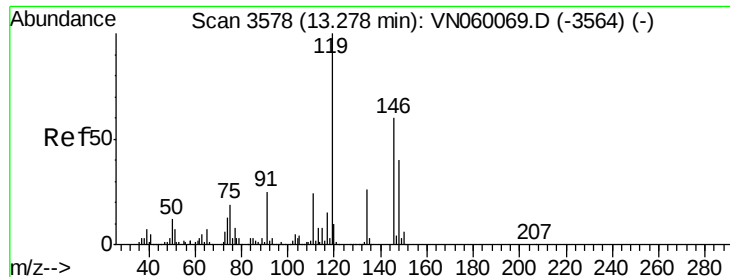
MMDadoda
 2/21/2020 9:15:04 AM



#86
 p-Isopropyltoluene
 Concen: 17.700 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	169272		
134	26.0	13.3	39.8	
91	24.3	11.9	35.9	





#87

1,3-Dichlorobenzene

Concen: 18.162 ug/l

RT: 13.28 min Scan# 3578

Delta R.T. 0.00 min

Lab File: VN060171.D

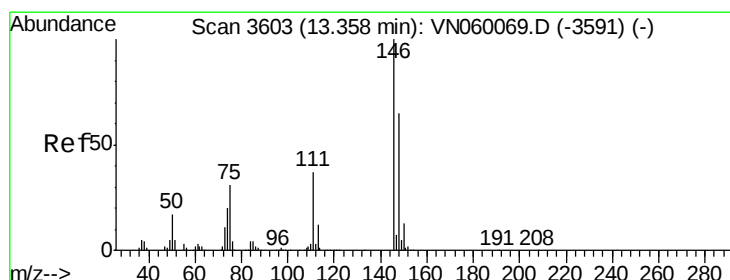
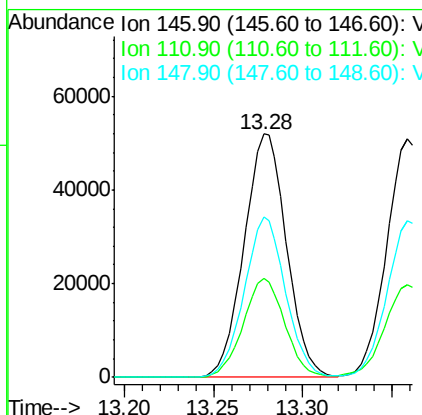
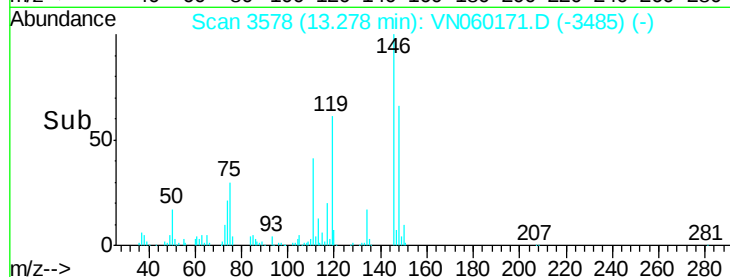
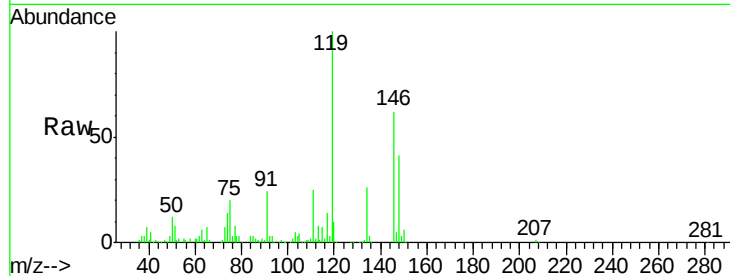
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampled :
VN0220MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.9	19.8	59.3
148	64.1	32.0	96.2

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#88

1,4-Dichlorobenzene

Concen: 18.246 ug/l

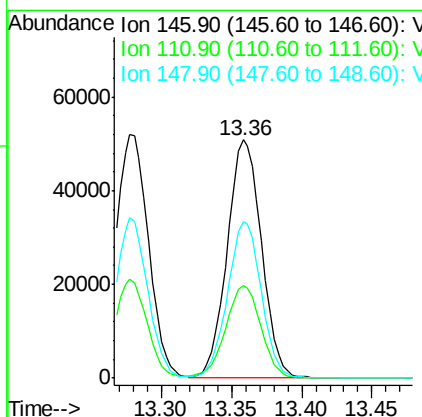
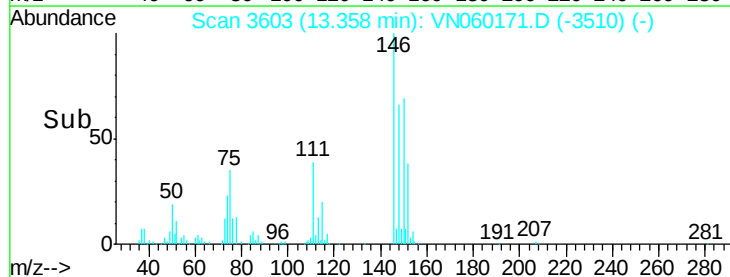
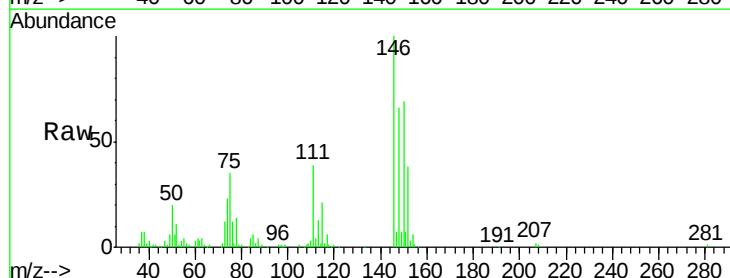
RT: 13.36 min Scan# 3603

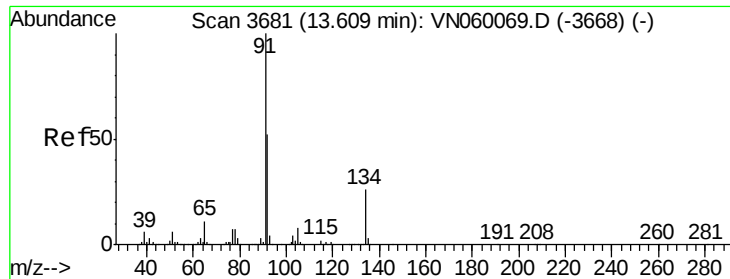
Delta R.T. 0.00 min

Lab File: VN060171.D

Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.9	18.9	56.5
148	64.4	32.0	96.0





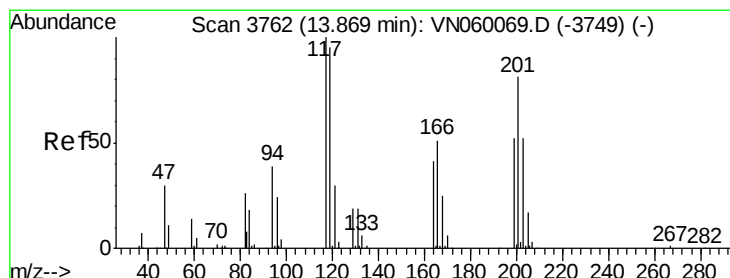
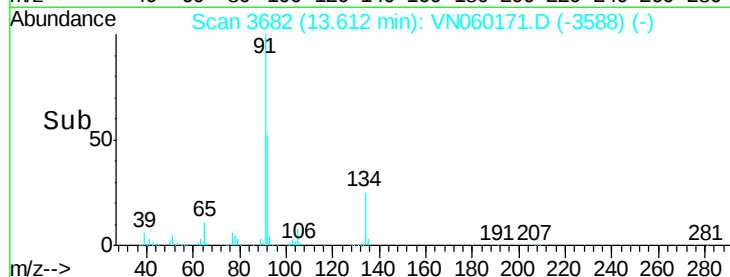
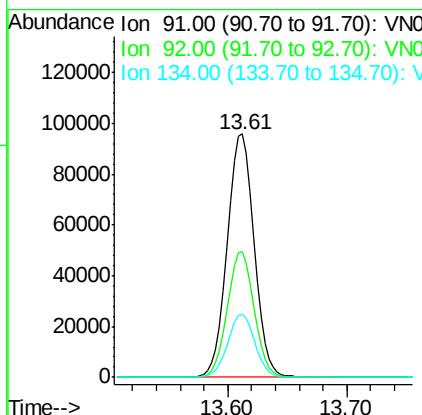
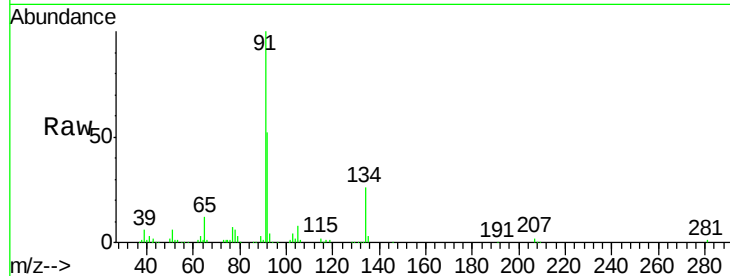
#89
n-Butylbenzene
Concen: 17.929 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.2	26.1	78.2
134	26.3	13.1	39.3

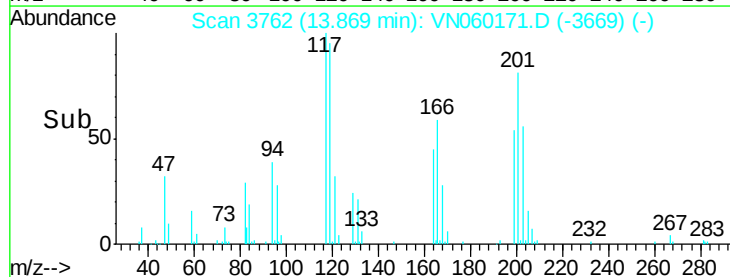
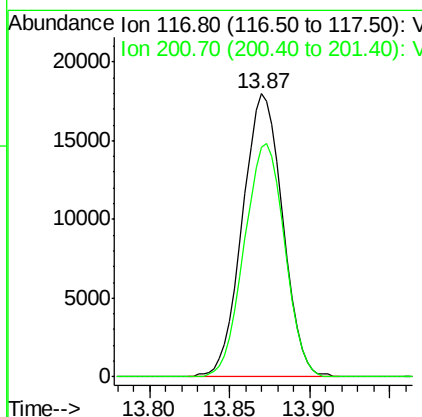
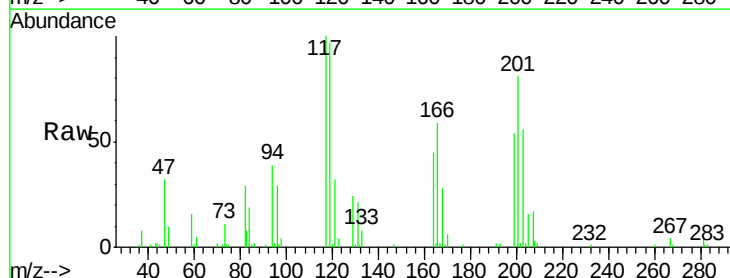
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#90
Hexachloroethane
Concen: 17.335 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.9	41.7	125.1





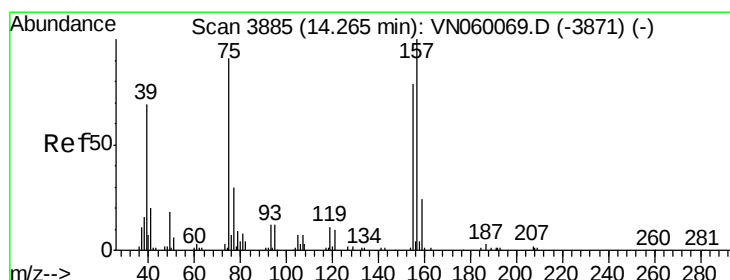
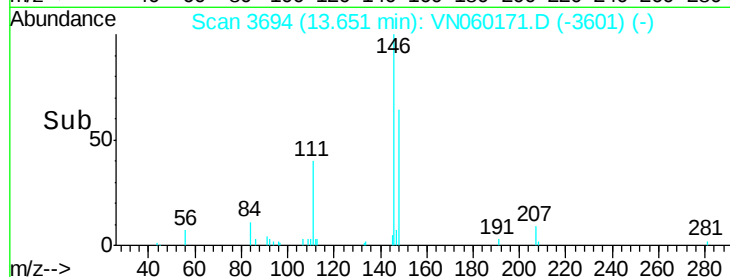
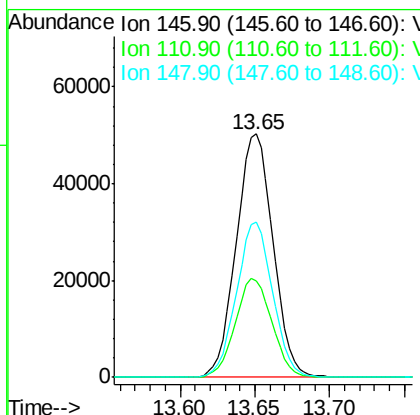
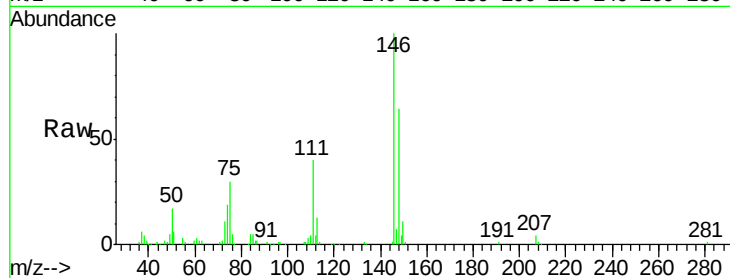
#91
 1,2-Dichlorobenzene
 Concen: 18.496 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.1	60.2
148	62.6	31.9	95.5

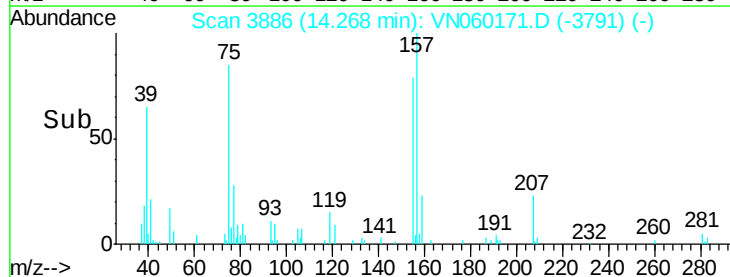
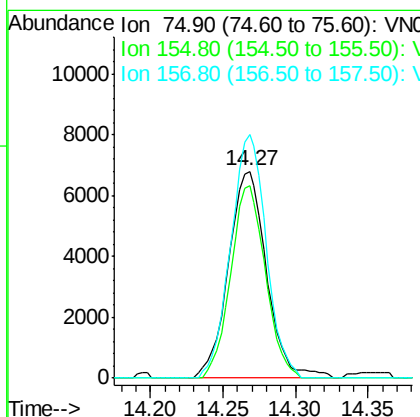
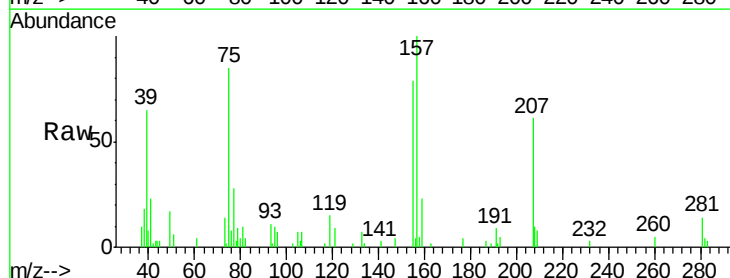
Manual Integrations
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 2/21/2020 9:15:04 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.206 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.5	43.0	129.0
157	109.4	54.9	164.5





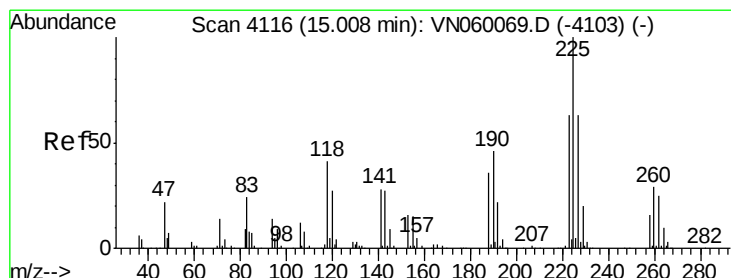
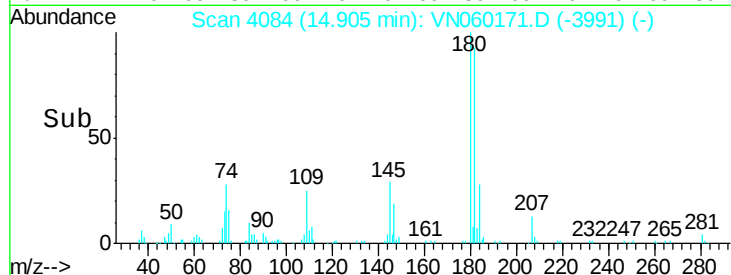
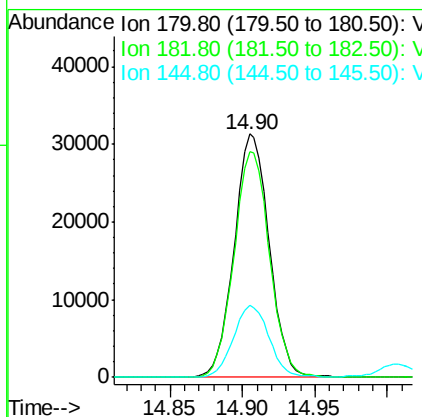
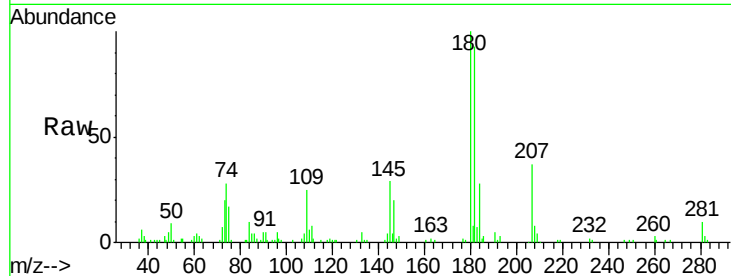
#93
 1,2,4-Trichlorobenzene
 Concen: 19.165 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. 0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0220MBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.9	143.8
145	30.0	15.2	45.5

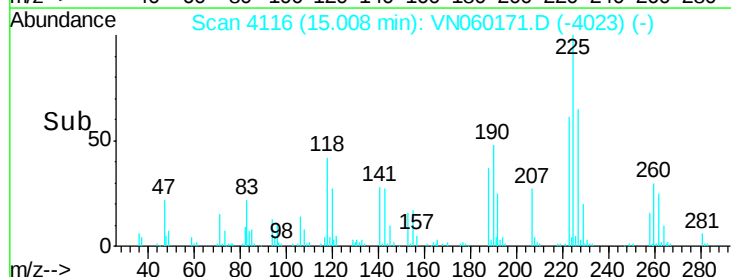
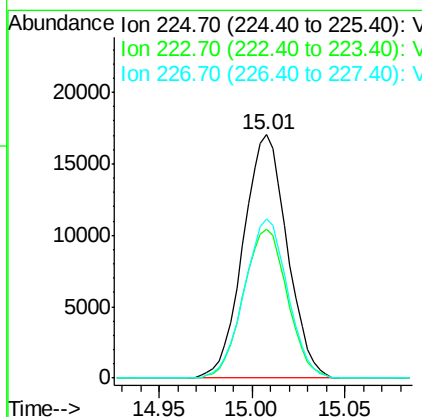
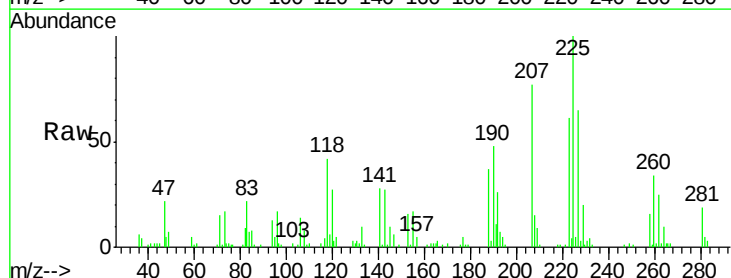
Manual Integrations
 APPROVED

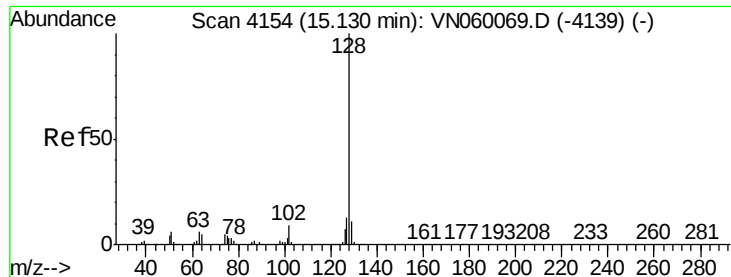
MMDadoda
 2/21/2020 9:15:04 AM



#94
 Hexachlorobutadiene
 Concen: 17.561 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN060171.D
 Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.3	31.5	94.5
227	64.4	31.8	95.4





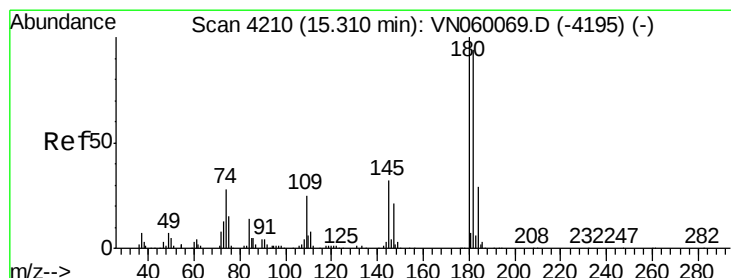
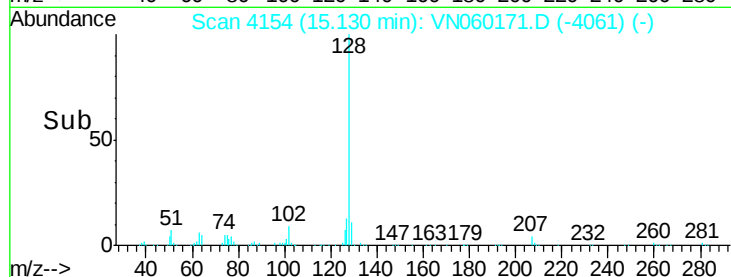
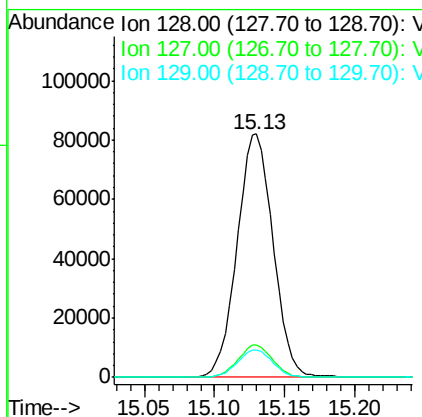
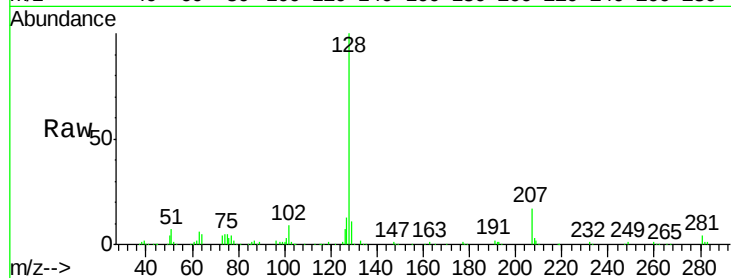
#95
Naphthalene
Concen: 19.852 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampleId :
VN0220MBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
2/21/2020 9:15:04 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.091 ug/l
RT: 15.31 min Scan# 4210
Delta R.T. 0.00 min
Lab File: VN060171.D
Acq: 20 Feb 2020 14:48

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.5	142.5
145	31.8	16.1	48.3

