

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021820\
 Data File : VN060141.D
 Acq On : 18 Feb 2020 17:49
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.00uL/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 2/19/2020 5:06:21 PM

Quant Time: Feb 19 02:37:46 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	195518	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	316040	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	299999	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	152429	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	122036	51.29	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.58%	
35) Dibromofluoromethane	7.57	113	94400	48.59	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.18%	
50) Toluene-d8	10.08	98	376005	49.15	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.30%	
62) 4-Bromofluorobenzene	12.40	95	142666	50.75	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	96138	49.193	ug/l	99
3) Chloromethane	2.04	50	115446	49.639	ug/l	96
4) Vinyl Chloride	2.17	62	131843	49.735	ug/l	99
5) Bromomethane	2.54	94	78248	48.138	ug/l	99
6) Chloroethane	2.68	64	66438	49.550	ug/l	100
7) Trichlorofluoromethane	3.00	101	165391	48.391	ug/l	99
8) Diethyl Ether	3.38	74	58483	51.404	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	91088	48.003	ug/l	99
10) Methyl Iodide	3.93	142	132665	51.921	ug/l	99
11) Tert butyl alcohol	4.73	59	94540	265.544	ug/l	100
12) 1,1-Dichloroethene	3.72	96	91602	49.554	ug/l	99
13) Acrolein	3.58	56	102927	292.483	ug/l	96
14) Allyl chloride	4.30	41	135074	49.645	ug/l	97
15) Acrylonitrile	4.94	53	238928	274.801	ug/l	99
16) Acetone	3.78	43	218374	210.428	ug/l	99
17) Carbon Disulfide	4.03	76	261627	46.955	ug/l	98
18) Methyl Acetate	4.29	43	111180	57.032	ug/l	98
19) Methyl tert-butyl Ether	5.00	73	315055	50.680	ug/l	99
20) Methylene Chloride	4.52	84	102360	49.440	ug/l	95
21) trans-1,2-Dichloroethene	5.01	96	99057	49.158	ug/l	99
22) Diisopropyl ether	5.91	45	312538	52.414	ug/l	97
23) Vinyl Acetate	5.86	43	1336138	266.832	ug/l	98
24) 1,1-Dichloroethane	5.81	63	181909	50.359	ug/l	99
25) 2-Butanone	6.80	43	329276	252.286	ug/l	98
26) 2,2-Dichloropropane	6.80	77	165337	48.190	ug/l	100
27) cis-1,2-Dichloroethene	6.80	96	117612	49.873	ug/l	99
28) Bromochloromethane	7.17	49	74094	52.175	ug/l	98
29) Tetrahydrofuran	7.18	42	217128	271.175	ug/l	98
30) Chloroform	7.35	83	190837	50.434	ug/l	100
31) Cyclohexane	7.63	56	164772	48.968	ug/l	98
32) 1,1,1-Trichloroethane	7.55	97	174933	50.590	ug/l	100
36) 1,1-Dichloropropene	7.77	75	141547	48.354	ug/l	99
37) Ethyl Acetate	6.90	43	137826	52.096	ug/l	99
38) Carbon Tetrachloride	7.75	117	152997	48.125	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021820\
 Data File : VN060141.D
 Acq On : 18 Feb 2020 17:49
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.00µl/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 2/19/2020 5:06:21 PM

Quant Time: Feb 19 02:37:46 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)
39) Methylcyclohexane	9.06	83	171787	47.276	ug/l	98
40) Benzene	8.02	78	422701	48.679	ug/l	99
41) Methacrylonitrile	7.15	41	64137m	57.808	ug/l	
42) 1,2-Dichloroethane	8.10	62	152400	50.075	ug/l	99
43) Isopropyl Acetate	8.14	43	235354	52.041	ug/l	99
44) Trichloroethene	8.82	130	113991	47.409	ug/l	97
45) 1,2-Dichloropropane	9.10	63	108718	50.571	ug/l	100
46) Dibromomethane	9.19	93	73934	48.666	ug/l	98
47) Bromodichloromethane	9.39	83	153661	49.750	ug/l	100
48) Methyl methacrylate	9.18	41	105094	51.794	ug/l	98
49) 1,4-Dioxane	9.18	88	36564	1054.674	ug/l	99
51) 4-Methyl-2-Pentanone	9.97	43	696816	266.198	ug/l	100
52) Toluene	10.14	92	272946	49.017	ug/l	98
53) t-1,3-Dichloropropene	10.37	75	173946	49.893	ug/l	100
54) cis-1,3-Dichloropropene	9.82	75	179244	48.825	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	105248	48.448	ug/l	98
56) Ethyl methacrylate	10.42	69	160892	52.355	ug/l	99
57) 1,3-Dichloropropane	10.70	76	179432	50.057	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.68	63	367015	256.356	ug/l	99
59) 2-Hexanone	10.74	43	523063	258.676	ug/l	99
60) Dibromochloromethane	10.89	129	122619	49.187	ug/l	99
61) 1,2-Dibromoethane	10.99	107	113148	49.686	ug/l	99
64) Tetrachloroethene	10.62	164	105061	46.068	ug/l	99
65) Chlorobenzene	11.43	112	291333	47.666	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.50	131	113146	48.935	ug/l	100
67) Ethyl Benzene	11.50	91	534569	48.494	ug/l	99
68) m/p-Xylenes	11.62	106	400411	96.781	ug/l	100
69) o-Xylene	11.94	106	193299	48.524	ug/l	99
70) Styrene	11.96	104	323879	50.419	ug/l	100
71) Bromoform	12.12	173	92776	49.888	ug/l #	98
73) Isopropylbenzene	12.25	105	528802	46.457	ug/l	100
74) N-amyl acetate	12.06	43	210015	51.167	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	159615	48.718	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	143277m	49.130	ug/l	
77) Bromobenzene	12.52	156	132745	46.993	ug/l	99
78) n-propylbenzene	12.59	91	605476	46.688	ug/l	100
79) 2-Chlorotoluene	12.67	91	359696	47.188	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	446246	47.151	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.29	75	57973	48.674	ug/l	99
82) 4-Chlorotoluene	12.77	91	365152	46.692	ug/l	99
83) tert-Butylbenzene	12.99	119	383928	45.858	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	447798	47.932	ug/l	99
85) sec-Butylbenzene	13.17	105	518025	46.721	ug/l	100
86) p-Isopropyltoluene	13.28	119	473495	47.134	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	235127	47.023	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	233211	46.649	ug/l	99
89) n-Butylbenzene	13.61	91	418965	47.416	ug/l	100
90) Hexachloroethane	13.87	117	87137	46.430	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	229656	46.931	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.26	75	34288	49.208	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021820\
 Data File : VN060141.D
 Acq On : 18 Feb 2020 17:49
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.00uL/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 2/19/2020 5:06:21 PM

Quant Time: Feb 19 02:37:46 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)
93) 1,2,4-Trichlorobenzene	14.90	180	139735	48.599	ug/l	98
94) Hexachlorobutadiene	15.01	225	75565	44.892	ug/l	100
95) Naphthalene	15.13	128	375456	48.341	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	133384	46.584	ug/l	99

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

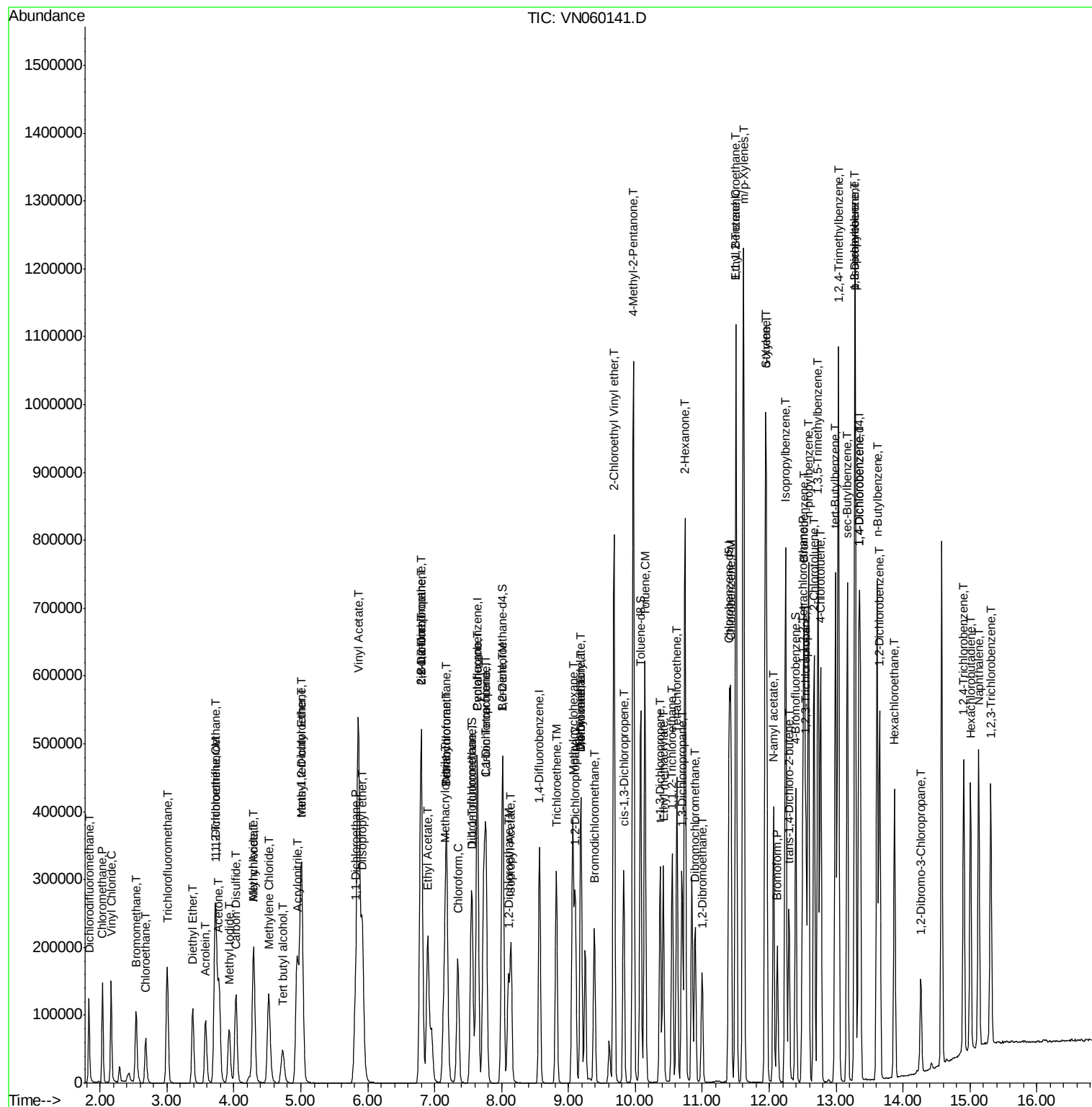
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN021820\
 Data File : VN060141.D
 Acq On : 18 Feb 2020 17:49
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.00uL/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 11 Sample Multiplier: 1

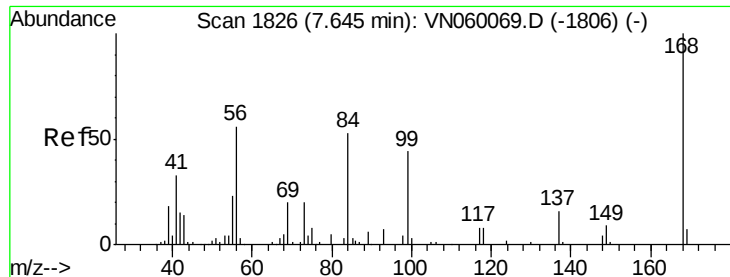
Instrument :
 MSVOA_N
 Client Sample ID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 2/19/2020 5:06:21 PM

Quant Time: Feb 19 02:37:46 2020
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 195518

Ion Ratio Lower Upper

168 100

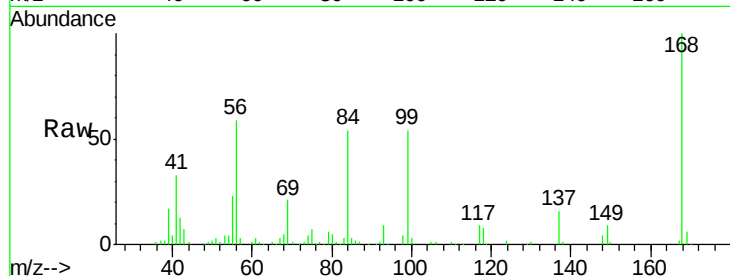
99 54.3 42.7 64.1

Manual Integrations

APPROVED

MMDadoda

2/19/2020 5:06:21 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

80000

60000

40000

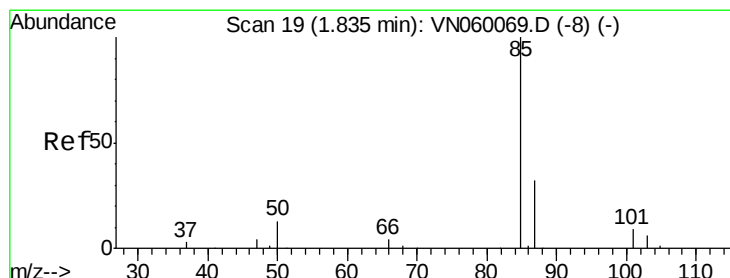
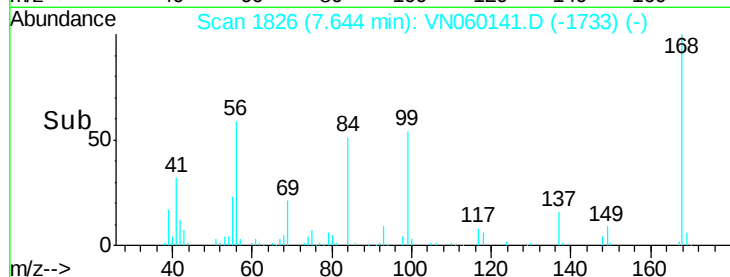
20000

0

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 49.193 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN060141.D

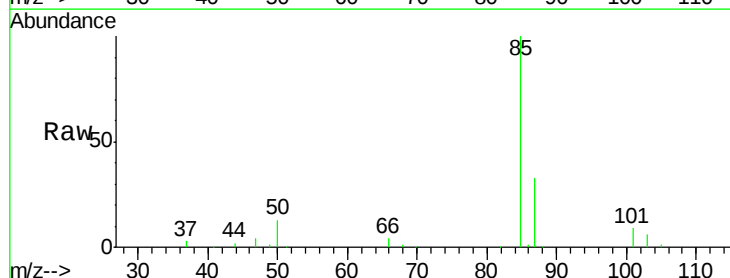
Acq: 18 Feb 2020 17:49

Tgt Ion: 85 Resp: 96138

Ion Ratio Lower Upper

85 100

87 32.7 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

80000

60000

40000

20000

0

1.75

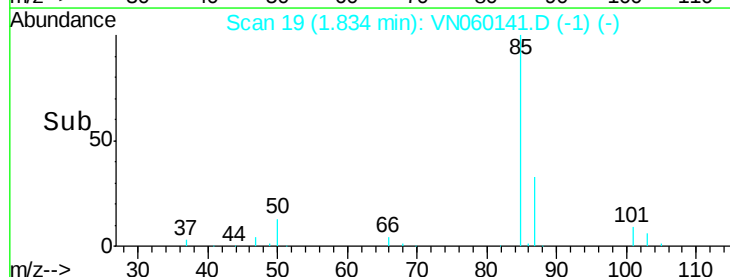
1.80

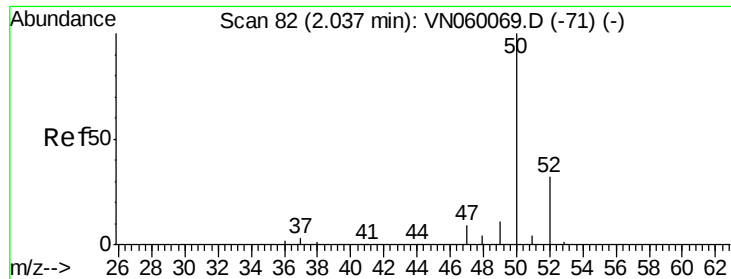
1.85

1.90

1.95

Time-->





#3

Chloromethane

Concen: 49.639 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 115446

Ion Ratio Lower Upper

50 100

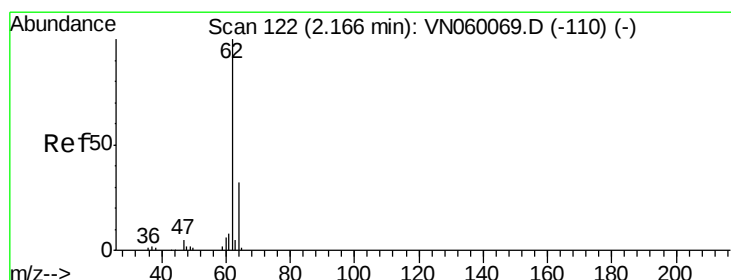
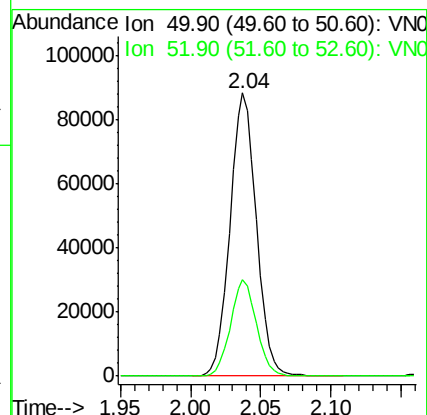
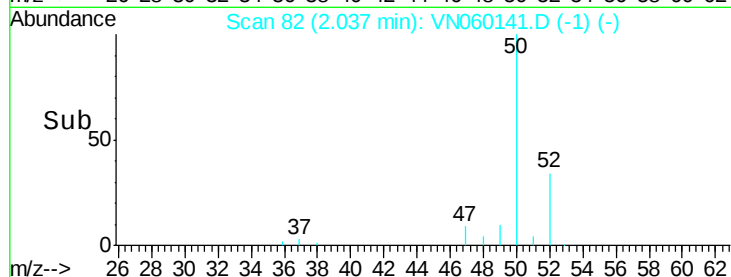
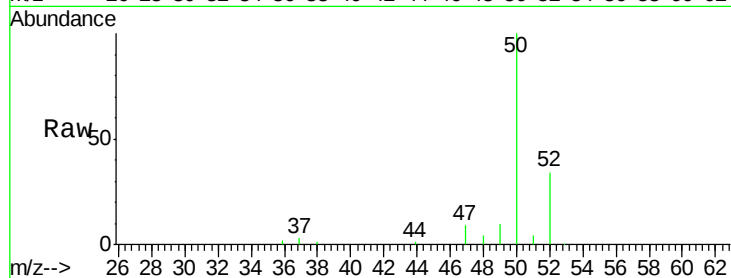
52 34.0 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

2/19/2020 5:06:21 PM



#4

Vinyl Chloride

Concen: 49.735 ug/l

RT: 2.17 min Scan# 122

Delta R.T. -0.00 min

Lab File: VN060141.D

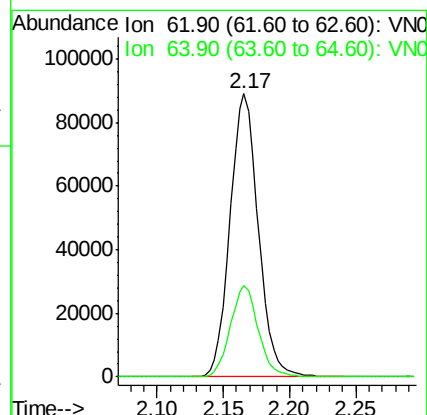
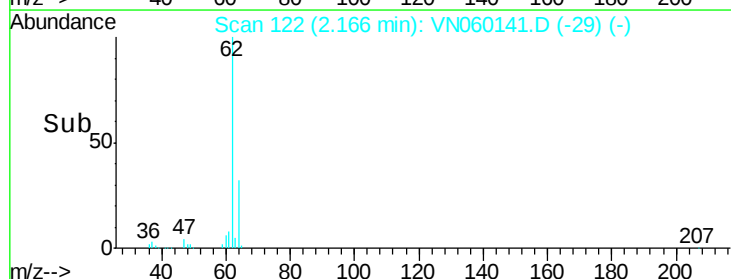
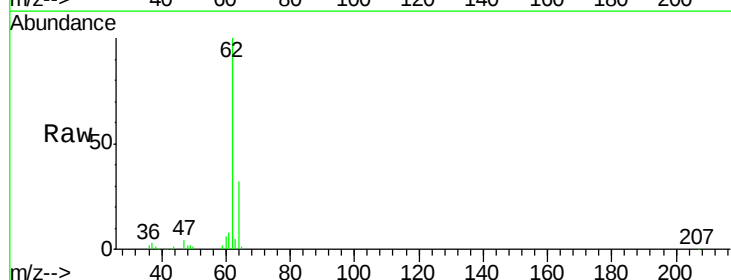
Acq: 18 Feb 2020 17:49

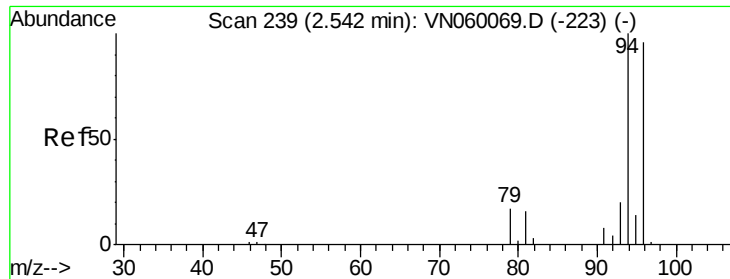
Tgt Ion: 62 Resp: 131843

Ion Ratio Lower Upper

62 100

64 32.1 25.9 38.9





#5

Bromomethane

Concen: 48.138 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 78248

Ion Ratio Lower Upper

94 100

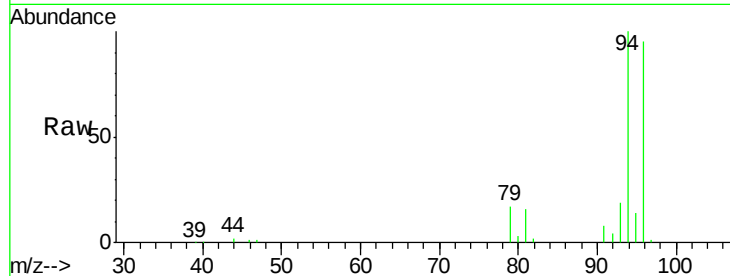
96 95.1 76.7 115.1

Manual Integrations

APPROVED

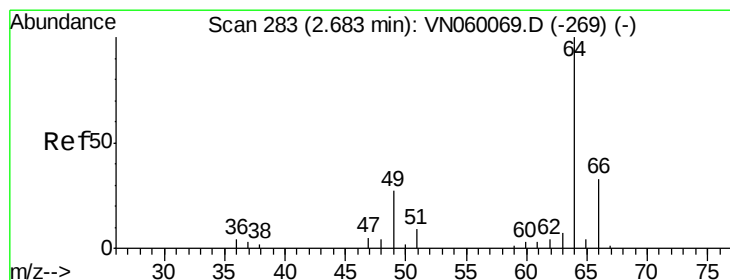
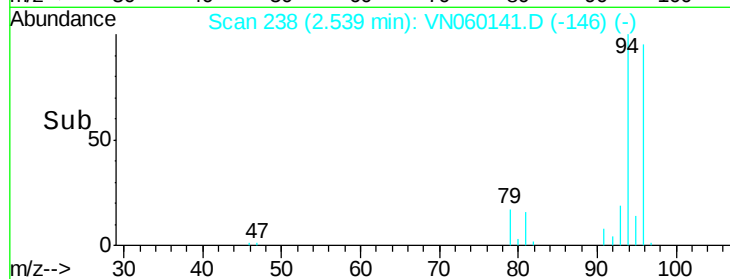
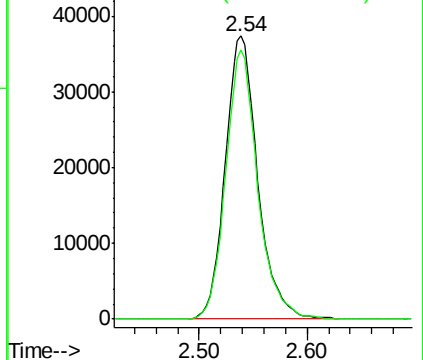
MMDadoda

2/19/2020 5:06:21 PM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 49.550 ug/l

RT: 2.68 min Scan# 282

Delta R.T. -0.00 min

Lab File: VN060141.D

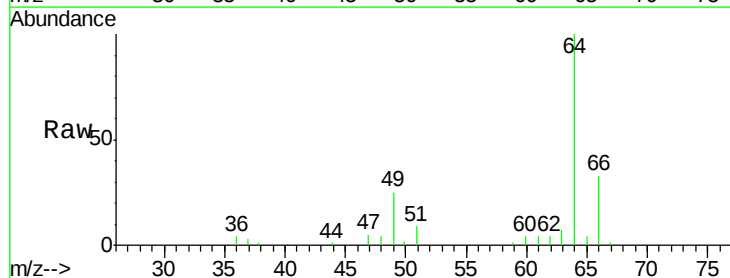
Acq: 18 Feb 2020 17:49

Tgt Ion: 64 Resp: 66438

Ion Ratio Lower Upper

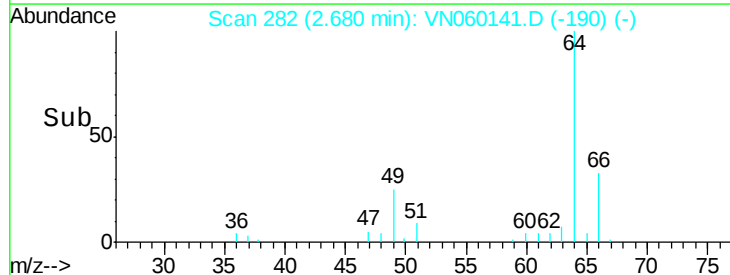
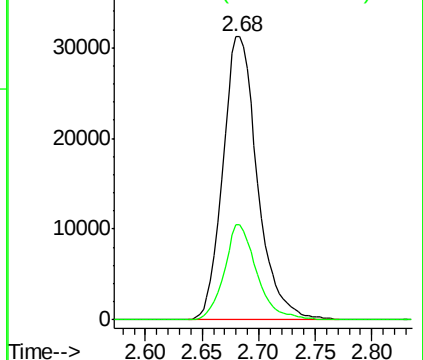
64 100

66 33.4 26.6 40.0



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

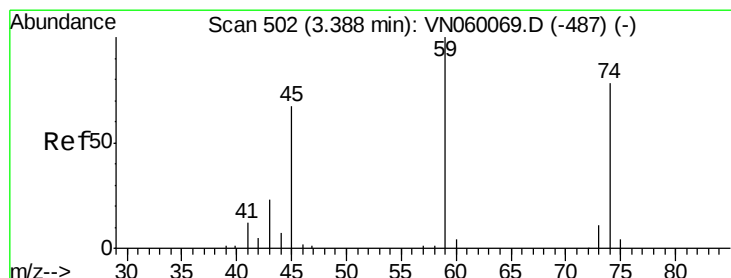
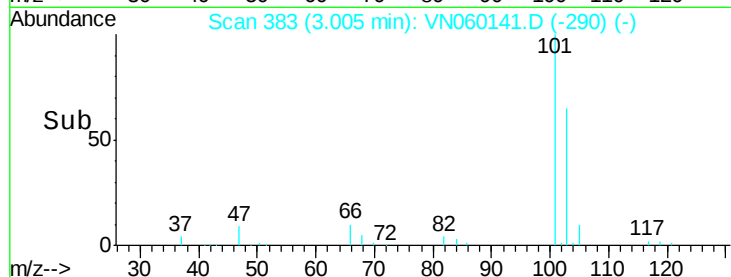
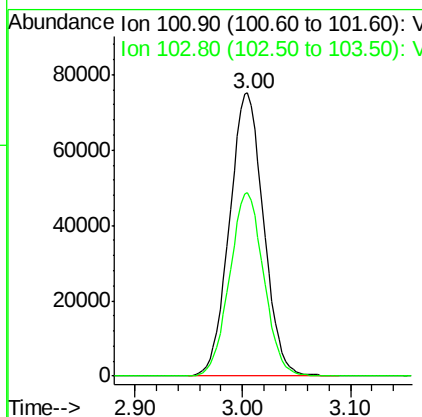
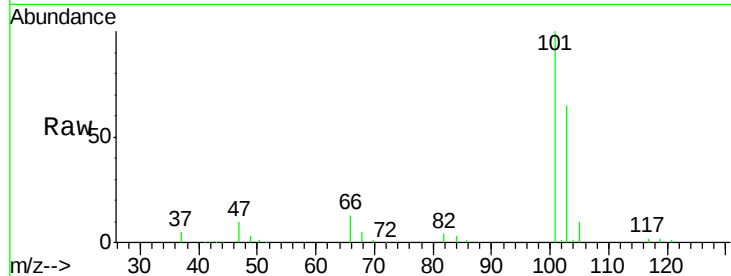
Trichlorofluoromethane
Concen: 48.391 ug/l
RT: 3.00 min Scan# 383
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.0	76.6

Manual Integrations
APPROVED

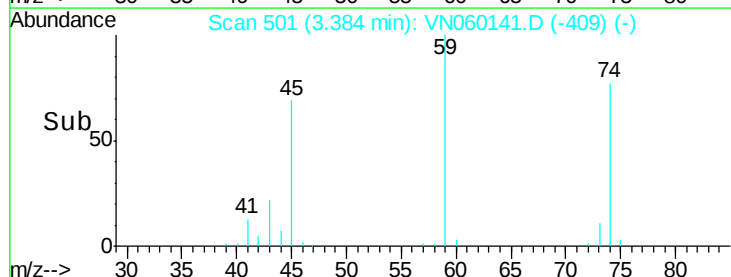
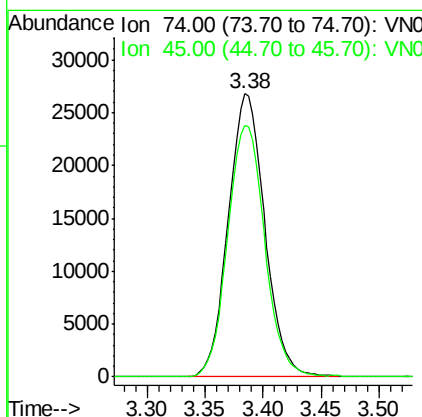
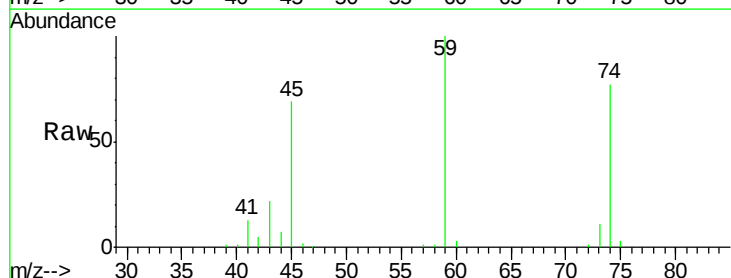
MMDadoda
2/19/2020 5:06:21 PM



#8

Diethyl Ether
Concen: 51.404 ug/l
RT: 3.38 min Scan# 501
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
74	100		
45	90.1	44.7	134.1





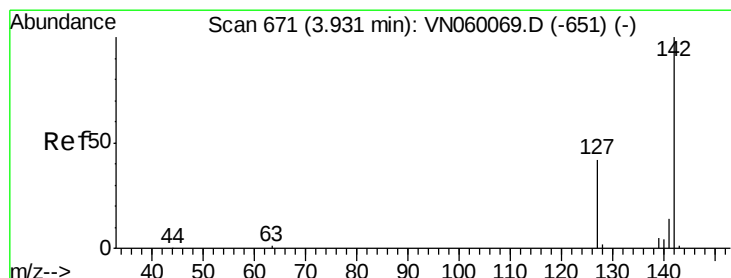
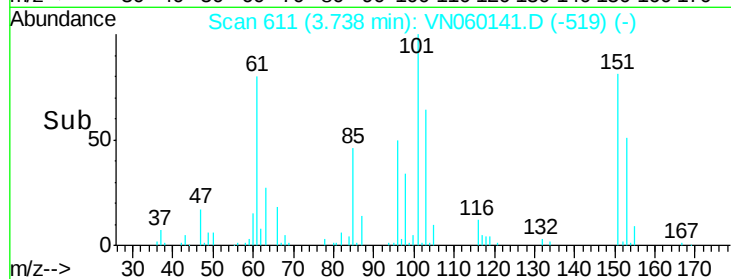
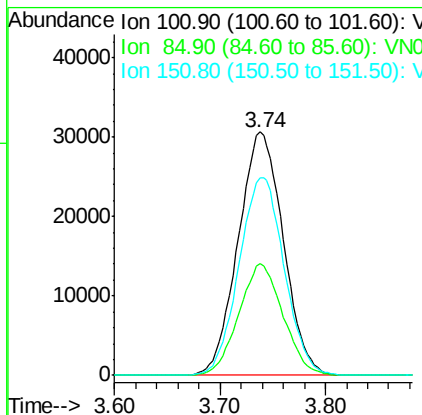
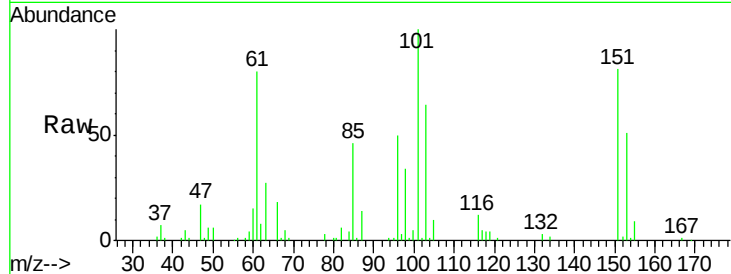
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 48.003 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
85	44.8	35.1	52.7
151	81.4	65.8	98.6

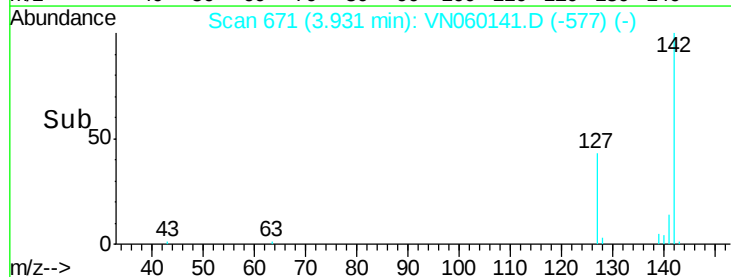
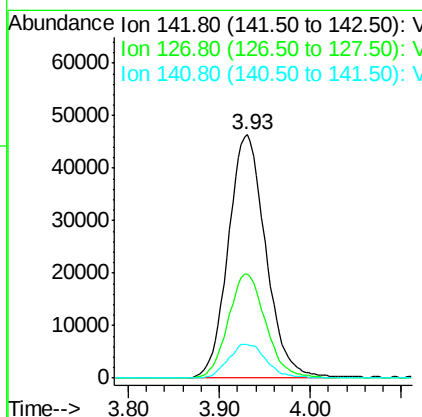
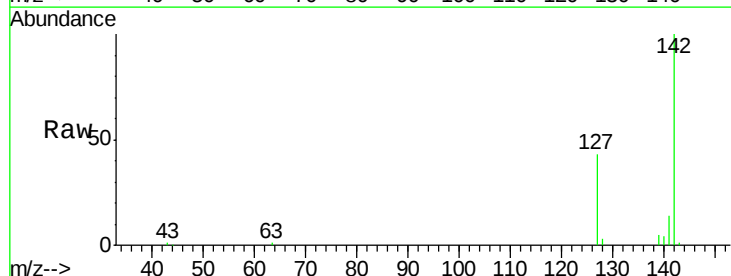
Manual Integrations
 APPROVED

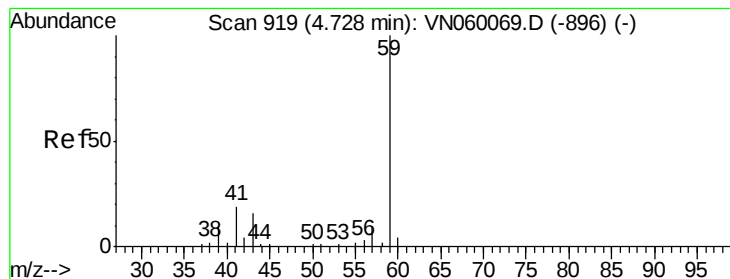
MMDadoda
 2/19/2020 5:06:21 PM



#10
 Methyl Iodide
 Concen: 51.921 ug/l
 RT: 3.93 min Scan# 671
 Delta R.T. 0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
142	100		
127	42.8	33.6	50.4
141	14.1	11.4	17.2





#11

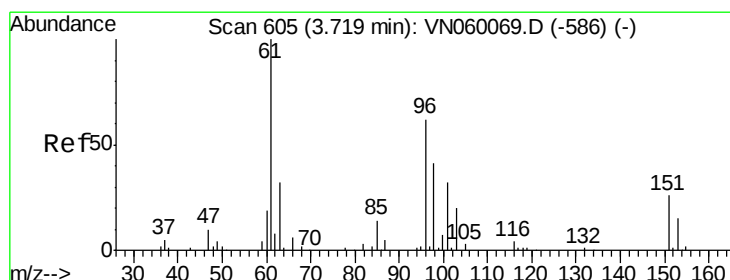
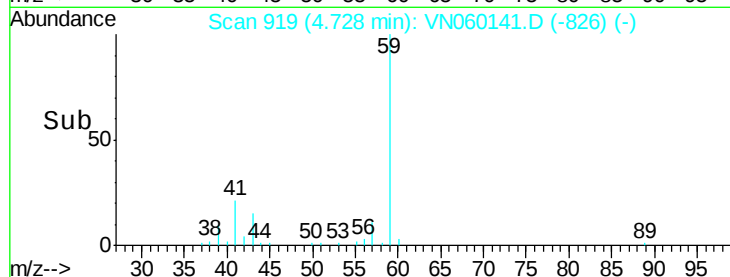
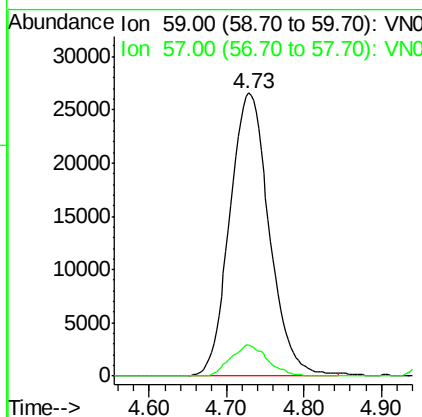
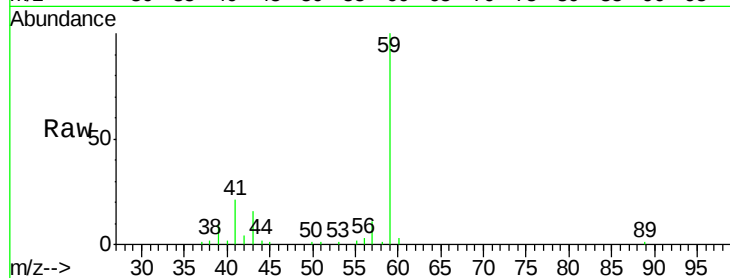
Tert butyl alcohol
Concen: 265.544 ug/l
RT: 4.73 min Scan# 919
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.2	12.4

Manual Integrations
APPROVED

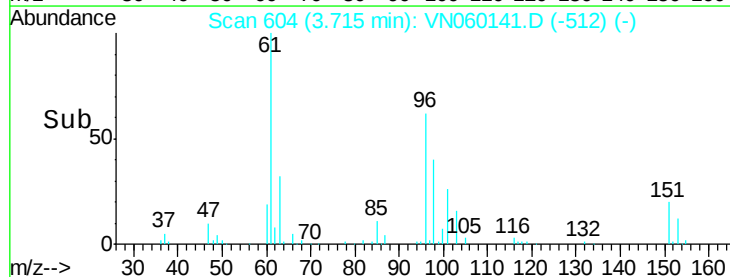
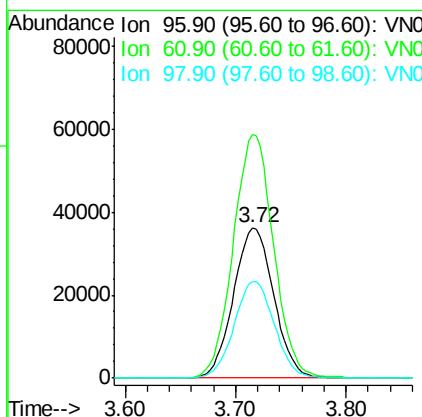
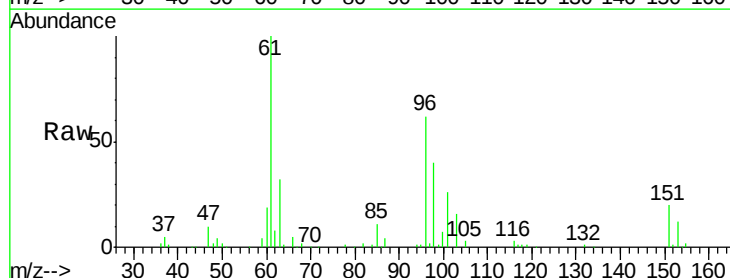
MMDadoda
2/19/2020 5:06:21 PM

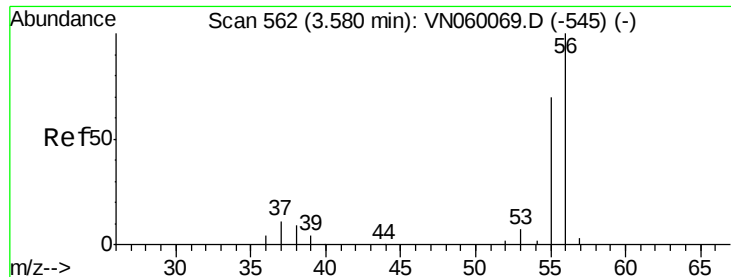


#12

1,1-Dichloroethene
Concen: 49.554 ug/l
RT: 3.72 min Scan# 604
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.9	128.3	192.5
98	64.4	52.2	78.4





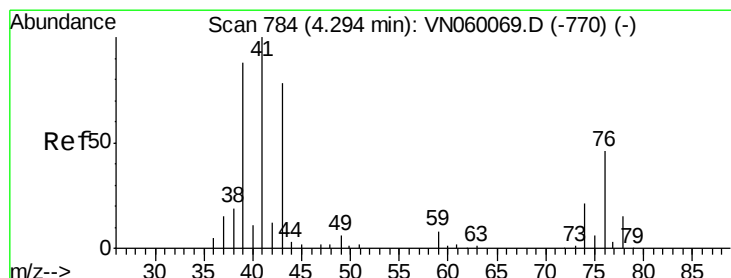
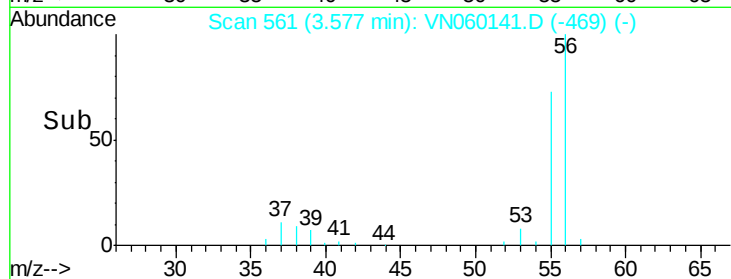
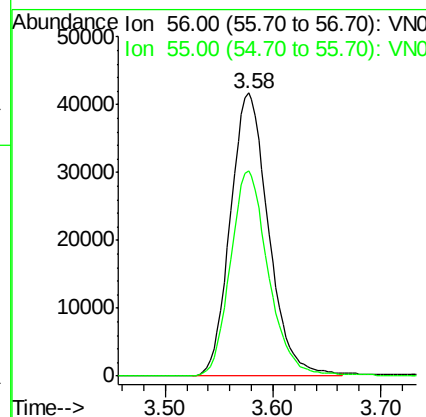
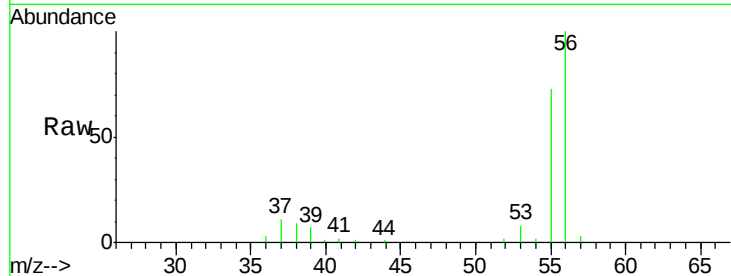
#13
Acrolein
Concen: 292.483 ug/l
RT: 3.58 min Scan# 561
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
55	71.8	54.8	82.2	

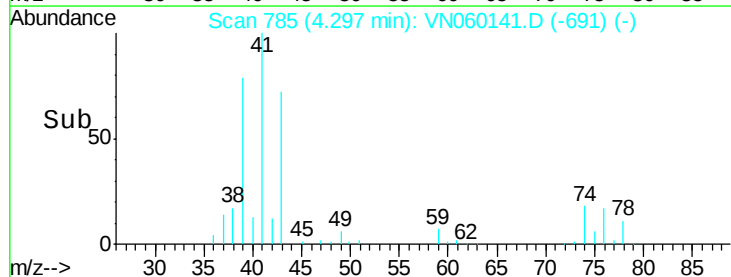
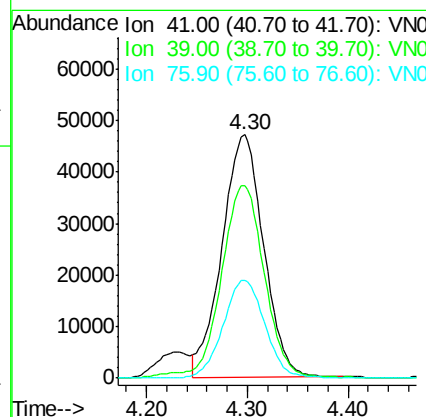
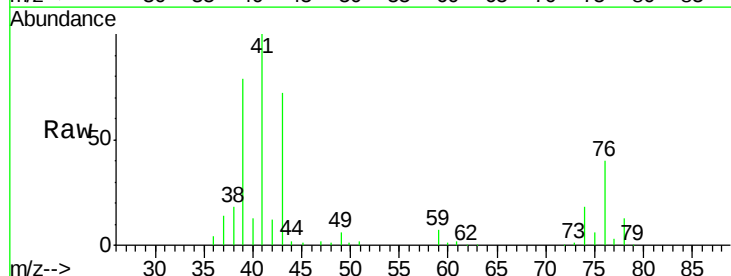
Manual Integrations
APPROVED

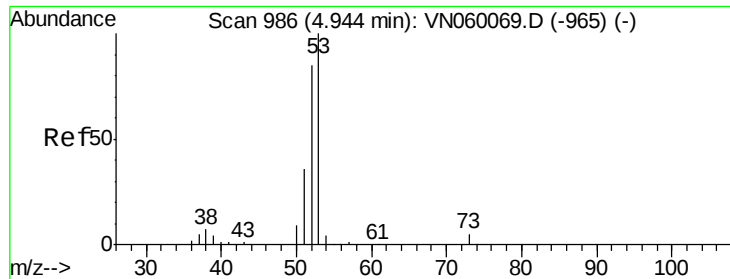
MMDadoda
2/19/2020 5:06:21 PM



#14
Allyl chloride
Concen: 49.645 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	82.3	67.8	101.8	
76	40.4	33.9	50.9	





#15

Acrylonitrile

Concen: 274.801 ug/l

RT: 4.94 min Scan# 986

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

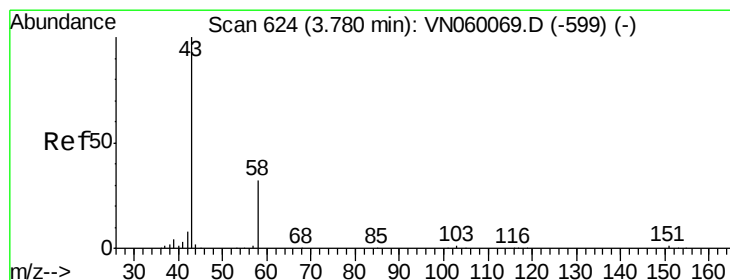
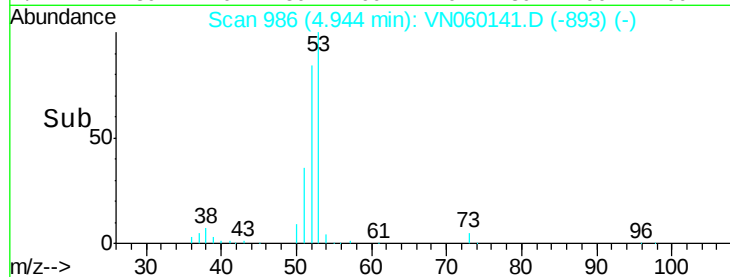
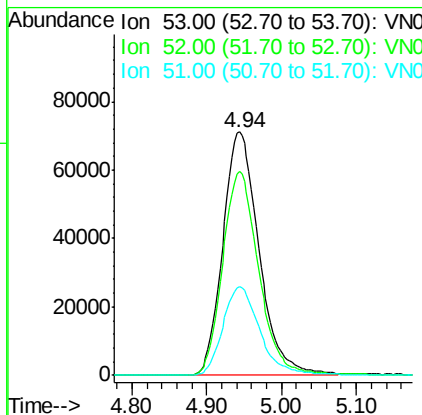
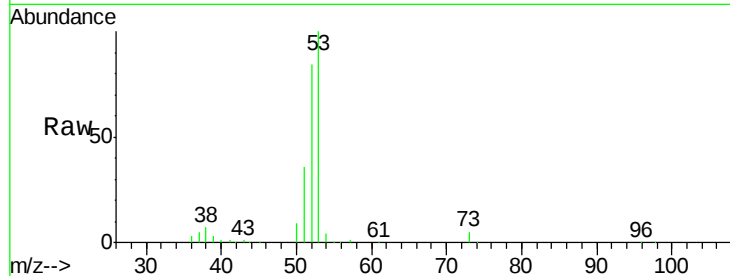
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	238928
Ion Ratio		Lower	Upper
53	100		
52	83.8	66.8	100.2
51	37.4	29.4	44.0

Manual Integrations
APPROVED

MMDadoda
2/19/2020 5:06:21 PM



#16

Acetone

Concen: 210.428 ug/l

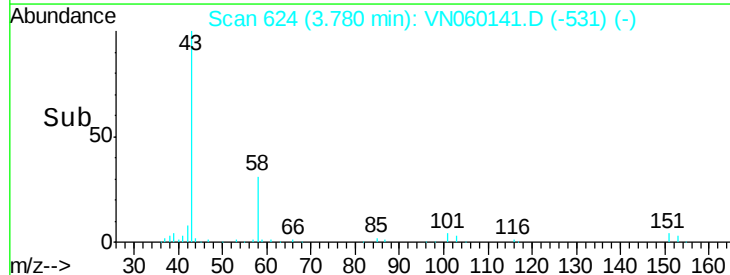
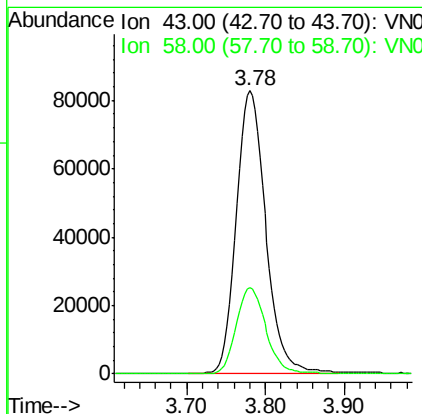
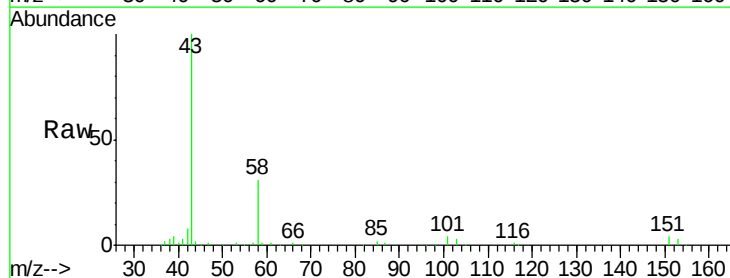
RT: 3.78 min Scan# 624

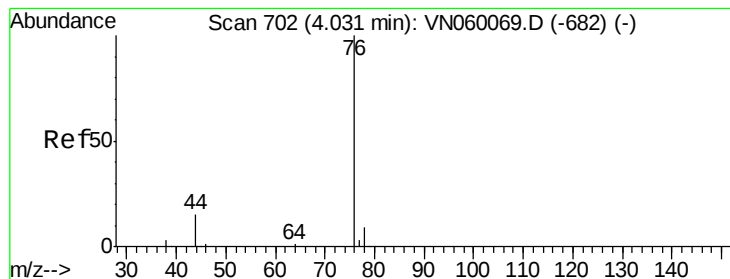
Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Tgt Ion:	43	Resp:	218374
Ion Ratio		Lower	Upper
43	100		
58	30.7	25.2	37.8





#17

Carbon Disulfide

Concen: 46.955 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 261627

Ion Ratio Lower Upper

76 100

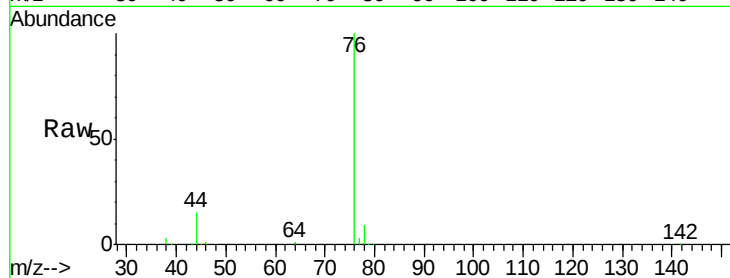
78 9.4 7.0 10.6

Manual Integrations

APPROVED

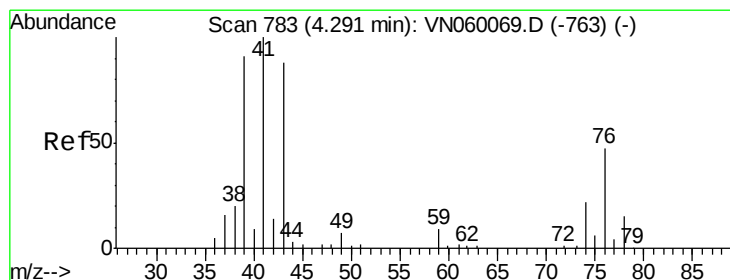
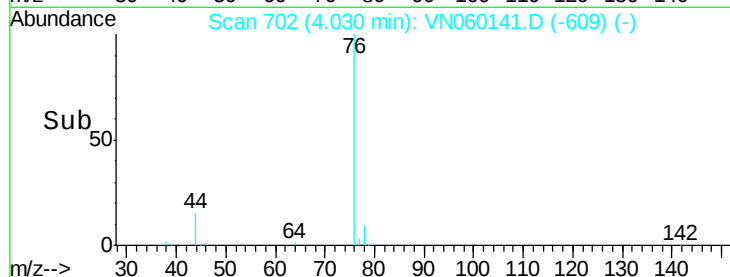
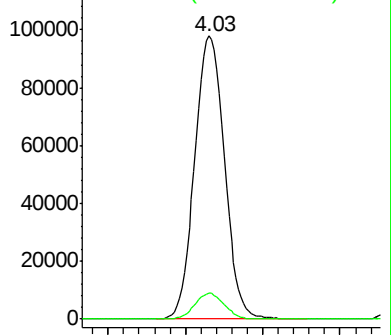
MMDadoda

2/19/2020 5:06:21 PM



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 57.032 ug/l

RT: 4.29 min Scan# 782

Delta R.T. -0.00 min

Lab File: VN060141.D

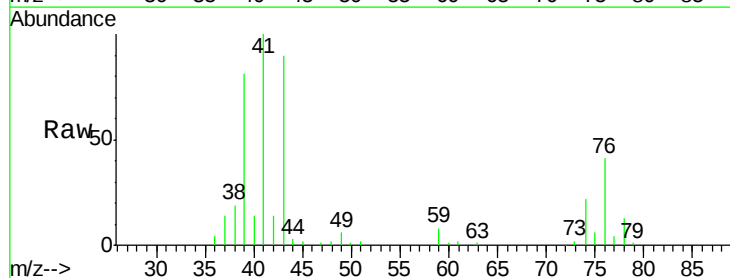
Acq: 18 Feb 2020 17:49

Tgt Ion: 43 Resp: 111180

Ion Ratio Lower Upper

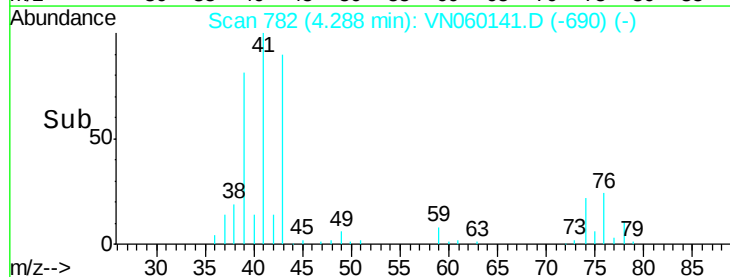
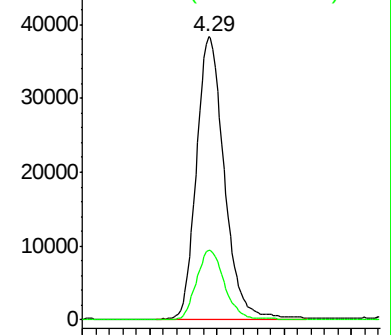
43 100

74 24.6 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO





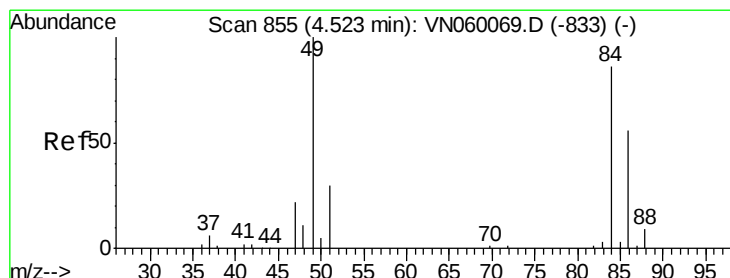
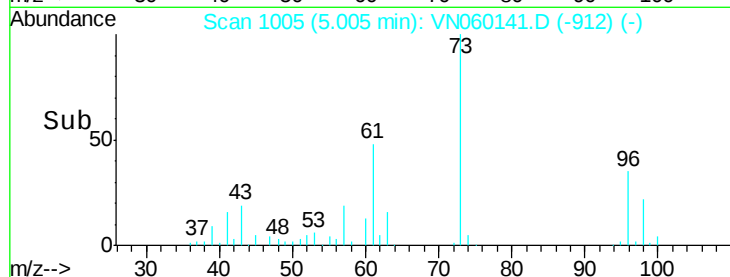
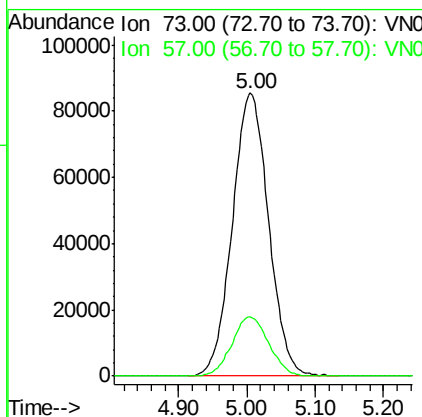
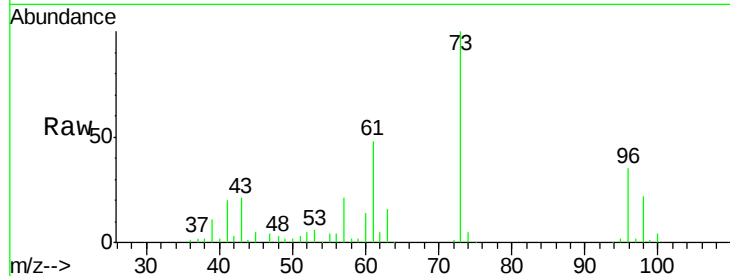
#19
Methvl tert-butvl Ether
Concen: 50.680 ug/l
RT: 5.00 min Scan# 1005
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 315055
Ion Ratio Lower Upper
73 100
57 21.0 17.2 25.8

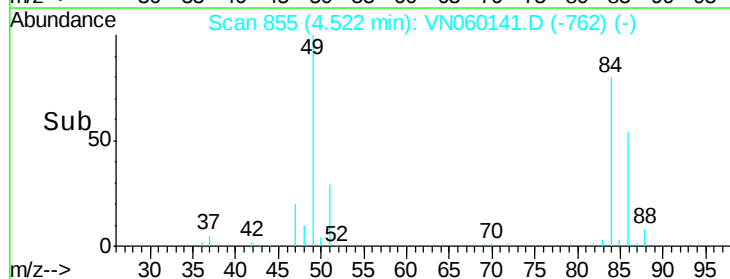
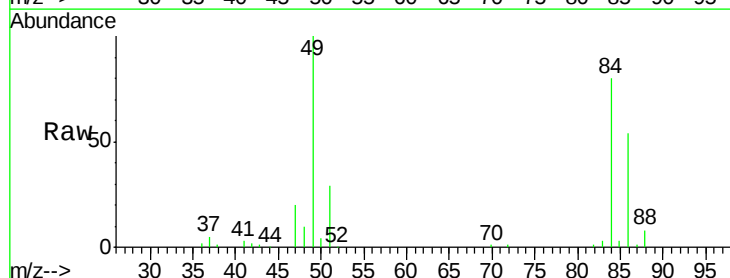
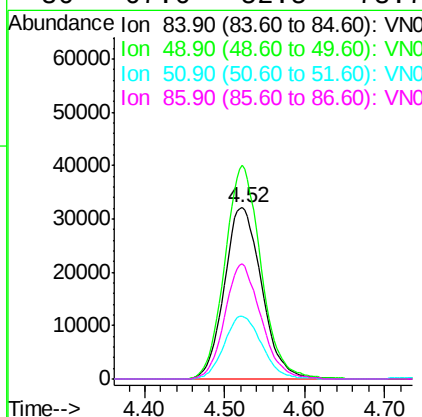
Manual Integrations
APPROVED

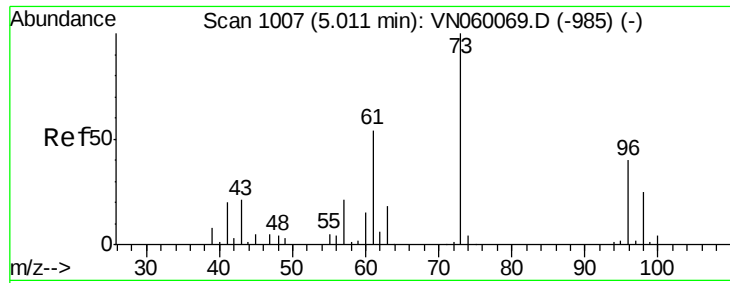
MMDadoda
2/19/2020 5:06:21 PM



#20
Methylene Chloride
Concen: 49.440 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion: 84 Resp: 102360
Ion Ratio Lower Upper
84 100
49 124.9 93.4 140.0
51 36.8 28.4 42.6
86 67.6 52.5 78.7





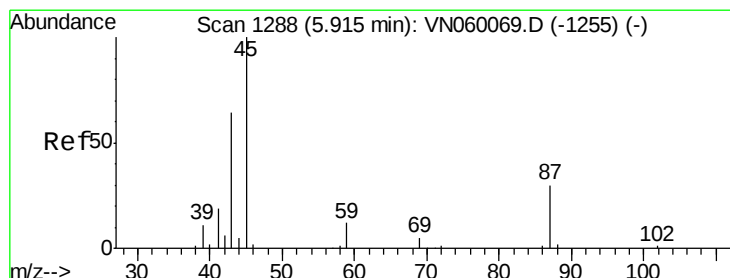
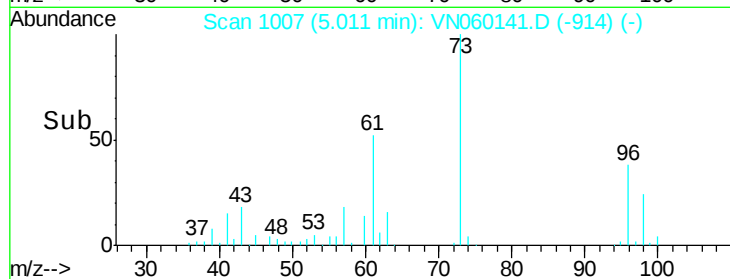
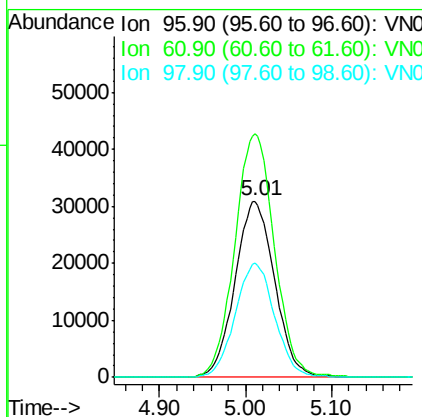
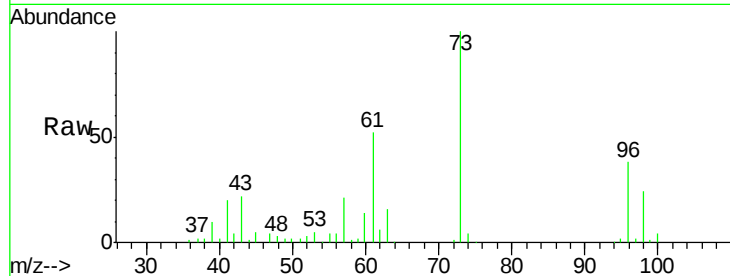
#21
trans-1,2-Dichloroethene
Concen: 49.158 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	138.2	109.3	163.9
98	65.2	51.0	76.6

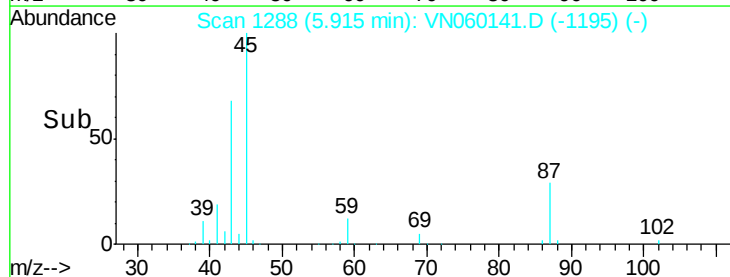
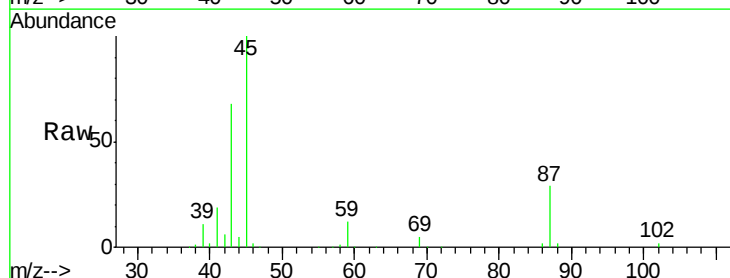
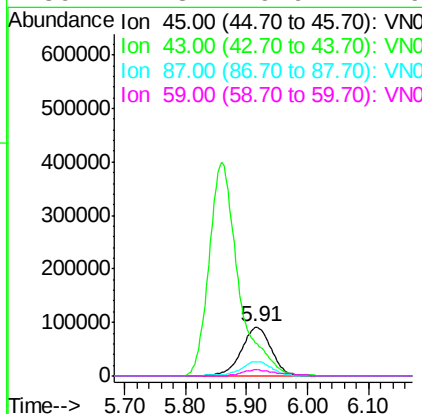
Manual Integrations
APPROVED

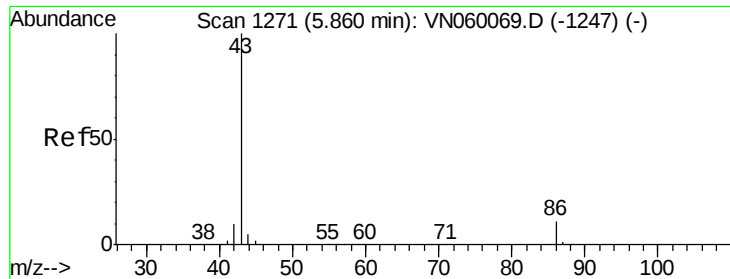
MMDadoda
2/19/2020 5:06:21 PM



#22
Diisopropyl ether
Concen: 52.414 ug/l
RT: 5.91 min Scan# 1288
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
45	100		
43	67.1	55.9	83.9
87	29.1	24.5	36.7
59	12.3	9.9	14.9





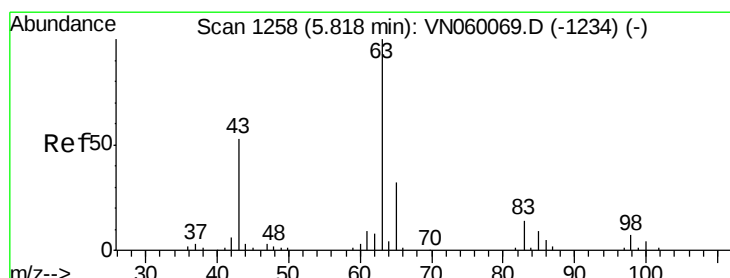
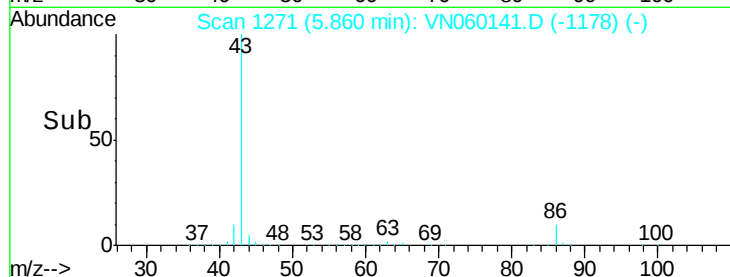
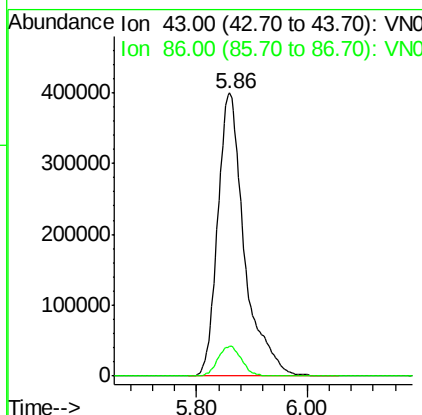
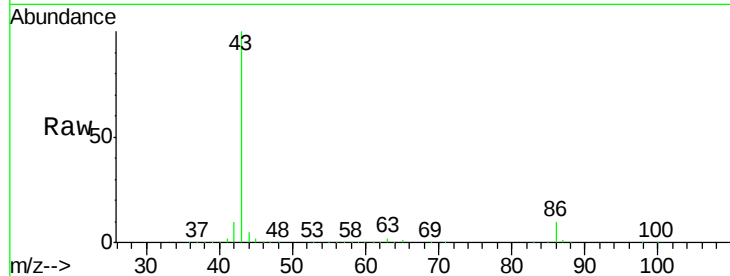
#23
 Vinyl Acetate
 Concen: 266.832 ug/l
 RT: 5.86 min Scan# 1271
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 43 Resp: 1336138
 Ion Ratio Lower Upper
 43 100
 86 10.4 8.9 13.3

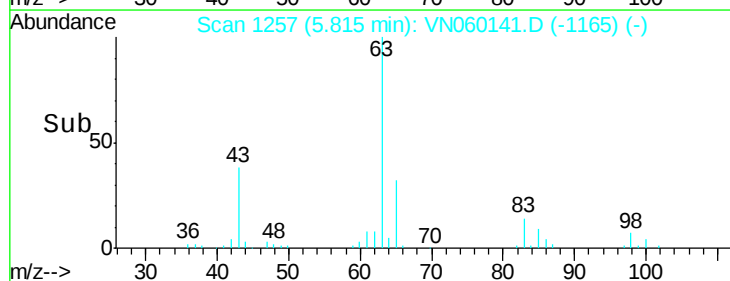
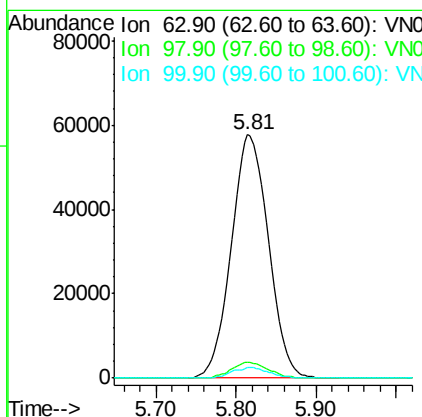
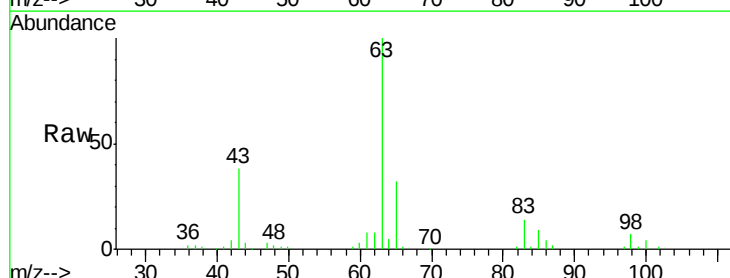
Manual Integrations
 APPROVED

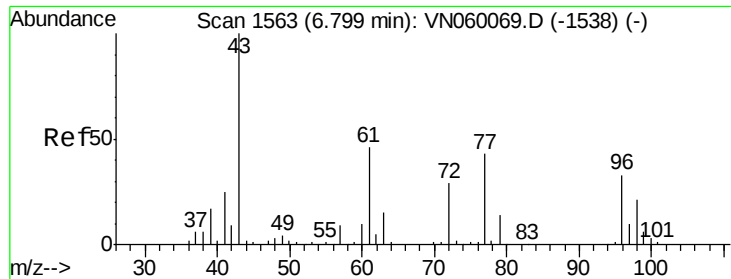
MMDadoda
 2/19/2020 5:06:21 PM



#24
 1,1-Dichloroethane
 Concen: 50.359 ug/l
 RT: 5.81 min Scan# 1257
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Tgt Ion: 63 Resp: 181909
 Ion Ratio Lower Upper
 63 100
 98 6.5 3.5 10.5
 100 4.1 2.2 6.6





#25

2-Butanone

Concen: 252.286 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 329276

Ion Ratio Lower Upper

43 100

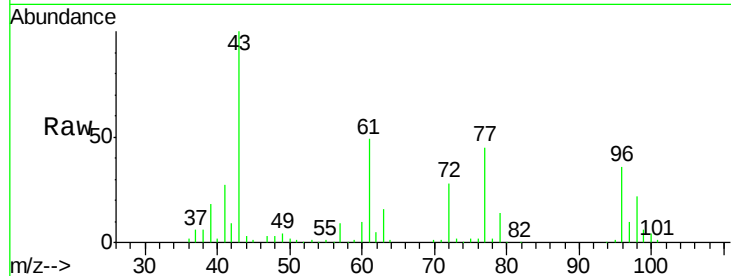
72 28.0 23.3 34.9

Manual Integrations

APPROVED

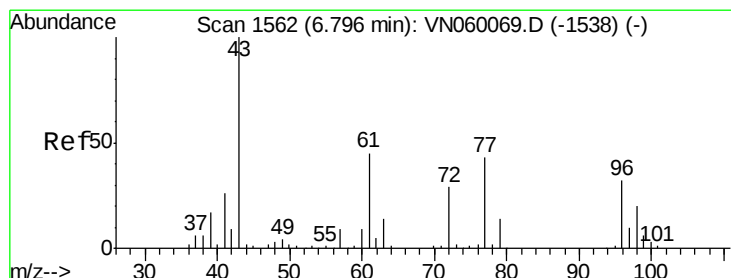
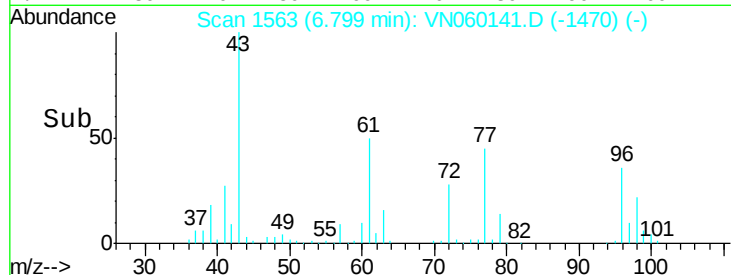
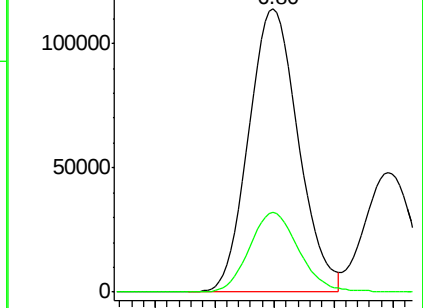
MMDadoda

2/19/2020 5:06:21 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 48.190 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VN060141.D

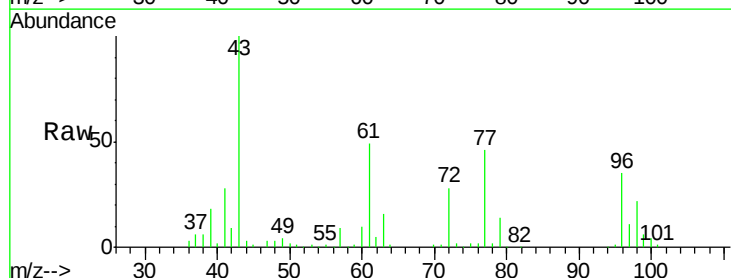
Acq: 18 Feb 2020 17:49

Tgt Ion: 77 Resp: 165337

Ion Ratio Lower Upper

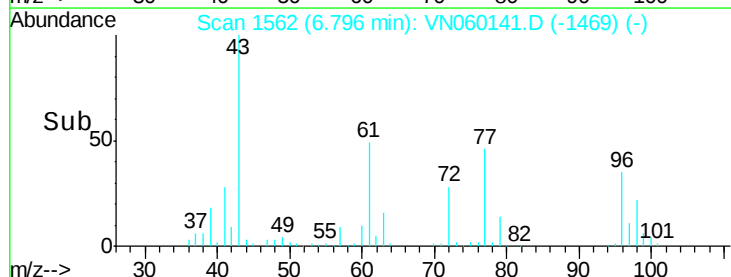
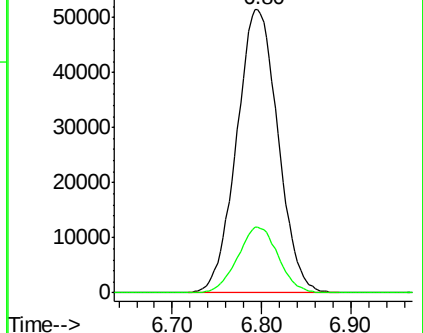
77 100

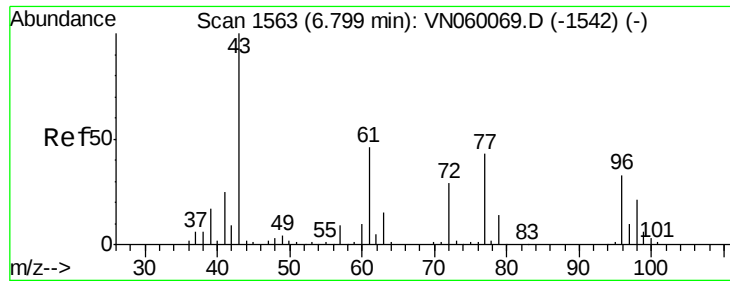
97 22.7 11.4 34.2



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 49.873 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

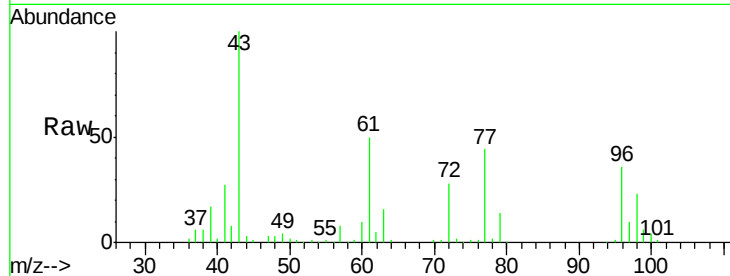
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	117612
Ion Ratio	Lower	Upper	
96	100		
61	141.7	0.0	285.8
98	63.1	0.0	129.6

Manual Integrations
APPROVED

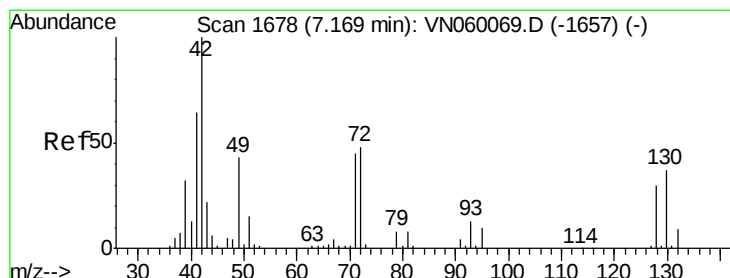
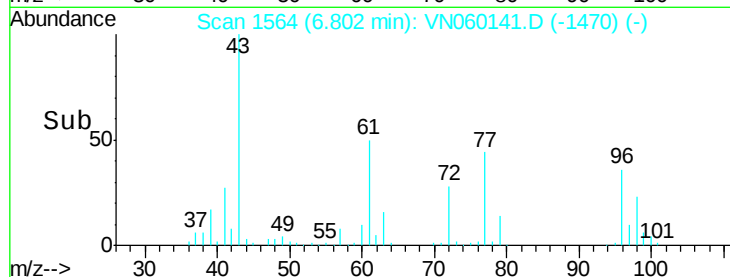
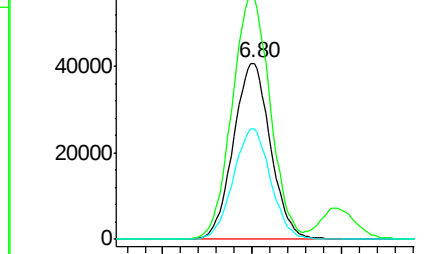
MMDadoda
2/19/2020 5:06:21 PM



Abundance Ion 95.90 (95.60 to 96.60): VN060141.D (-1470) (-)

Ion 60.90 (60.60 to 61.60): VN060141.D (-1470) (-)

Ion 97.90 (97.60 to 98.60): VN060141.D (-1470) (-)



#28

Bromochloromethane

Concen: 52.175 ug/l

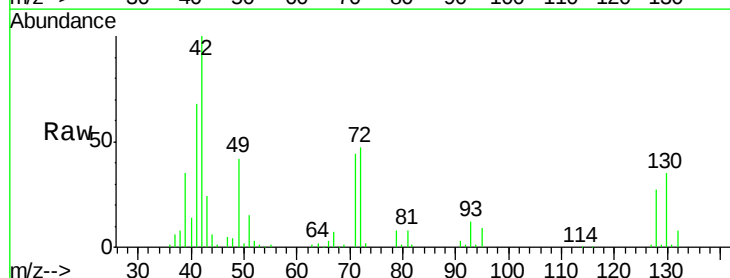
RT: 7.17 min Scan# 1678

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

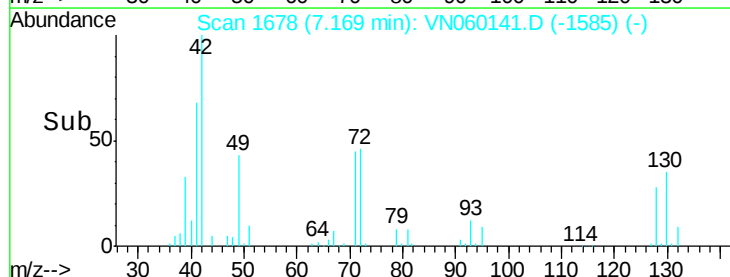
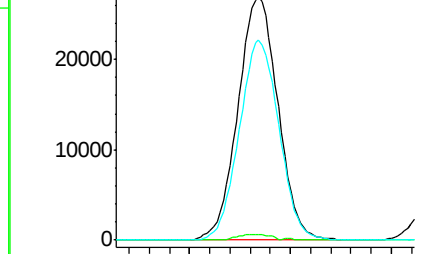
Tgt Ion:	49	Resp:	74094
Ion Ratio	Lower	Upper	
49	100		
129	1.9	0.0	2.2
130	81.7	66.8	100.2

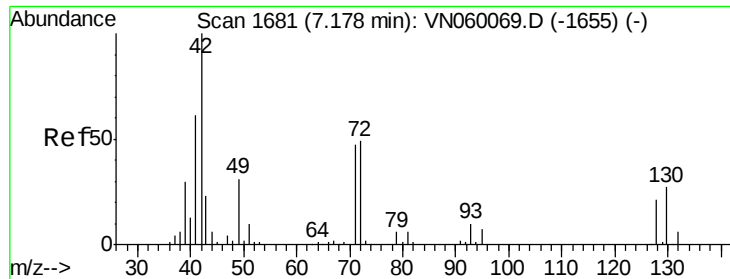


Abundance Ion 48.90 (48.60 to 49.60): VN060141.D (-1585) (-)

Ion 128.80 (128.50 to 129.50): VN060141.D (-1585) (-)

Ion 129.80 (129.50 to 130.50): VN060141.D (-1585) (-)





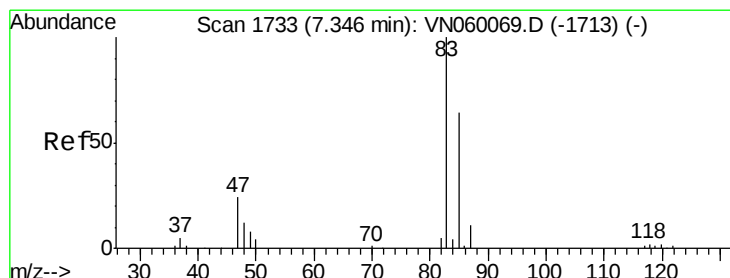
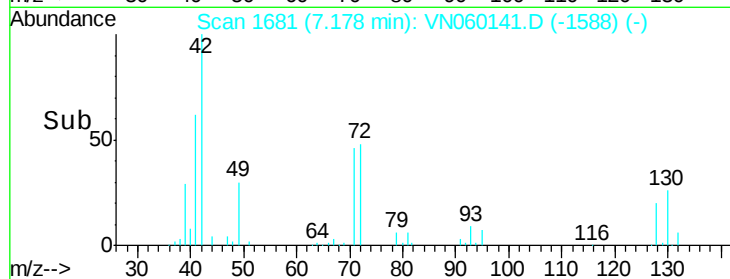
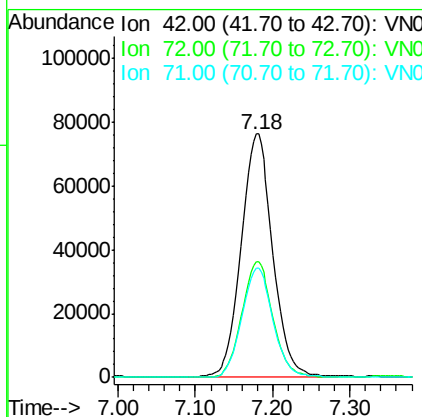
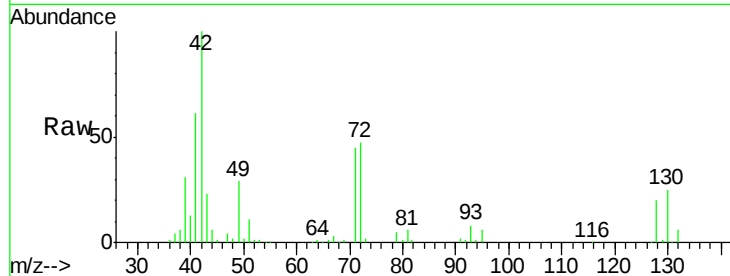
#29
Tetrahydrofuran
Concen: 271.175 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.6	38.2	57.4
71	44.3	36.6	54.8

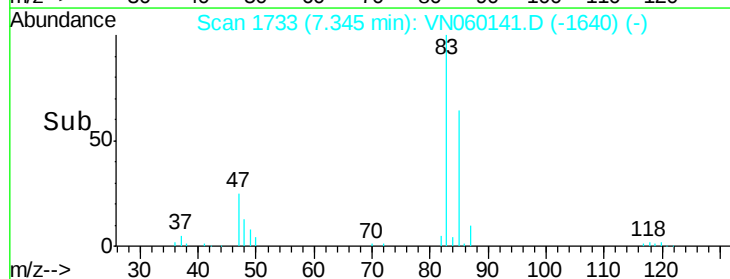
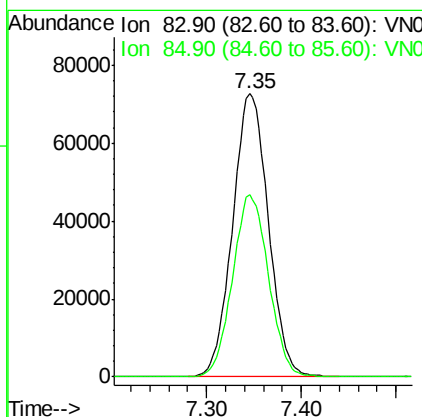
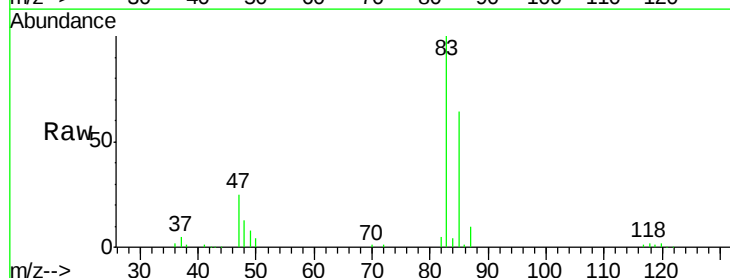
Manual Integrations
APPROVED

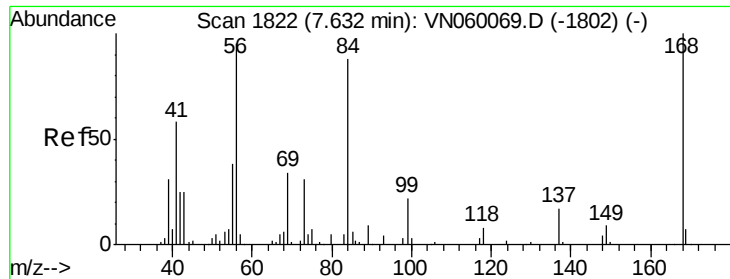
MMDadoda
2/19/2020 5:06:21 PM



#30
Chloroform
Concen: 50.434 ug/l
RT: 7.35 min Scan# 1733
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.4	77.0





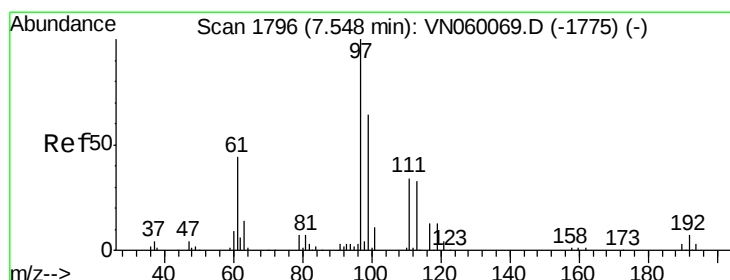
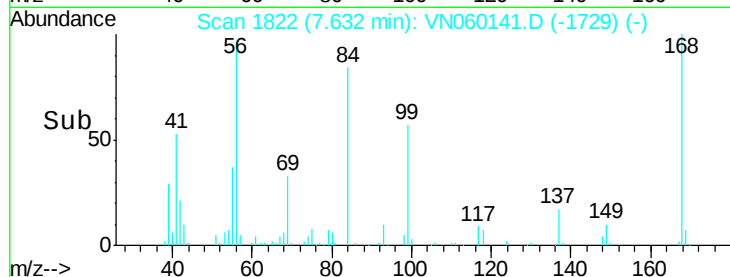
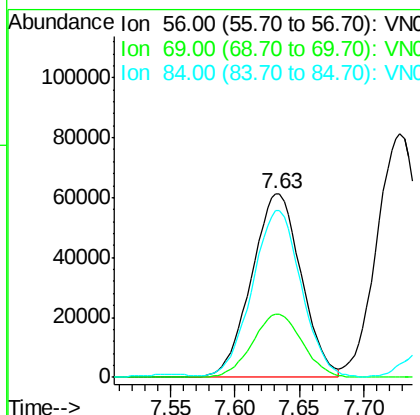
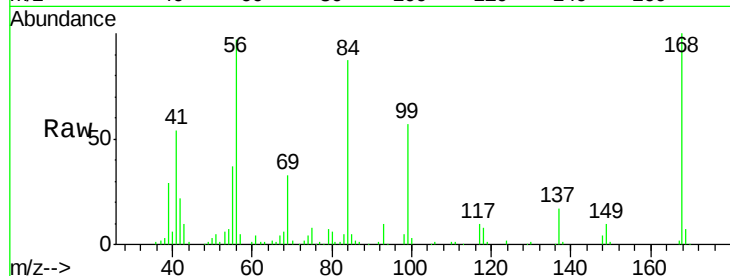
#31
Cyclohexane
Concen: 48.968 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.5	28.3	42.5
84	89.3	72.6	108.8

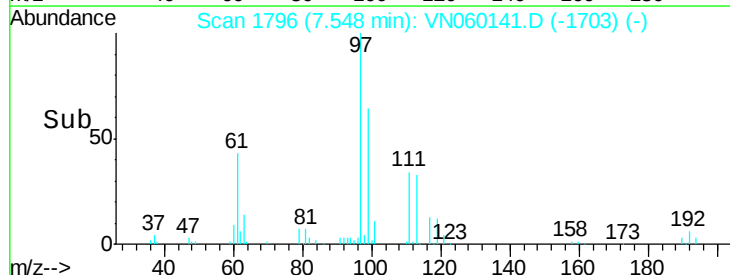
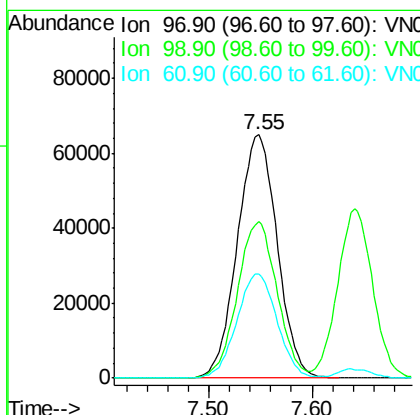
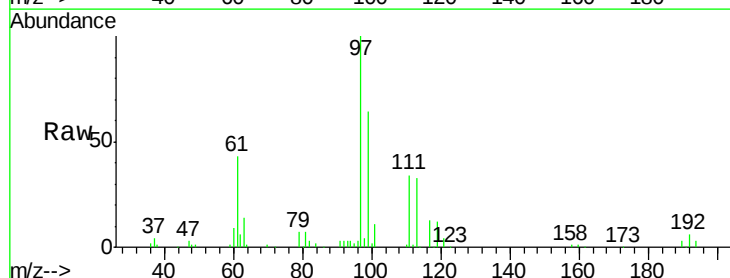
Manual Integrations
APPROVED

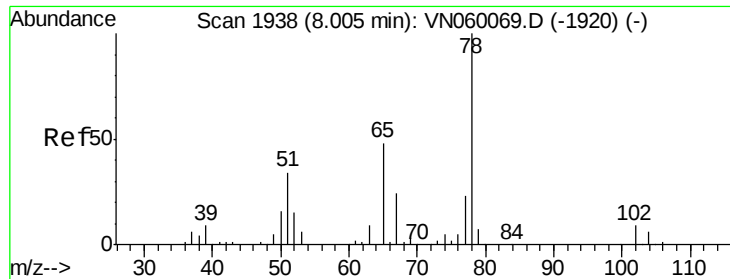
MMDadoda
2/19/2020 5:06:21 PM



#32
1,1,1-Trichloroethane
Concen: 50.590 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.4	77.0
61	43.1	34.9	52.3





#33

1,2-Dichloroethane-d4

Concen: 51.295 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 65 Resp: 122036

Ion Ratio Lower Upper

65 100

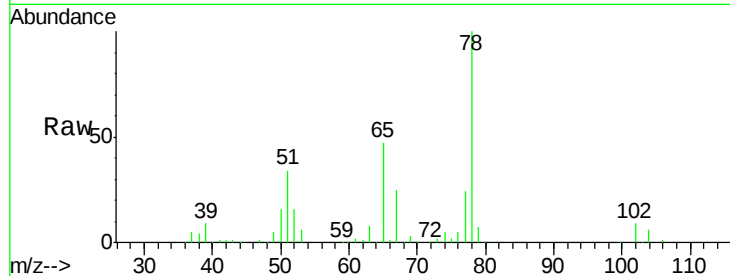
67 52.4 0.0 104.0

Manual Integrations

APPROVED

MMDadoda

2/19/2020 5:06:21 PM



Abundance Ion 64.90 (64.60 to 65.60): VN060141.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060141.D (-1920) (-)

60000

50000

40000

30000

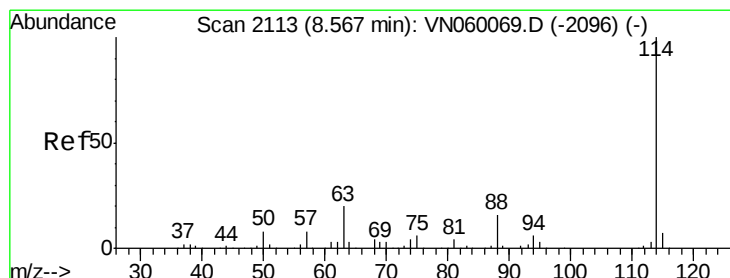
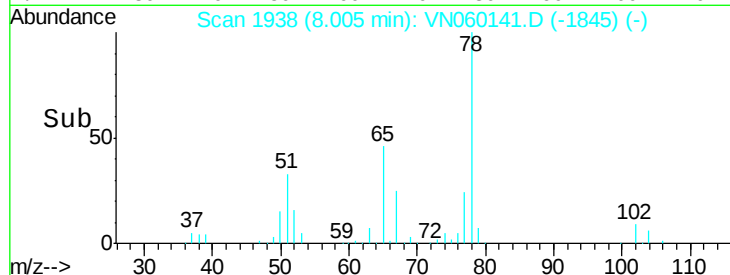
20000

10000

0

Time-->

7.90 7.95 8.00 8.05 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

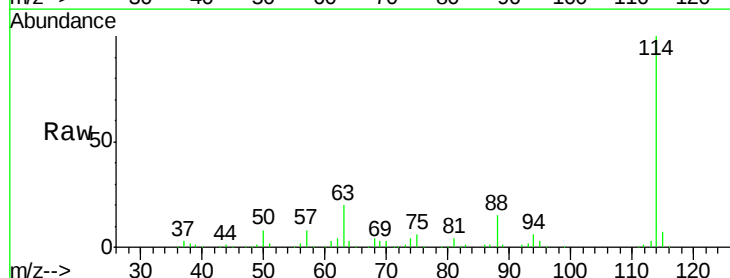
Tgt Ion: 114 Resp: 316040

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.0

88 15.5 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): VN060141.D (-2096) (-)

Ion 63.00 (62.70 to 63.70): VN060141.D (-2096) (-)

Ion 87.90 (87.60 to 88.60): VN060141.D (-2096) (-)

200000

150000

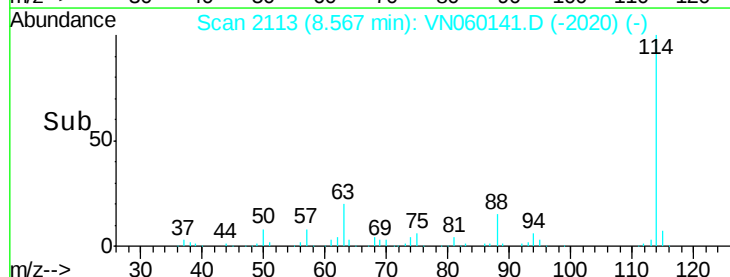
100000

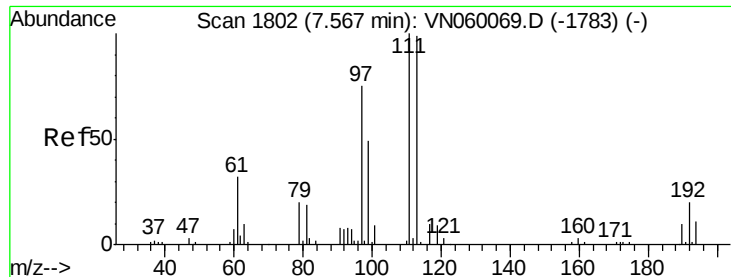
50000

0

Time-->

8.50 8.55 8.60 8.65 8.70





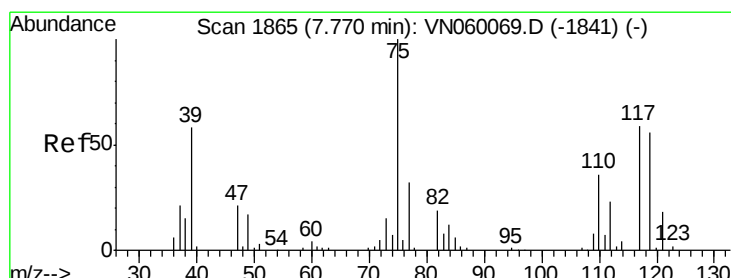
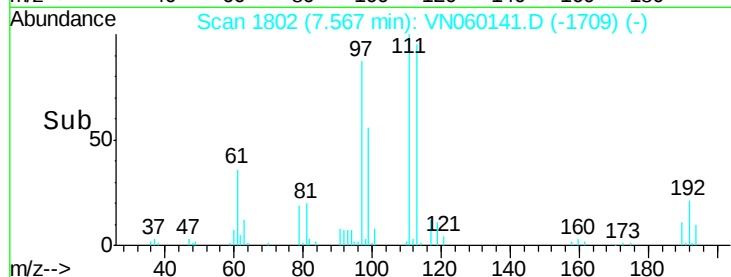
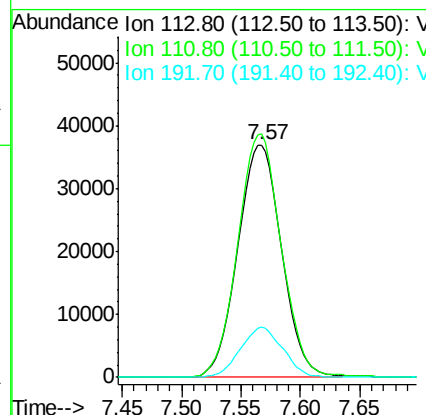
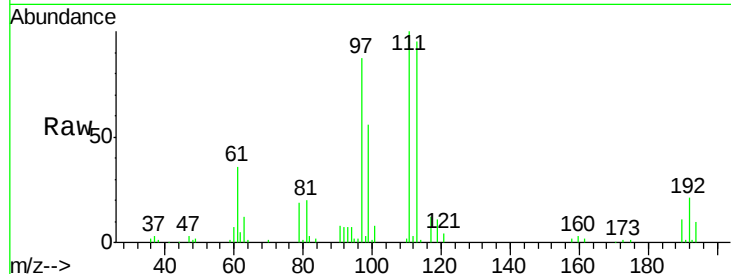
#35
 Dibromofluoromethane
 Concen: 48.592 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.4	122.2
192	20.8	16.2	24.2

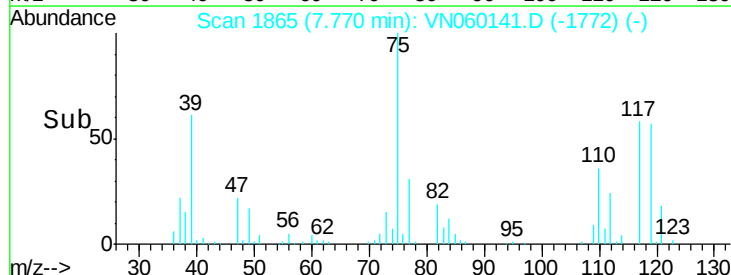
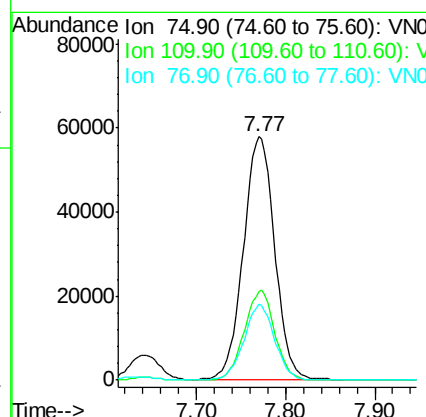
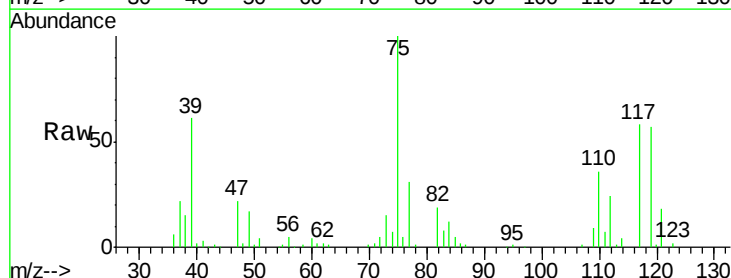
Manual Integrations
 APPROVED

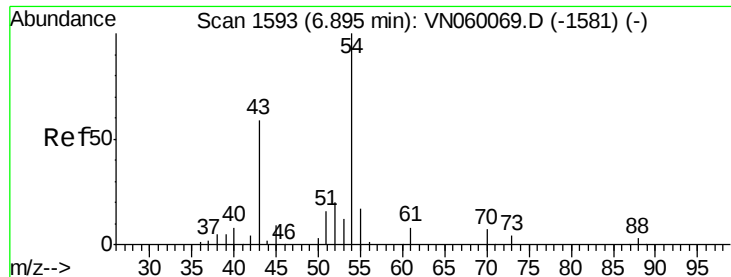
MMDadoda
 2/19/2020 5:06:21 PM



#36
 1,1-Dichloropropene
 Concen: 48.354 ug/l
 RT: 7.77 min Scan# 1865
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.6	18.1	54.3
77	30.4	25.1	37.7





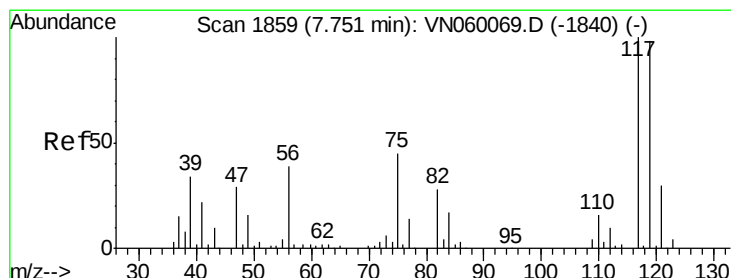
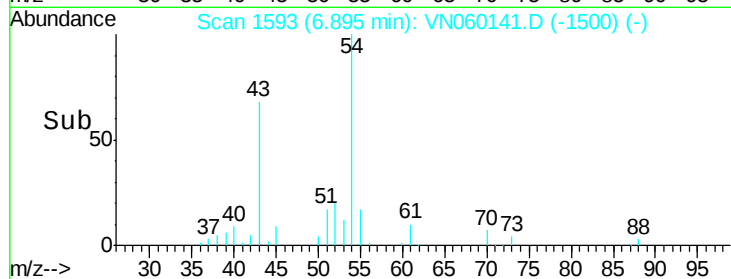
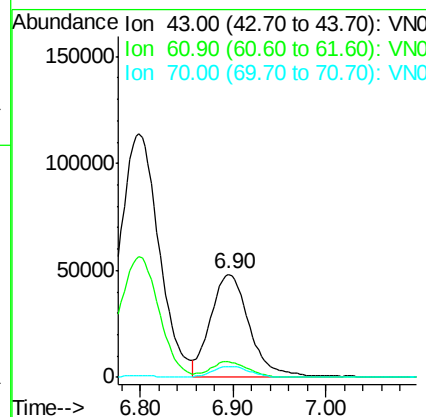
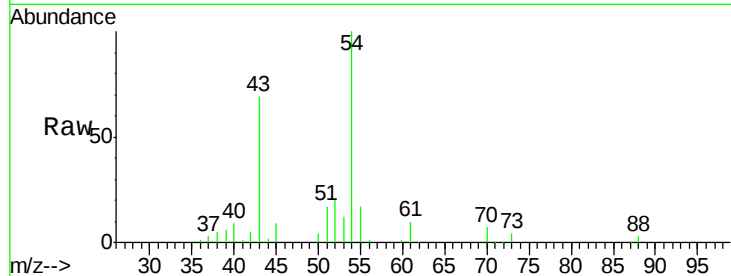
#37
Ethyl Acetate
Concen: 52.096 ug/l
RT: 6.90 min Scan# 1593
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	11.4	17.2
70	10.5	8.7	13.1

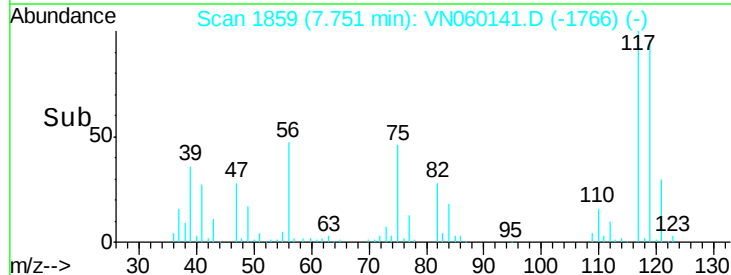
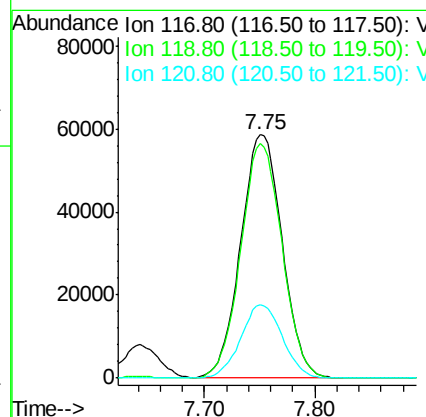
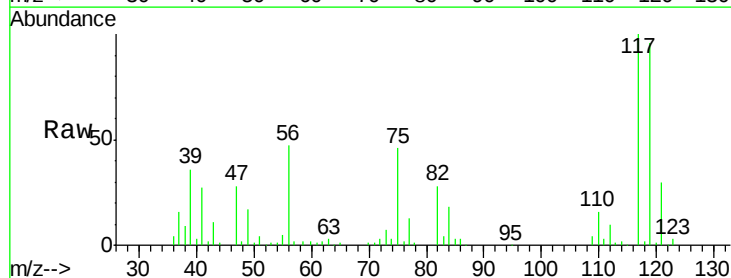
Manual Integrations
APPROVED

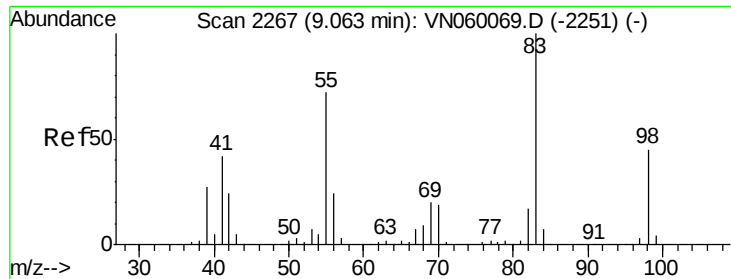
MMDadoda
2/19/2020 5:06:21 PM



#38
Carbon Tetrachloride
Concen: 48.125 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.1	78.2	117.4
121	30.2	24.2	36.2





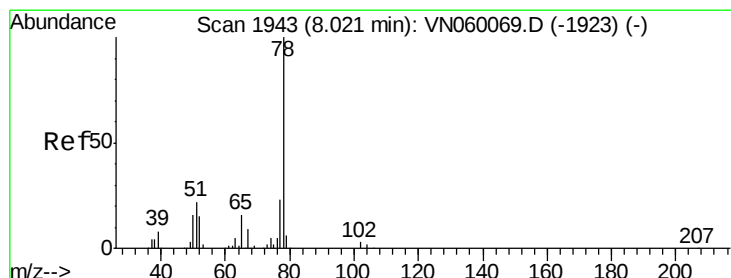
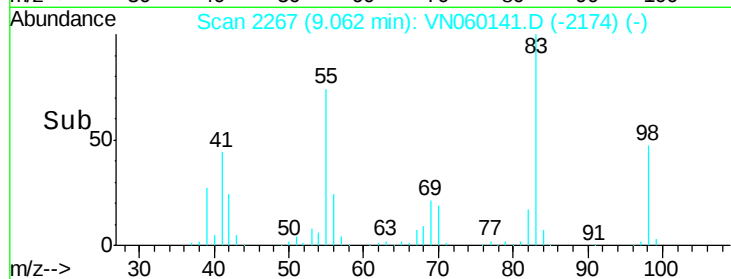
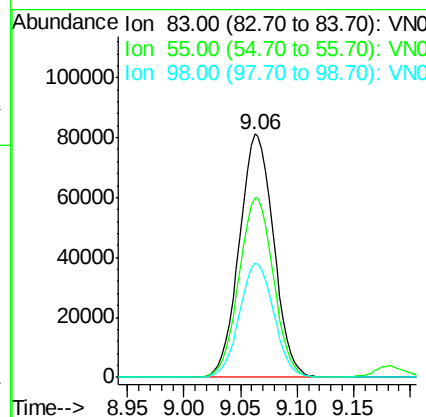
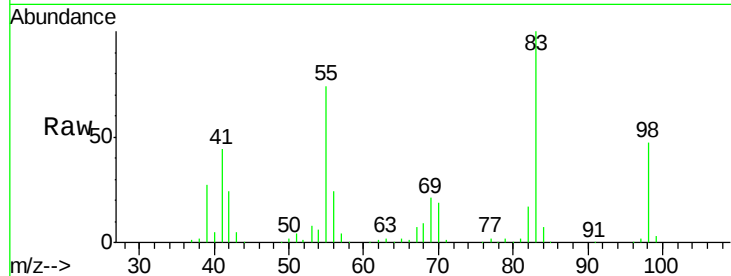
#39
Methvlcvclohexane
Concen: 47.276 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	83	Resp	171787
Ion Ratio	100	Lower	Upper
83	100		
55	74.0	57.8	86.8
98	47.1	36.4	54.6

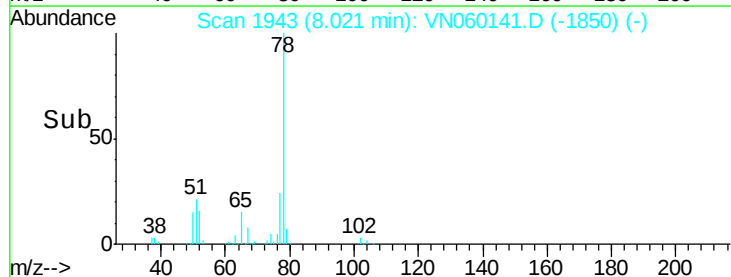
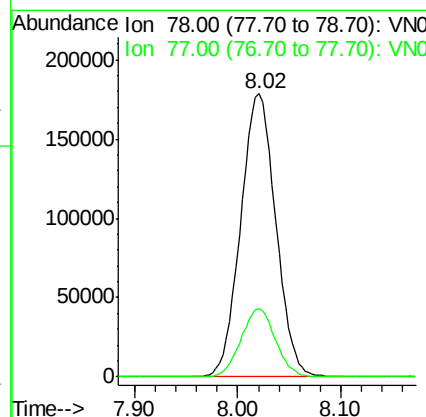
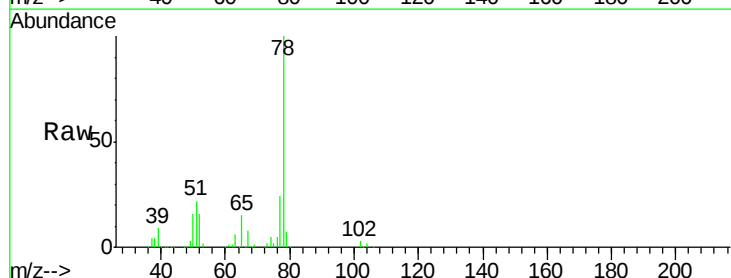
Manual Integrations
APPROVED

MMDadoda
2/19/2020 5:06:21 PM



#40
Benzene
Concen: 48.679 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	78	Resp	422701
Ion Ratio	100	Lower	Upper
78	100		
77	24.0	18.8	28.2





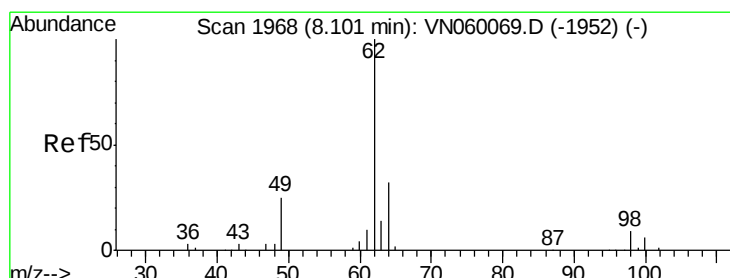
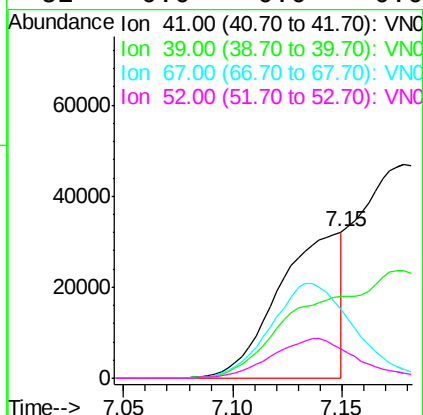
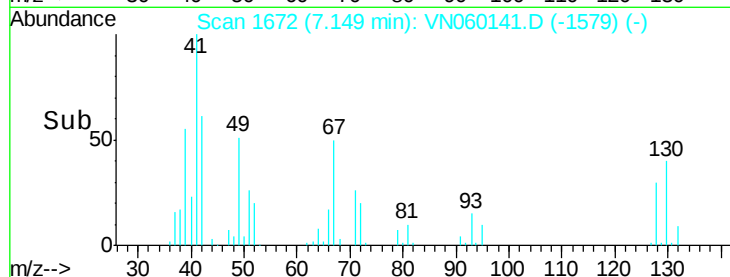
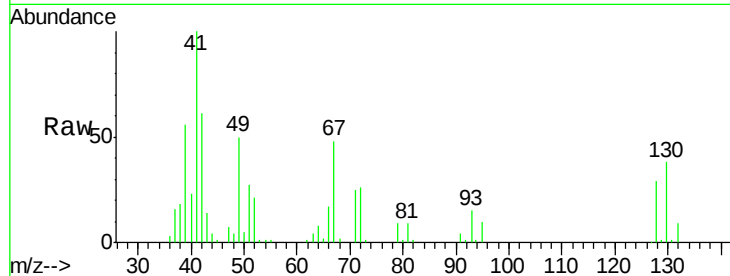
#41
Methacrylonitrile
Concen: 57.808 ug/l m
RT: 7.15 min Scan# 1672
Delta R.T. 0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	41	Resp	64137
Ion	Ratio	Lower	Upper
41	100		
39	165.2	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

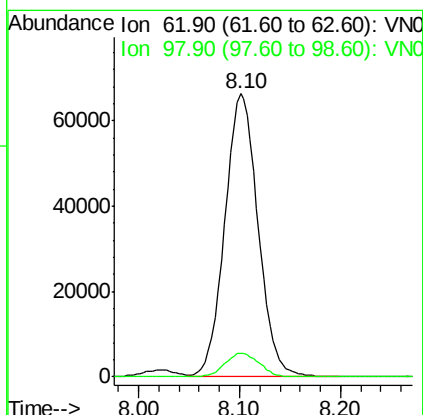
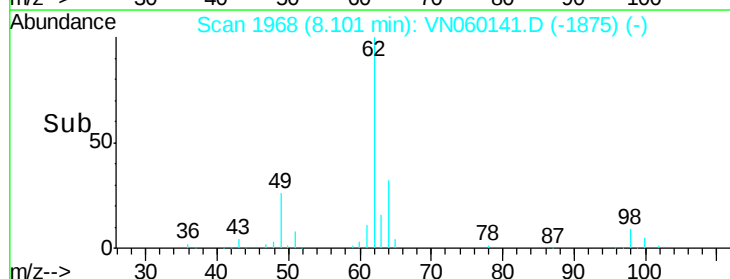
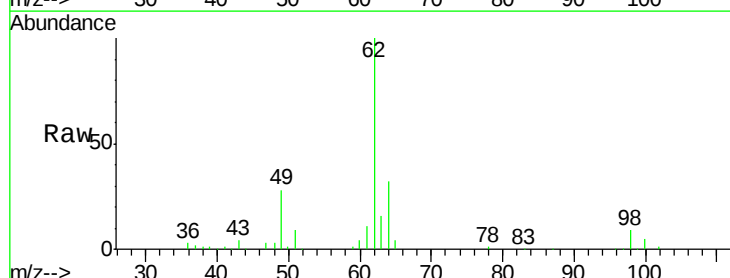
Manual Integrations
APPROVED

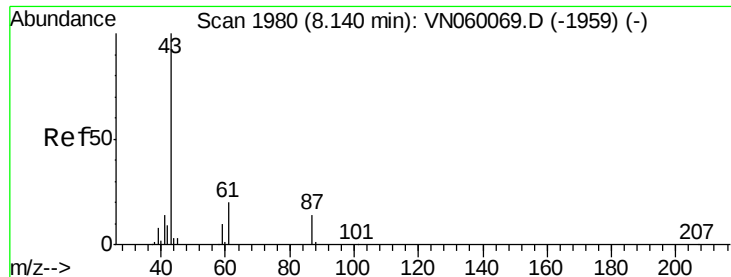
MMDadoda
2/19/2020 5:06:21 PM



#42
1,2-Dichloroethane
Concen: 50.075 ug/l
RT: 8.10 min Scan# 1968
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	62	Resp	152400
Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	18.2





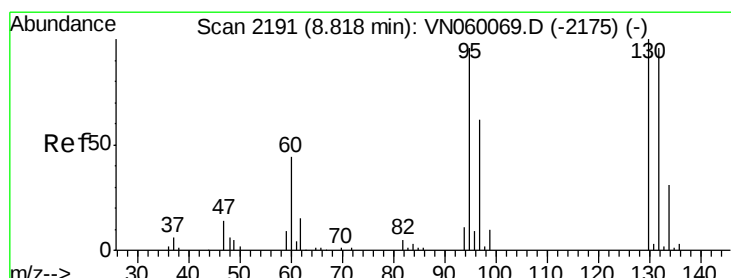
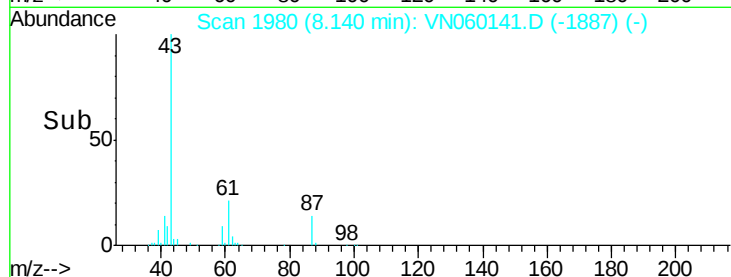
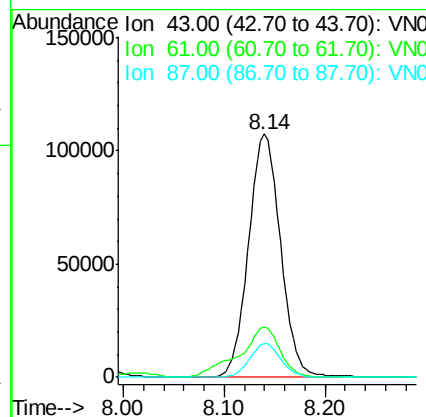
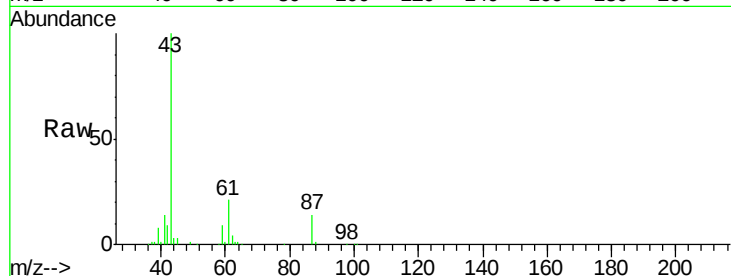
#43
Isopropyl Acetate
Concen: 52.041 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	43	Resp	235354
Ion Ratio	Lower	Upper	
43	100		
61	26.6	21.8	32.6
87	13.6	11.4	17.2

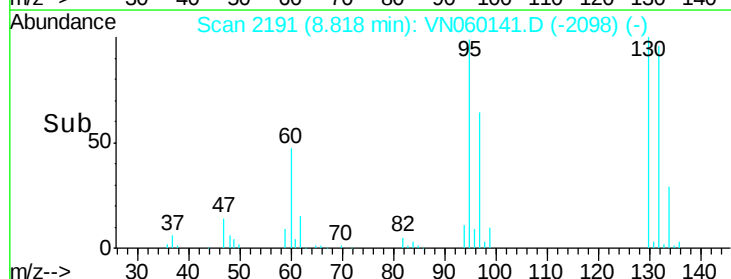
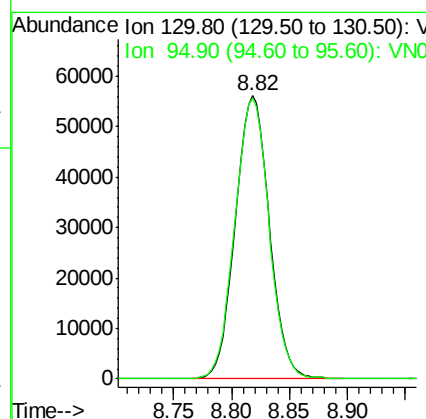
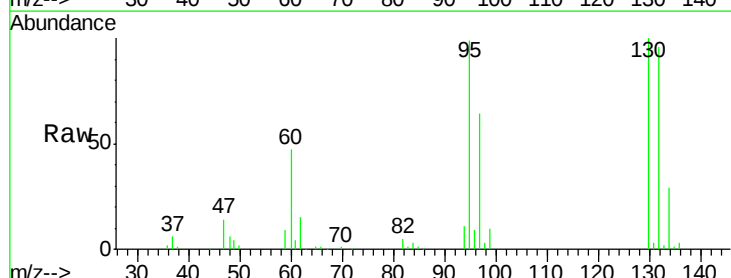
Manual Integrations
APPROVED

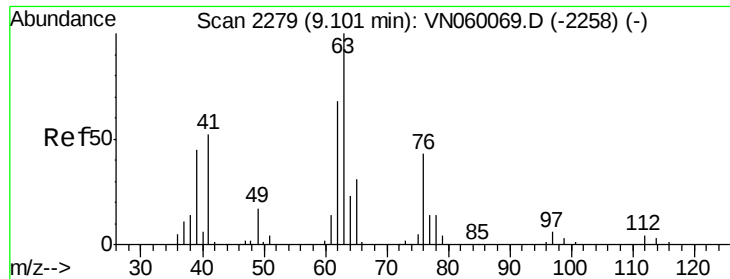
MMDadoda
2/19/2020 5:06:21 PM



#44
Trichloroethene
Concen: 47.409 ug/l
RT: 8.82 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	130	Resp	113991
Ion Ratio	Lower	Upper	
130	100		
95	99.2	0.0	192.4





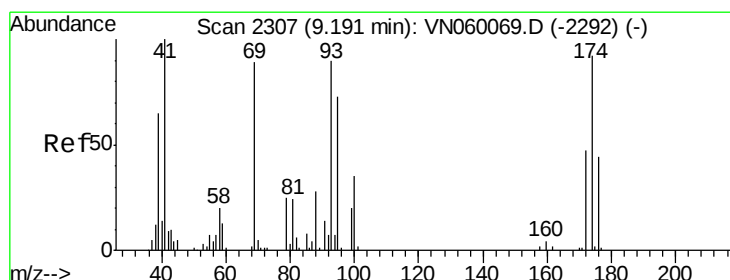
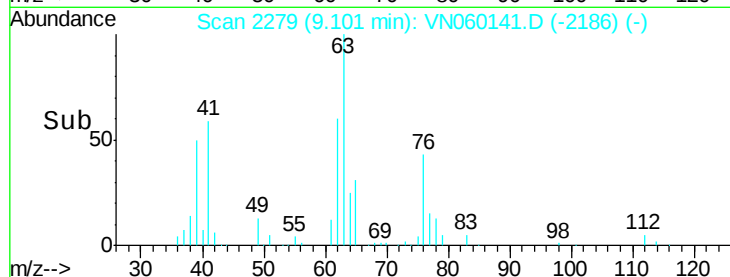
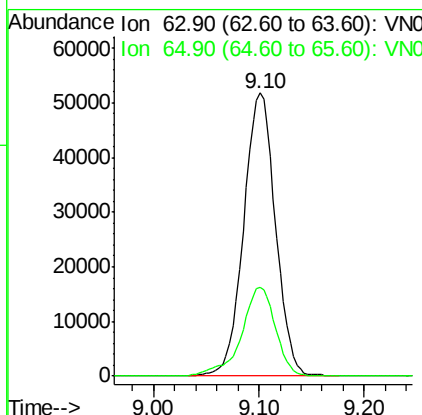
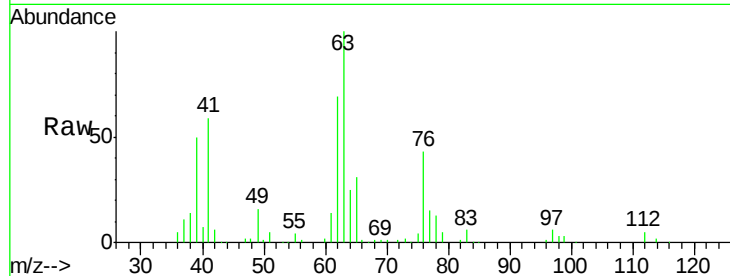
#45
 1,2-Dichloropropane
 Concen: 50.571 ug/l
 RT: 9.10 min Scan# 2279
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 63 Resp: 108718
 Ion Ratio Lower Upper
 63 100
 65 31.4 25.0 37.4

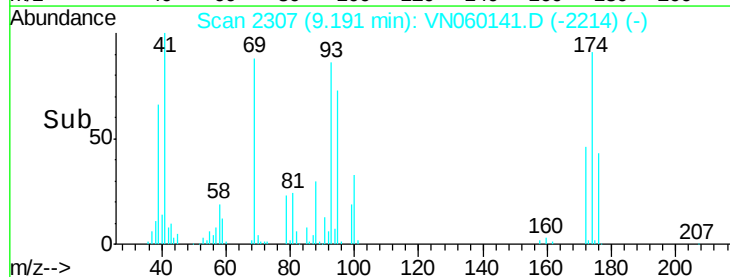
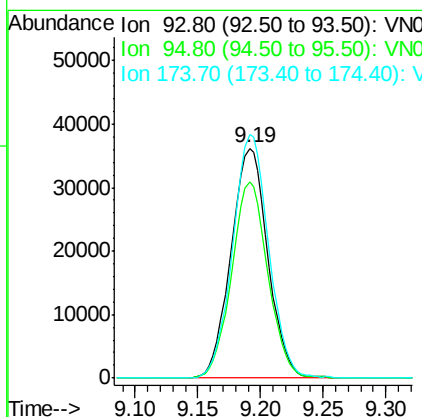
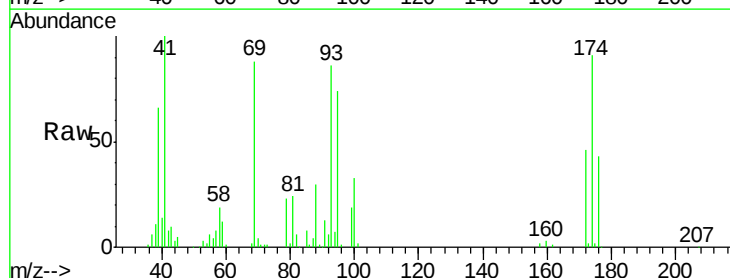
Manual Integrations
 APPROVED

MMDadoda
 2/19/2020 5:06:21 PM



#46
 Dibromomethane
 Concen: 48.666 ug/l
 RT: 9.19 min Scan# 2307
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Tgt Ion: 93 Resp: 73934
 Ion Ratio Lower Upper
 93 100
 95 83.9 65.0 97.6
 174 103.5 82.3 123.5





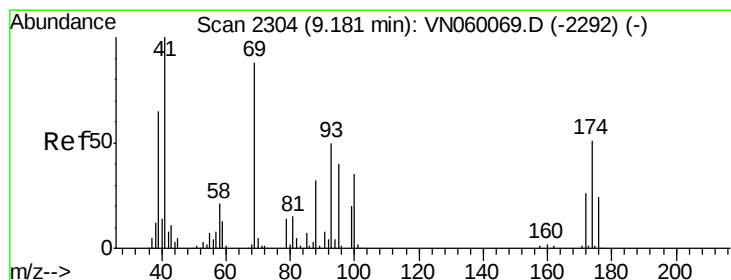
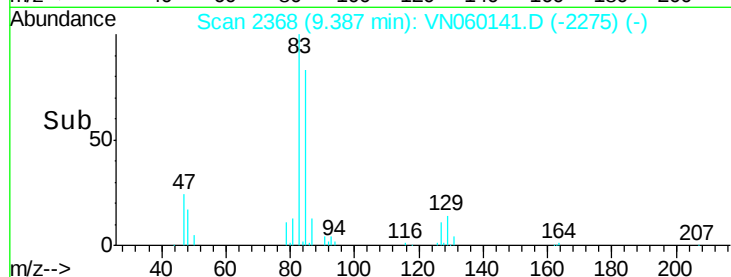
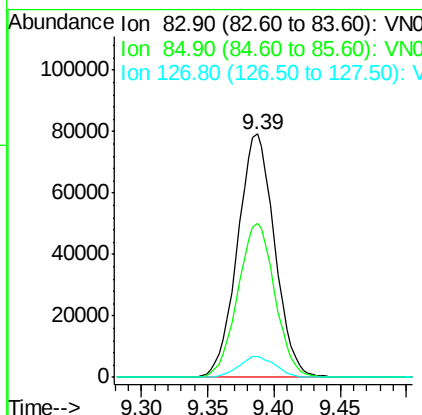
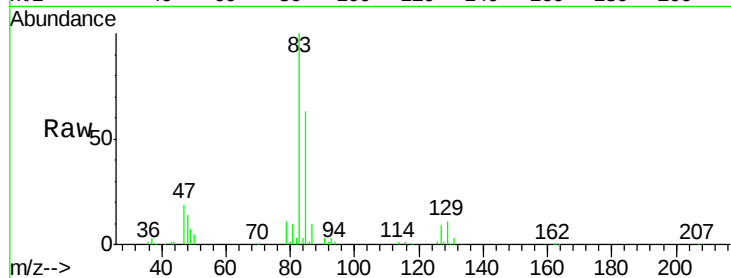
#47
Bromodichloromethane
Concen: 49.750 ug/l
RT: 9.39 min Scan# 2368
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	83	Resp	153661
Ion Ratio	100	Lower	Upper
83	100		
85	63.5	50.6	75.8
127	8.5	7.0	10.6

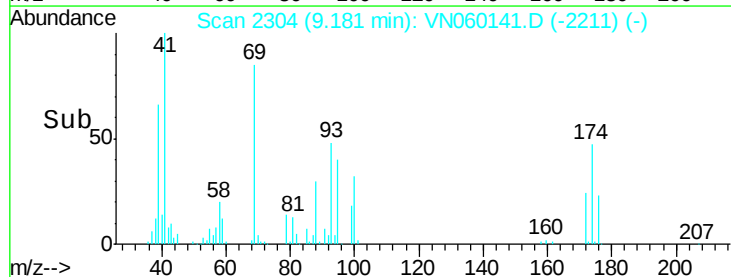
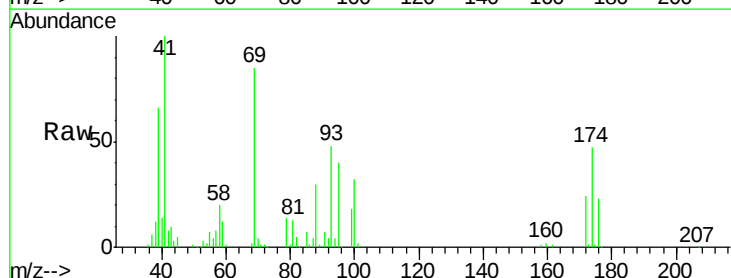
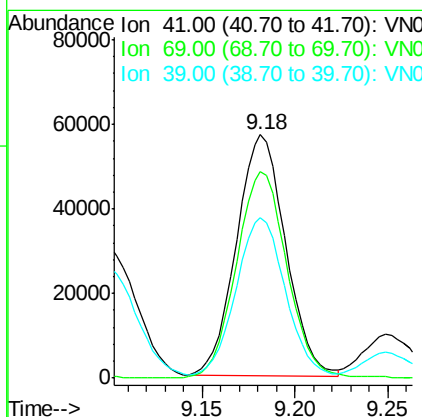
Manual Integrations
APPROVED

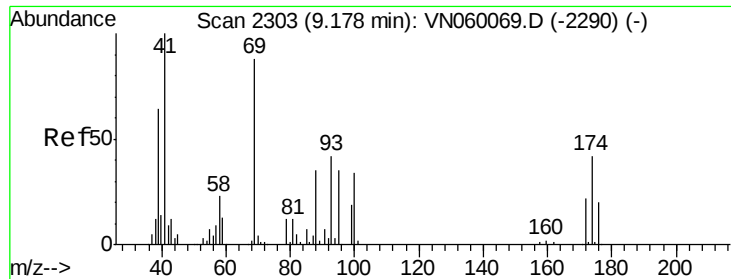
MMDadoda
2/19/2020 5:06:21 PM



#48
Methyl methacrylate
Concen: 51.794 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	41	Resp	105094
Ion Ratio	100	Lower	Upper
41	100		
69	89.0	72.0	108.0
39	65.1	54.1	81.1





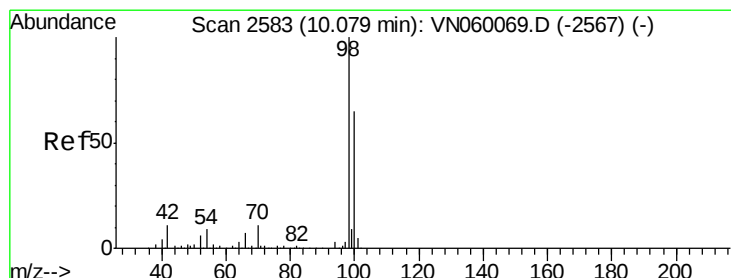
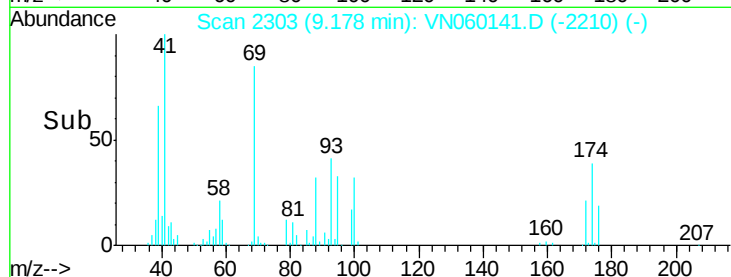
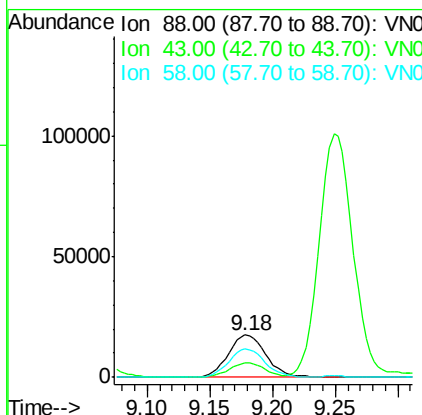
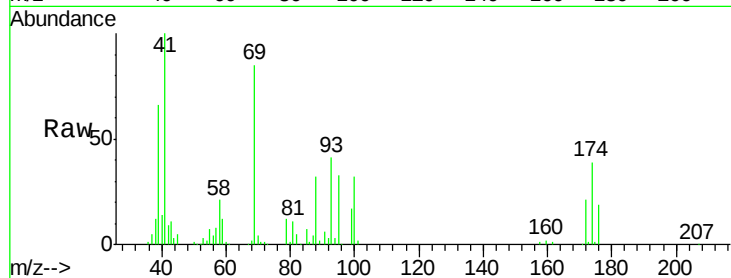
#49
1,4-Dioxane
Concen: 1054.674 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.3	26.2	39.2
58	65.4	53.2	79.8

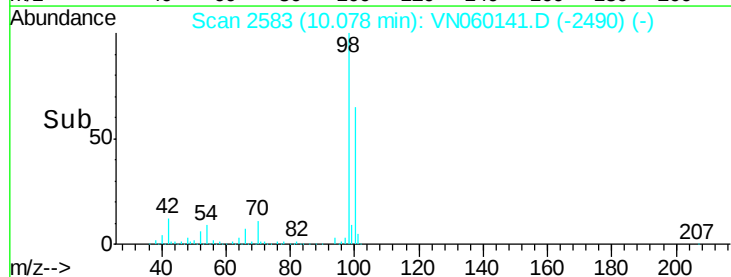
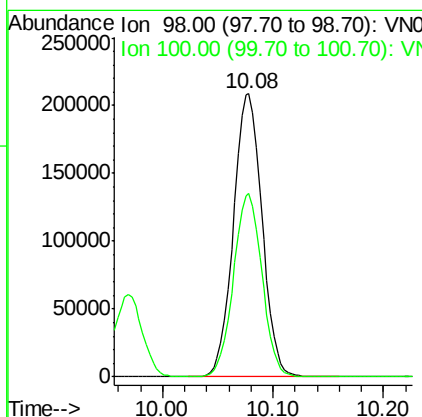
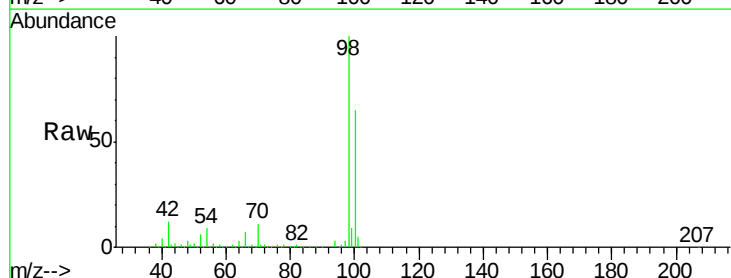
Manual Integrations
APPROVED

MMDadoda
2/19/2020 5:06:21 PM



#50
Toluene-d8
Concen: 49.149 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 266.198 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 696816

Ion Ratio Lower Upper

43 100

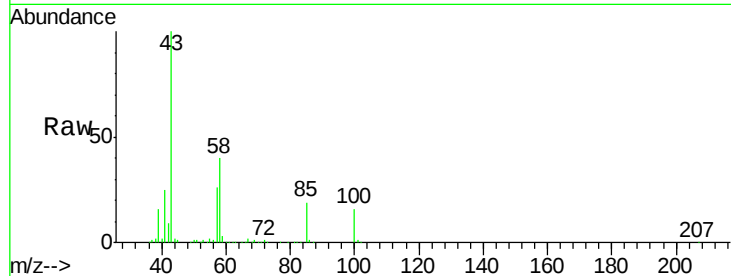
58 39.7 31.8 47.8

Manual Integrations

APPROVED

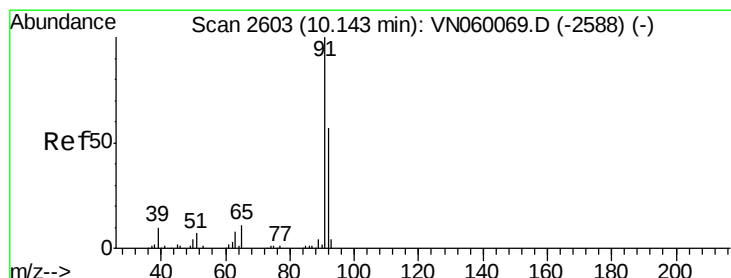
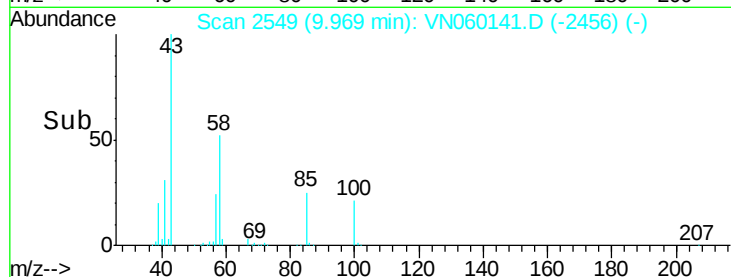
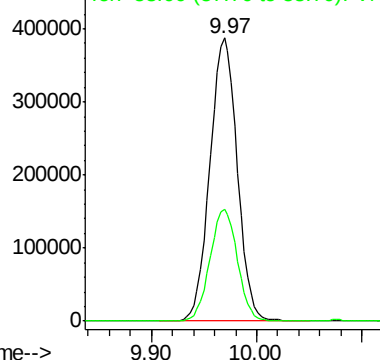
MMDadoda

2/19/2020 5:06:21 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 49.017 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN060141.D

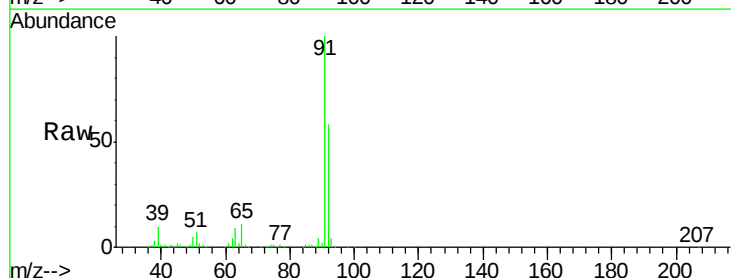
Acq: 18 Feb 2020 17:49

Tgt Ion: 92 Resp: 272946

Ion Ratio Lower Upper

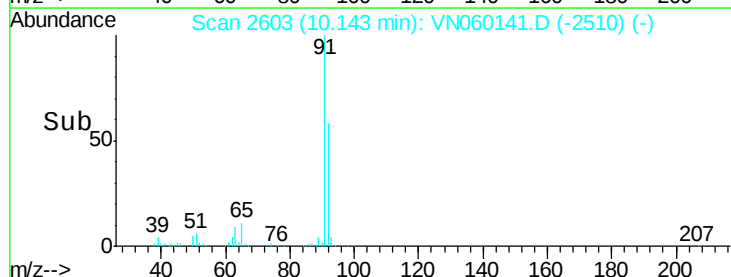
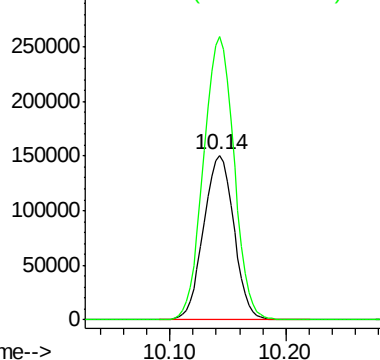
92 100

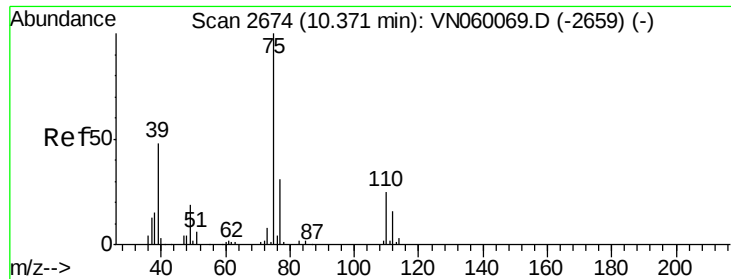
91 173.6 140.9 211.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





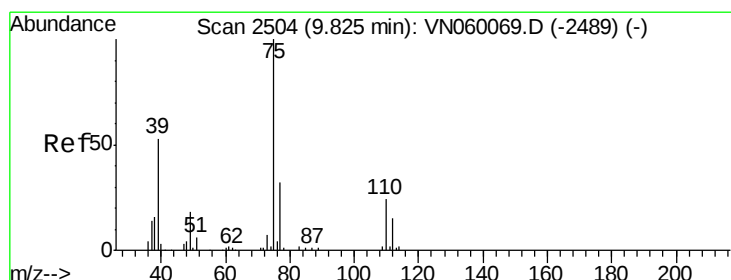
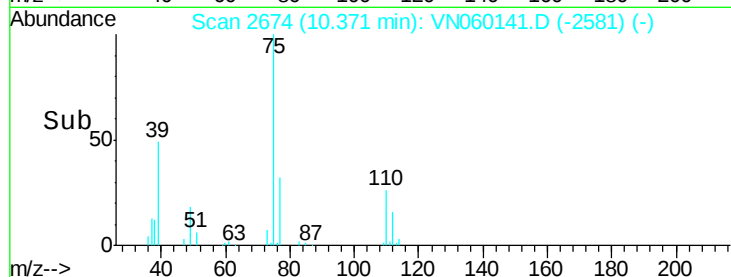
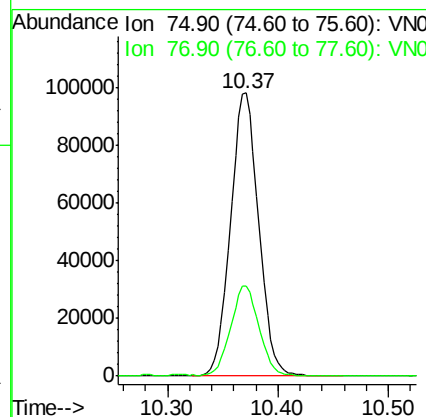
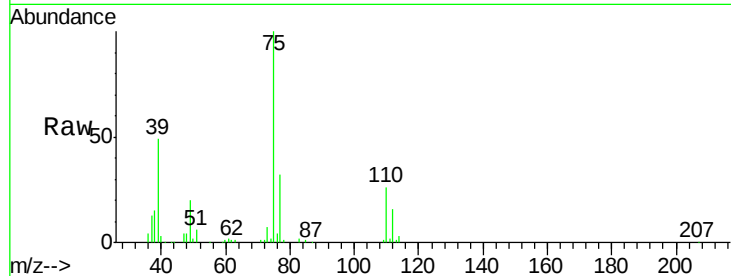
#53
t-1,3-Dichloropropene
Concen: 49.893 ug/l
RT: 10.37 min Scan# 2674
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 75 Resp: 173946
Ion Ratio Lower Upper
75 100
77 31.7 25.4 38.0

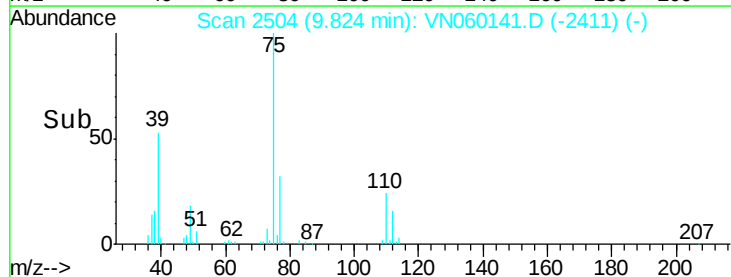
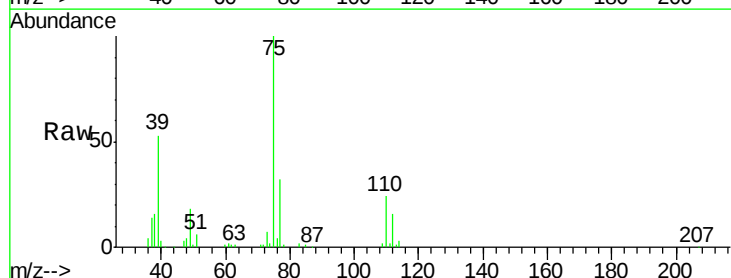
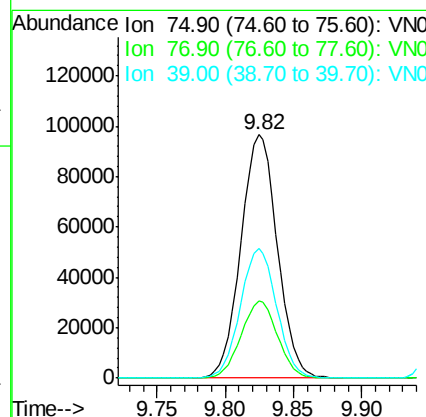
Manual Integrations
APPROVED

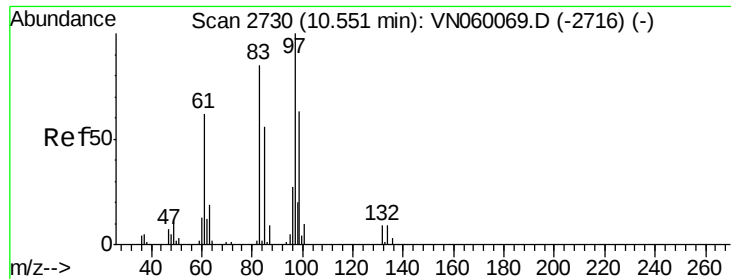
MMDadoda
2/19/2020 5:06:21 PM



#54
cis-1,3-Dichloropropene
Concen: 48.825 ug/l
RT: 9.82 min Scan# 2504
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion: 75 Resp: 179244
Ion Ratio Lower Upper
75 100
77 31.7 25.6 38.4
39 53.2 42.2 63.4





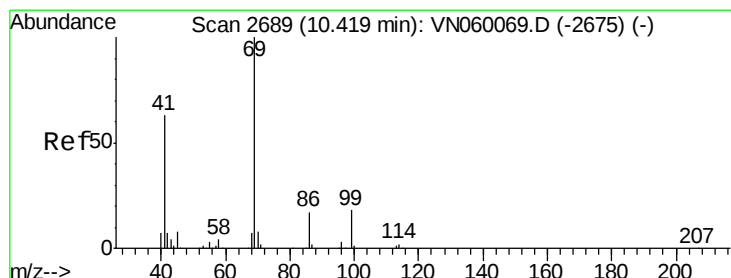
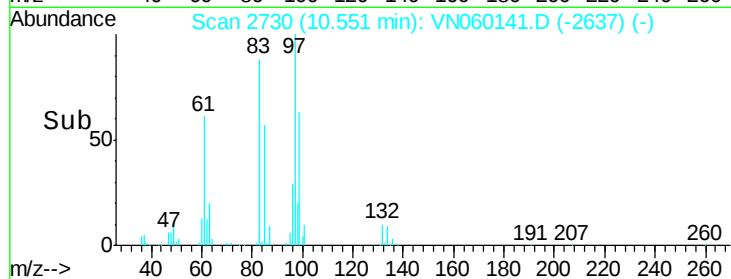
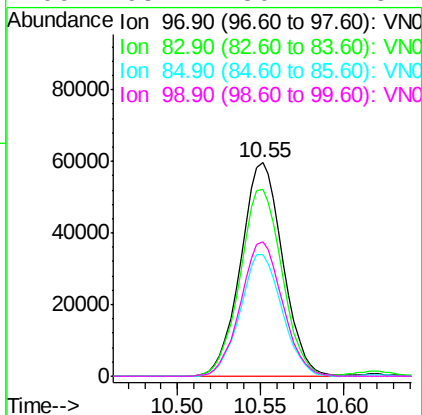
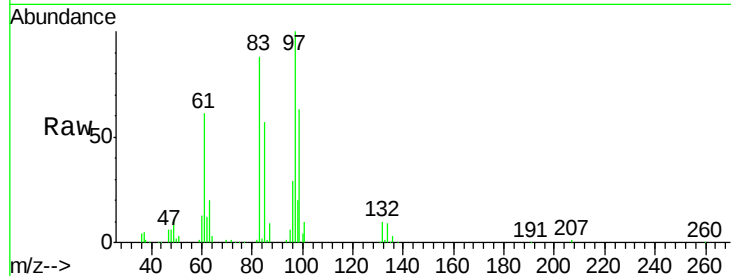
#55
 1,1,2-Trichloroethane
 Concen: 48.448 ug/l
 RT: 10.55 min Scan# 2730
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.7	67.9	101.9
85	57.1	44.6	67.0
99	63.1	50.1	75.1

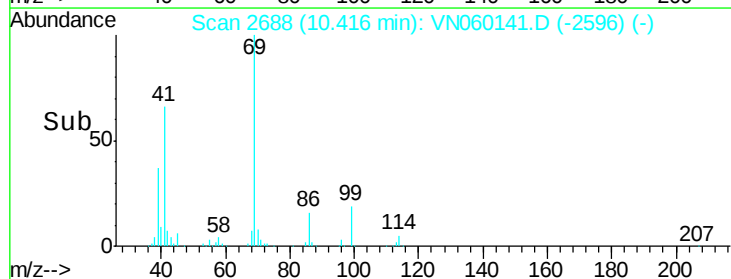
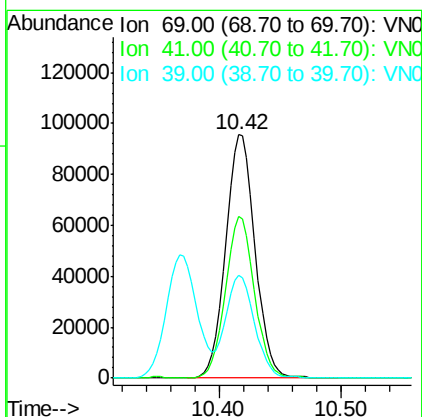
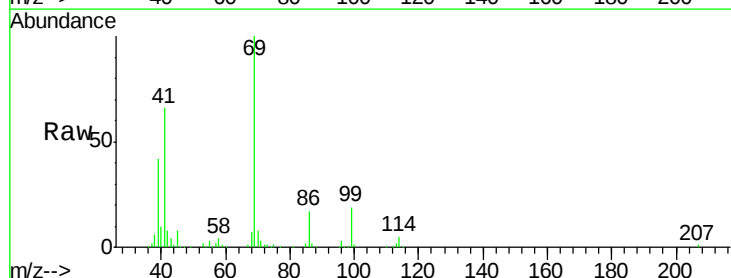
Manual Integrations
 APPROVED

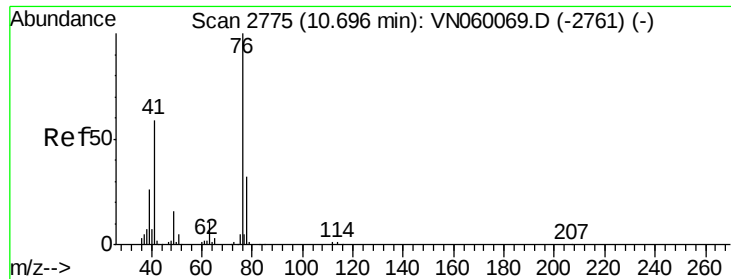
MMDadoda
 2/19/2020 5:06:21 PM



#56
 Ethyl methacrylate
 Concen: 52.355 ug/l
 RT: 10.42 min Scan# 2688
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
69	100		
41	65.0	51.1	76.7
39	42.9	33.8	50.8





#57

1,3-Dichloropropane

Concen: 50.057 ug/l

RT: 10.70 min Scan# 2775

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 179432

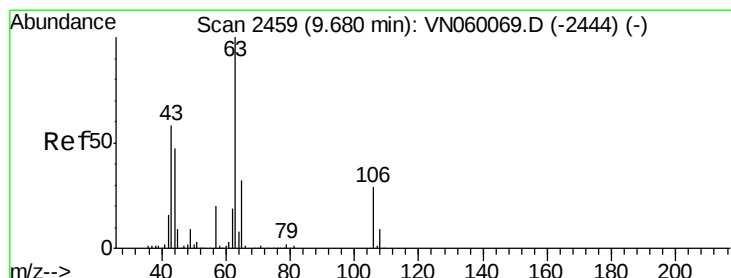
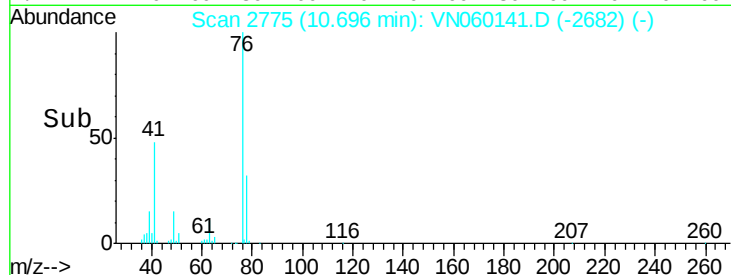
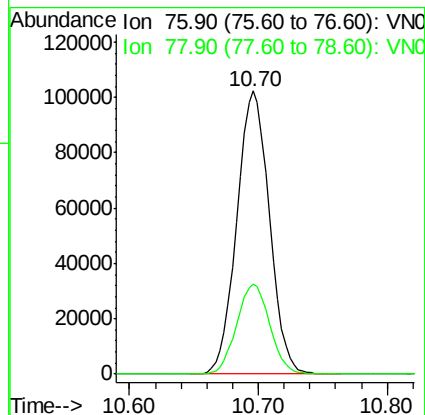
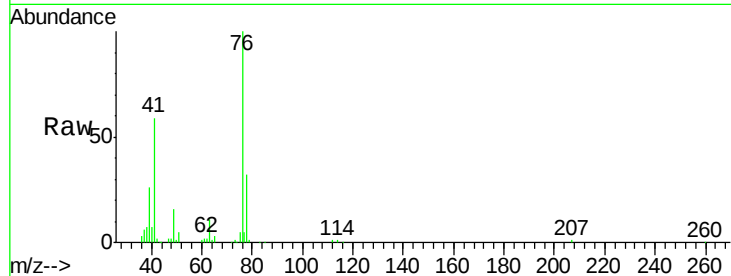
Ion Ratio Lower Upper

76 100

78 32.3 25.7 38.5

Manual Integrations
APPROVED

MMDadoda
2/19/2020 5:06:21 PM



#58

2-Chloroethyl Vinyl ether

Concen: 256.356 ug/l

RT: 9.68 min Scan# 2459

Delta R.T. -0.00 min

Lab File: VN060141.D

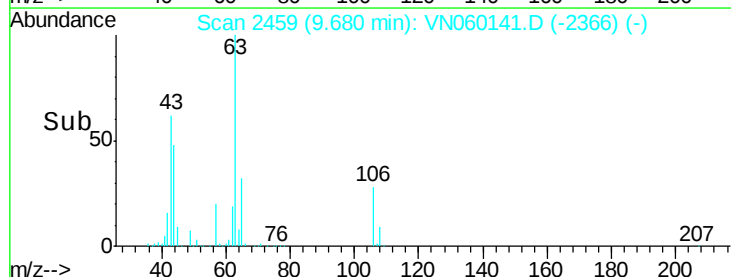
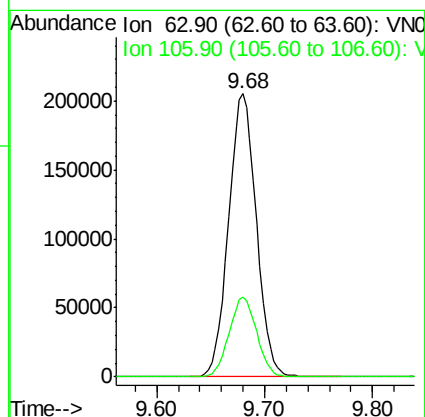
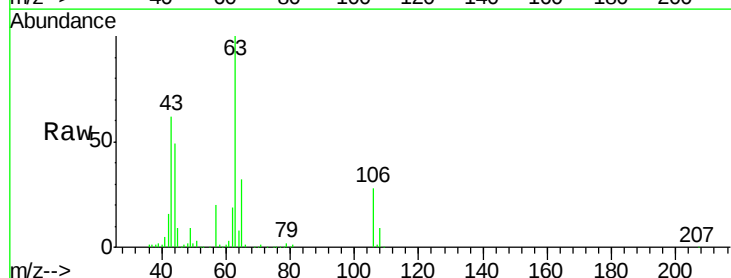
Acq: 18 Feb 2020 17:49

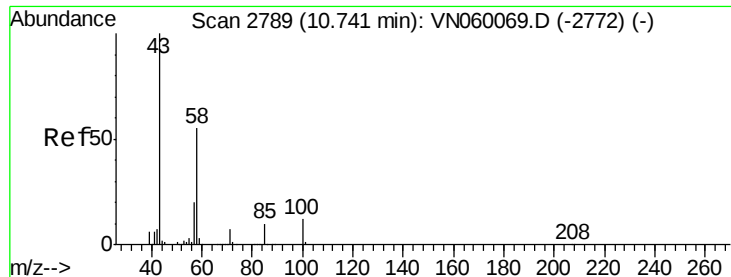
Tgt Ion: 63 Resp: 367015

Ion Ratio Lower Upper

63 100

106 28.0 22.9 34.3





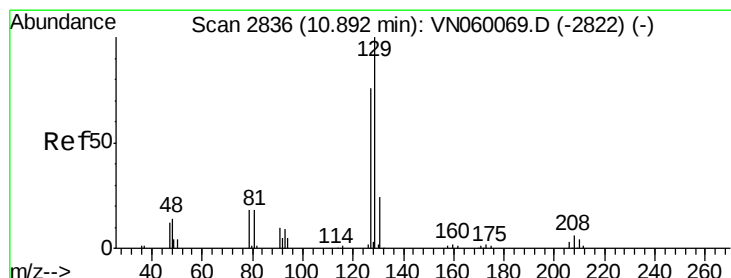
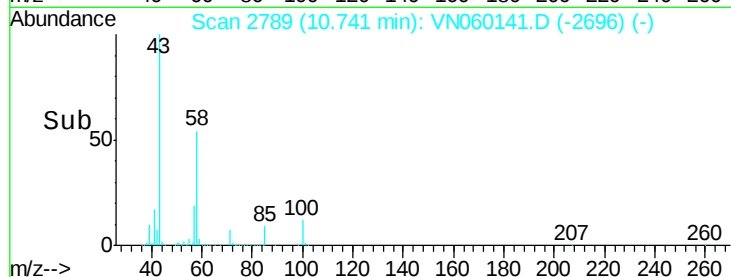
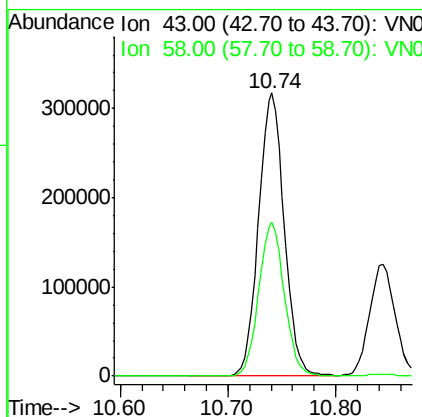
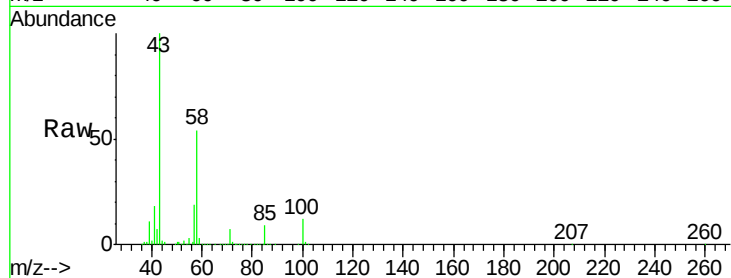
#59
2-Hexanone
Concen: 258.676 ug/l
RT: 10.74 min Scan# 2789
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 523063
Ion Ratio Lower Upper
43 100
58 54.2 27.5 82.4

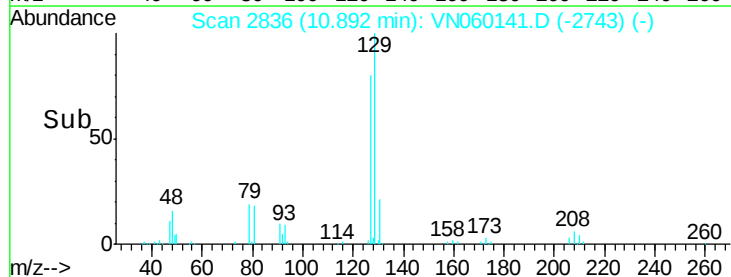
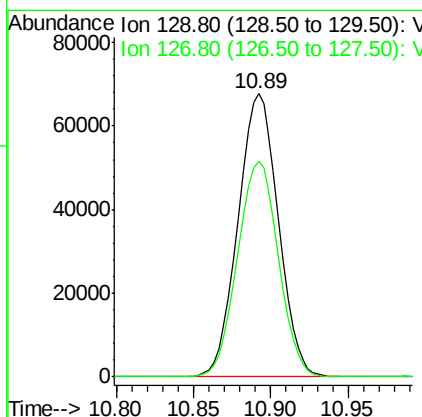
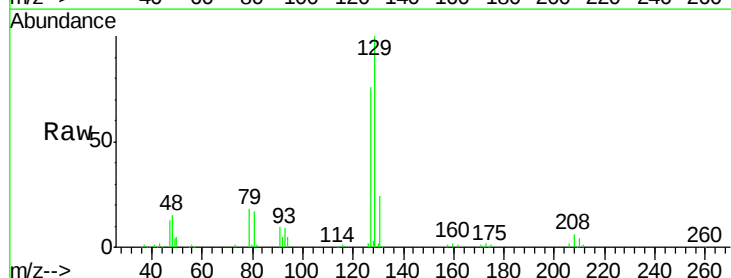
Manual Integrations
APPROVED

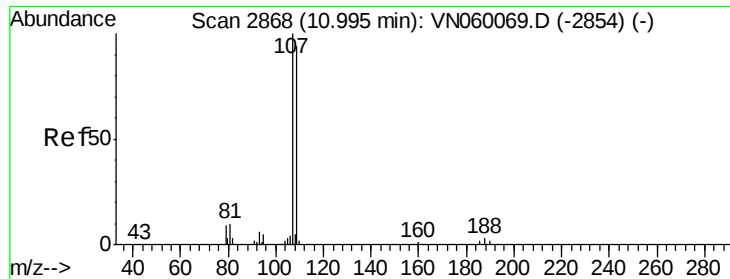
MMDadoda
2/19/2020 5:06:21 PM



#60
Dibromochloromethane
Concen: 49.187 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion: 129 Resp: 122619
Ion Ratio Lower Upper
129 100
127 77.3 38.0 114.1





#61

1,2-Dibromoethane

Concen: 49.686 ug/l

RT: 10.99 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:107 Resp: 113148

Ion Ratio Lower Upper

107 100

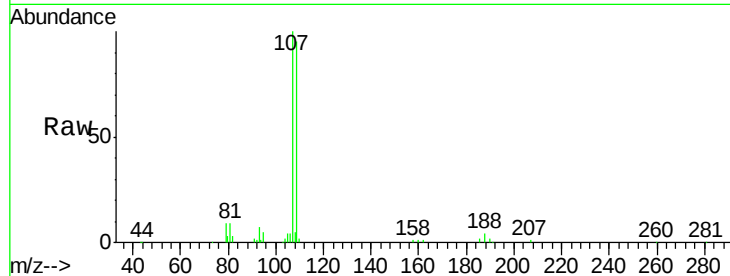
109 94.7 75.4 113.0

Manual Integrations

APPROVED

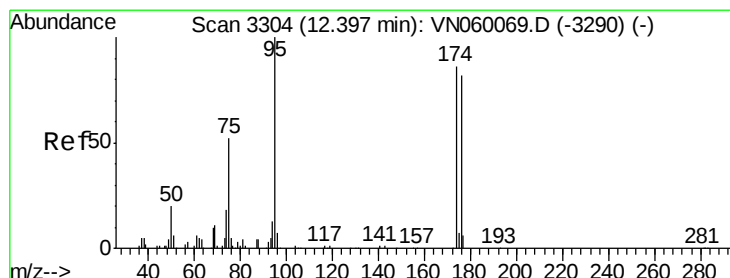
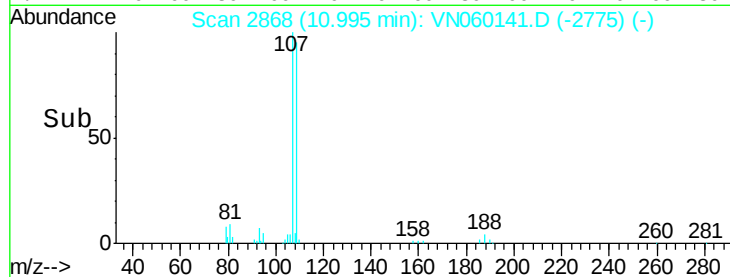
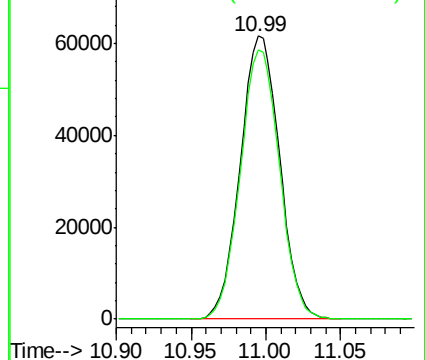
MMDadoda

2/19/2020 5:06:21 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 50.751 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

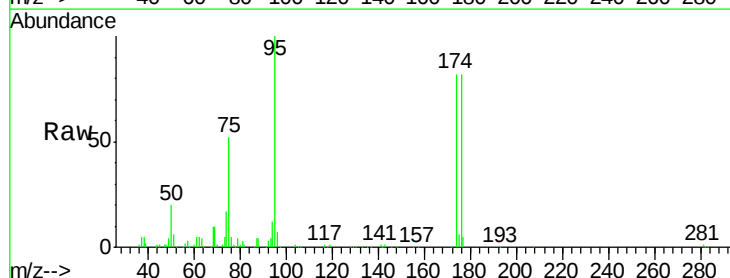
Tgt Ion: 95 Resp: 142666

Ion Ratio Lower Upper

95 100

174 82.9 0.0 169.8

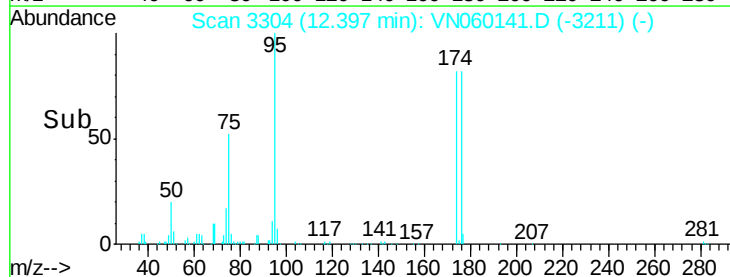
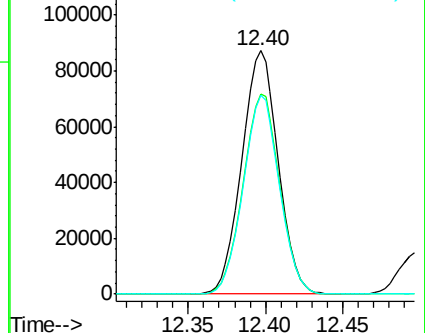
176 81.2 0.0 164.8

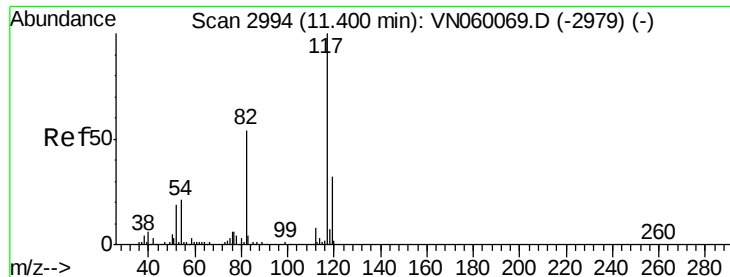


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





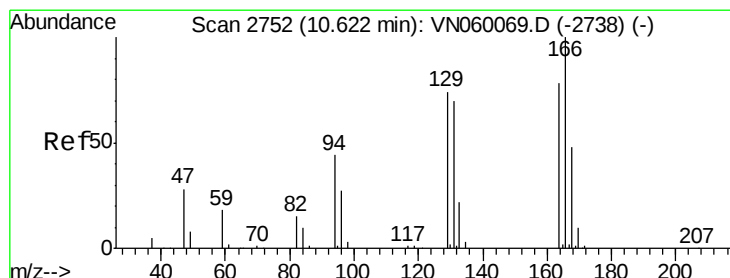
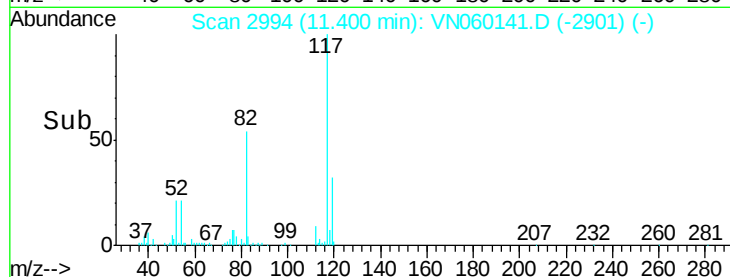
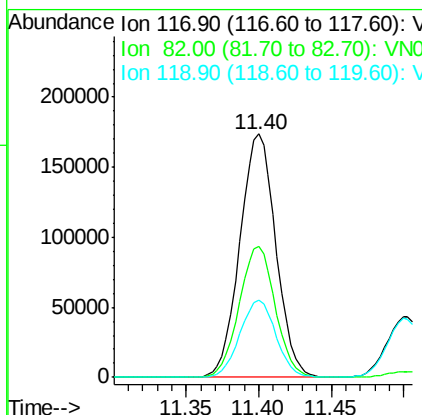
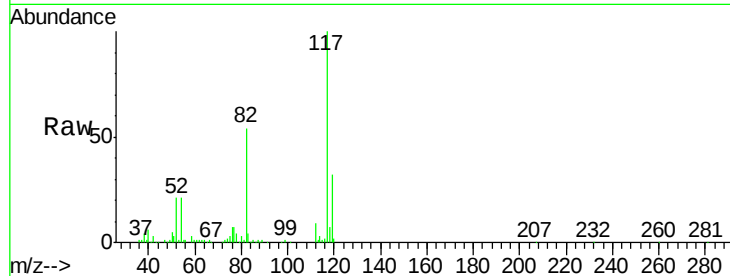
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
117	100	299999		
82	53.9		43.4	65.0
119	31.6		25.8	38.6

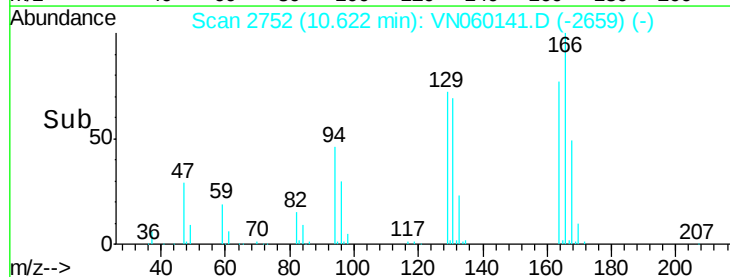
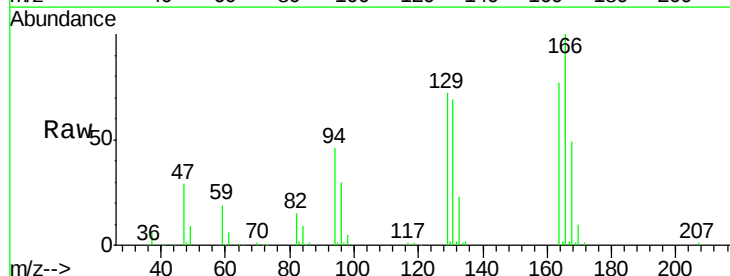
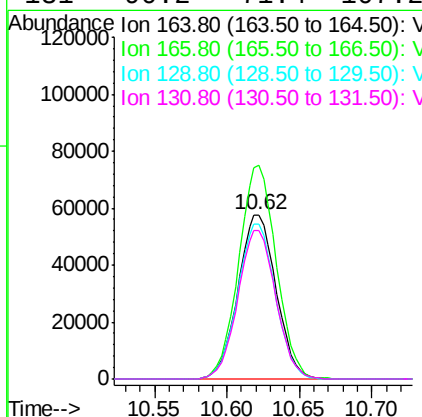
Manual Integrations
APPROVED

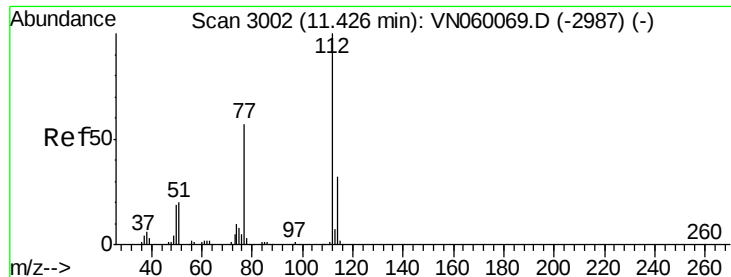
MMDadoda
2/19/2020 5:06:21 PM



#64
Tetrachloroethene
Concen: 46.068 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	105061		
166	130.0		101.9	152.9
129	93.9		75.4	113.0
131	90.2		71.4	107.2





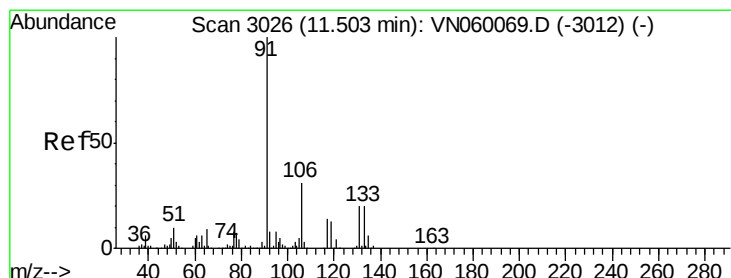
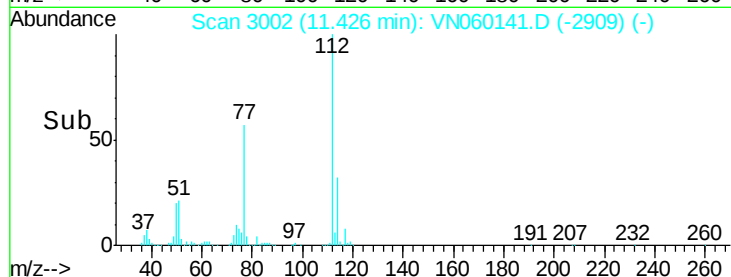
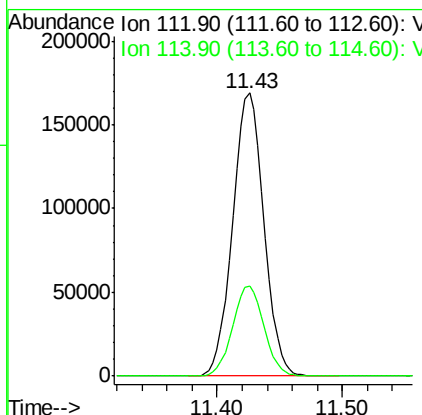
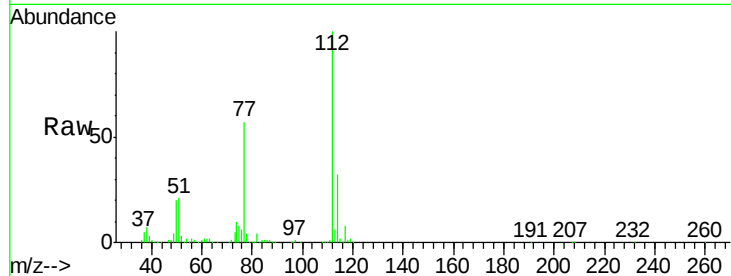
#65
Chlorobenzene
Concen: 47.666 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.4	38.0

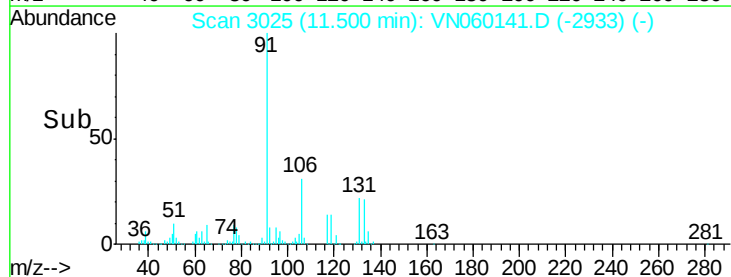
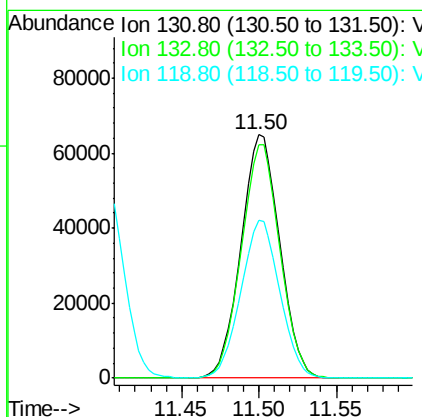
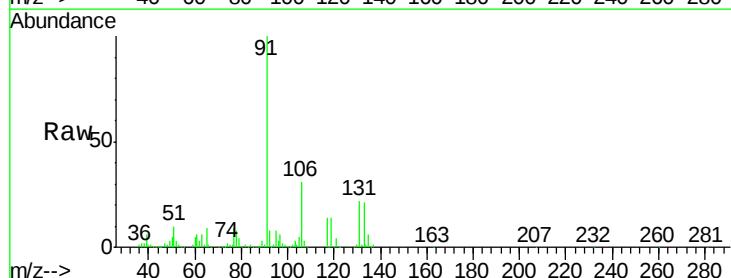
Manual Integrations
APPROVED

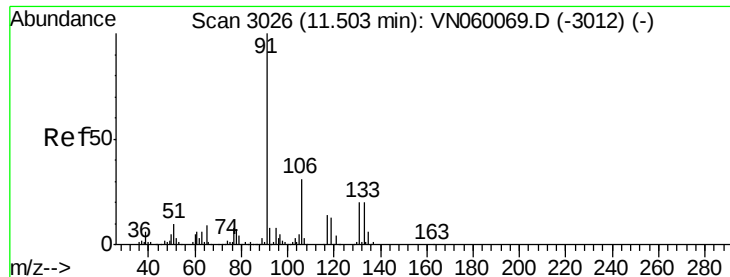
MMDadoda
2/19/2020 5:06:21 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 48.935 ug/l
RT: 11.50 min Scan# 3025
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.1	47.9	143.7
119	65.3	32.6	97.7





#67

Ethyl Benzene

Concen: 48.494 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 534569

Ion Ratio Lower Upper

91 100

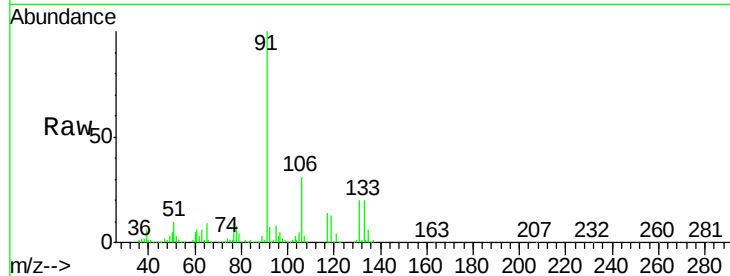
106 30.8 25.1 37.7

Manual Integrations

APPROVED

MMDadoda

2/19/2020 5:06:21 PM



Abundance Ion 91.00 (90.70 to 91.70): VN060141.D (-2933) (-)

Ion 106.00 (105.70 to 106.70): VN060141.D (-2933) (-)

500000

400000

300000

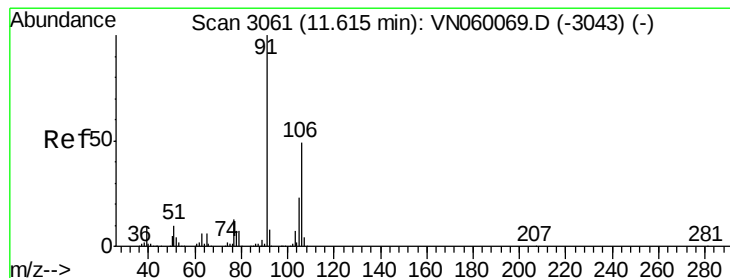
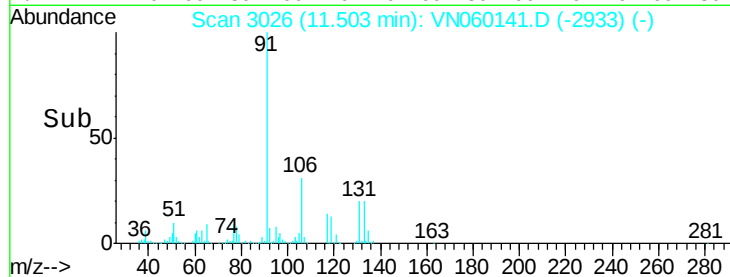
200000

100000

0

11.45 11.50 11.55

Time-->



#68

m/p-Xylenes

Concen: 96.781 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN060141.D

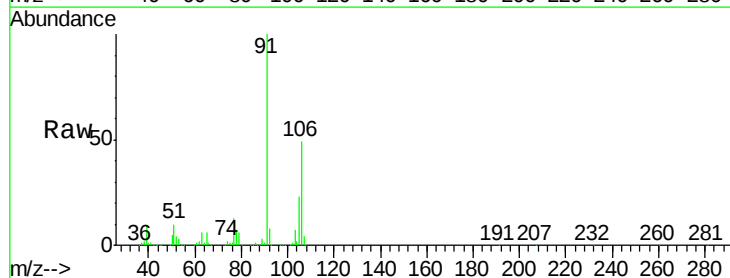
Acq: 18 Feb 2020 17:49

Tgt Ion: 106 Resp: 400411

Ion Ratio Lower Upper

106 100

91 203.8 162.7 244.1



Abundance Ion 106.00 (105.70 to 106.70): VN060141.D (-2968) (-)

Ion 91.00 (90.70 to 91.70): VN060141.D (-2968) (-)

500000

400000

300000

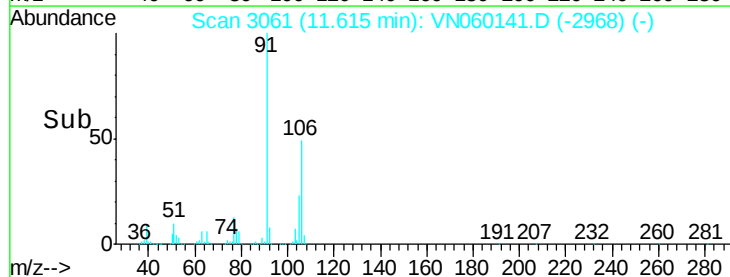
200000

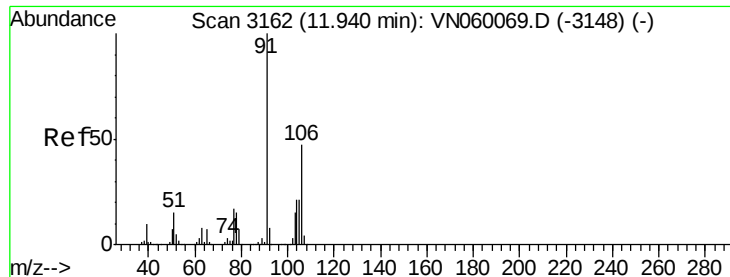
100000

0

11.50 11.60 11.70

Time-->





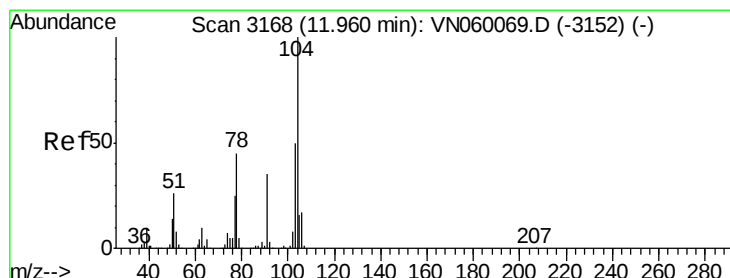
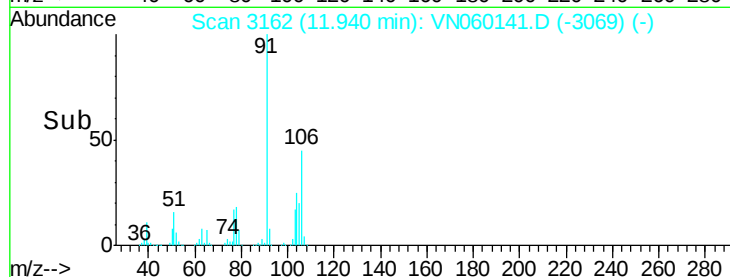
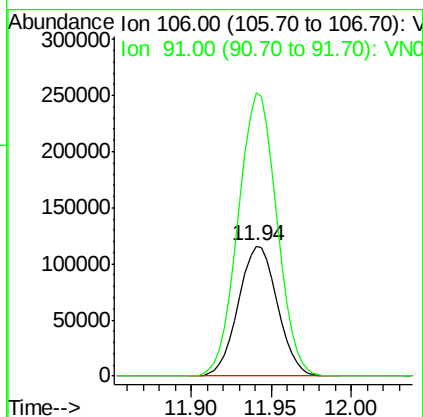
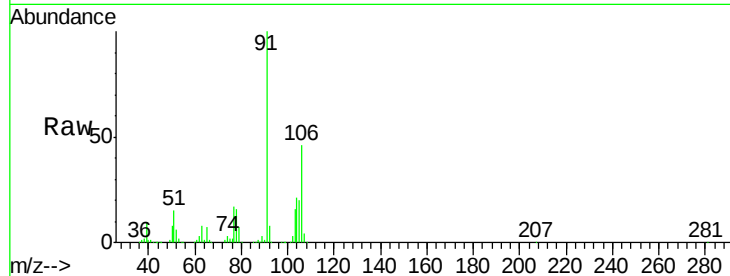
#69
o-Xylene
Concen: 48.524 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
106	106	100		
91	91	215.8	107.2	321.6

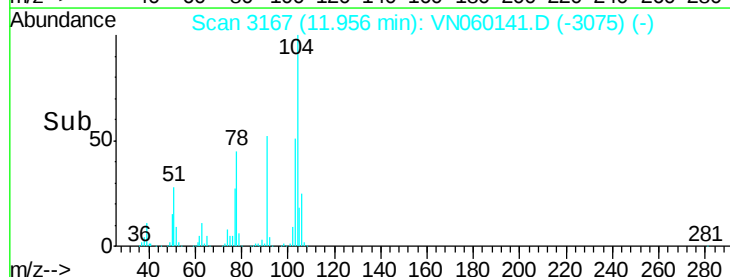
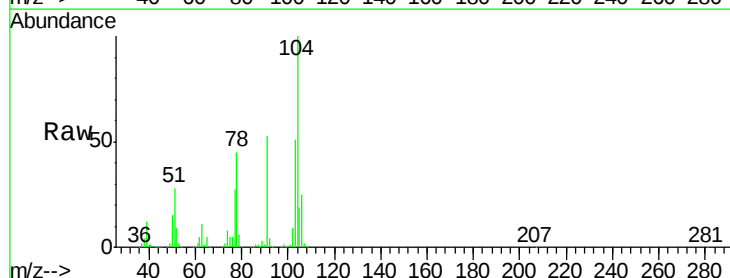
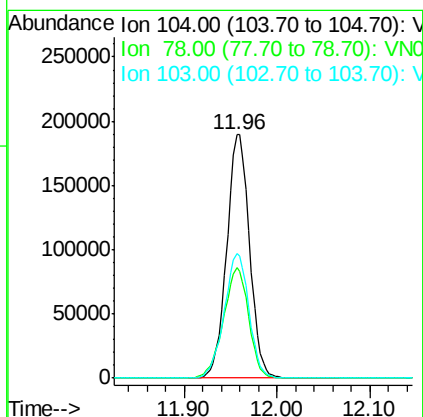
Manual Integrations
APPROVED

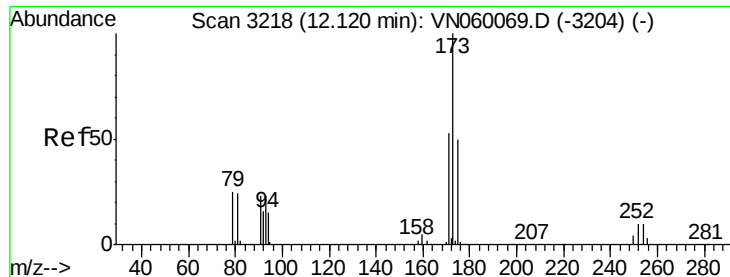
MMDadoda
2/19/2020 5:06:21 PM



#70
Styrene
Concen: 50.419 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	Ion	Ratio	Lower	Upper
104	104	100		
78	78	50.0	40.2	60.2
103	103	55.4	44.3	66.5





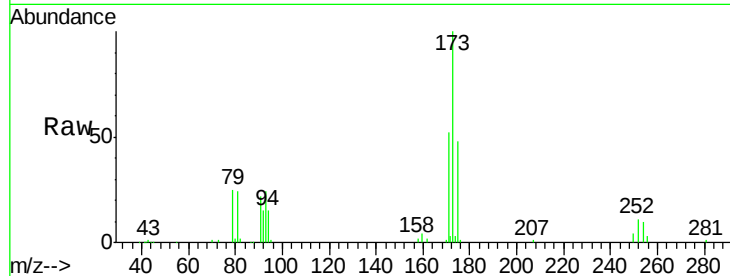
#71
Bromoform
Concen: 49.888 ug/l
RT: 12.12 min Scan# 3218
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

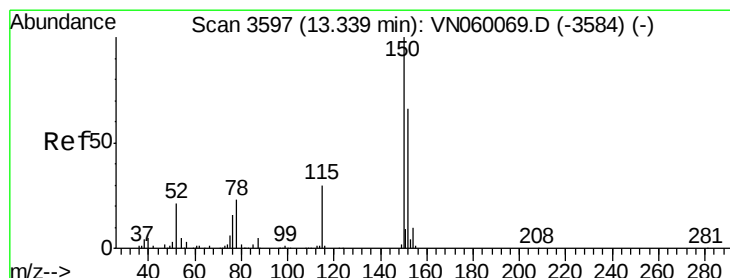
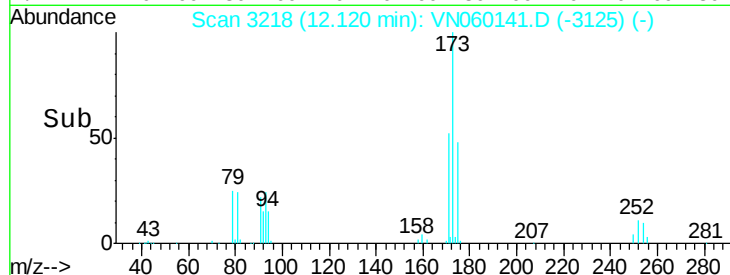
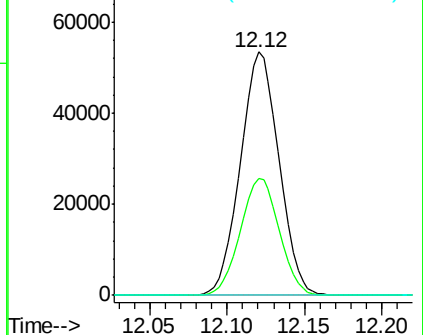
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.9	74.6
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
2/19/2020 5:06:21 PM

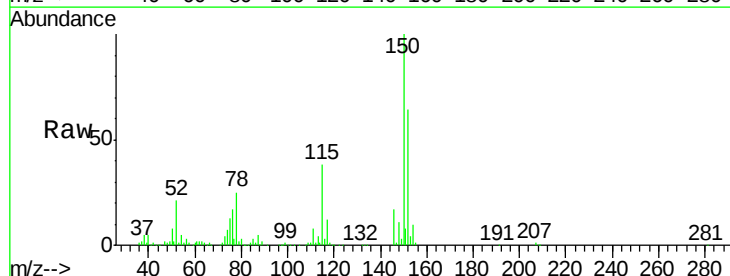


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

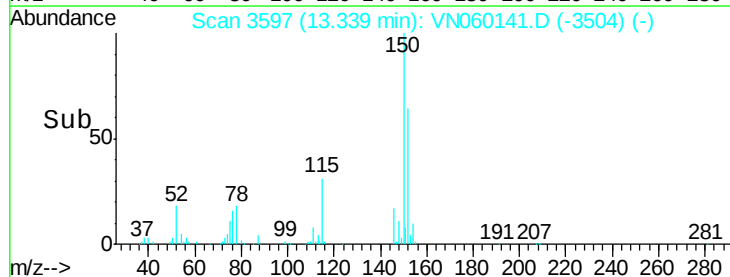
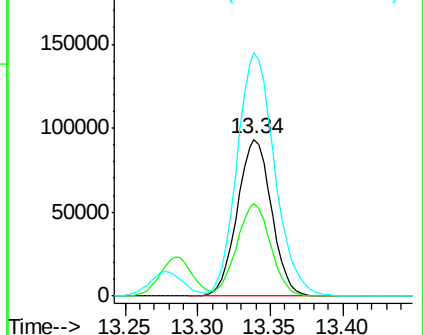


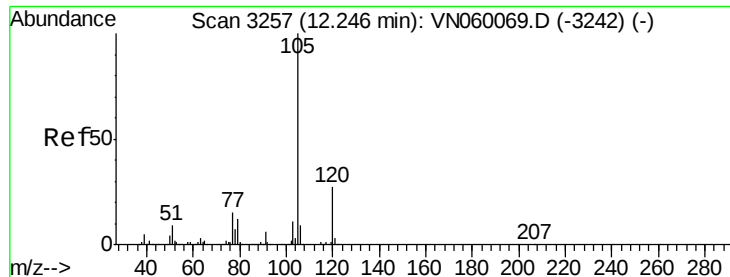
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.7	28.9	86.8
150	171.6	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: 46.457 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 105 Resp: 528802

Ion Ratio Lower Upper

105 100

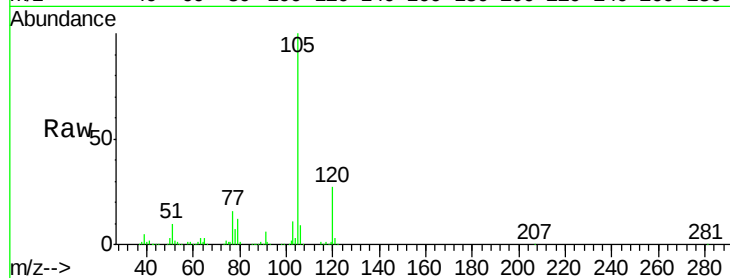
120 26.3 13.3 39.8

Manual Integrations

APPROVED

MMDadoda

2/19/2020 5:06:21 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

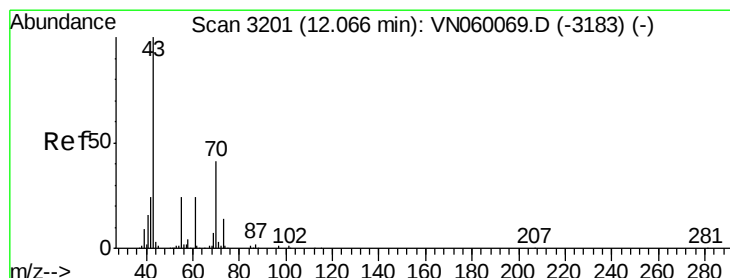
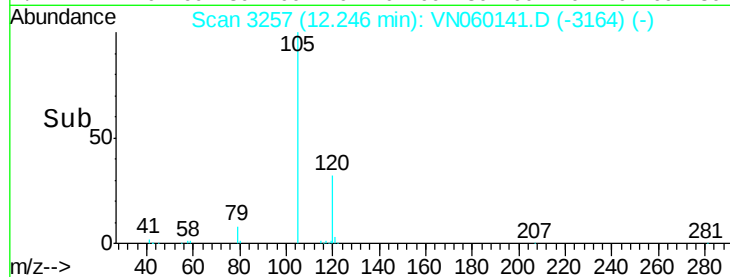
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 51.167 ug/l

RT: 12.06 min Scan# 3200

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Tgt Ion: 43 Resp: 210015

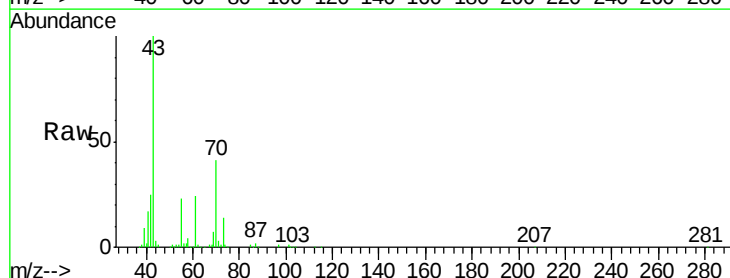
Ion Ratio Lower Upper

43 100

70 41.8 33.4 50.0

55 23.7 18.8 28.2

61 24.2 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

12.06

200000

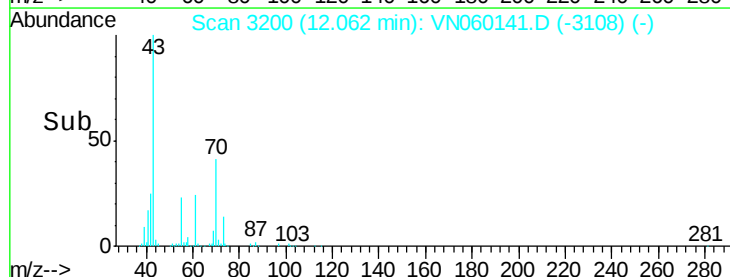
150000

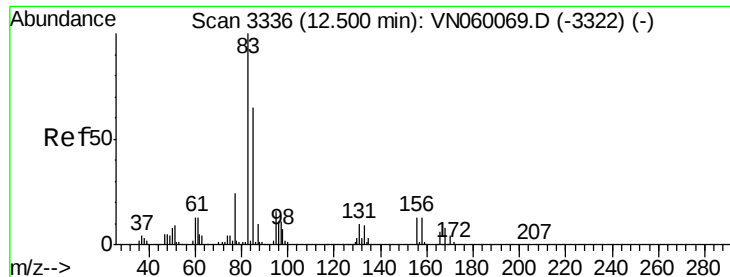
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 48.718 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

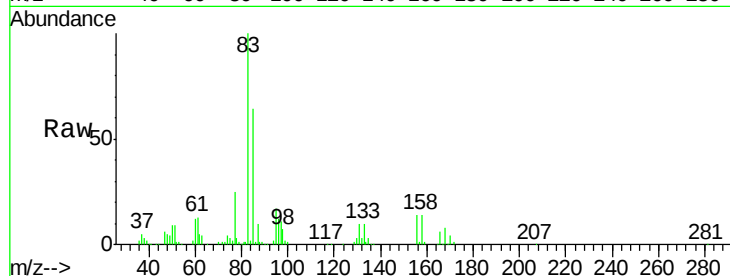
ClientSampleId :

VSTDCCC050EC

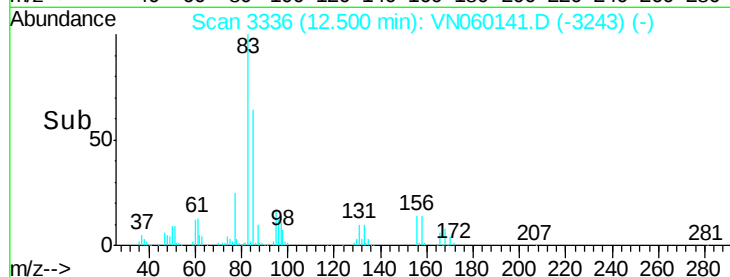
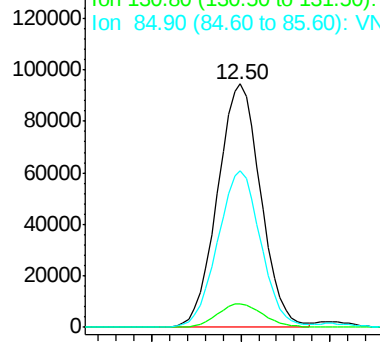
Tot Ion:	83	Resp:	159615
Ion Ratio	Lower	Upper	
83	100		
131	10.2	5.2	15.6
85	64.2	32.3	96.9

Manual Integrations
APPROVED

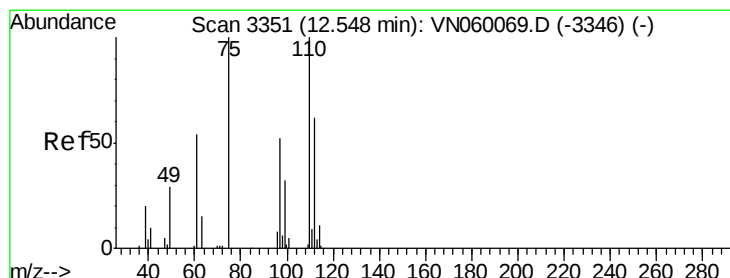
MMDadoda
2/19/2020 5:06:21 PM



Abundance Ion 82.90 (82.60 to 83.60): VN060141.D (-3243) (-)



Time-->



#76

1,2,3-Trichloropropane

Concen: 49.130 ug/l m

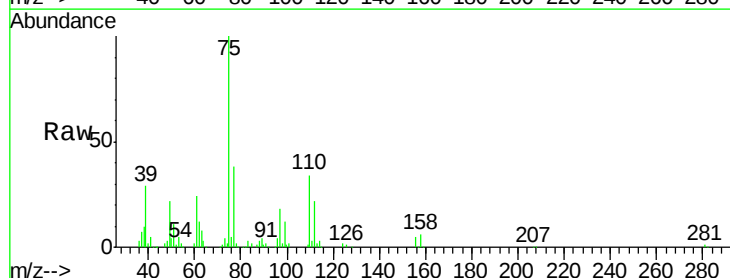
RT: 12.55 min Scan# 3351

Delta R.T. -0.00 min

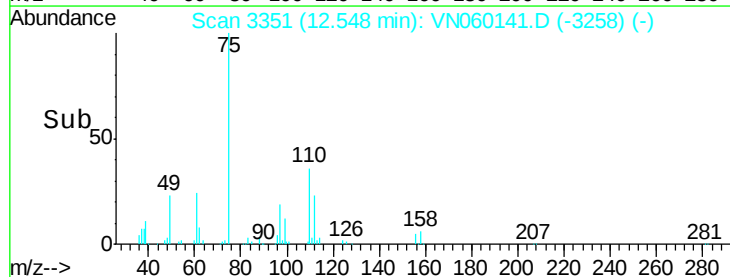
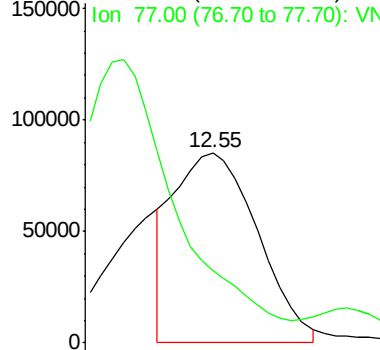
Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

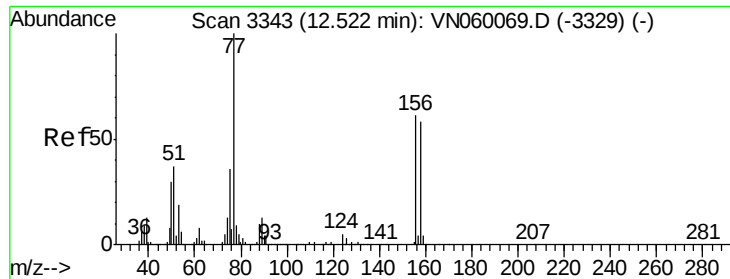
Tgt Ion:	75	Resp:	143277
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN060141.D (-3258) (-)



Time-->



#77

Bromobenzene

Concen: 46.993 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

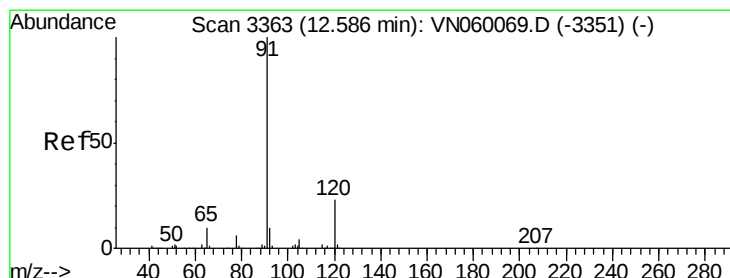
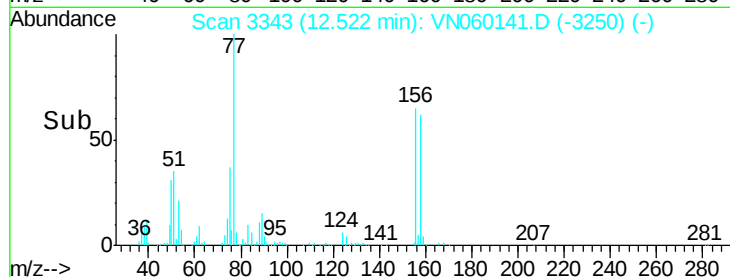
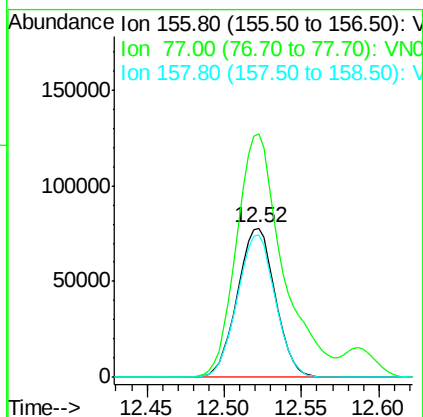
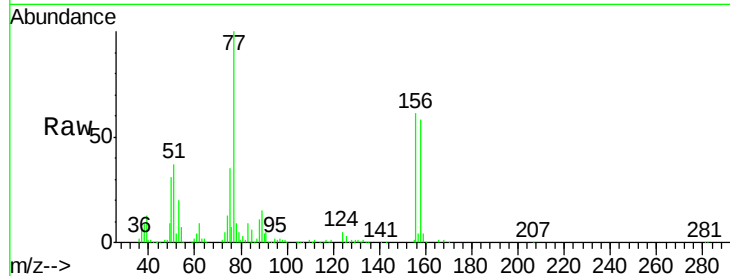
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	132745
Ion Ratio	Lower	Upper	
156	100		
77	198.9	98.7	296.1
158	96.1	48.1	144.4

Manual Integrations
APPROVED

MMDadoda
2/19/2020 5:06:21 PM



#78

n-propylbenzene

Concen: 46.688 ug/l

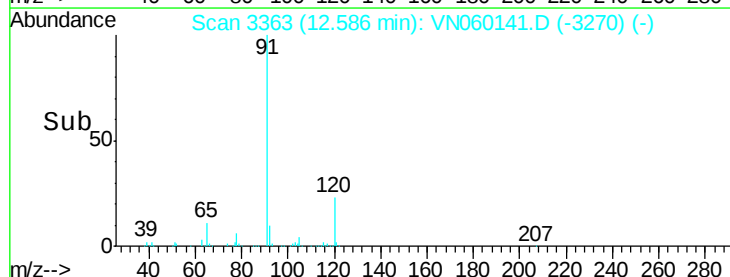
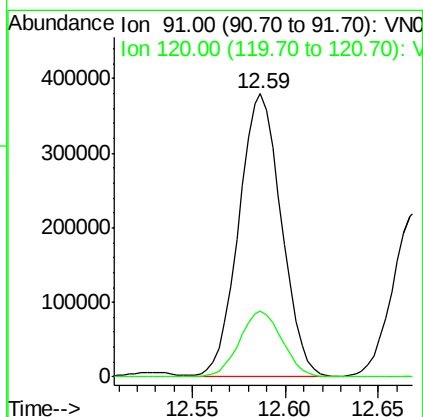
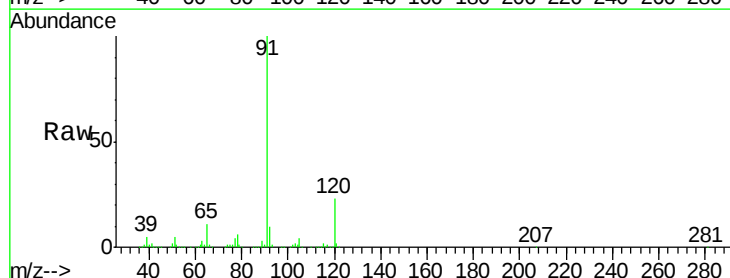
RT: 12.59 min Scan# 3363

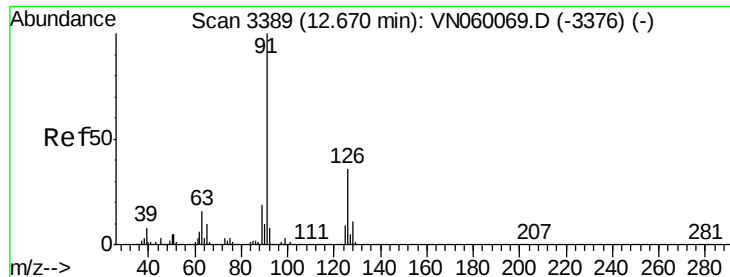
Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Tgt Ion:	91	Resp:	605476
Ion Ratio	Lower	Upper	
91	100		
120	23.0	11.5	34.5





#79

2-Chlorotoluene

Concen: 47.188 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 359696

Ion Ratio Lower Upper

91 100

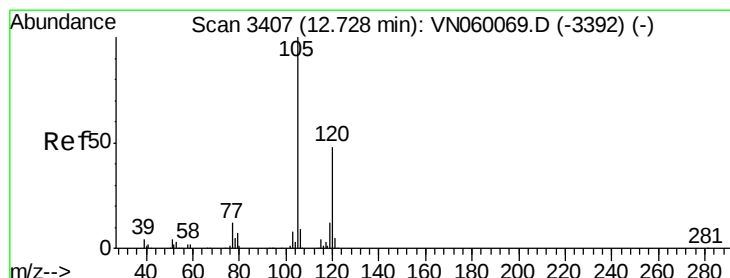
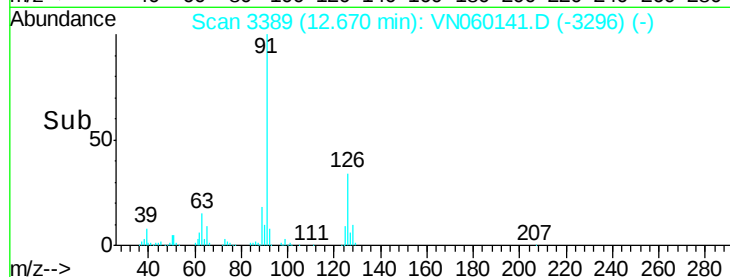
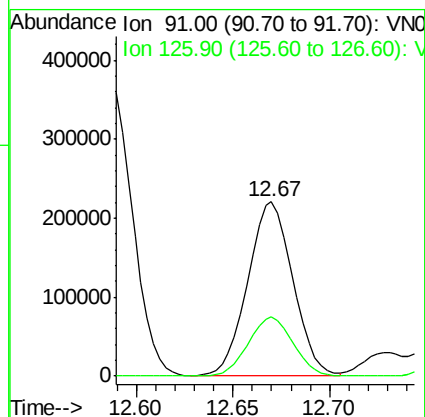
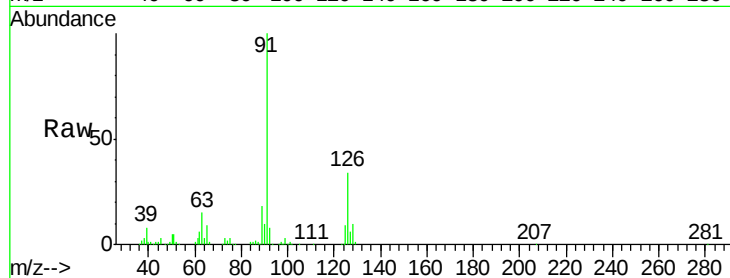
126 33.8 17.4 52.2

Manual Integrations

APPROVED

MMDadoda

2/19/2020 5:06:21 PM



#80

1,3,5-Trimethylbenzene

Concen: 47.151 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060141.D

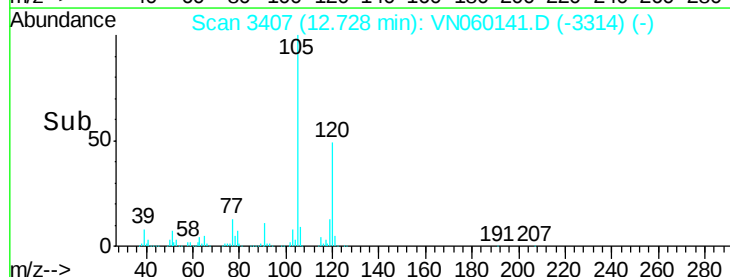
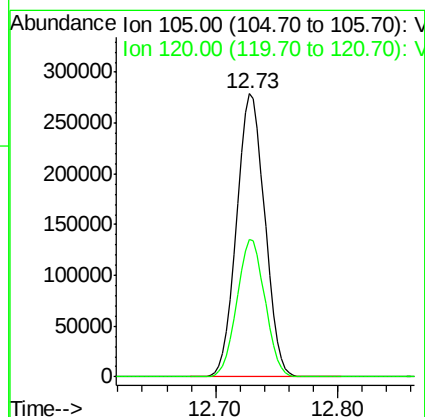
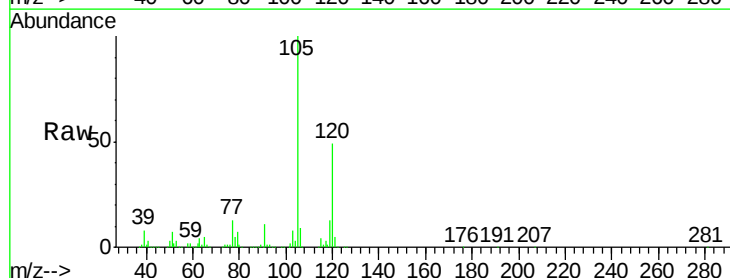
Acq: 18 Feb 2020 17:49

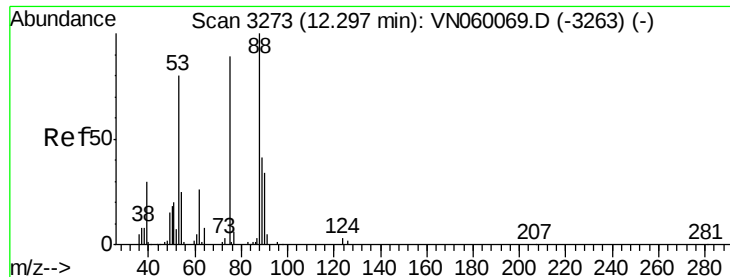
Tgt Ion: 105 Resp: 446246

Ion Ratio Lower Upper

105 100

120 48.4 24.3 72.9





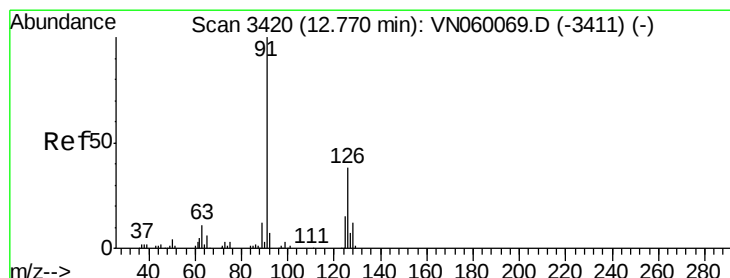
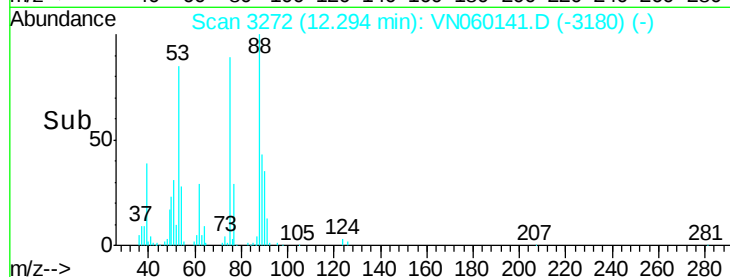
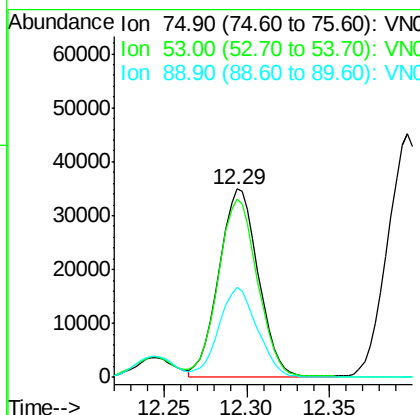
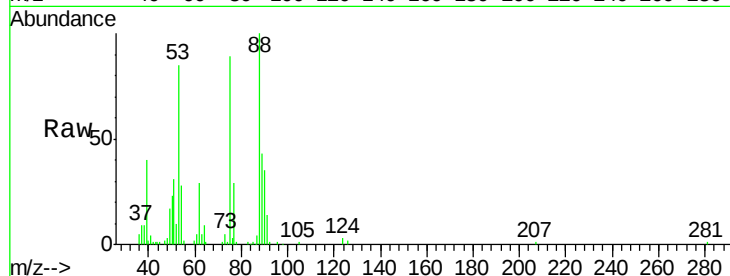
#81
trans-1,4-Dichloro-2-butene
Concen: 48.674 ug/l
RT: 12.29 min Scan# 3272
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	93.6	73.9	110.9
89	46.6	37.0	55.4

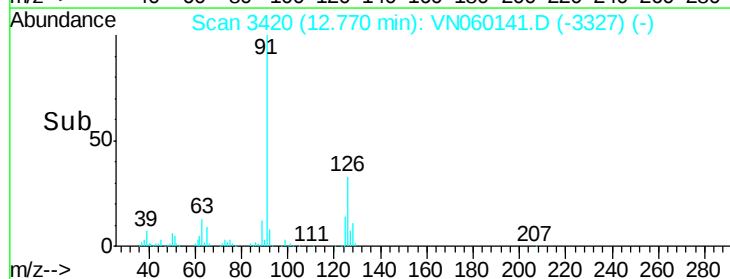
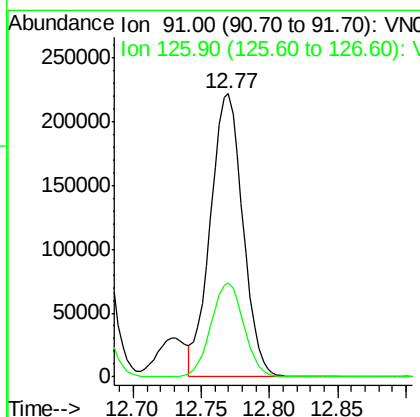
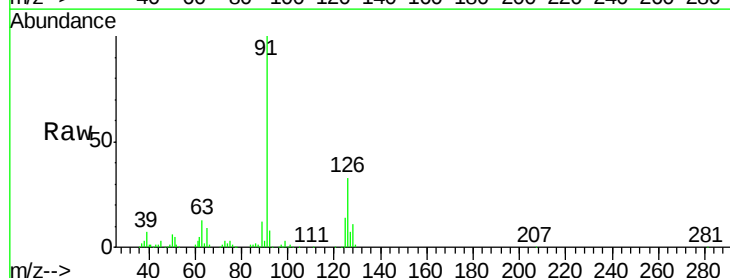
Manual Integrations
APPROVED

MMDadoda
2/19/2020 5:06:21 PM



#82
4-Chlorotoluene
Concen: 46.692 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.6	17.1	51.3





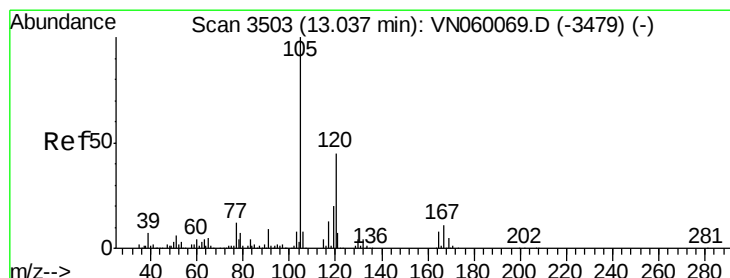
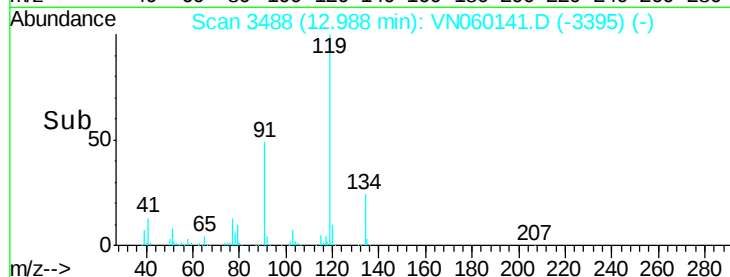
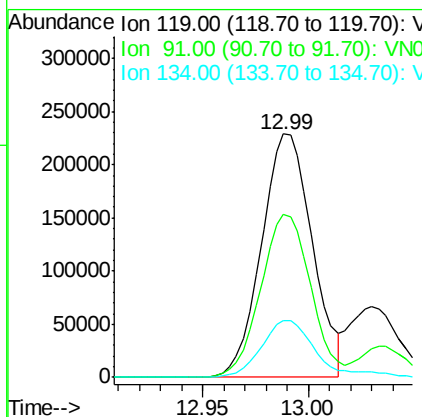
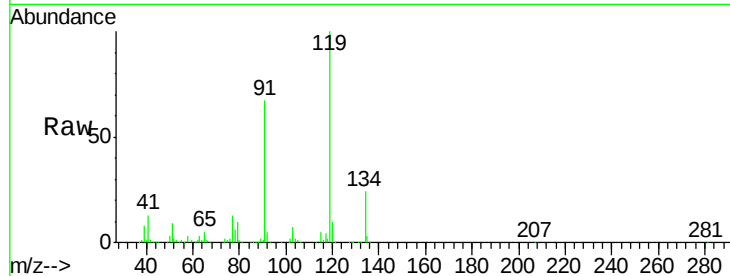
#83
 tert-Butylbenzene
 Concen: 45.858 ug/l
 RT: 12.99 min Scan# 3488
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.8	32.7	98.1
134	25.2	12.9	38.7

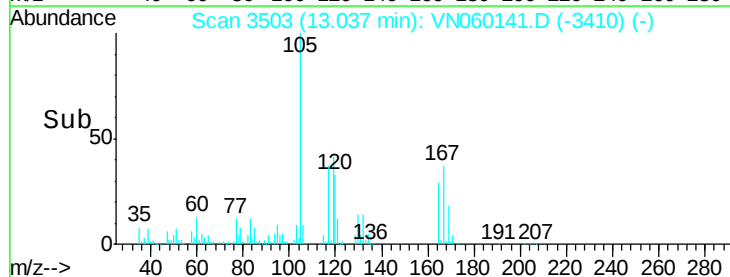
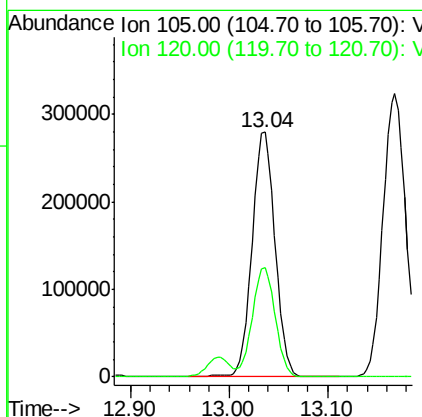
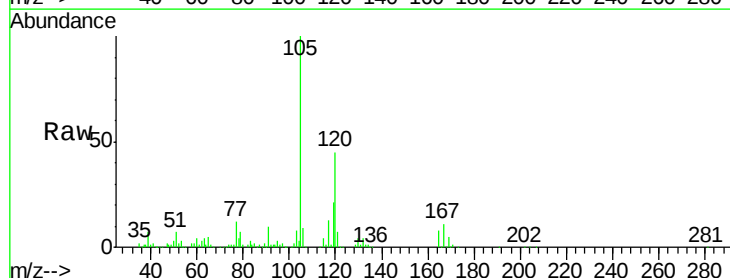
Manual Integrations
 APPROVED

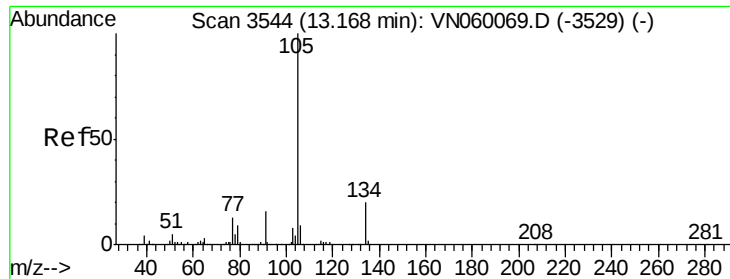
MMDadoda
 2/19/2020 5:06:21 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 47.932 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.5	22.4	67.3





#85

sec-Butylbenzene

Concen: 46.721 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Instrument :

MSVOA_N

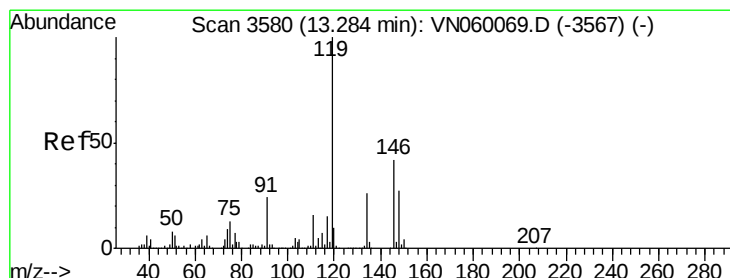
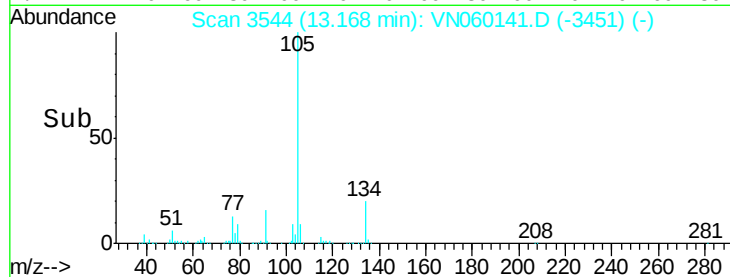
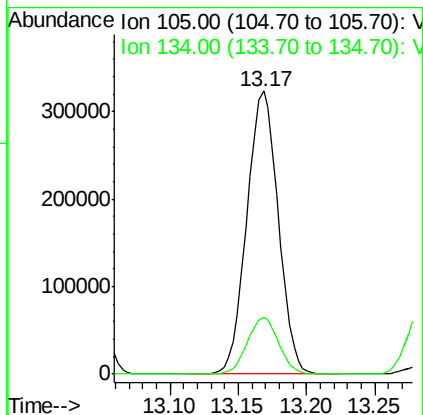
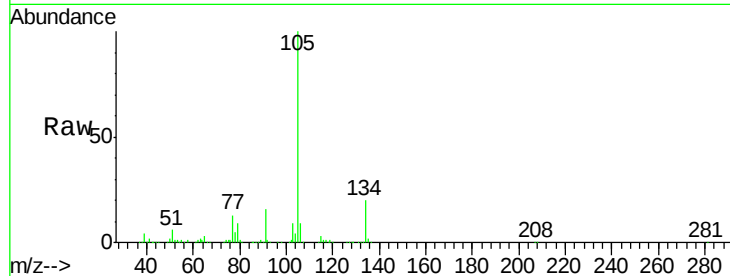
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
105	100	518025		
134	19.8	9.9	29.7	

Manual Integrations
APPROVED

MMDadoda
2/19/2020 5:06:21 PM



#86

p-Isopropyltoluene

Concen: 47.134 ug/l

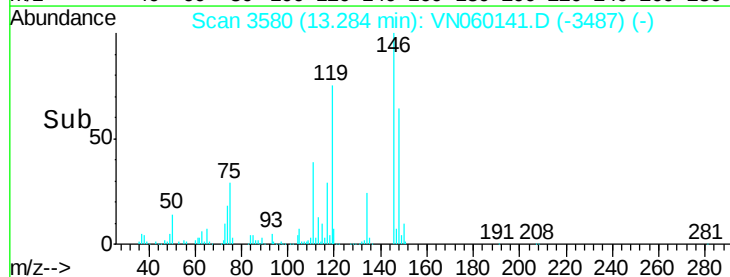
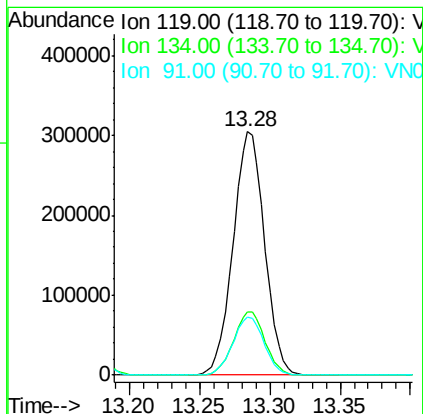
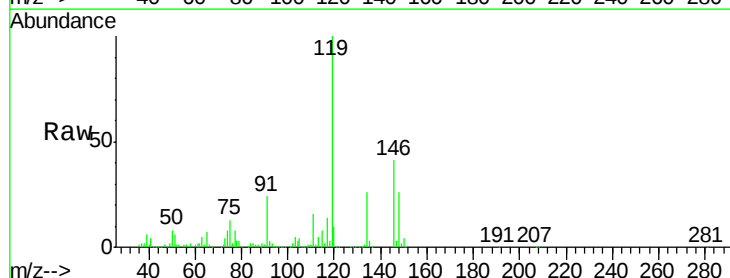
RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN060141.D

Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	473495		
134	26.2	13.3	39.8	
91	24.0	11.9	35.9	





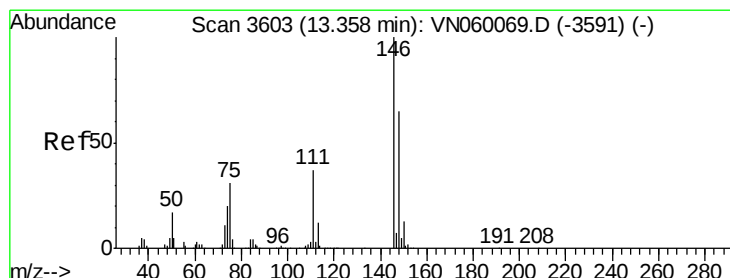
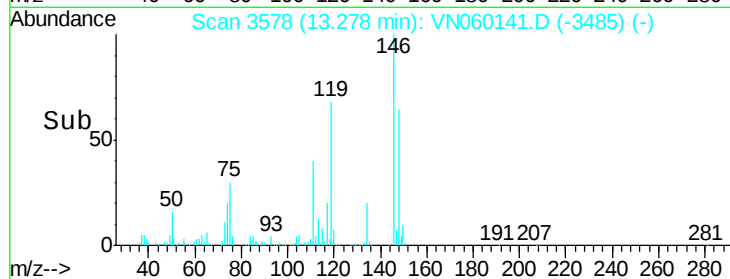
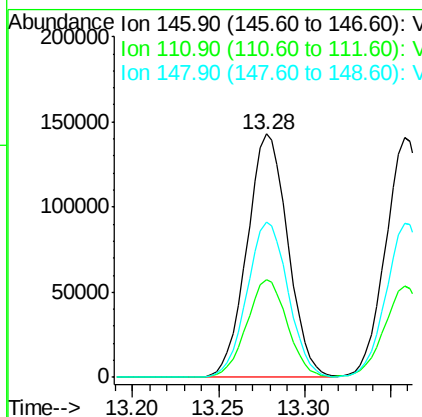
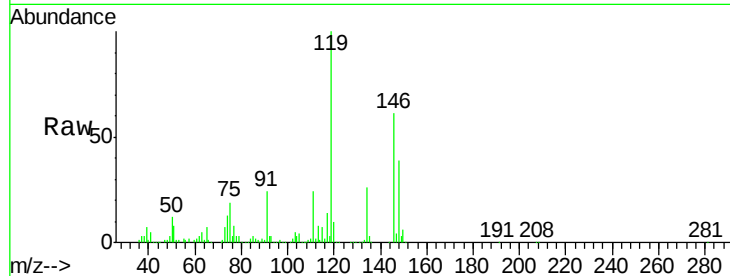
#87
 1,3-Dichlorobenzene
 Concen: 47.023 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.8	59.3
148	64.1	32.0	96.2

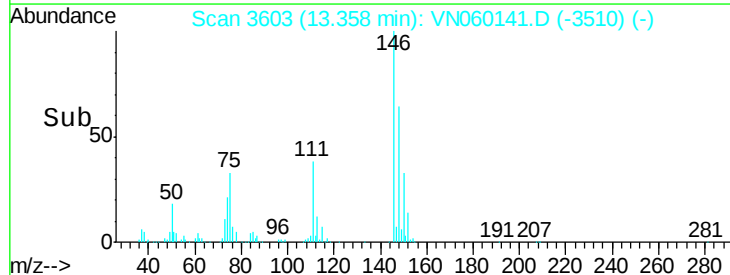
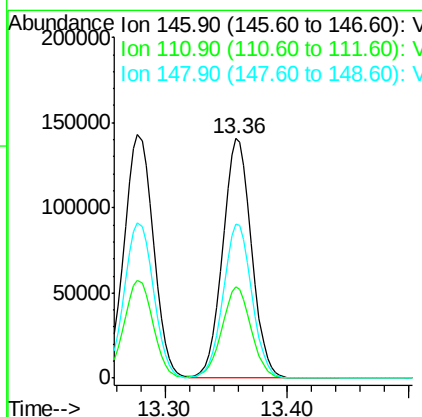
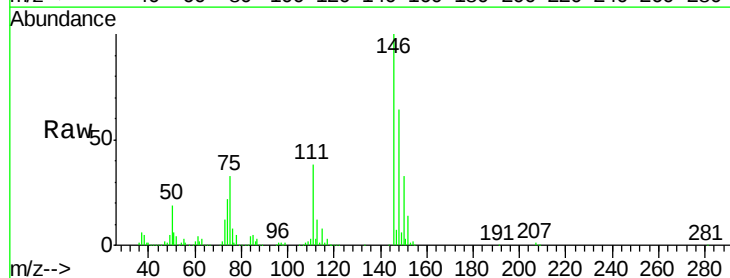
Manual Integrations
 APPROVED

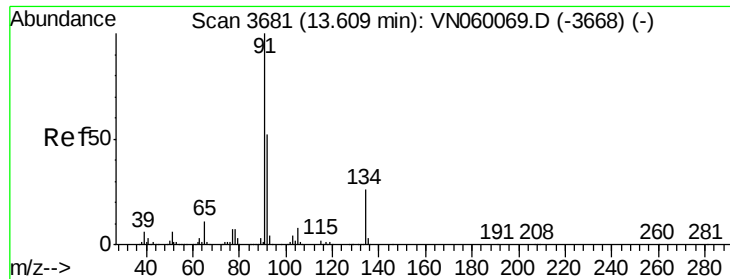
MMDadoda
 2/19/2020 5:06:21 PM



#88
 1,4-Dichlorobenzene
 Concen: 46.649 ug/l
 RT: 13.36 min Scan# 3603
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	18.9	56.5
148	64.1	32.0	96.0





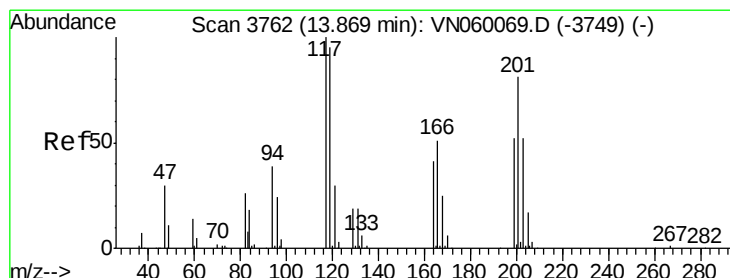
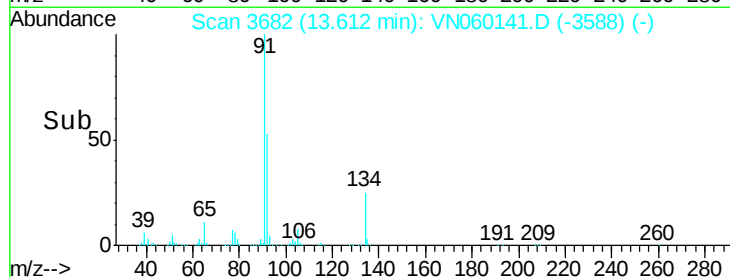
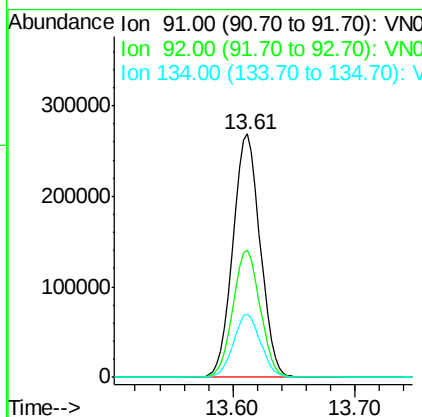
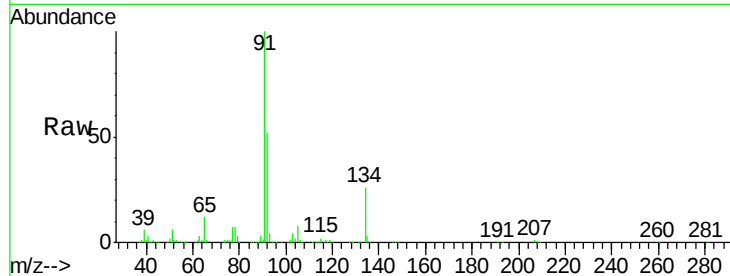
#89
n-Butylbenzene
Concen: 47.416 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.1	78.2
134	25.9	13.1	39.3

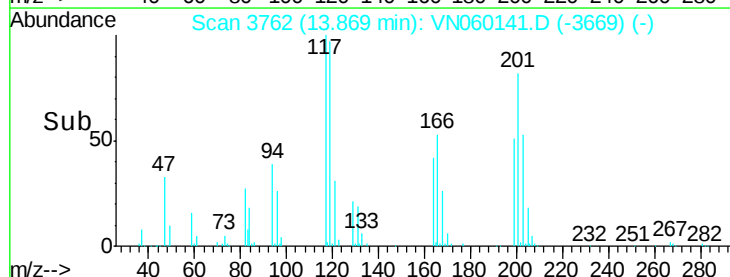
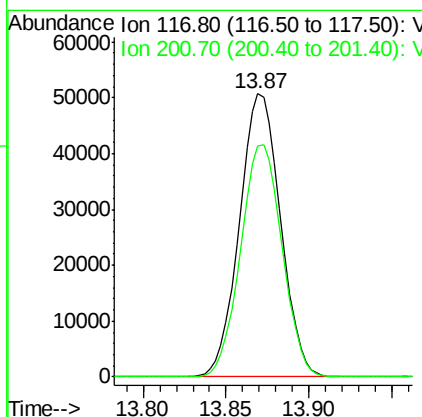
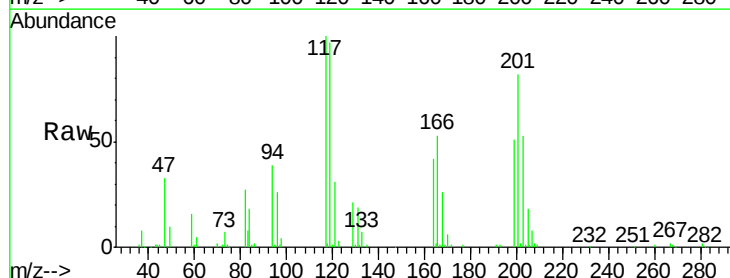
Manual Integrations
APPROVED

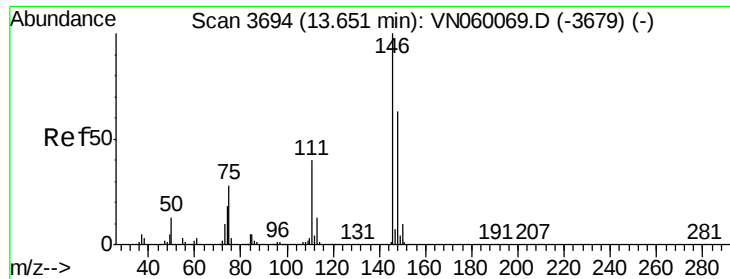
MMDadoda
2/19/2020 5:06:21 PM



#90
Hexachloroethane
Concen: 46.430 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.7	41.7	125.1





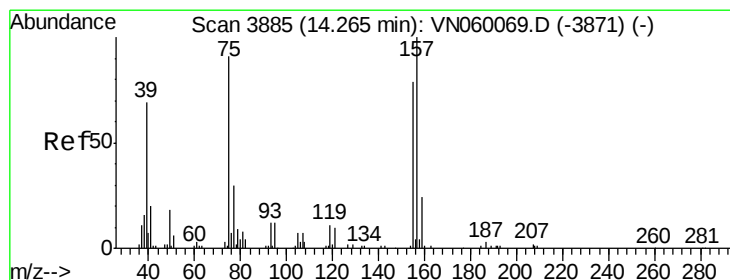
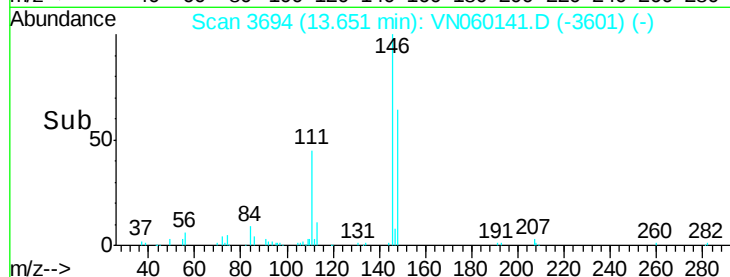
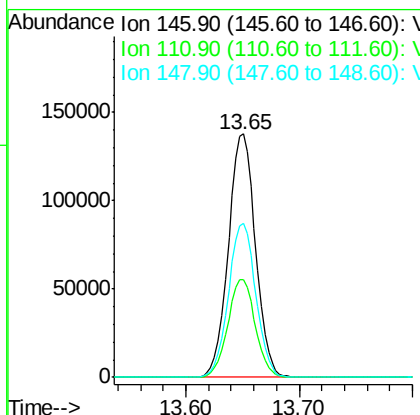
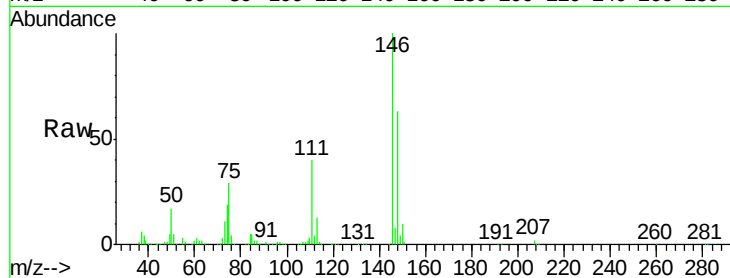
#91
 1,2-Dichlorobenzene
 Concen: 46.931 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
146	100	229656		
111	40.6		20.1	60.2
148	63.7		31.9	95.5

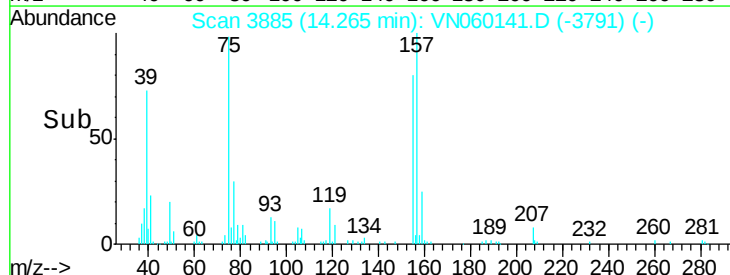
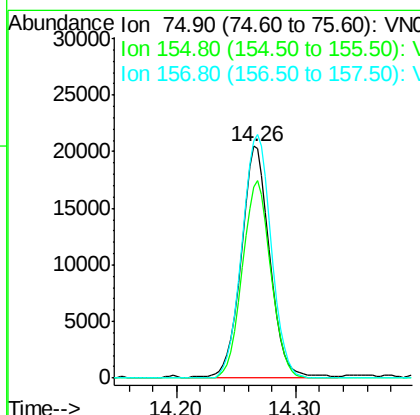
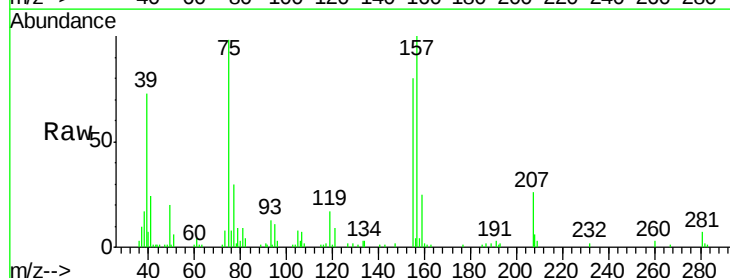
Manual Integrations
 APPROVED

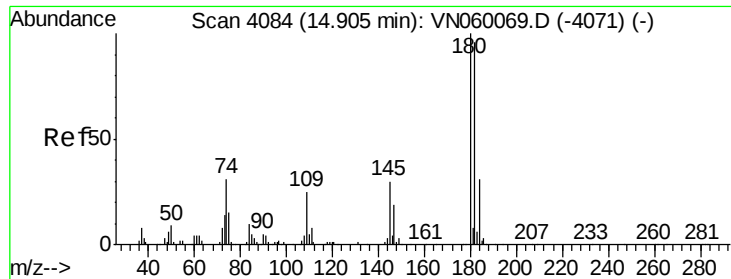
MMDadoda
 2/19/2020 5:06:21 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 49.208 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	34288		
155	83.8		43.0	129.0
157	106.3		54.9	164.5





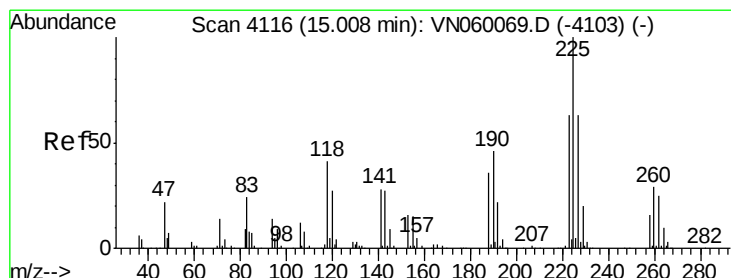
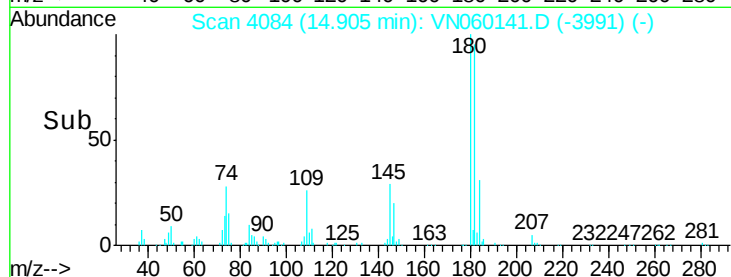
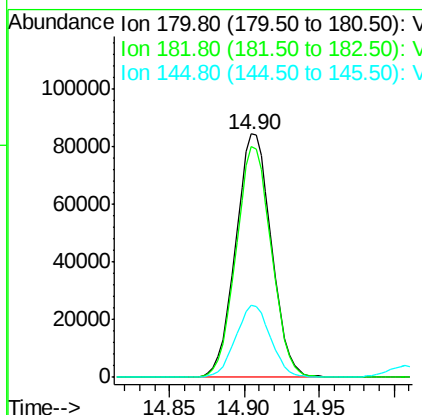
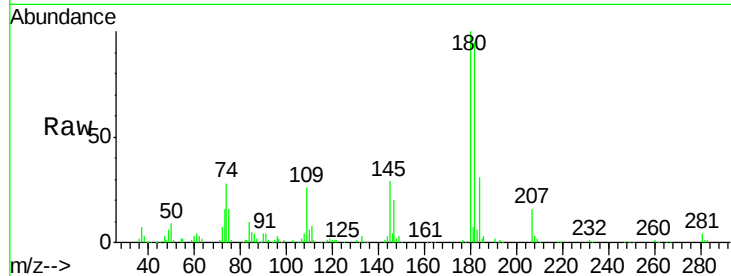
#93
 1,2,4-Trichlorobenzene
 Concen: 48.599 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	139735		
182	93.9	47.9	143.8	
145	29.2	15.2	45.5	

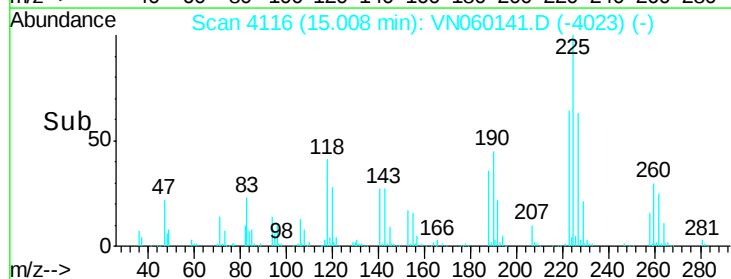
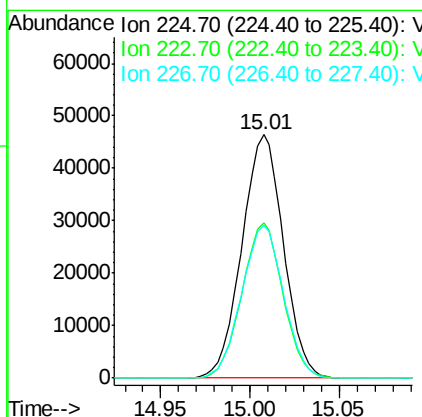
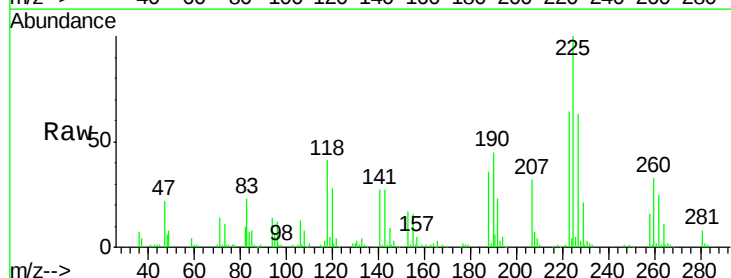
Manual Integrations
 APPROVED

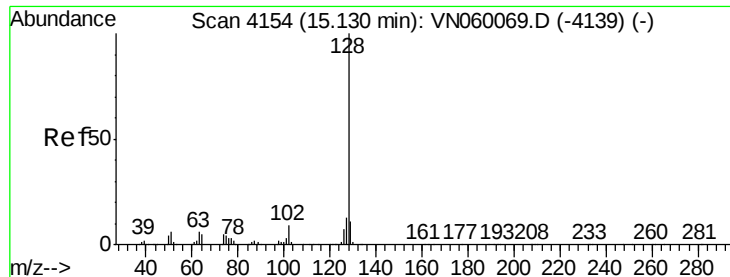
MMDadoda
 2/19/2020 5:06:21 PM



#94
 Hexachlorobutadiene
 Concen: 44.892 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN060141.D
 Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	75565		
223	62.9	31.5	94.5	
227	63.2	31.8	95.4	





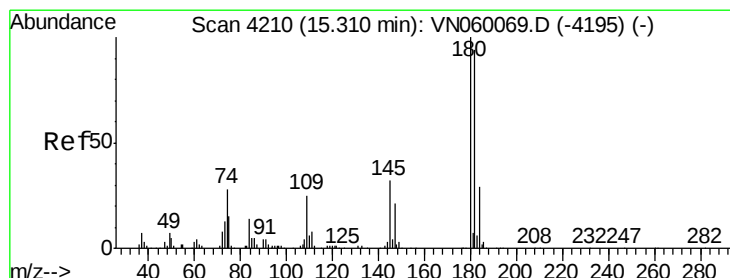
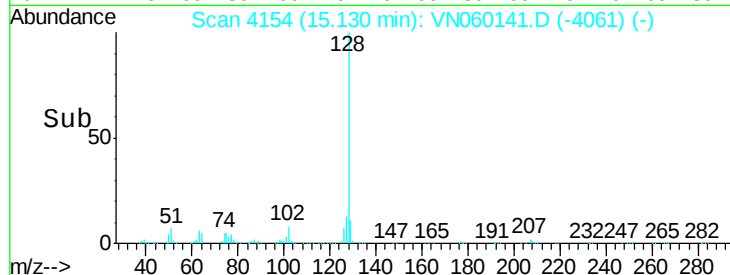
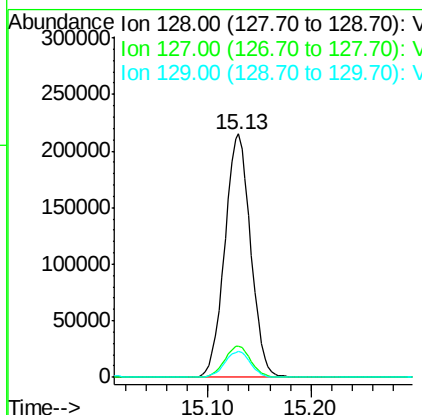
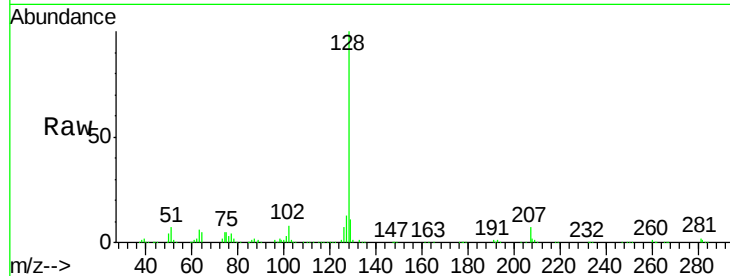
#95
Naphthalene
Concen: 48.341 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
128	100	375456		
127	12.8	10.3	15.5	
129	10.7	8.6	13.0	

Manual Integrations
APPROVED

MMDadoda
2/19/2020 5:06:21 PM



#96
1,2,3-Trichlorobenzene
Concen: 46.584 ug/l
RT: 15.31 min Scan# 4210
Delta R.T. -0.00 min
Lab File: VN060141.D
Acq: 18 Feb 2020 17:49

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	133384		
182	95.4	47.5	142.5	
145	31.8	16.1	48.3	

