

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030320\
 Data File : VN060316.D
 Acq On : 3 Mar 2020 9:32
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/4/2020 10:43:55 AM

Quant Time: Mar 04 01:24:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	212865	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	345051	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	322511	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	159577	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	135453	49.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.20%	
35) Dibromofluoromethane	7.56	113	82567	51.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.10%	
50) Toluene-d8	10.08	98	401025	49.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.94%	
62) 4-Bromofluorobenzene	12.40	95	153212	49.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.72%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	95344	48.853	ug/l	100
3) Chloromethane	2.04	50	166714	49.064	ug/l	99
4) Vinyl Chloride	2.16	62	138113	47.395	ug/l	98
5) Bromomethane	2.54	94	49600	41.897	ug/l	98
6) Chloroethane	2.68	64	73843	46.770	ug/l	95
7) Trichlorofluoromethane	3.00	101	179045	48.090	ug/l	98
8) Diethyl Ether	3.38	74	68632	48.823	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	104175	49.440	ug/l	99
10) Methyl Iodide	3.93	142	93668	48.708	ug/l	100
11) Tert butyl alcohol	4.72	59	103002	253.993	ug/l	100
12) 1,1-Dichloroethene	3.71	96	102274	50.011	ug/l	98
13) Acrolein	3.57	56	98444	260.211	ug/l	99
14) Allyl chloride	4.29	41	174751	46.345	ug/l	90
15) Acrylonitrile	4.94	53	278011	260.090	ug/l	99
16) Acetone	3.78	43	213618	242.211	ug/l	98
17) Carbon Disulfide	4.03	76	267325	49.248	ug/l	99
18) Methyl Acetate	4.28	43	140395	47.701	ug/l	99
19) Methyl tert-butyl Ether	5.00	73	375707	50.601	ug/l	98
20) Methylene Chloride	4.52	84	116339	48.032	ug/l	99
21) trans-1,2-Dichloroethene	5.01	96	110576	50.329	ug/l	98
22) Diisopropyl ether	5.91	45	399067	52.249	ug/l	99
23) Vinyl Acetate	5.86	43	1603316	264.173	ug/l	100
24) 1,1-Dichloroethane	5.81	63	220695	51.046	ug/l	100
25) 2-Butanone	6.80	43	379415	266.338	ug/l	100
26) 2,2-Dichloropropane	6.80	77	202753	51.513	ug/l	100
27) cis-1,2-Dichloroethene	6.80	96	132724	47.257	ug/l	98
28) Bromochloromethane	7.17	49	87455	49.267	ug/l	97
29) Tetrahydrofuran	7.18	42	253878	256.285	ug/l	100
30) Chloroform	7.35	83	220870	51.318	ug/l	99
31) Cyclohexane	7.63	56	193902	52.626	ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	195353	51.229	ug/l	100
36) 1,1-Dichloropropene	7.77	75	163290	49.655	ug/l	99
37) Ethyl Acetate	6.89	43	163837	52.616	ug/l	100
38) Carbon Tetrachloride	7.75	117	162726	50.824	ug/l	99

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MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.06	83	196756	50.745	ug/l	98
40) Benzene	8.02	78	486569	50.836	ug/l	100
41) Methacrylonitrile	7.14	41	73653m	51.228	ug/l	
42) 1,2-Dichloroethane	8.10	62	178197	51.593	ug/l	100
43) Isopropyl Acetate	8.14	43	290742	53.335	ug/l	99
44) Trichloroethene	8.82	130	132030	49.529	ug/l	98
45) 1,2-Dichloropropane	9.10	63	134376	53.697	ug/l	99
46) Dibromomethane	9.19	93	83246	51.267	ug/l	99
47) Bromodichloromethane	9.38	83	178363	54.009	ug/l	98
48) Methyl methacrylate	9.18	41	129792	52.213	ug/l	98
49) 1,4-Dioxane	9.18	88	36636	1048.011	ug/l	99
51) 4-Methyl-2-Pentanone	9.97	43	841102	272.134	ug/l	99
52) Toluene	10.14	92	307346	51.119	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	208328	51.482	ug/l	100
54) cis-1,3-Dichloropropene	9.82	75	216715	51.683	ug/l	100
55) 1,1,2-Trichloroethane	10.55	97	120785	49.956	ug/l	98
56) Ethyl methacrylate	10.42	69	189546	54.568	ug/l	98
57) 1,3-Dichloropropane	10.70	76	206628	52.403	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.68	63	458657	252.464	ug/l	99
59) 2-Hexanone	10.74	43	623535	274.768	ug/l	99
60) Dibromochloromethane	10.89	129	132126	53.735	ug/l	99
61) 1,2-Dibromoethane	10.99	107	124911	52.996	ug/l	98
64) Tetrachloroethene	10.62	164	138186	54.548	ug/l	99
65) Chlorobenzene	11.43	112	326663	50.161	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.50	131	125573	52.150	ug/l	100
67) Ethyl Benzene	11.50	91	607238	51.203	ug/l	100
68) m/p-Xylenes	11.62	106	454443	101.563	ug/l	100
69) o-Xylene	11.94	106	219550	51.455	ug/l	100
70) Styrene	11.96	104	367511	52.388	ug/l	100
71) Bromoform	12.12	173	96178	55.422	ug/l #	100
73) Isopropylbenzene	12.25	105	598457	50.598	ug/l	99
74) N-amyl acetate	12.06	43	266381	51.540	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	168229	52.325	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	161470m	46.119	ug/l	
77) Bromobenzene	12.52	156	144441	49.820	ug/l	99
78) n-propylbenzene	12.59	91	707884	51.058	ug/l	99
79) 2-Chlorotoluene	12.67	91	410659	50.390	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	506716	50.884	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.29	75	68079	53.677	ug/l #	88
82) 4-Chlorotoluene	12.77	91	430013	50.081	ug/l	99
83) tert-Butylbenzene	12.99	119	439947	51.026	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	514834	51.220	ug/l	100
85) sec-Butylbenzene	13.17	105	593964	51.444	ug/l	99
86) p-Isopropyltoluene	13.28	119	538377	50.380	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	263462	52.895	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	263529	53.221	ug/l	99
89) n-Butylbenzene	13.61	91	500201	50.990	ug/l	100
90) Hexachloroethane	13.87	117	81306	52.564	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	253645	49.928	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	35877	49.277	ug/l	98

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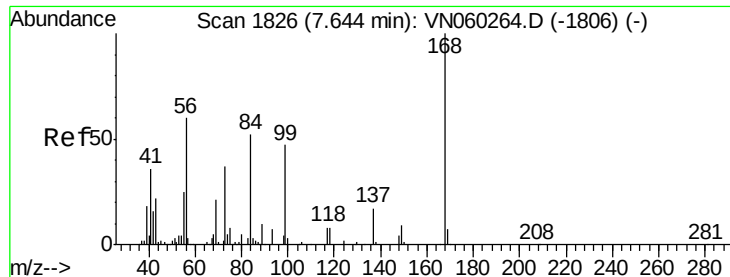
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	167373	51.846	ug/l	100
94) Hexachlorobutadiene	15.01	225	81287	54.835	ug/l	99
95) Naphthalene	15.13	128	481447	50.639	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	158353	52.096	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:168 Resp: 212865

Ion Ratio Lower Upper

168 100

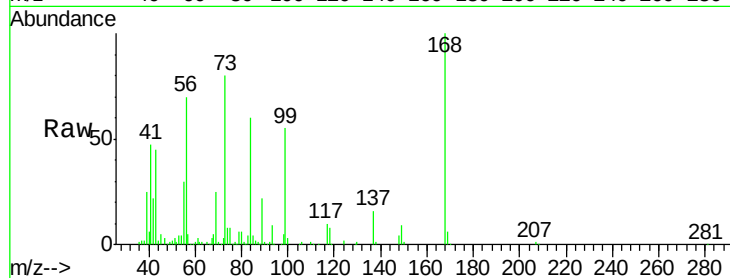
99 55.0 44.7 67.1

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

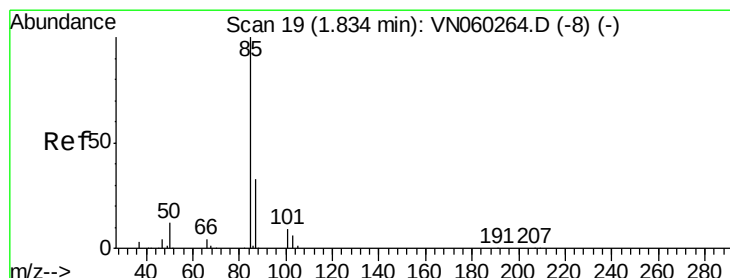
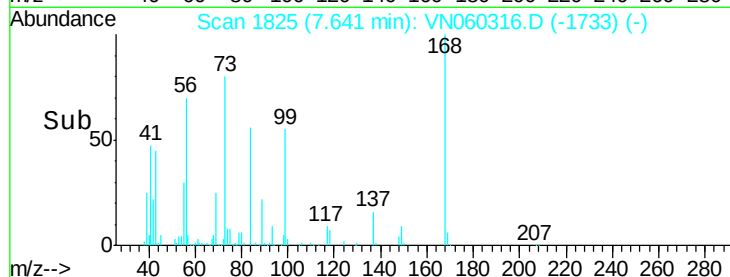
40000

20000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 48.853 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN060316.D

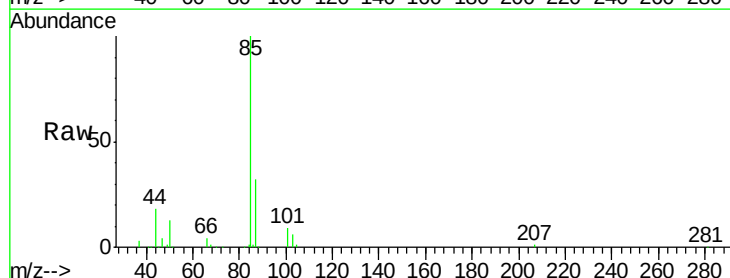
Acq: 3 Mar 2020 9:32

Tgt Ion: 85 Resp: 95344

Ion Ratio Lower Upper

85 100

87 32.4 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

80000

60000

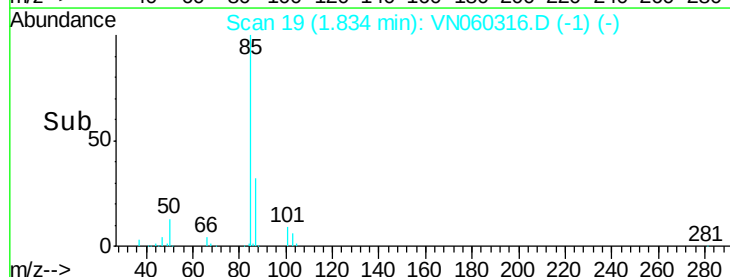
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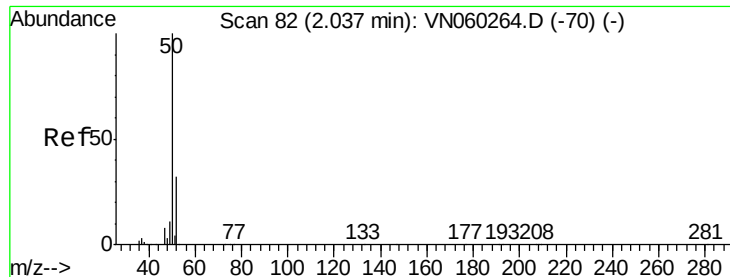
20000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 49.064 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 166714

Ion Ratio Lower Upper

50 100

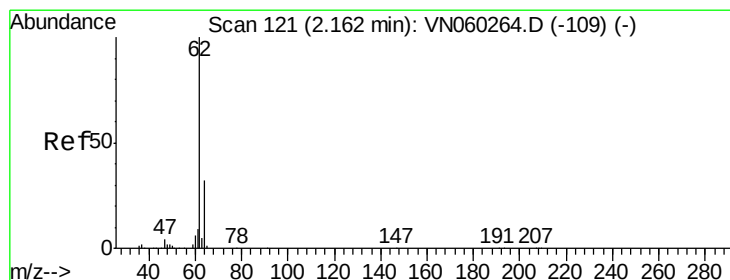
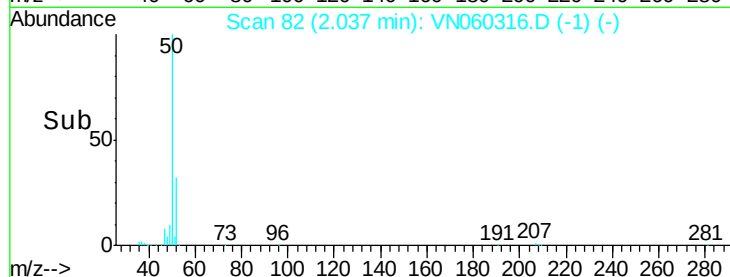
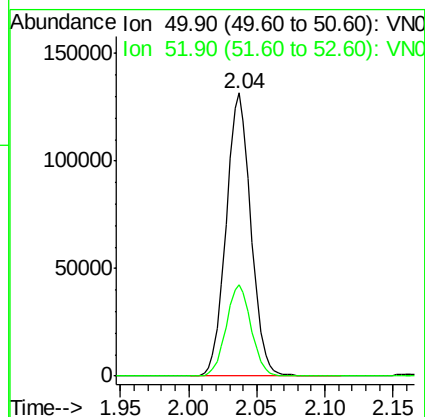
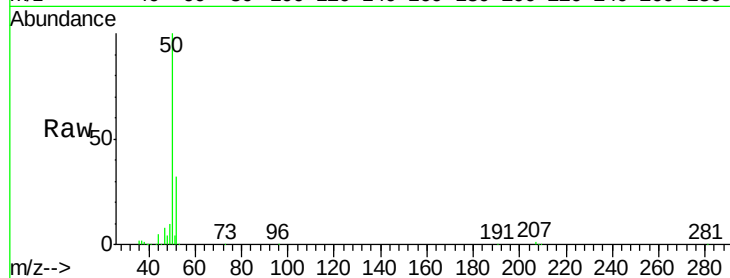
52 32.4 25.6 38.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 47.395 ug/l

RT: 2.16 min Scan# 121

Delta R.T. 0.00 min

Lab File: VN060316.D

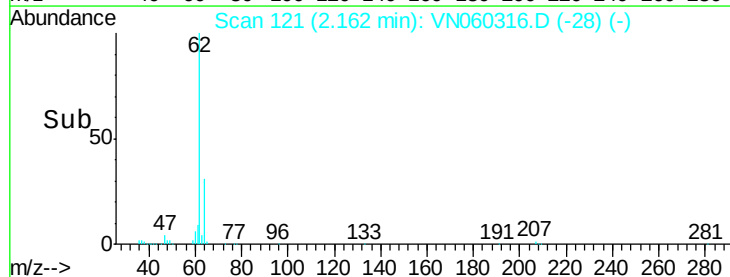
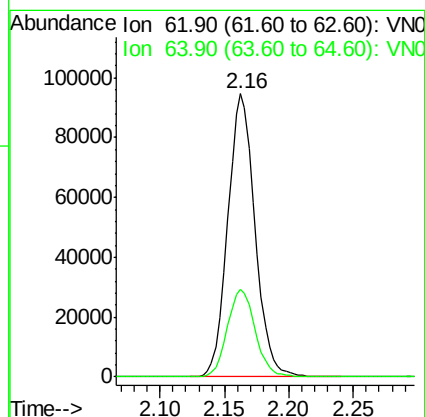
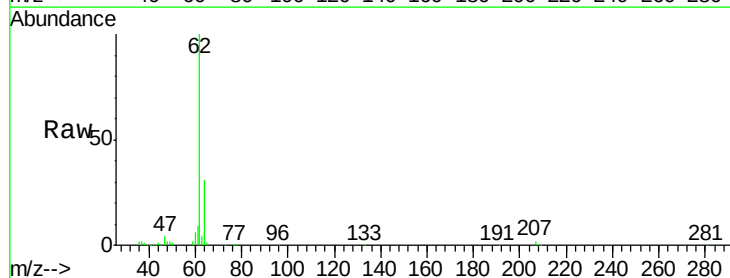
Acq: 3 Mar 2020 9:32

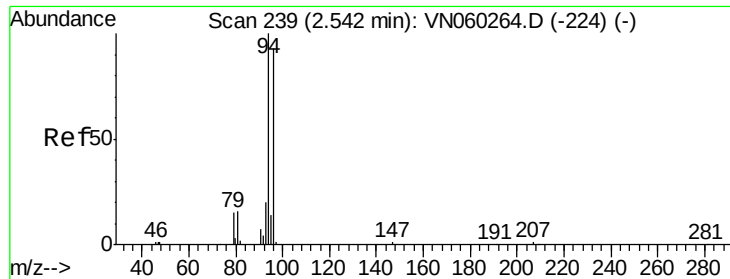
Tgt Ion: 62 Resp: 138113

Ion Ratio Lower Upper

62 100

64 31.0 25.5 38.3





#5

Bromomethane

Concen: 41.897 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 94 Resp: 49600

Ion Ratio Lower Upper

94 100

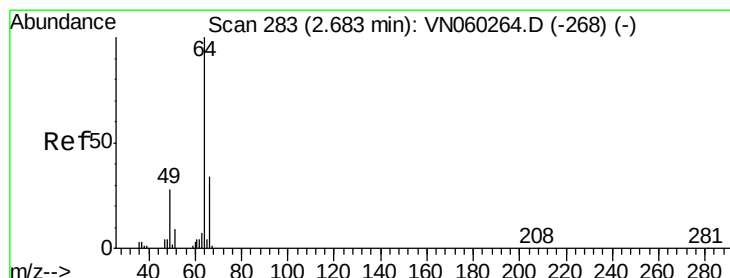
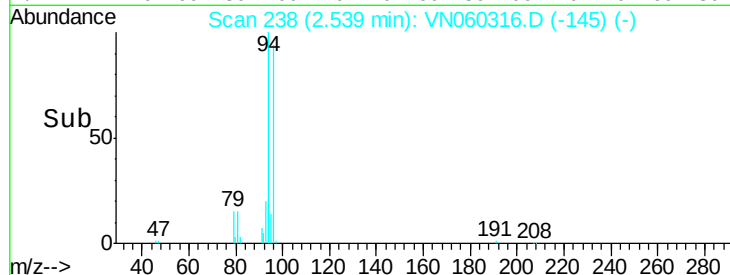
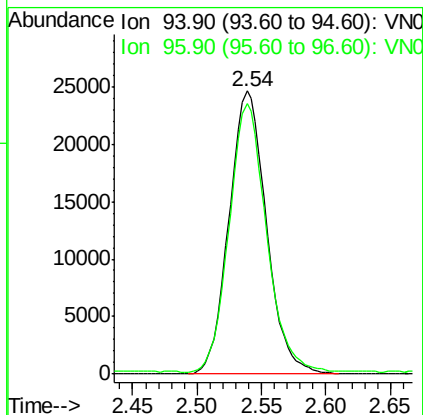
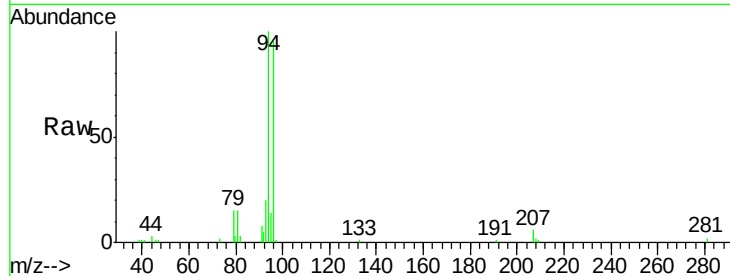
96 94.6 74.3 111.5

Manual Integrations

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3/4/2020 10:43:55 AM



#6

Chloroethane

Concen: 46.770 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN060316.D

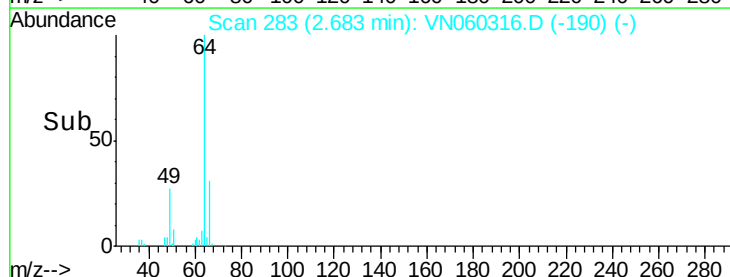
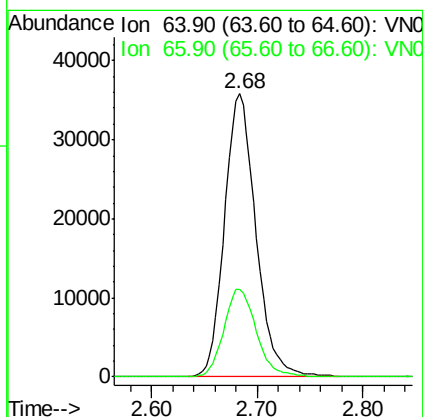
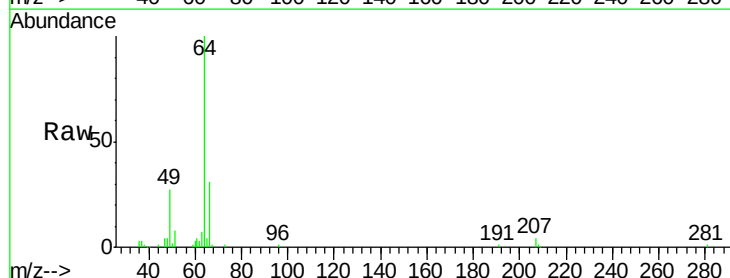
Acq: 3 Mar 2020 9:32

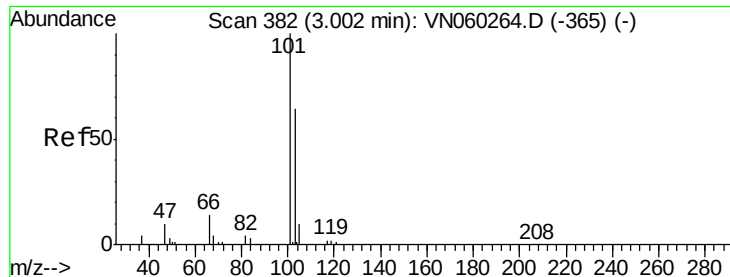
Tgt Ion: 64 Resp: 73843

Ion Ratio Lower Upper

64 100

66 31.2 27.4 41.2





#7

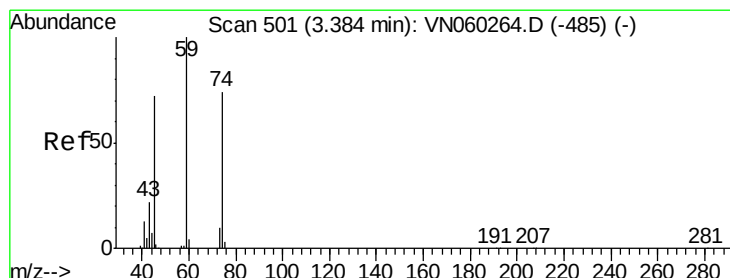
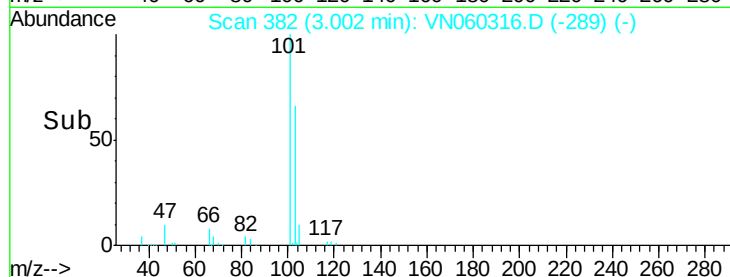
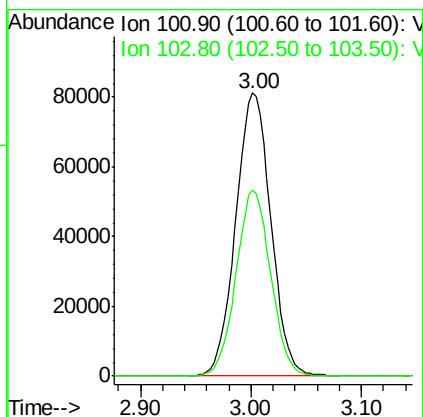
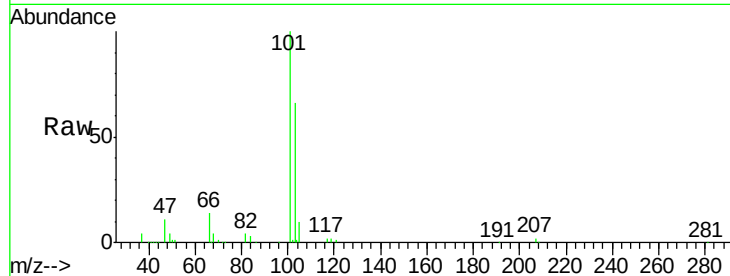
Trichlorofluoromethane
Concen: 48.090 ug/l
RT: 3.00 min Scan# 382
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
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ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.0	51.3	76.9

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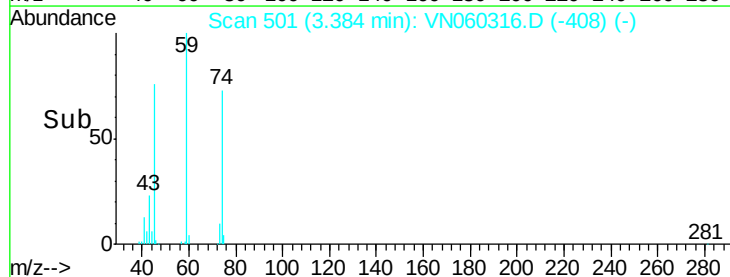
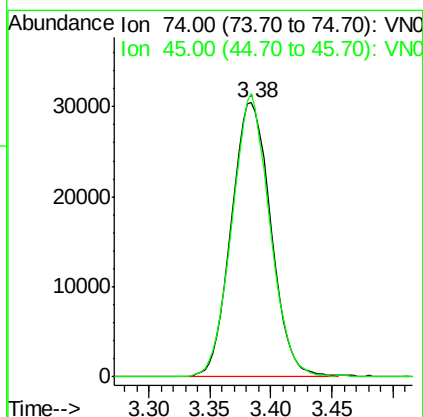
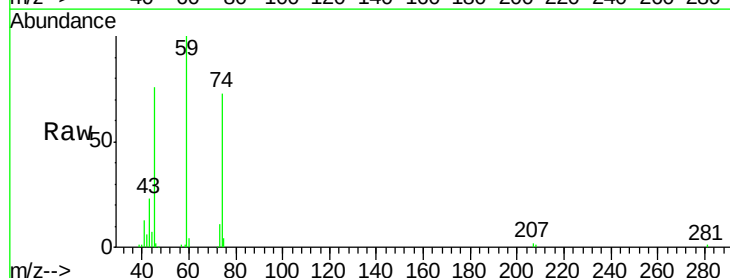
MMDadoda
3/4/2020 10:43:55 AM

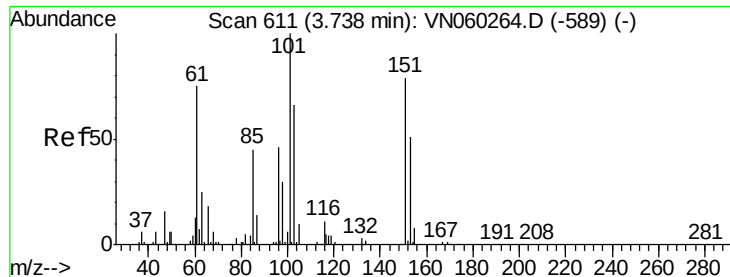


#8

Diethyl Ether
Concen: 48.823 ug/l
RT: 3.38 min Scan# 501
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.3	49.5	148.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.440 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

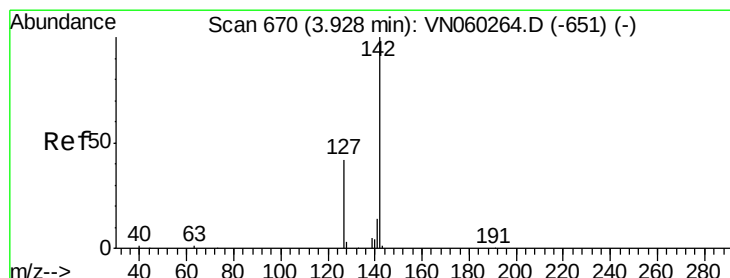
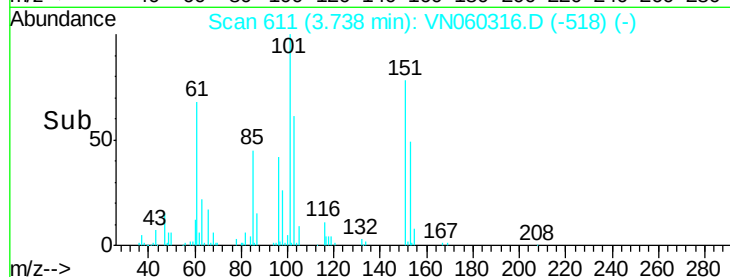
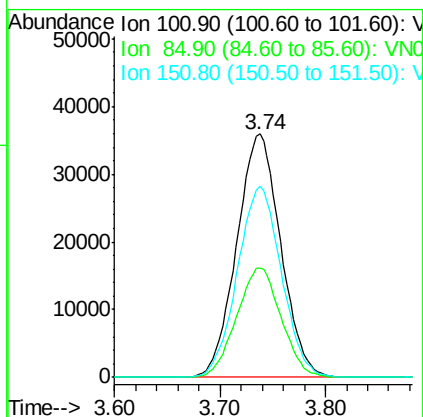
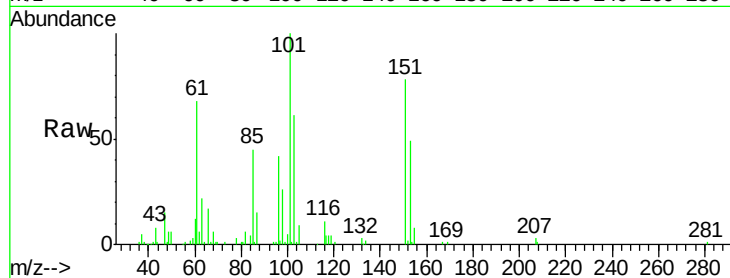
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	104175
Ion Ratio	Lower	Upper	
101	100		
85	45.4	35.4	53.2
151	78.4	62.0	93.0

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#10

Methyl Iodide

Concen: 48.708 ug/l

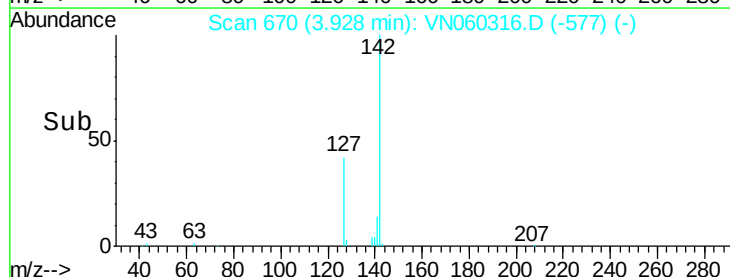
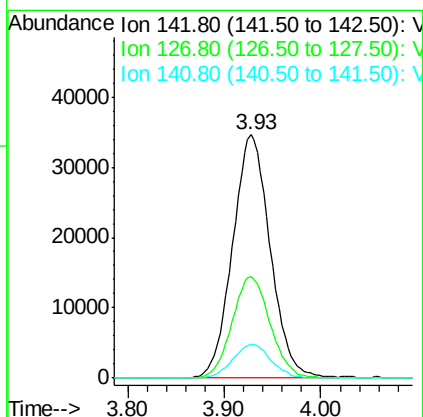
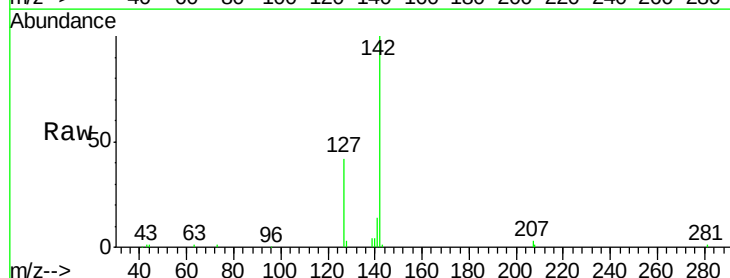
RT: 3.93 min Scan# 670

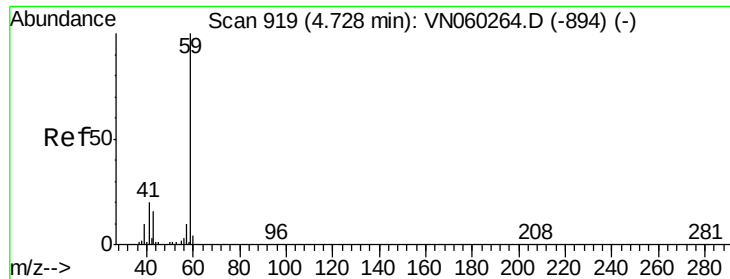
Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Tgt Ion:	142	Resp:	93668
Ion Ratio	Lower	Upper	
142	100		
127	42.1	33.8	50.6
141	14.0	11.1	16.7





#11

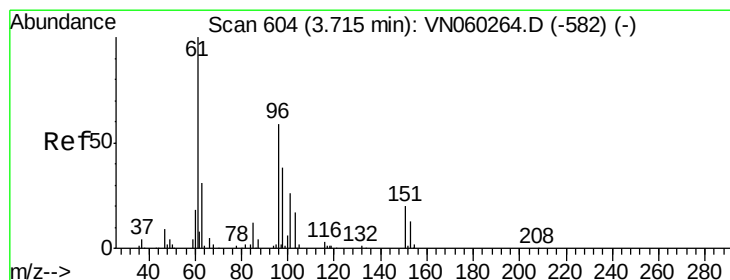
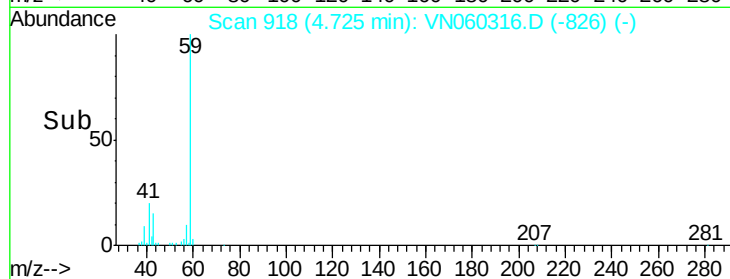
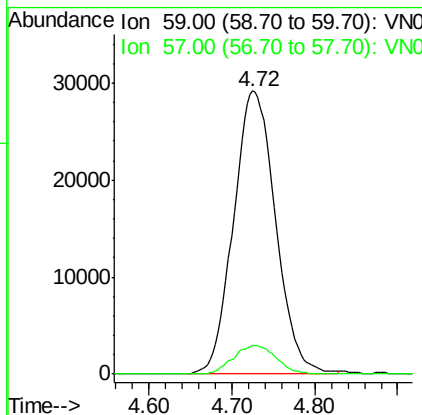
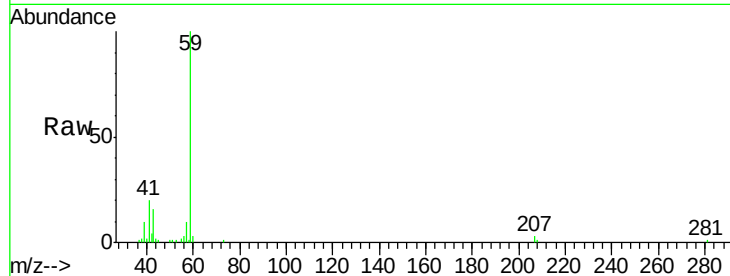
Tert butyl alcohol
 Concen: 253.993 ug/l
 RT: 4.72 min Scan# 918
 Delta R.T. -0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.2	12.2

Manual Integrations
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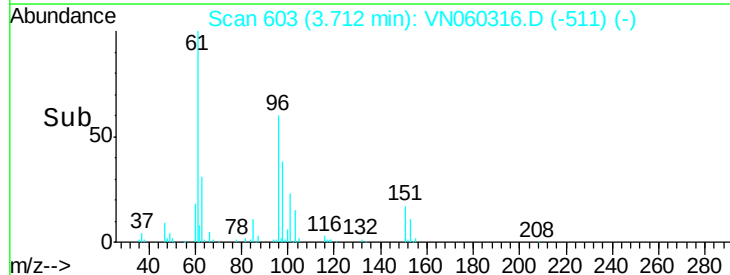
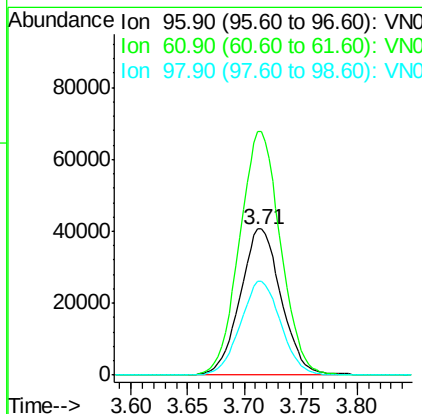
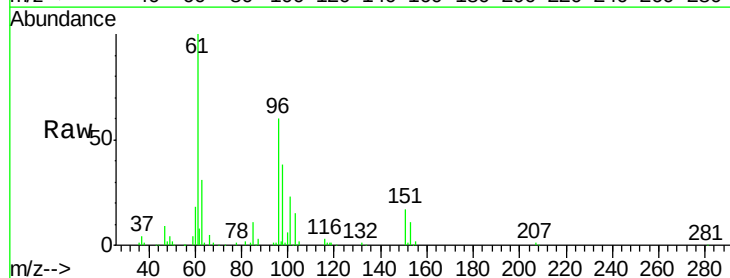
MMDadoda
 3/4/2020 10:43:55 AM

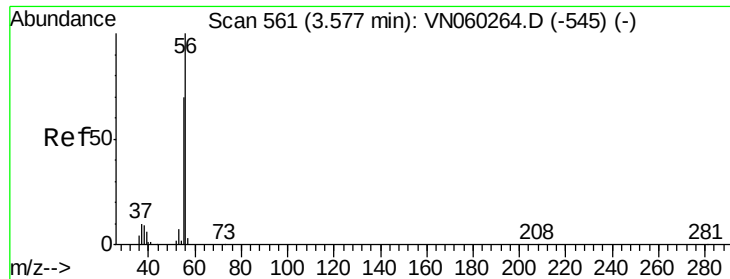


#12

1,1-Dichloroethene
 Concen: 50.011 ug/l
 RT: 3.71 min Scan# 603
 Delta R.T. -0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.4	135.4	203.0
98	63.9	51.6	77.4





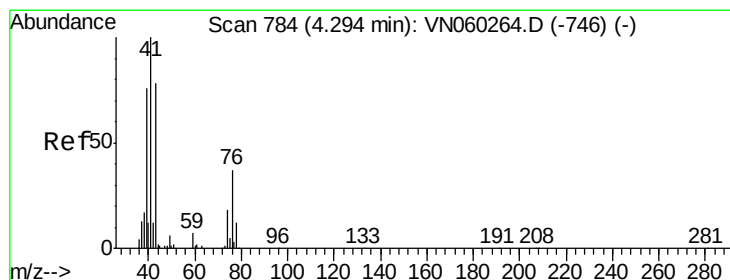
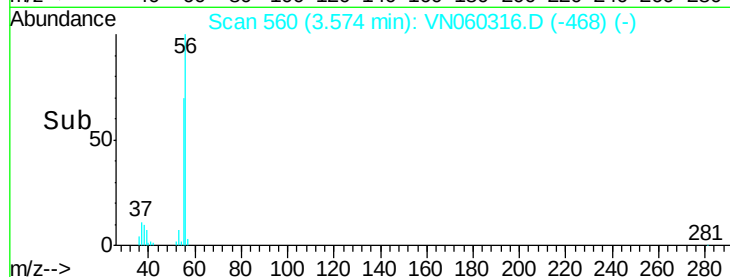
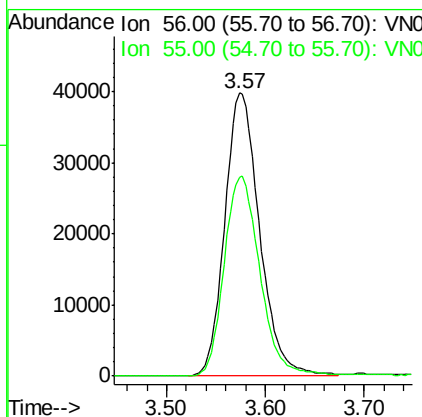
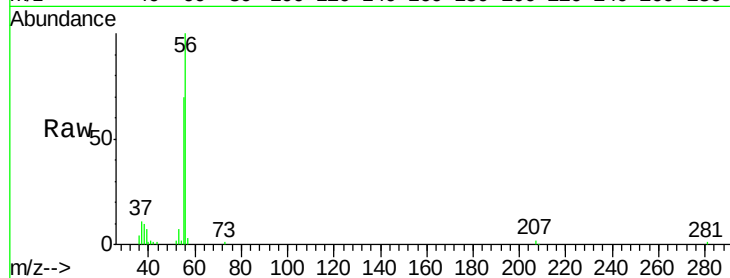
#13
Acrolein
Concen: 260.211 ug/l
RT: 3.57 min Scan# 560
Delta R.T. -0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	56	Resp	98444
Ion Ratio	Lower	Upper	
56	100		
55	72.2	57.4	86.0

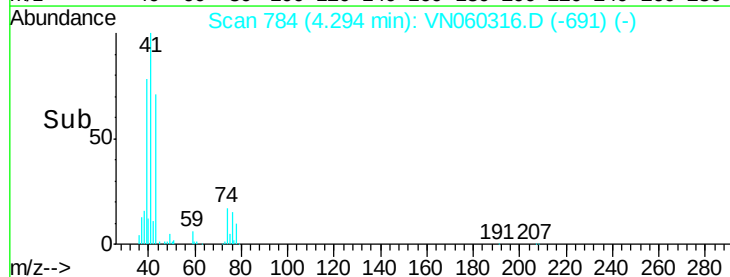
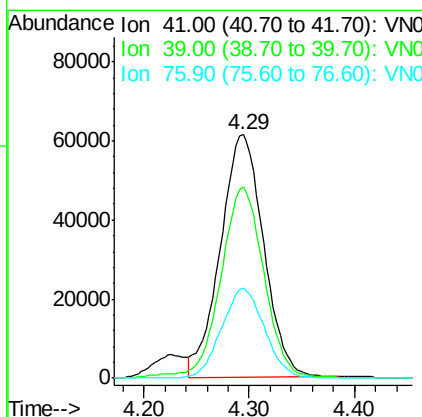
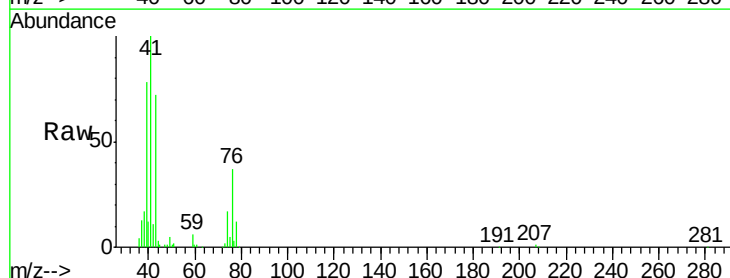
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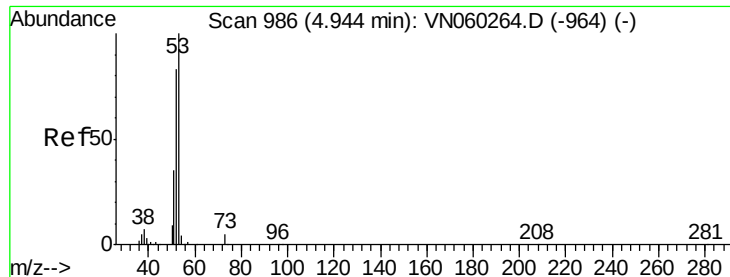
MMDadoda
3/4/2020 10:43:55 AM



#14
Allyl chloride
Concen: 46.345 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	41	Resp	174751
Ion Ratio	Lower	Upper	
41	100		
39	79.1	55.4	83.2
76	36.7	27.0	40.6





#15

Acrylonitrile

Concen: 260.090 ug/l

RT: 4.94 min Scan# 985

Delta R.T. -0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

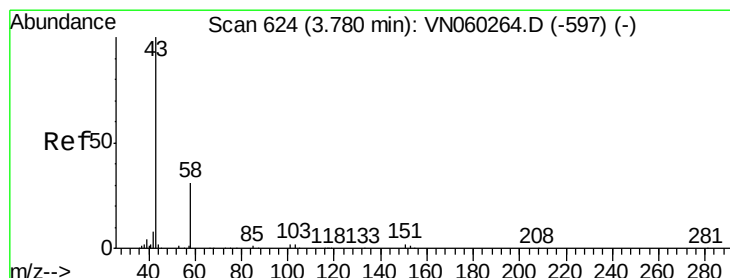
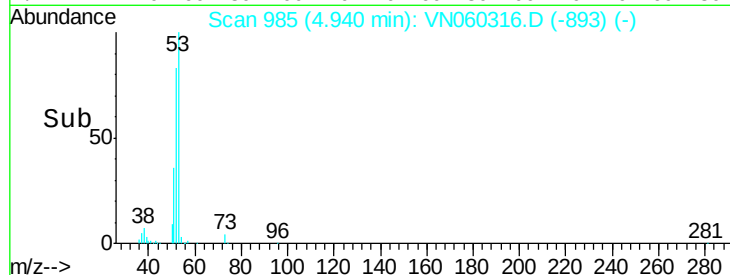
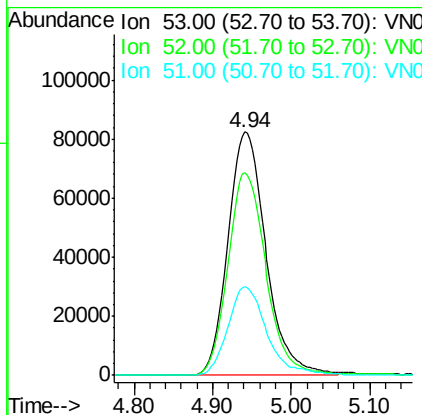
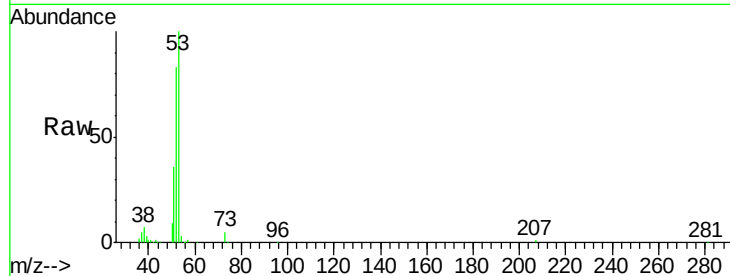
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	278011
Ion	Ratio	Lower	Upper
53	100		
52	83.2	66.8	100.2
51	37.3	29.0	43.6

Manual Integrations
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#16

Acetone

Concen: 242.211 ug/l

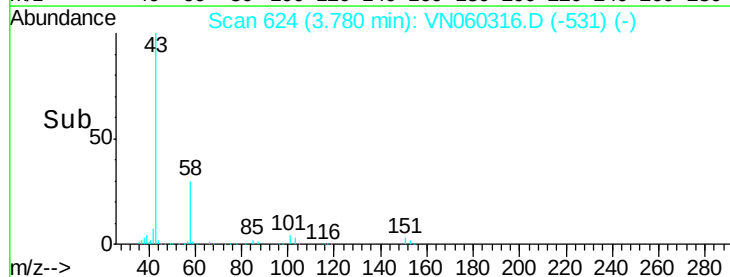
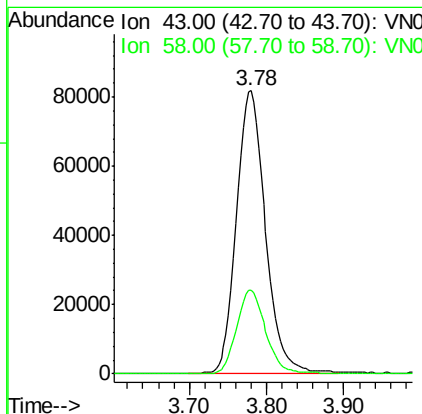
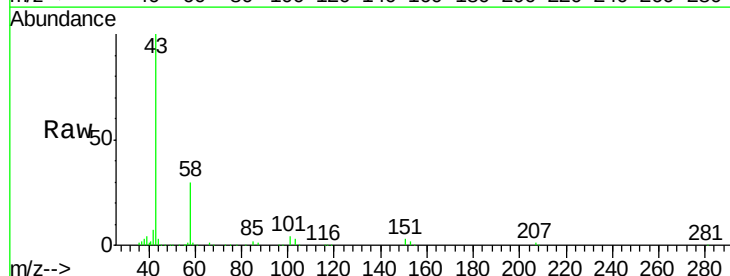
RT: 3.78 min Scan# 624

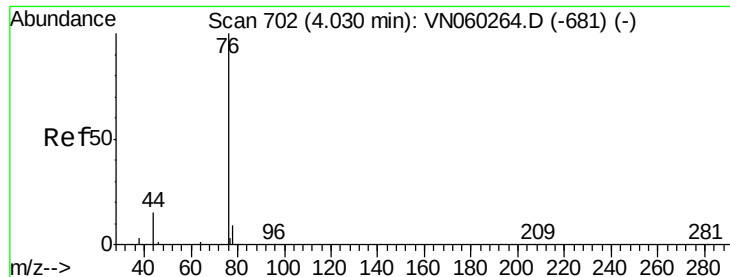
Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Tgt Ion:	43	Resp:	213618
Ion	Ratio	Lower	Upper
43	100		
58	29.6	24.6	36.8





#17

Carbon Disulfide

Concen: 49.248 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 267325

Ion Ratio Lower Upper

76 100

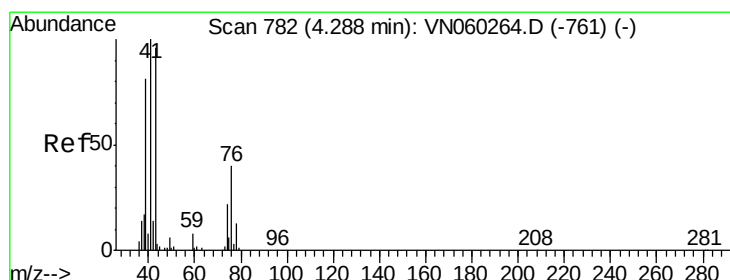
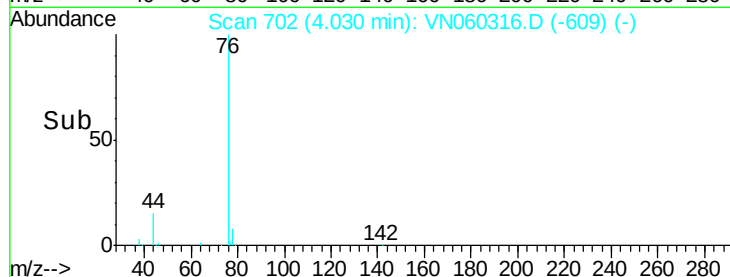
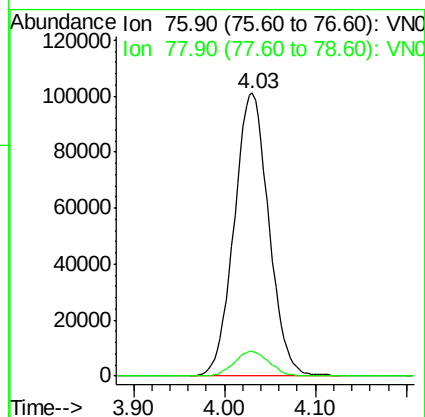
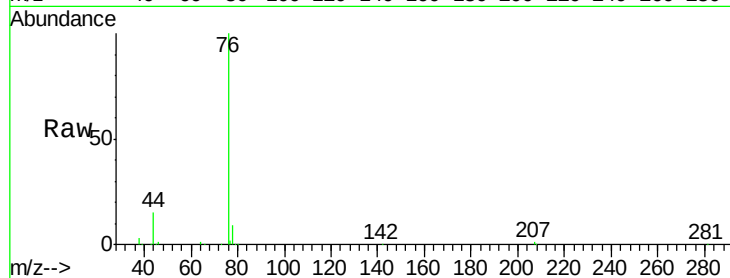
78 8.7 7.4 11.0

Manual Integrations

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#18

Methyl Acetate

Concen: 47.701 ug/l

RT: 4.28 min Scan# 781

Delta R.T. -0.00 min

Lab File: VN060316.D

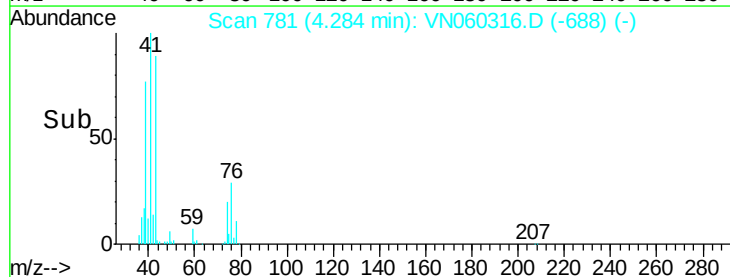
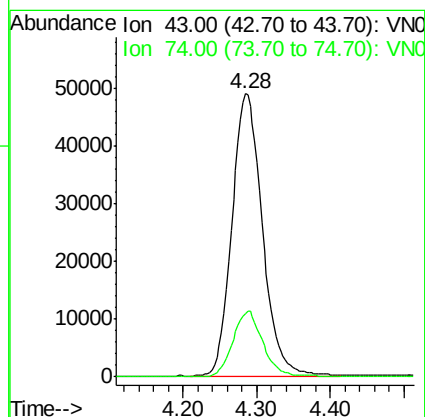
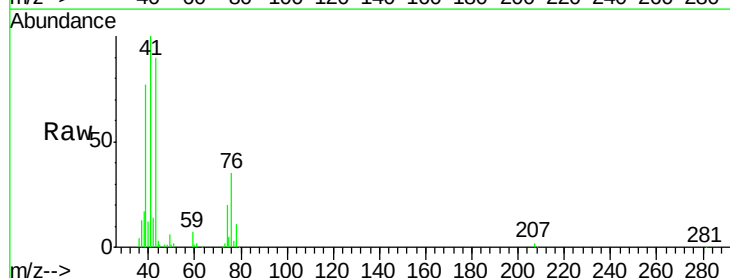
Acq: 3 Mar 2020 9:32

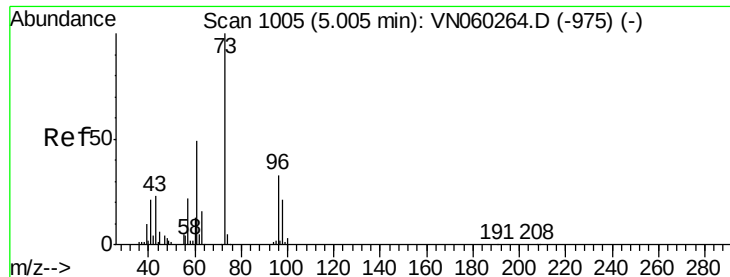
Tgt Ion: 43 Resp: 140395

Ion Ratio Lower Upper

43 100

74 23.1 18.8 28.2





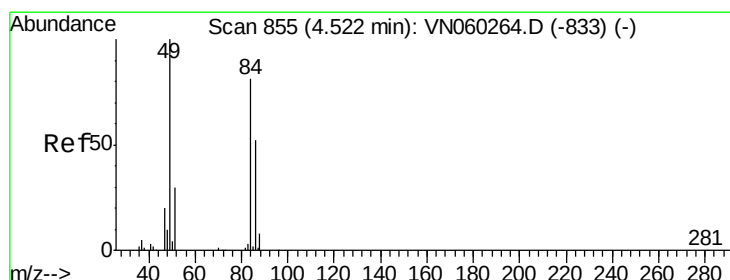
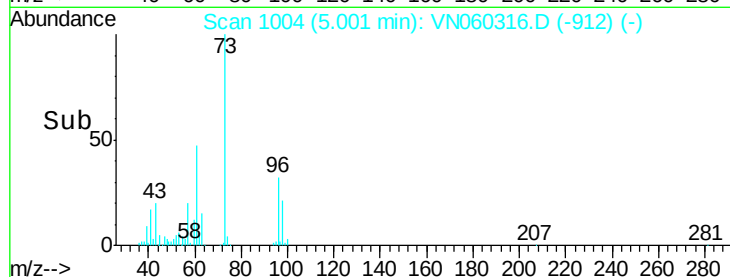
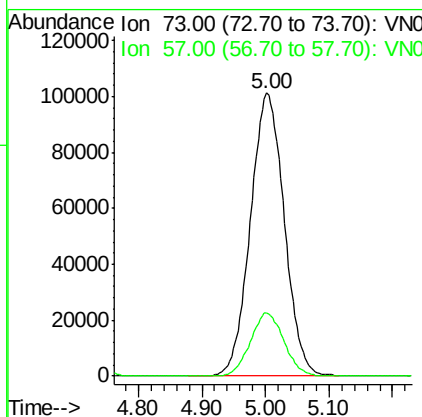
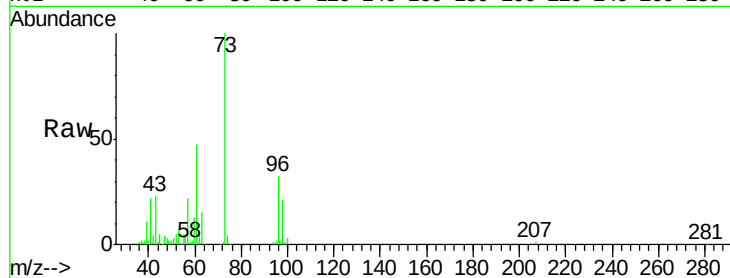
#19
Methvl tert-butvl Ether
Concen: 50.601 ug/l
RT: 5.00 min Scan# 1004
Delta R.T. -0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	73	Resp	375707
Ion Ratio	Lower	Upper	
73	100		
57	22.4	17.3	25.9

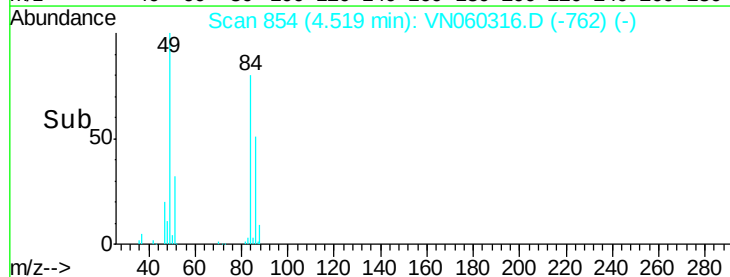
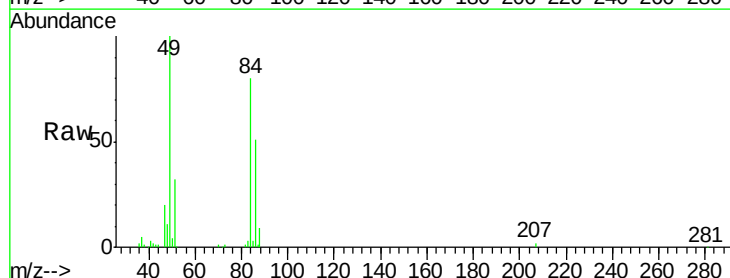
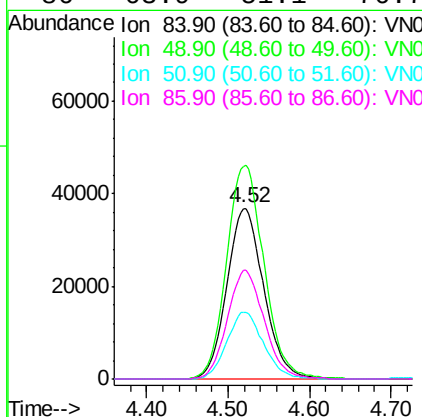
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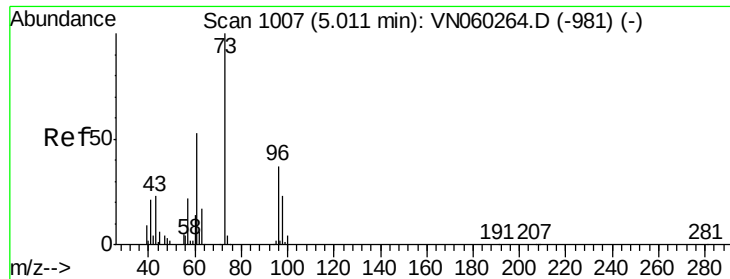
MMDadoda
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#20
Methylene Chloride
Concen: 48.032 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	84	Resp	116339
Ion Ratio	Lower	Upper	
84	100		
49	125.0	99.3	148.9
51	39.4	30.1	45.1
86	63.9	51.1	76.7





#21

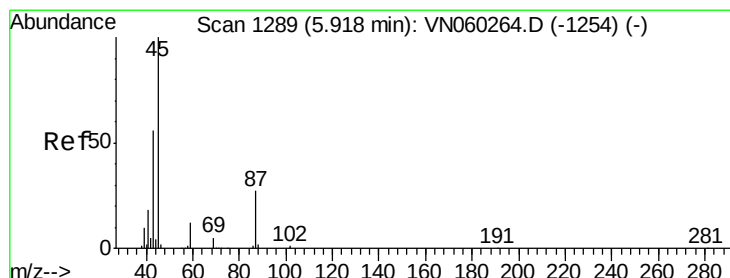
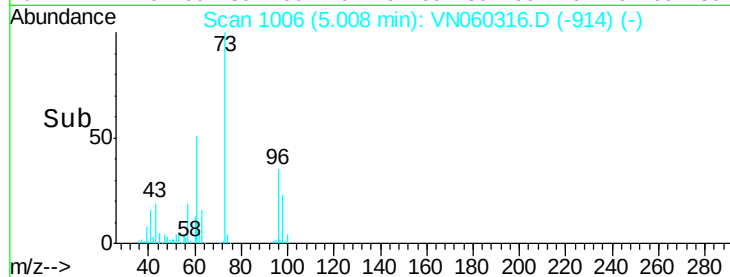
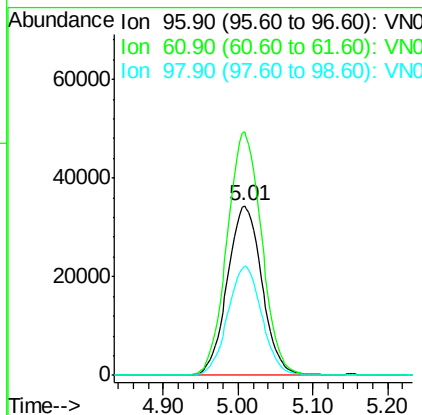
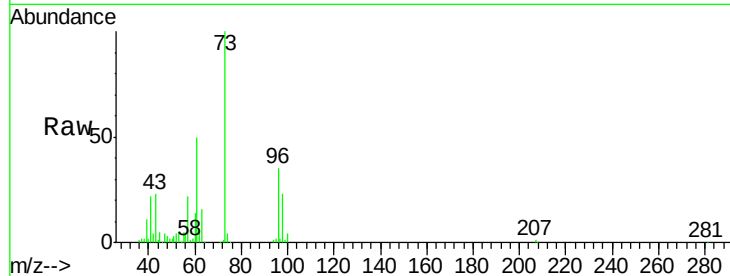
trans-1,2-Dichloroethene
Concen: 50.329 ug/l
RT: 5.01 min Scan# 1006
Delta R.T. -0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.2	113.8	170.8
98	64.0	48.8	73.2

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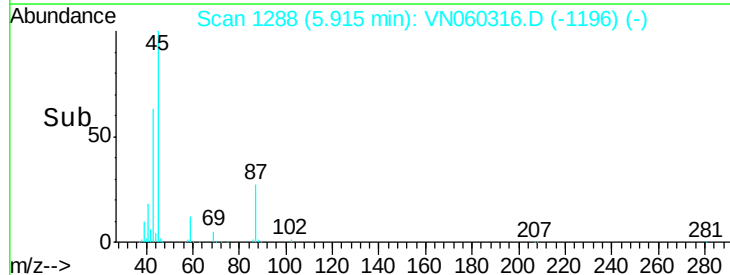
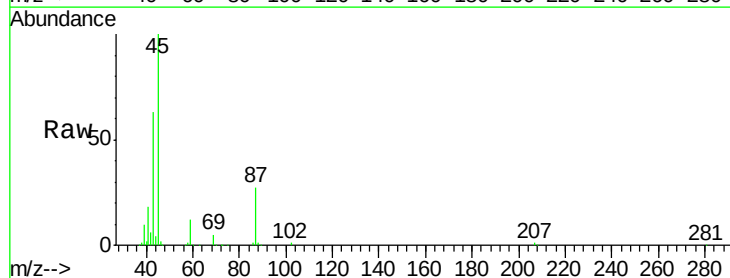
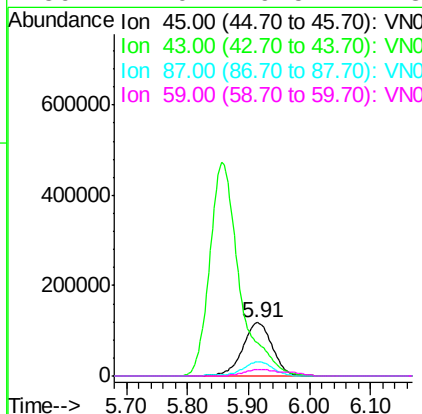
MMDadoda
3/4/2020 10:43:55 AM

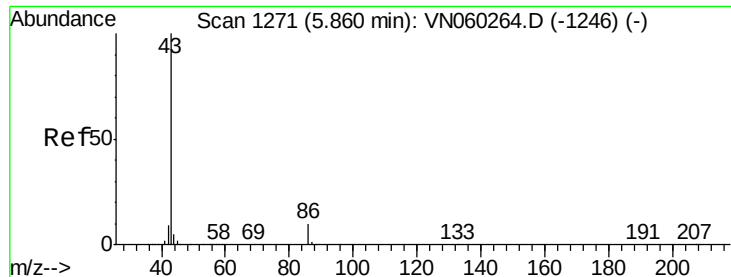


#22

Diisopropyl ether
Concen: 52.249 ug/l
RT: 5.91 min Scan# 1288
Delta R.T. -0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.7	48.6	72.8
87	26.8	22.2	33.2
59	12.0	9.5	14.3





#23

Vinyl Acetate

Concen: 264.173 ug/l

RT: 5.86 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 43 Resp: 1603316

Ion Ratio Lower Upper

43 100

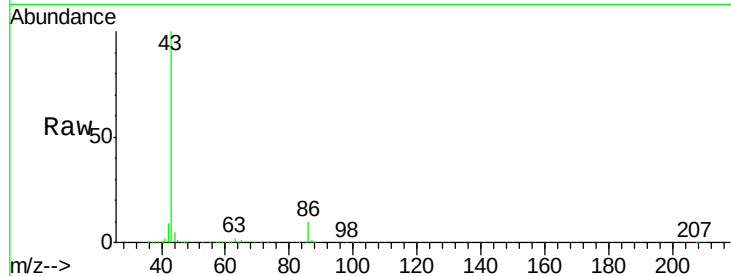
86 10.0 8.0 12.0

Manual Integrations

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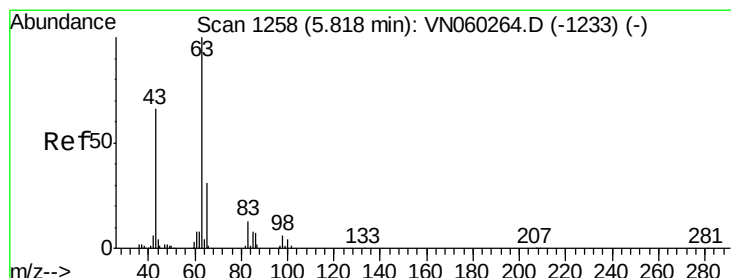
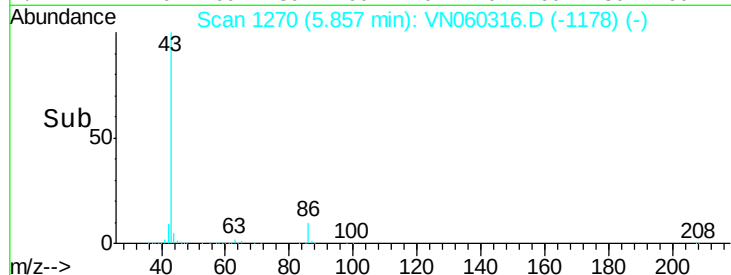
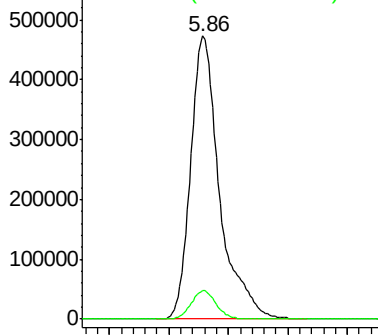
MMDadoda

3/4/2020 10:43:55 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 51.046 ug/l

RT: 5.81 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

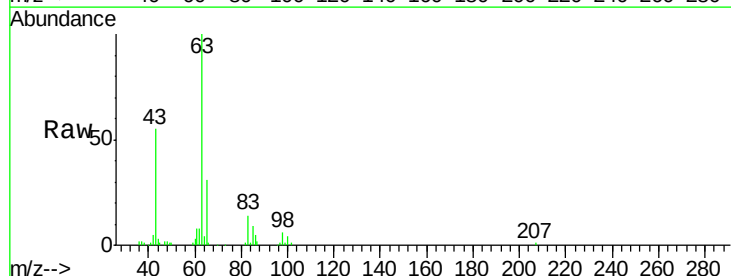
Tgt Ion: 63 Resp: 220695

Ion Ratio Lower Upper

63 100

98 6.2 3.0 9.0

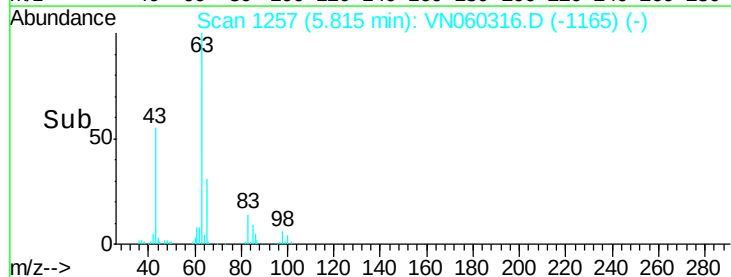
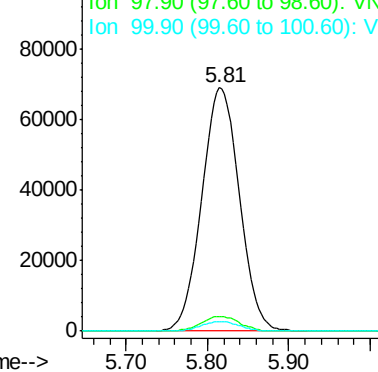
100 4.0 2.0 6.0

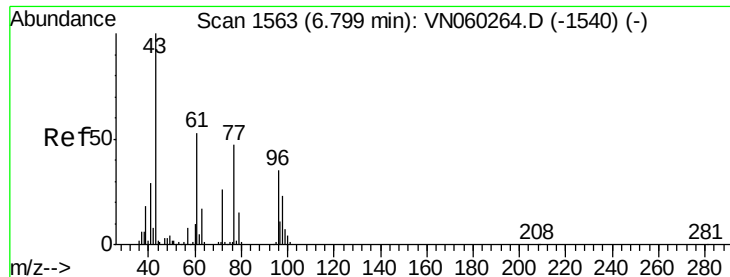


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 266.338 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Tot Ion: 43 Resp: 379415

Ion Ratio Lower Upper

43 100

72 26.0 20.9 31.3

Instrument :

MSVOA_N

ClientSampled :

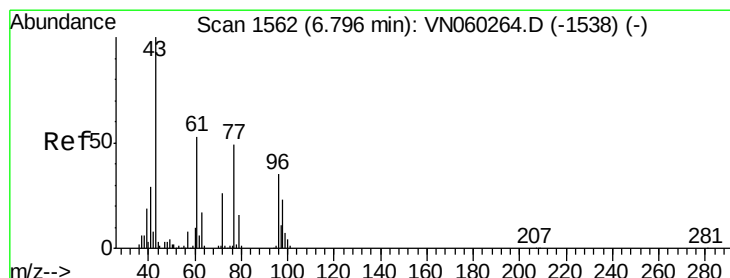
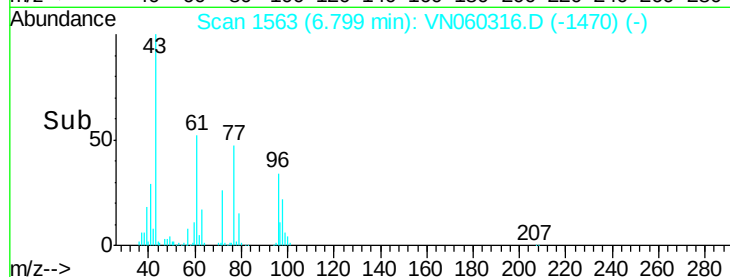
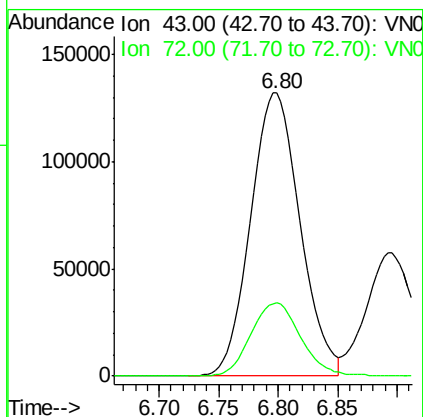
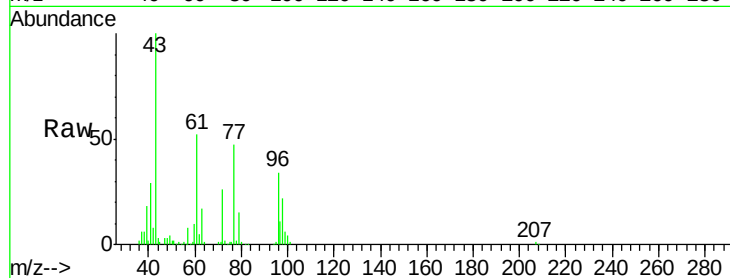
VSTDCCC050

Manual Integrations

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3/4/2020 10:43:55 AM



#26

2,2-Dichloropropane

Concen: 51.513 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VN060316.D

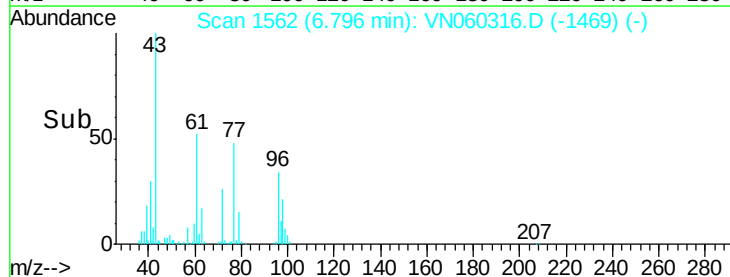
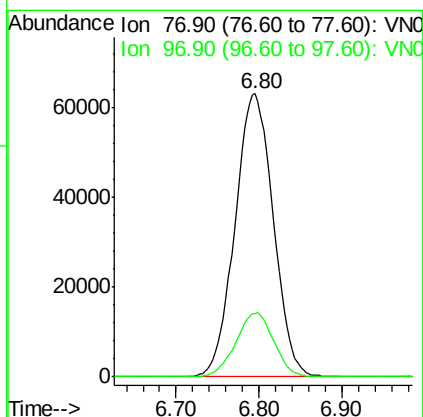
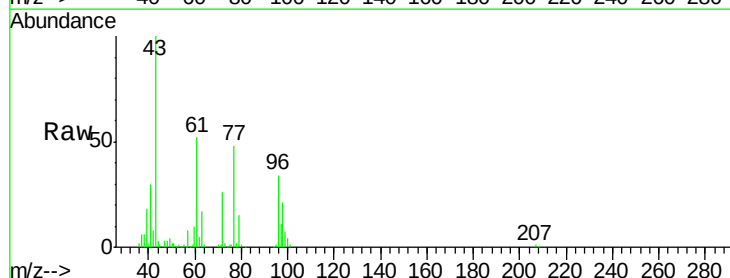
Acq: 3 Mar 2020 9:32

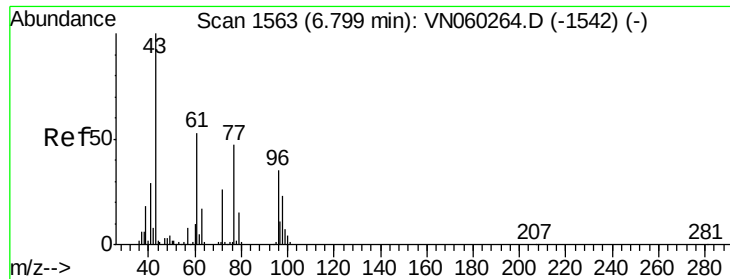
Tgt Ion: 77 Resp: 202753

Ion Ratio Lower Upper

77 100

97 22.4 11.2 33.6





#27

cis-1,2-Dichloroethene

Concen: 47.257 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

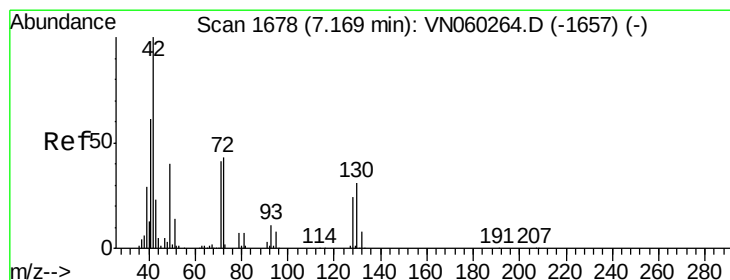
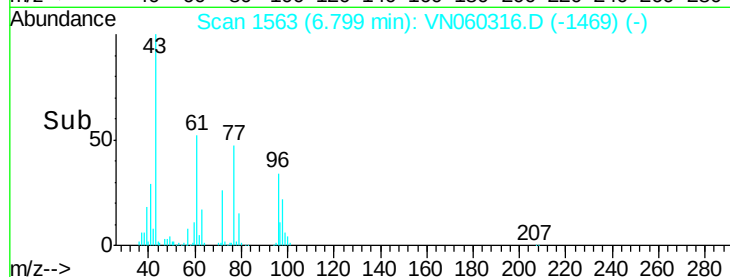
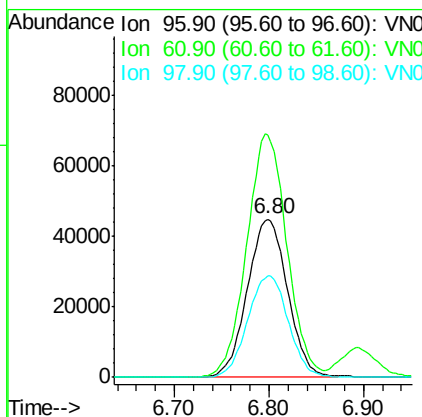
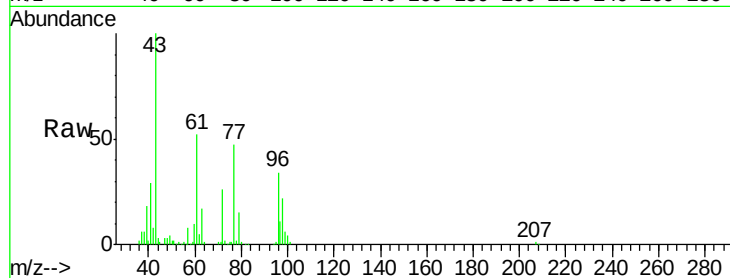
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	132724
Ion	Ratio	Lower	Upper
96	100		
61	153.2	0.0	300.8
98	64.7	0.0	128.2

Manual Integrations
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MMDadoda
3/4/2020 10:43:55 AM



#28

Bromochloromethane

Concen: 49.267 ug/l

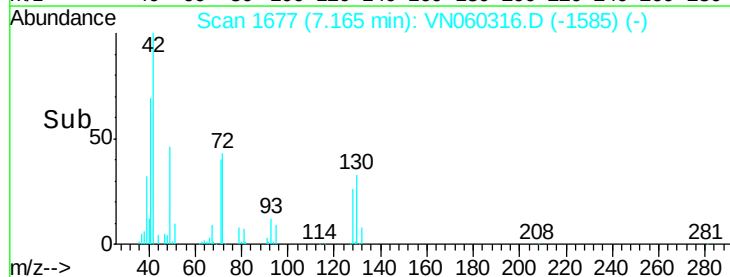
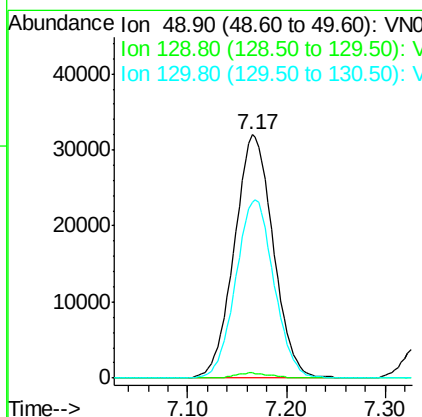
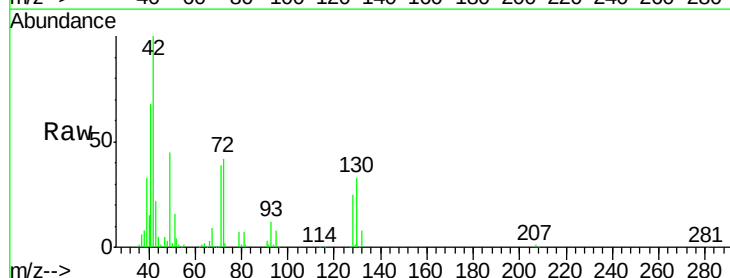
RT: 7.17 min Scan# 1677

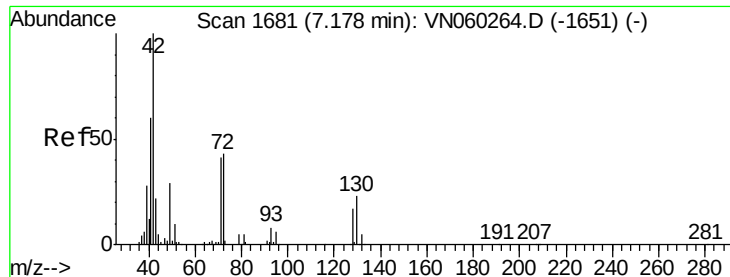
Delta R.T. -0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Tgt Ion:	49	Resp:	87455
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	72.0	59.8	89.8





#29

Tetrahydrofuran

Concen: 256.285 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

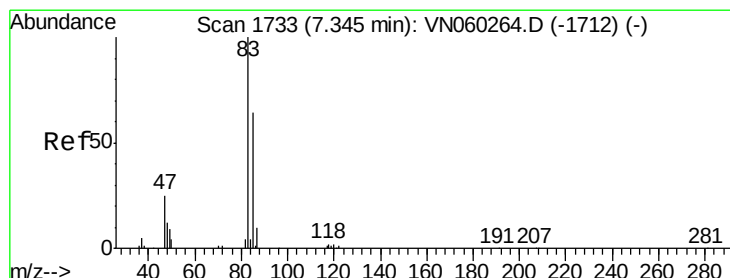
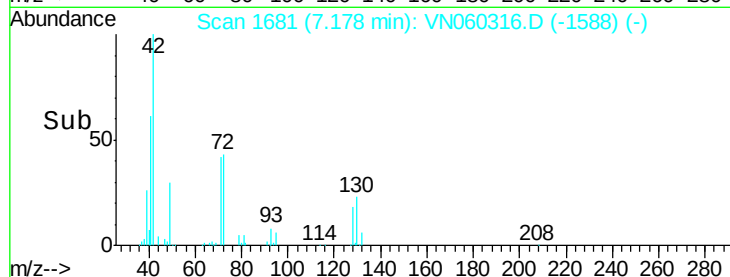
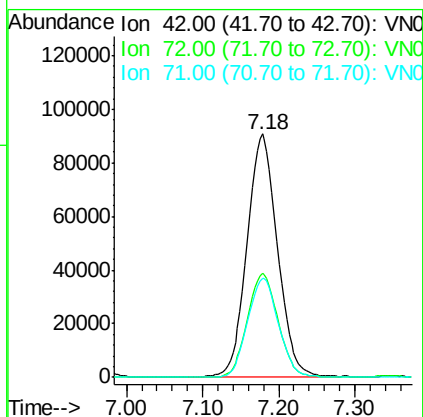
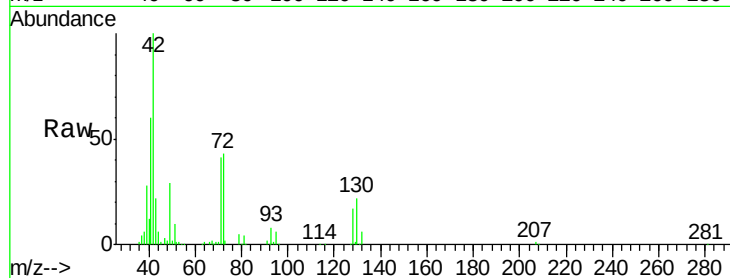
ClientSampleId :

VSTDCCC050

Tot Ion:	42	Resp:	253878
Ion Ratio		Lower	Upper
42	100		
72	42.9	34.6	52.0
71	41.0	32.9	49.3

Manual Integrations
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MMDadoda
3/4/2020 10:43:55 AM



#30

Chloroform

Concen: 51.318 ug/l

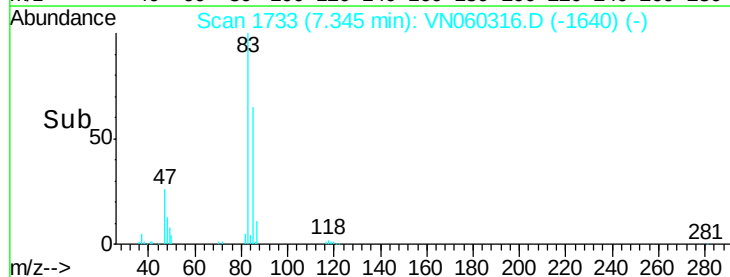
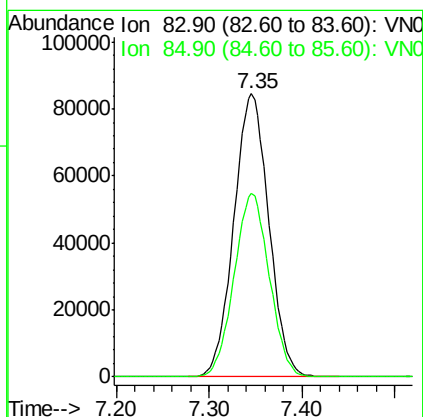
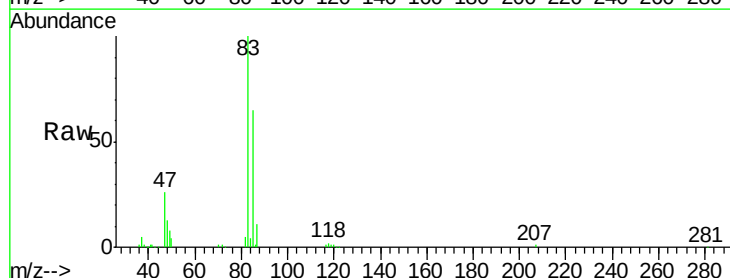
RT: 7.35 min Scan# 1733

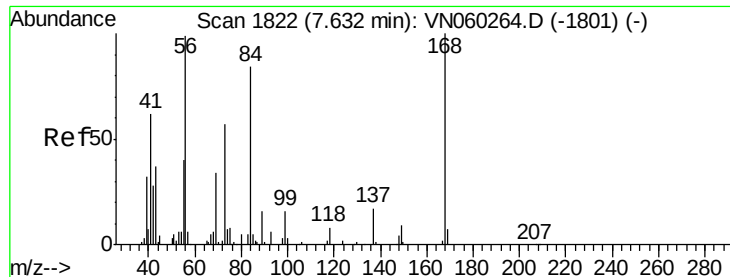
Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Tgt Ion:	83	Resp:	220870
Ion Ratio		Lower	Upper
83	100		
85	65.0	51.4	77.2





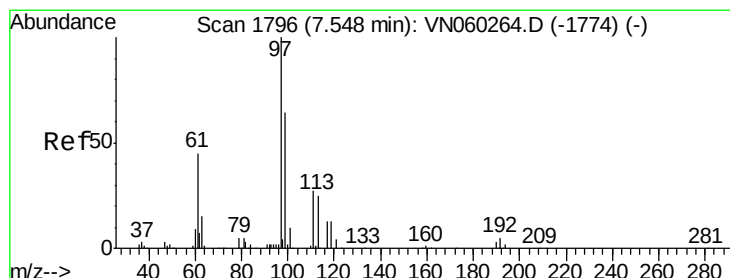
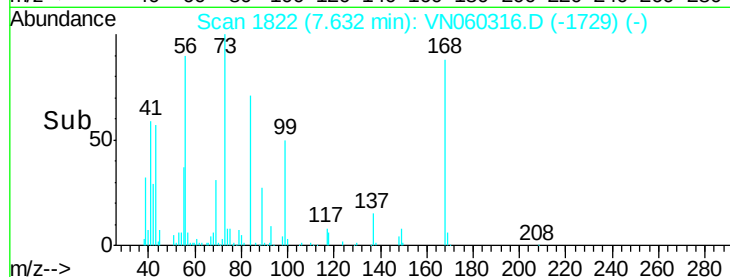
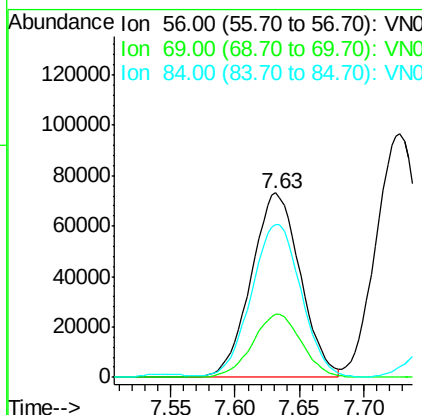
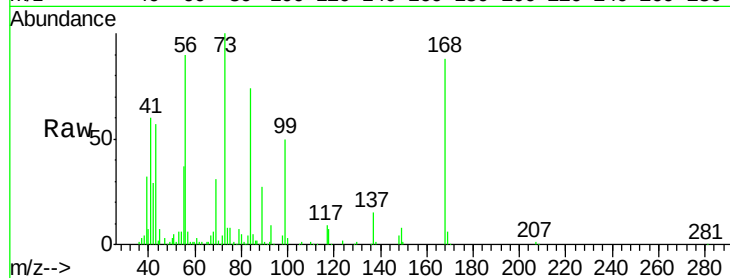
#31
Cyclohexane
Concen: 52.626 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.3	27.2	40.8
84	82.1	66.7	100.1

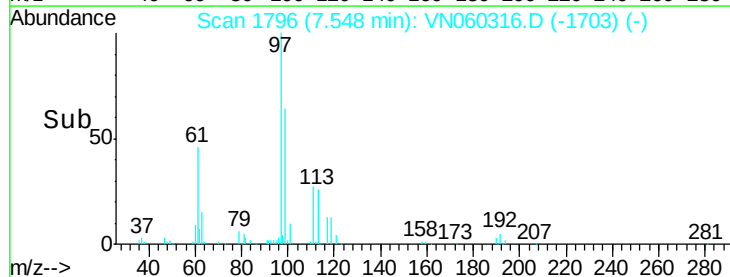
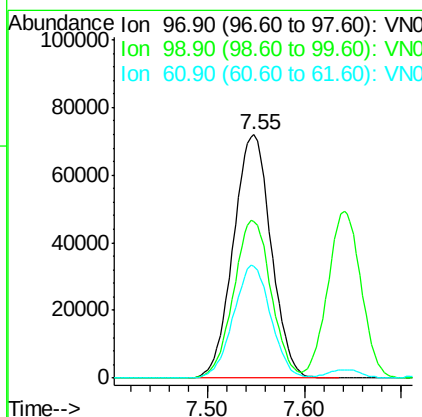
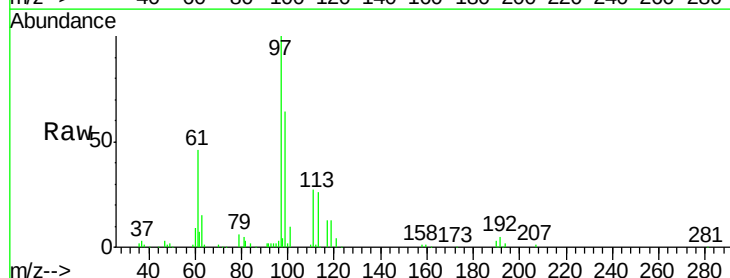
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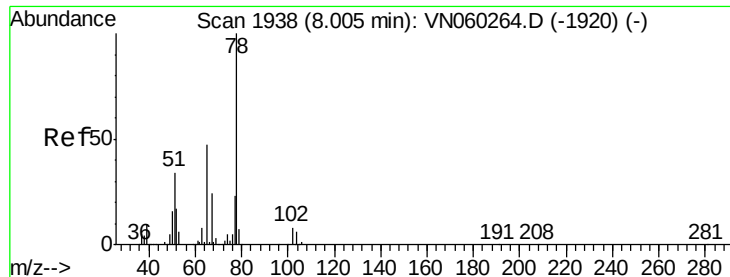
MMDadoda
3/4/2020 10:43:55 AM



#32
1,1,1-Trichloroethane
Concen: 51.229 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.4	77.0
61	45.8	36.6	55.0





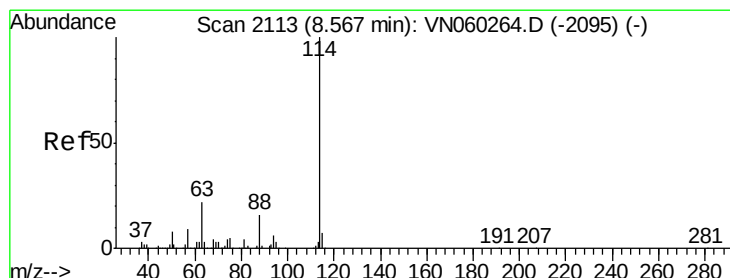
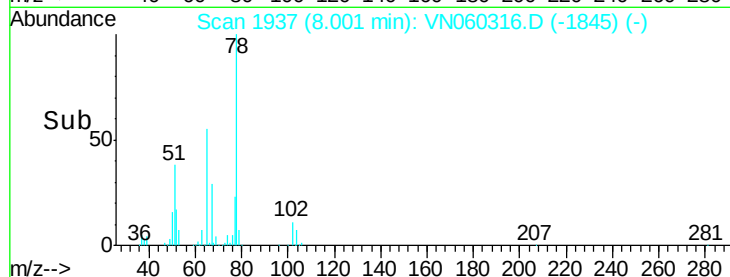
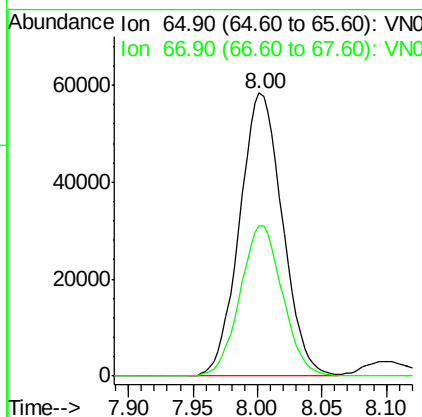
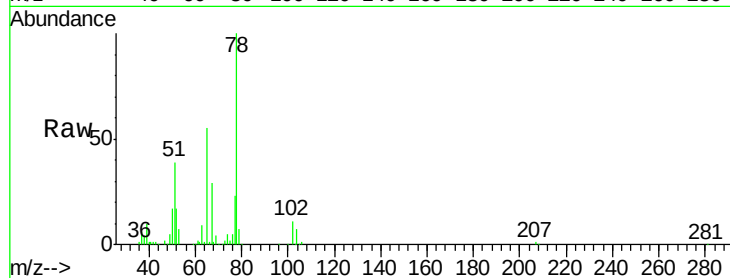
#33
 1,2-Dichloroethane-d4
 Concen: 49.597 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.6	0.0	103.8	

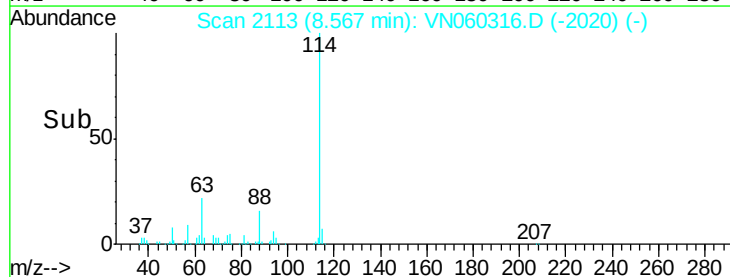
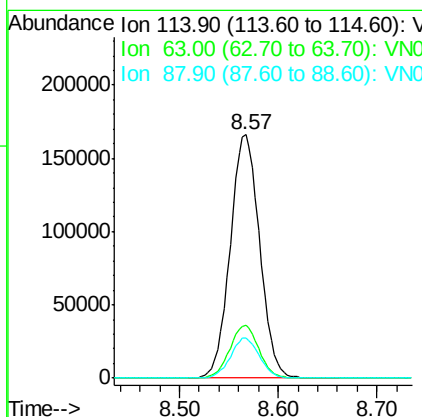
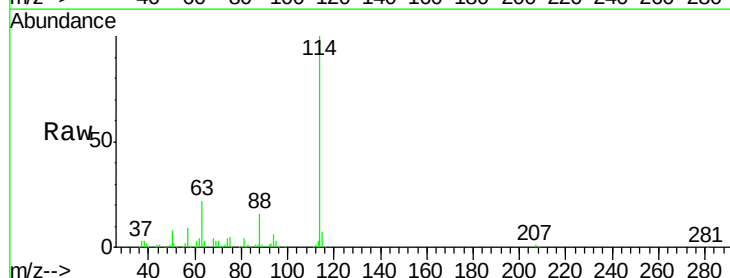
Manual Integrations
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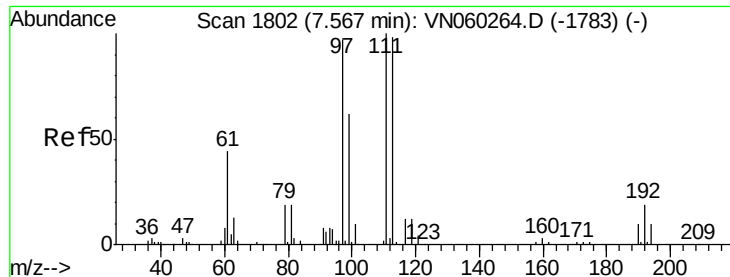
MMDadoda
 3/4/2020 10:43:55 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	21.5	0.0	43.2	
88	16.2	0.0	31.6	





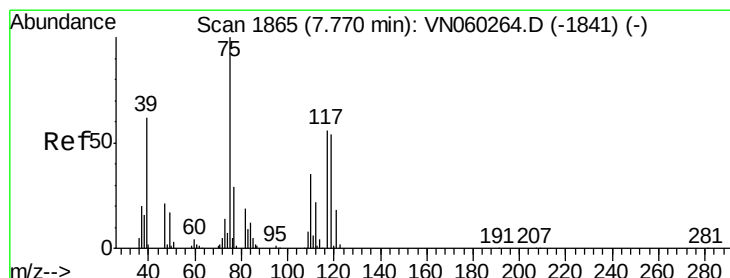
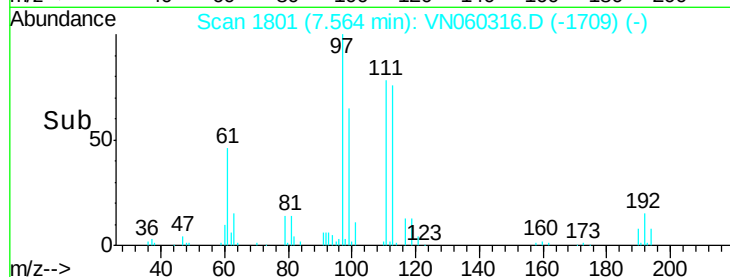
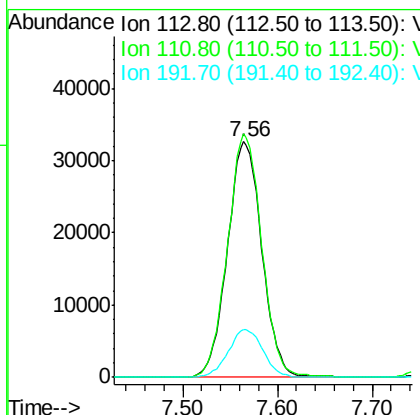
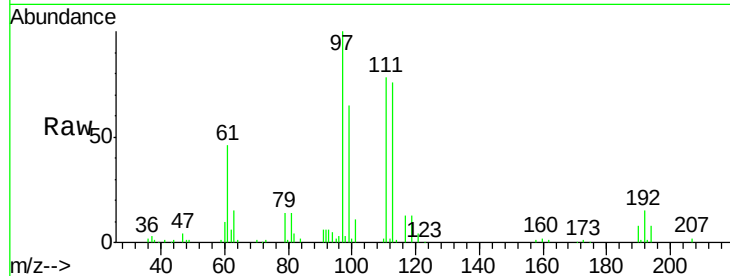
#35
 Dibromofluoromethane
 Concen: 51.552 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.4	123.6
192	20.3	16.2	24.2

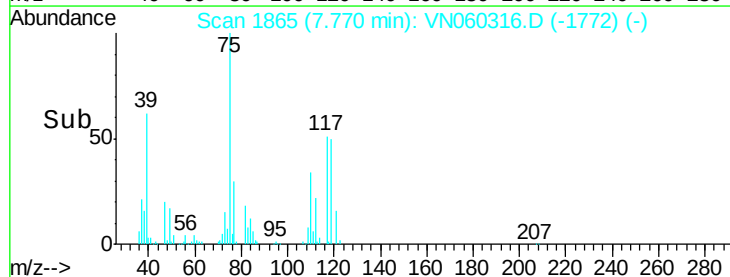
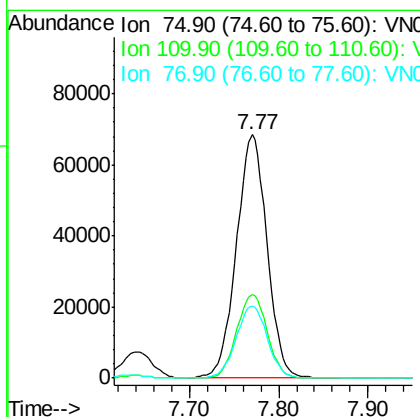
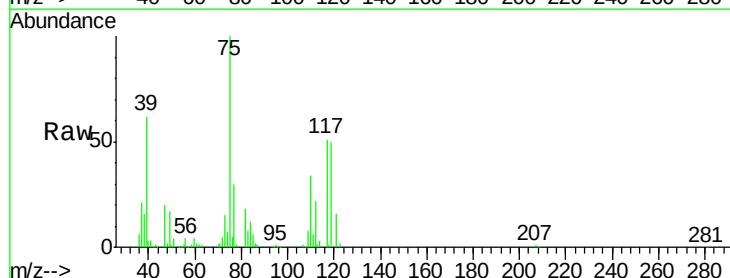
Manual Integrations
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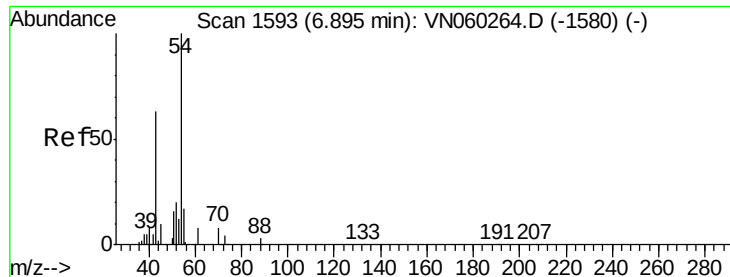
MMDadoda
 3/4/2020 10:43:55 AM



#36
 1,1-Dichloropropene
 Concen: 49.655 ug/l
 RT: 7.77 min Scan# 1865
 Delta R.T. 0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.3	17.3	52.0
77	30.4	24.2	36.2





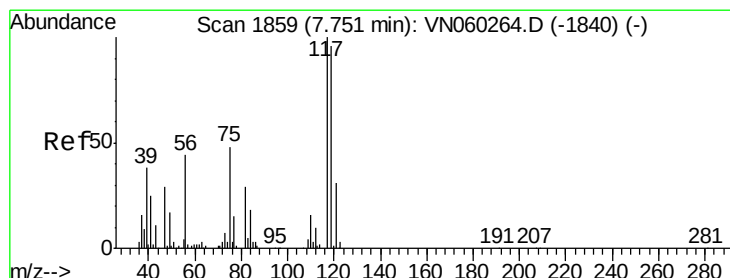
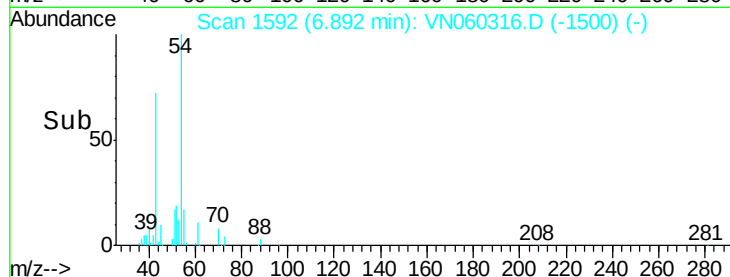
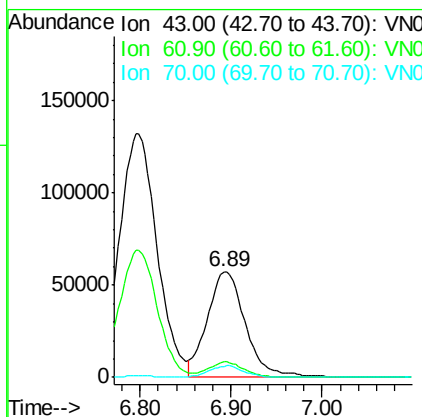
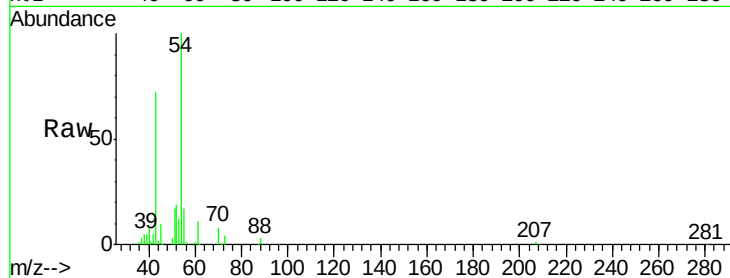
#37
Ethyl Acetate
Concen: 52.616 ug/l
RT: 6.89 min Scan# 1592
Delta R.T. -0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.1	16.7
70	10.3	8.4	12.6

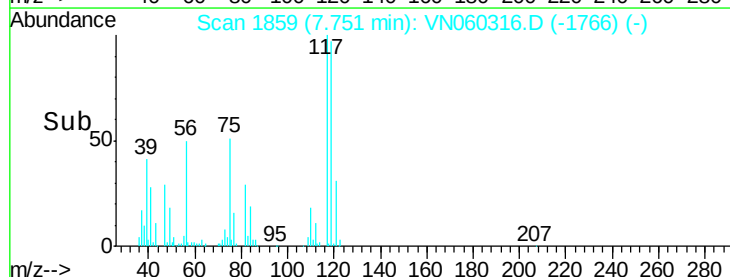
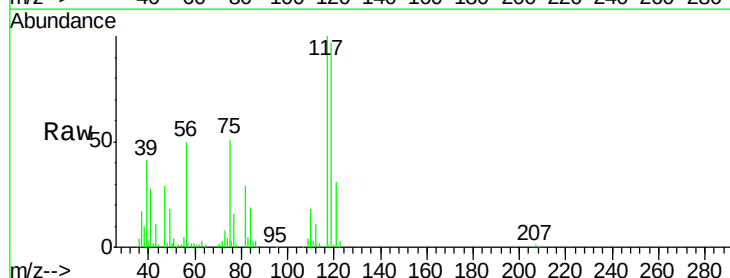
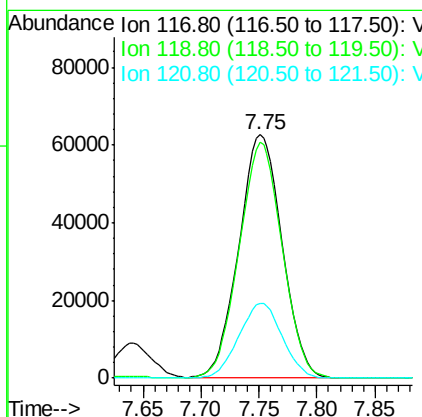
Manual Integrations
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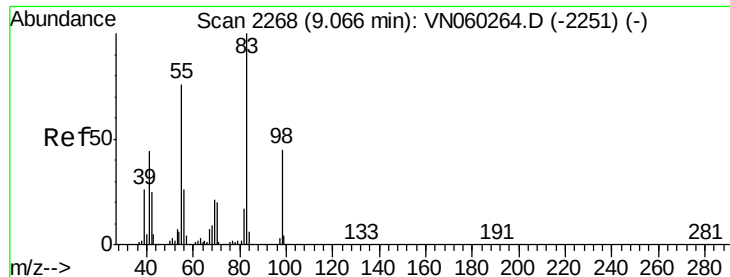
MMDadoda
3/4/2020 10:43:55 AM



#38
Carbon Tetrachloride
Concen: 50.824 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.7	115.1
121	30.9	24.5	36.7





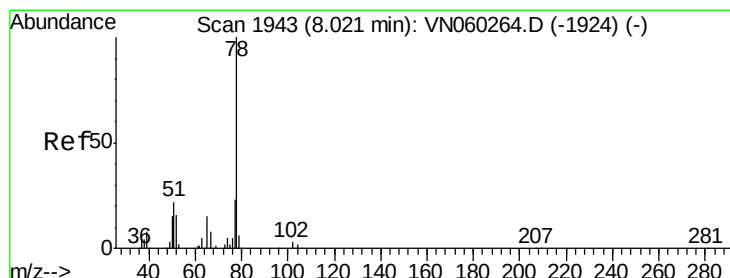
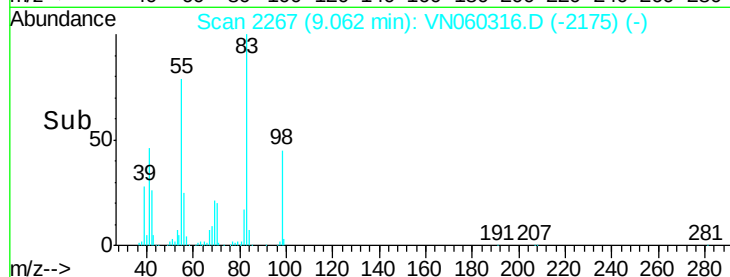
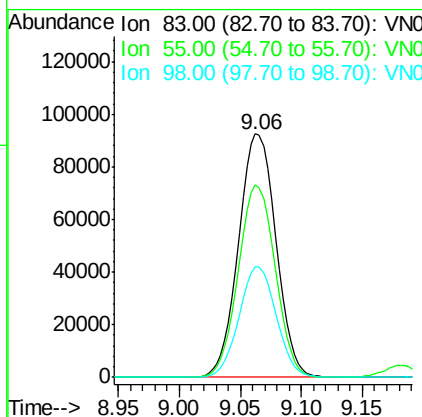
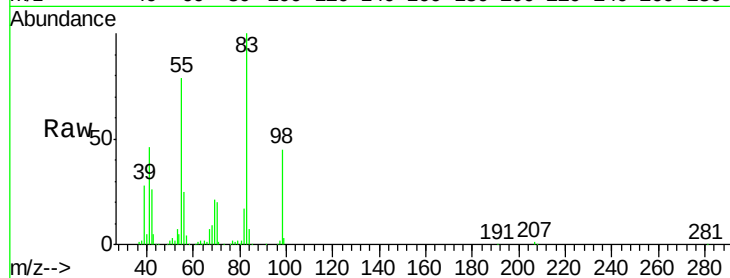
#39
Methylvlcyclohexane
Concen: 50.745 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. -0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.8	61.0	91.4
98	45.3	36.1	54.1

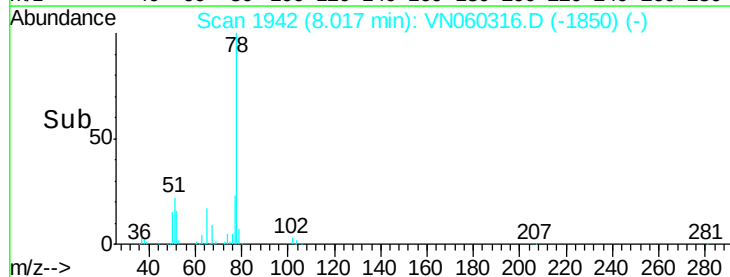
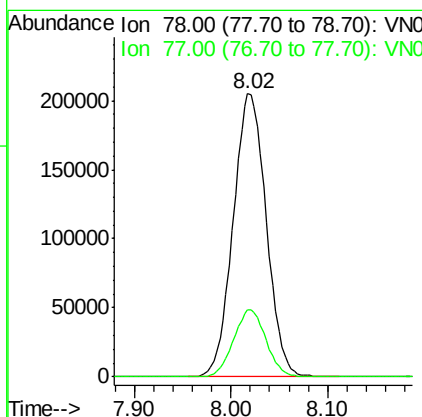
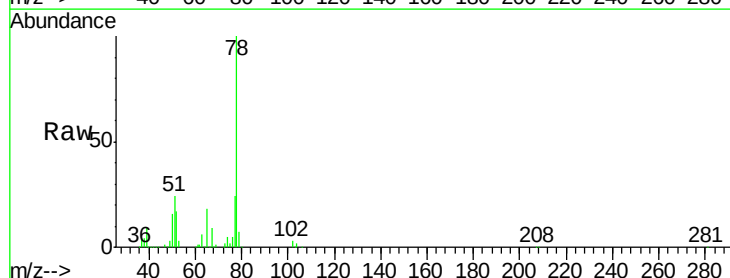
Manual Integrations
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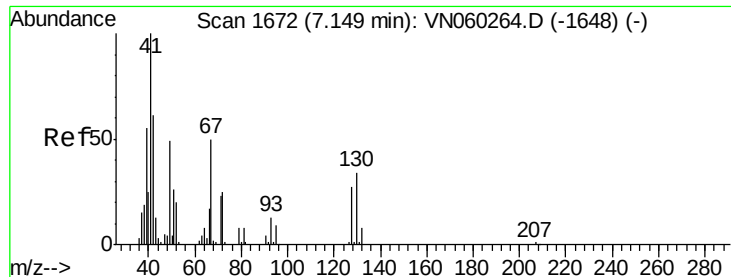
MMDadoda
3/4/2020 10:43:55 AM



#40
Benzene
Concen: 50.836 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2





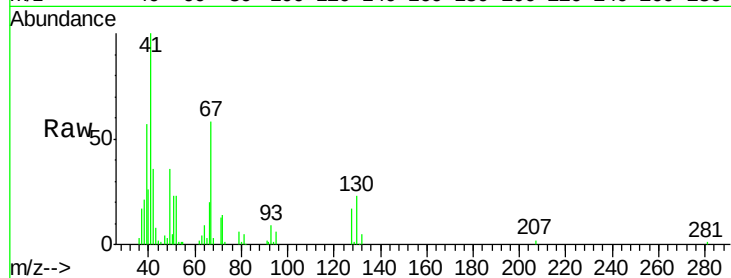
#41
Methacrylonitrile
Concen: 51.228 ug/l m
RT: 7.14 min Scan# 1670
Delta R.T. -0.01 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

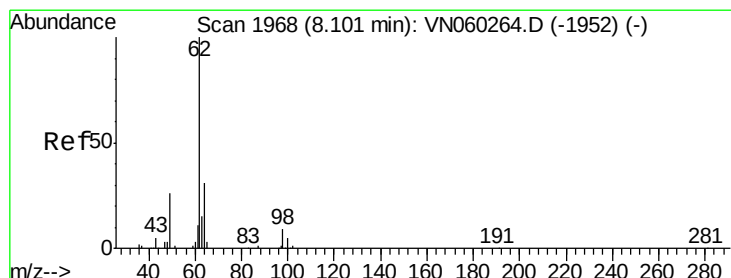
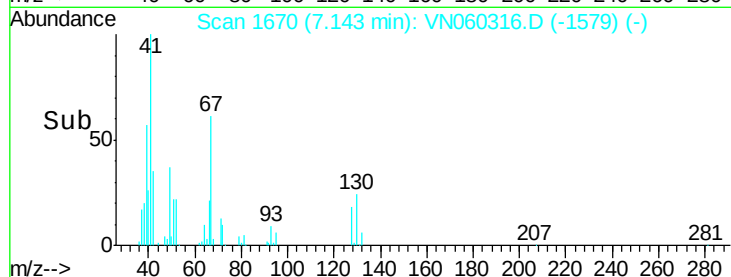
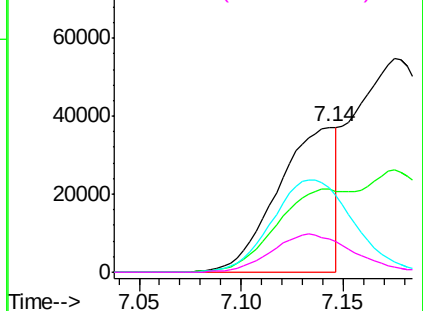
Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		73653		
39	0.0	0.0	0.0		
67	0.0	0.0	0.0		
52	0.0	0.0	0.0		

Manual Integrations
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3/4/2020 10:43:55 AM

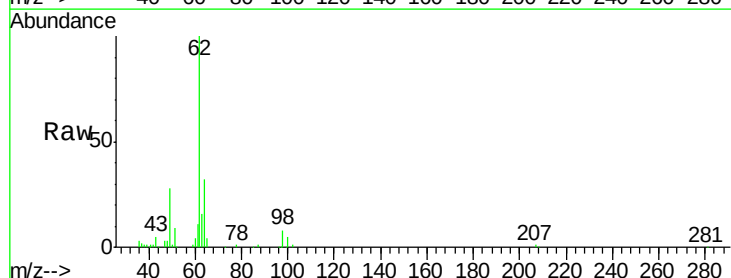


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

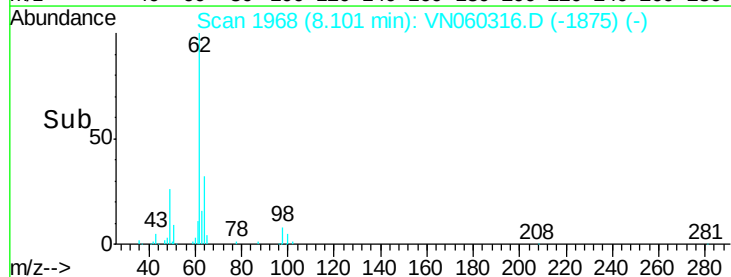
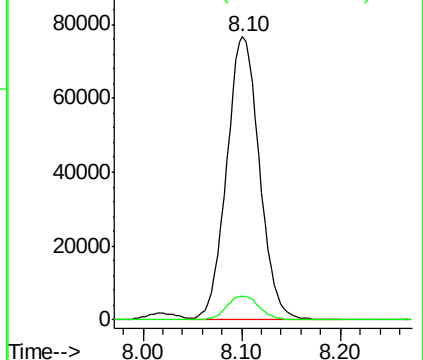


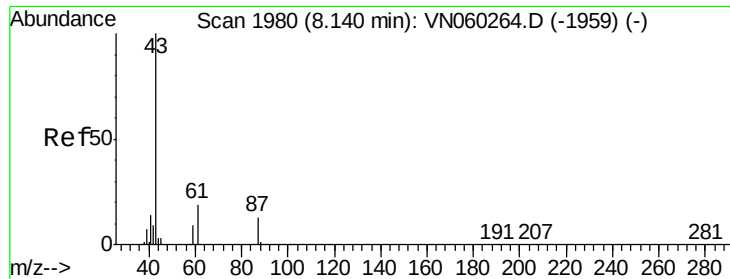
#42
1,2-Dichloroethane
Concen: 51.593 ug/l
RT: 8.10 min Scan# 1968
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		178197		
98	8.4	0.0	17.0		



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 53.335 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

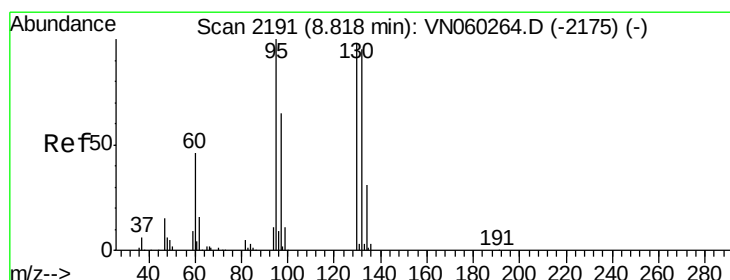
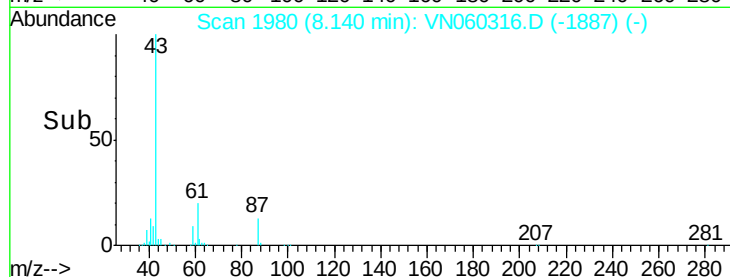
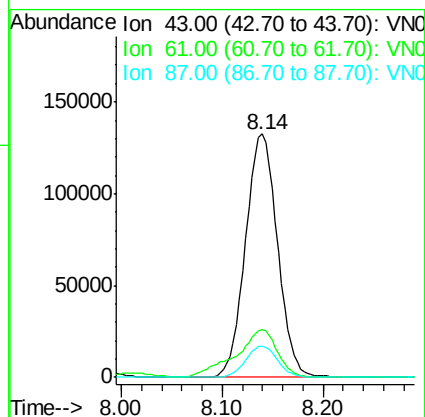
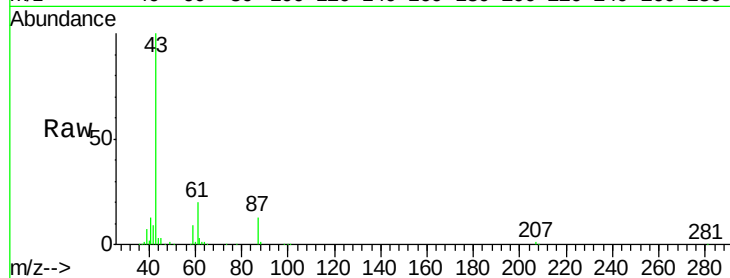
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	290742
Ion	Ratio	Lower	Upper
43	100		
61	25.6	20.9	31.3
87	12.8	10.6	16.0

Manual Integrations
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MMDadoda
3/4/2020 10:43:55 AM



#44

Trichloroethene

Concen: 49.529 ug/l

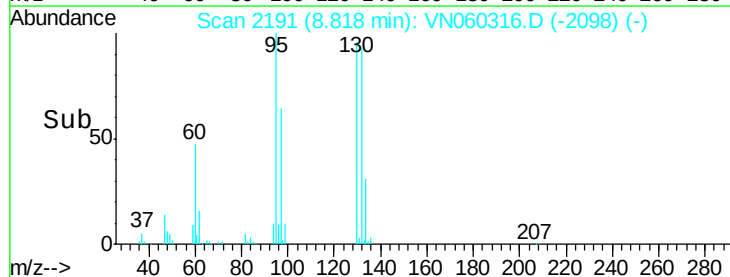
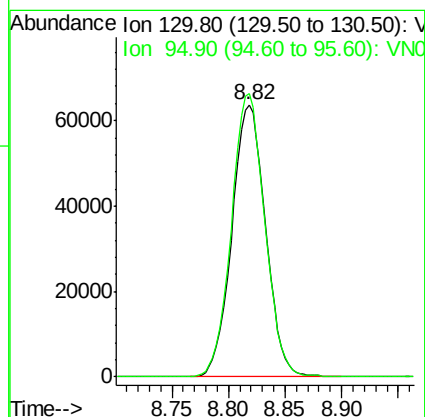
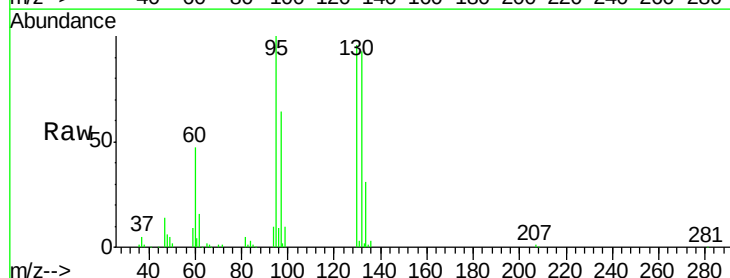
RT: 8.82 min Scan# 2191

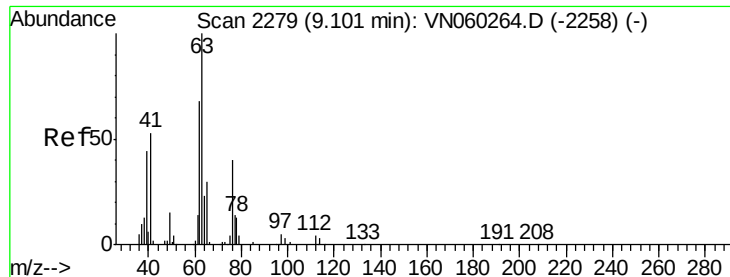
Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Tgt Ion:	130	Resp:	132030
Ion	Ratio	Lower	Upper
130	100		
95	104.1	0.0	203.4





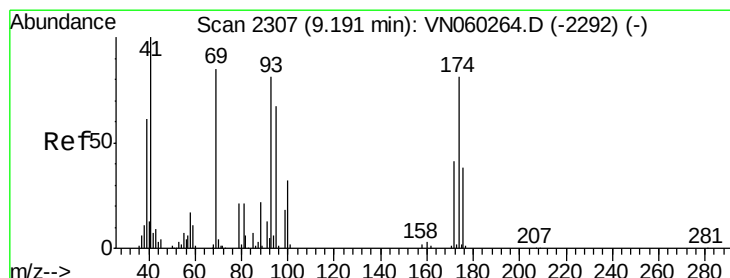
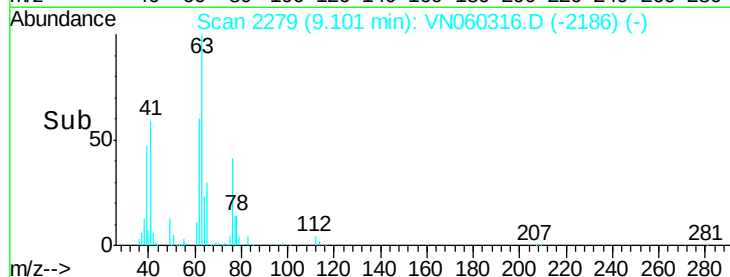
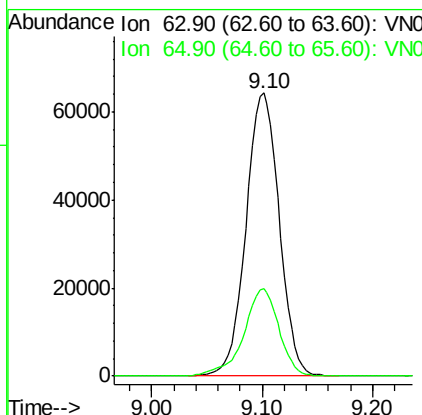
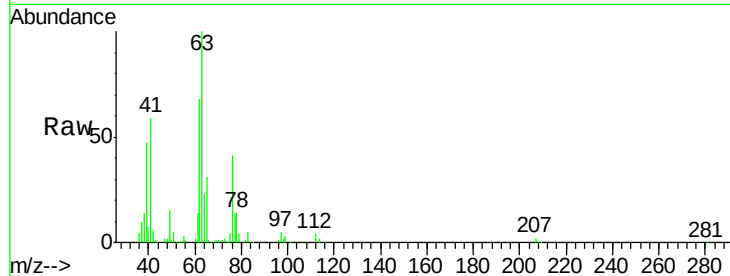
#45
 1,2-Dichloropropane
 Concen: 53.697 ug/l
 RT: 9.10 min Scan# 2279
 Delta R.T. 0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.4	36.6

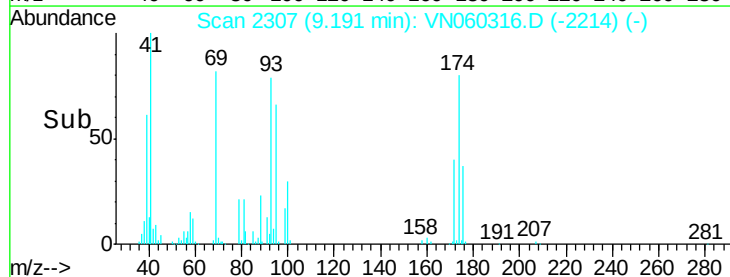
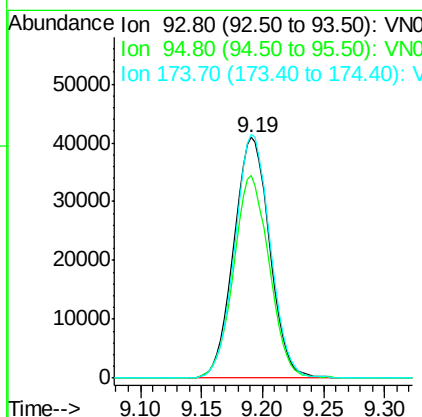
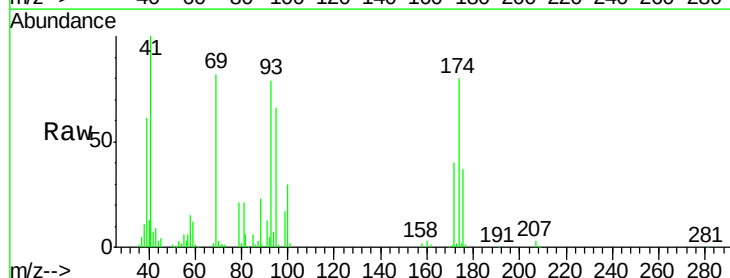
Manual Integrations
 APPROVED

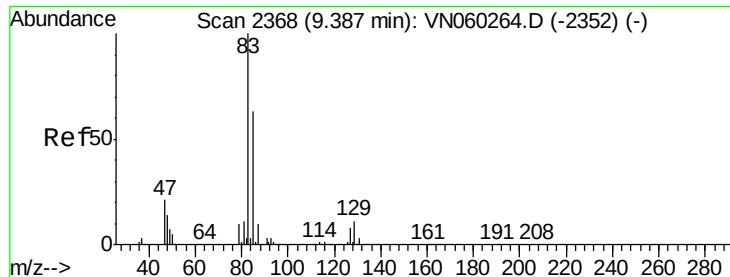
MMDadoda
 3/4/2020 10:43:55 AM



#46
 Dibromomethane
 Concen: 51.267 ug/l
 RT: 9.19 min Scan# 2307
 Delta R.T. 0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.7	65.9	98.9
174	99.9	79.6	119.4





#47

Bromodichloromethane

Concen: 54.009 ug/l

RT: 9.38 min Scan# 2367

Delta R.T. -0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

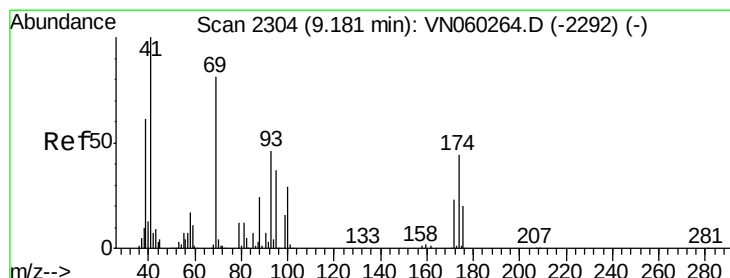
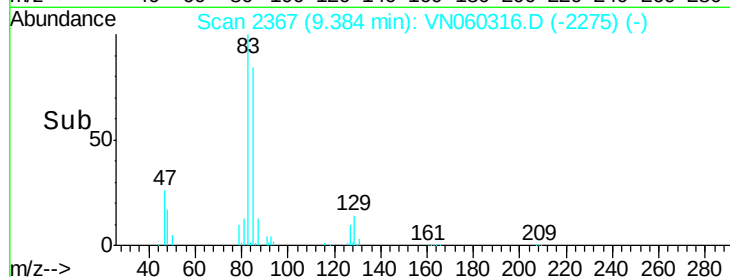
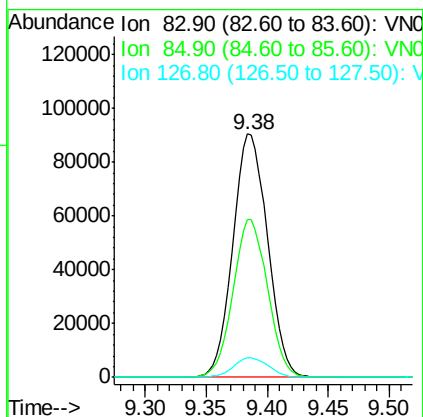
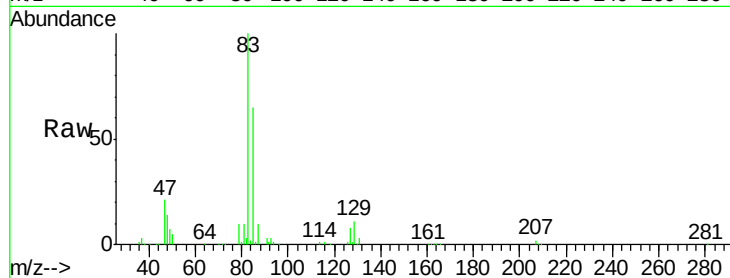
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	178363
Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.7	76.1
127	8.0	6.8	10.2

Manual Integrations
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MMDadoda
3/4/2020 10:43:55 AM



#48

Methyl methacrylate

Concen: 52.213 ug/l

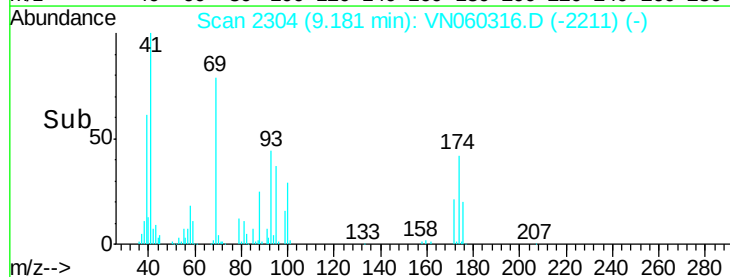
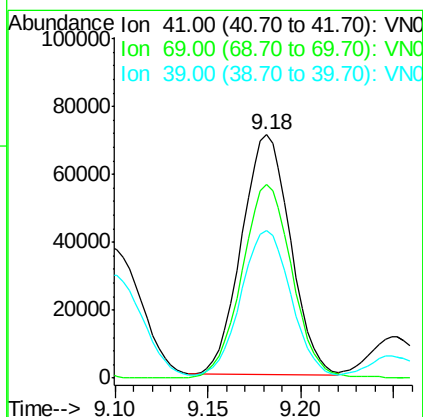
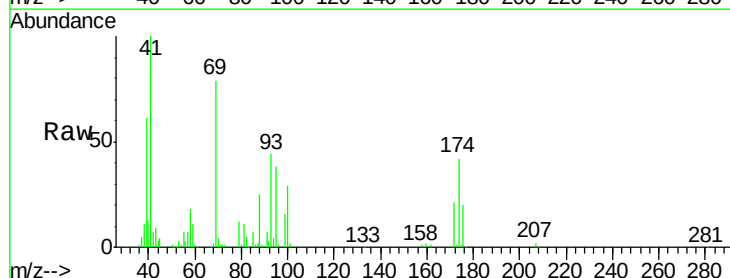
RT: 9.18 min Scan# 2304

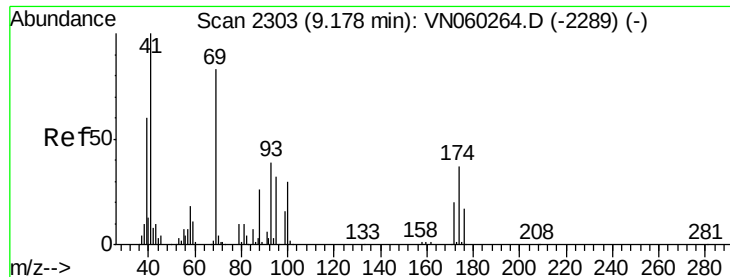
Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Tgt Ion:	41	Resp:	129792
Ion	Ratio	Lower	Upper
41	100		
69	82.4	66.7	100.1
39	60.9	50.1	75.1





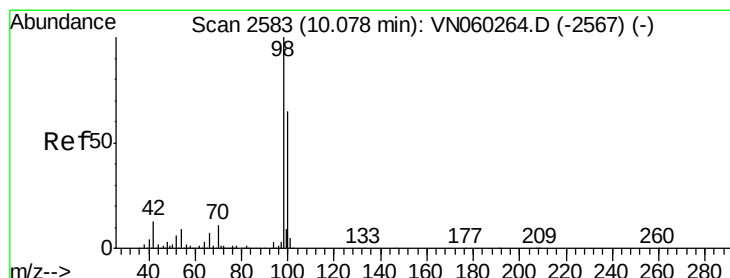
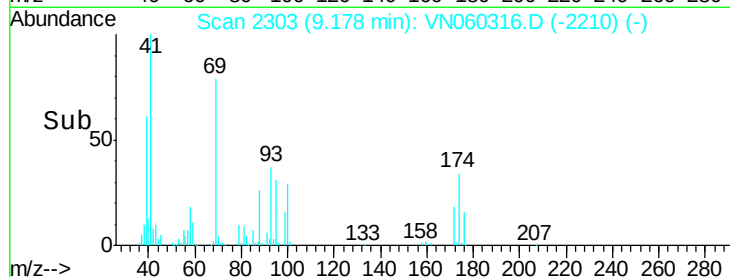
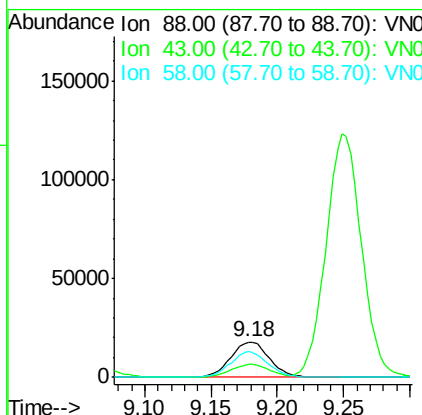
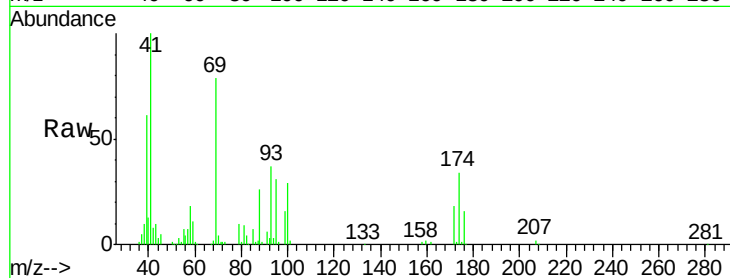
#49
1,4-Dioxane
Concen: 1048.011 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	36.8	30.4	45.6
58	70.6	57.0	85.6

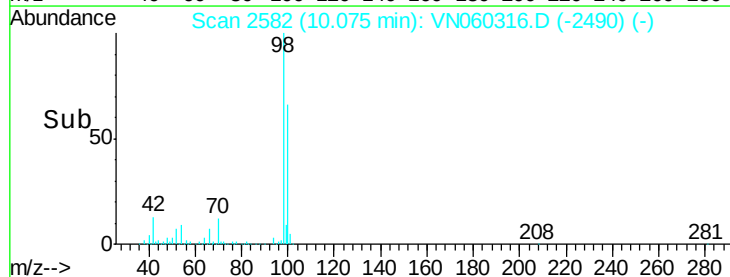
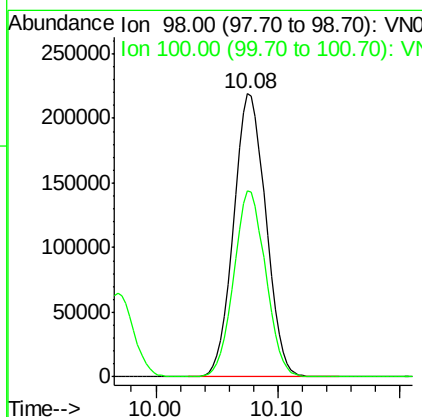
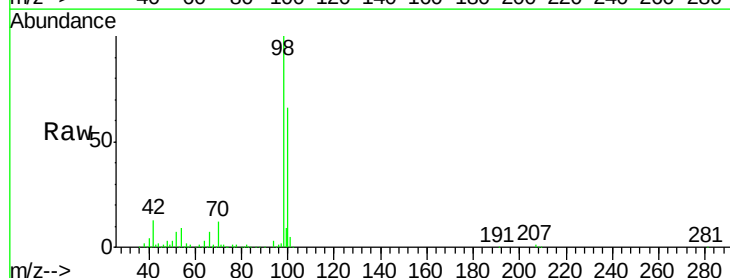
Manual Integrations
APPROVED

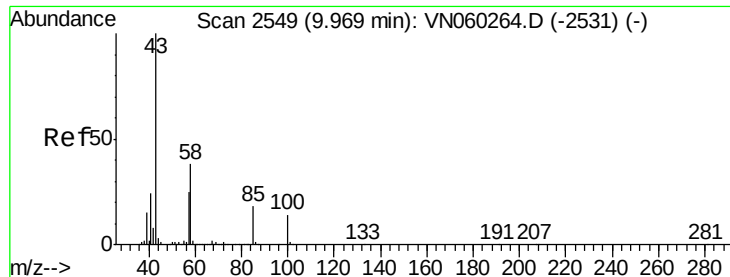
MMDadoda
3/4/2020 10:43:55 AM



#50
Toluene-d8
Concen: 49.473 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2





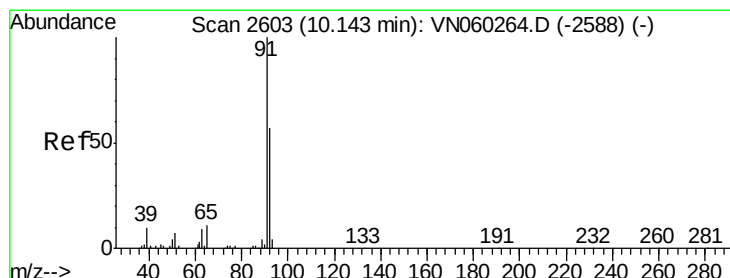
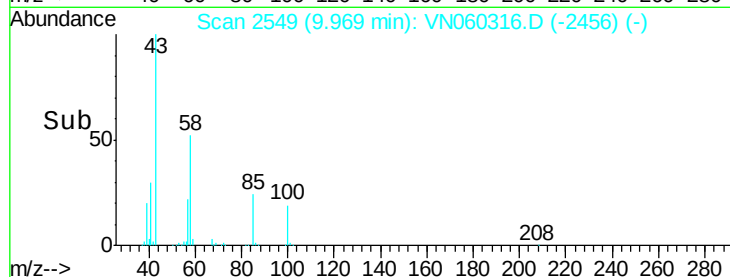
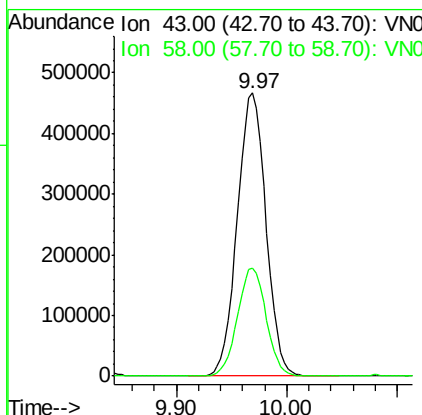
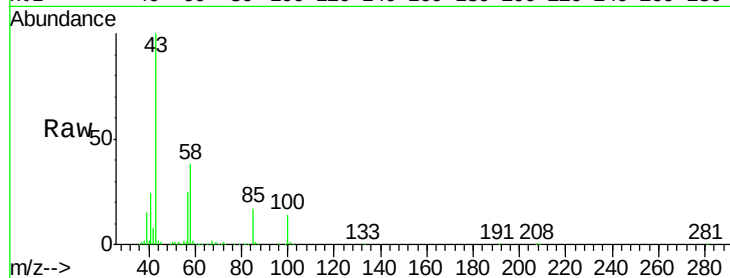
#51
4-Methyl-2-Pentanone
Concen: 272.134 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.9	46.3

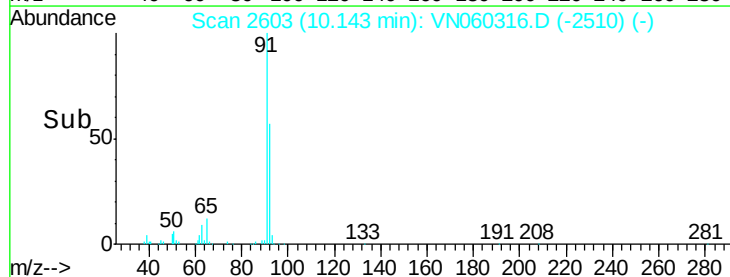
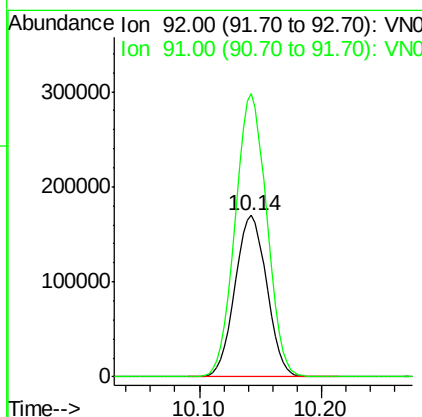
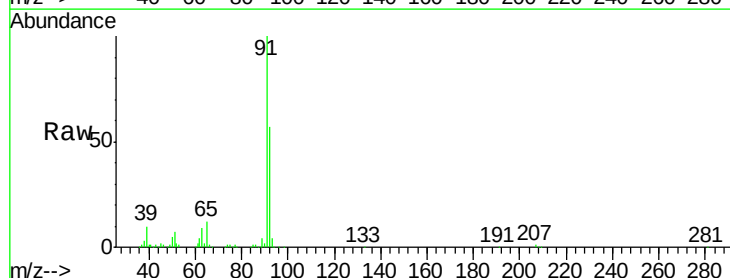
Manual Integrations
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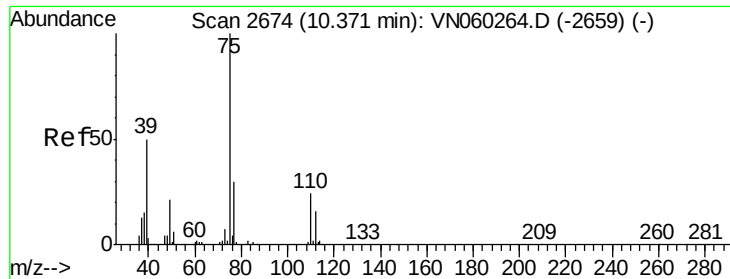
MMDadoda
3/4/2020 10:43:55 AM



#52
Toluene
Concen: 51.119 ug/l
RT: 10.14 min Scan# 2603
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.7	138.1	207.1





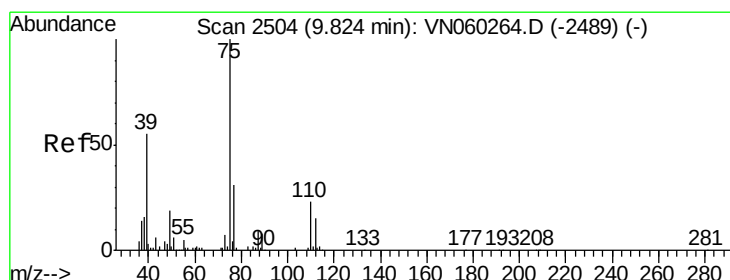
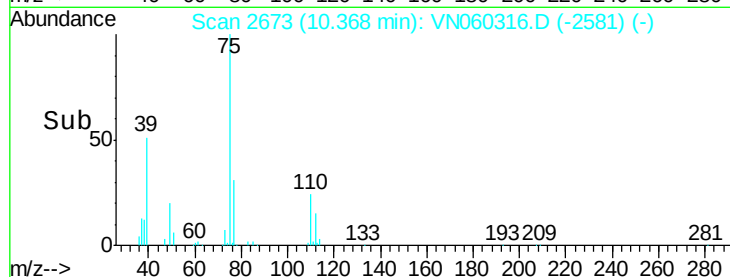
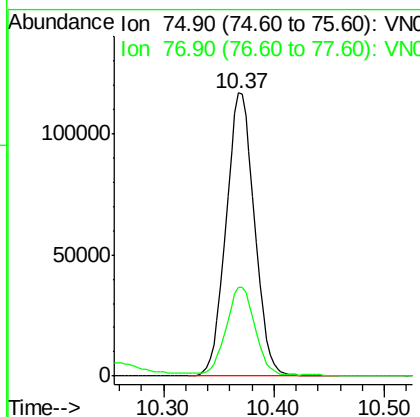
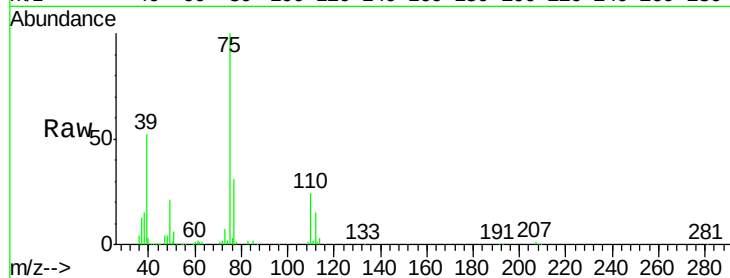
#53
t-1,3-Dichloropropene
Concen: 51.482 ug/l
RT: 10.37 min Scan# 2673
Delta R.T. -0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.1	24.8	37.2

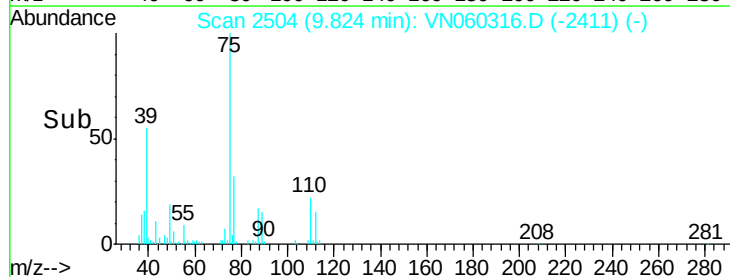
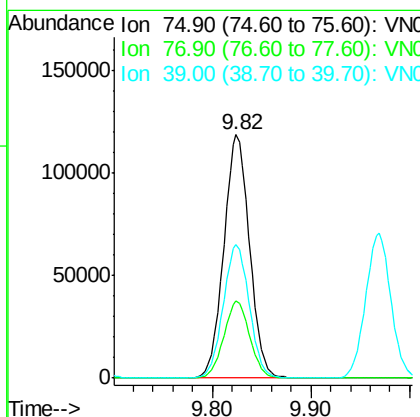
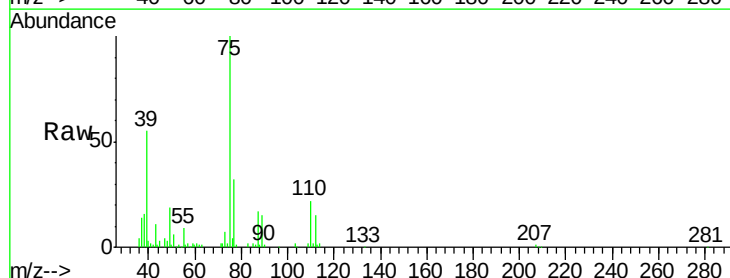
Manual Integrations
APPROVED

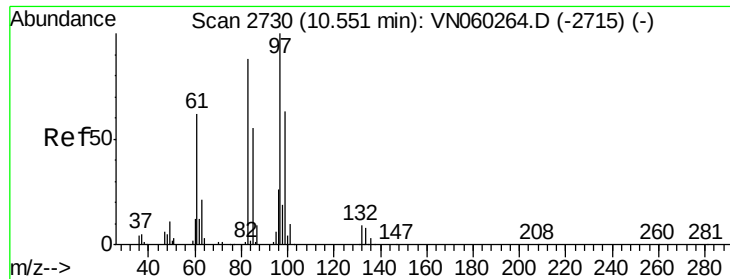
MMDadoda
3/4/2020 10:43:55 AM



#54
cis-1,3-Dichloropropene
Concen: 51.683 ug/l
RT: 9.82 min Scan# 2504
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.8	37.2
39	54.9	43.8	65.8





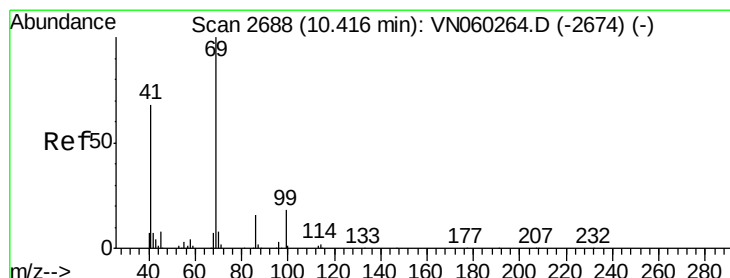
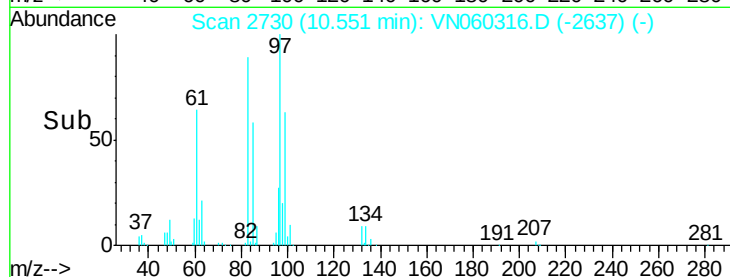
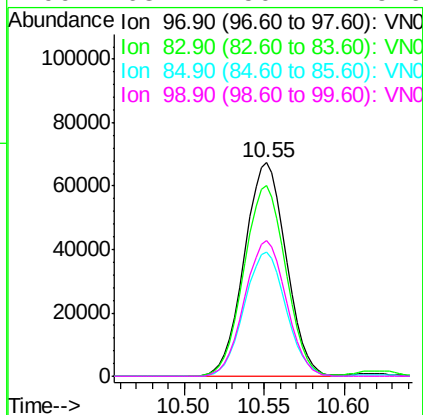
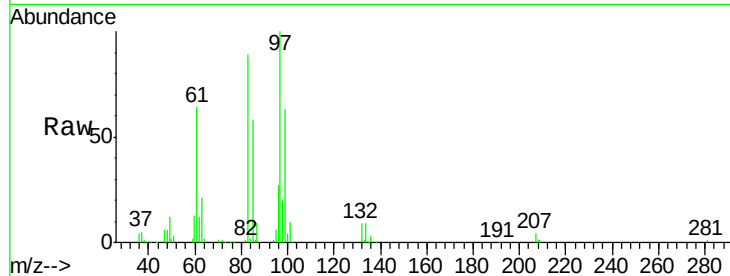
#55
 1,1,2-Trichloroethane
 Concen: 49.956 ug/l
 RT: 10.55 min Scan# 2730
 Delta R.T. 0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		120785		
83	89.2	70.0	105.0		
85	58.1	44.0	66.0		
99	63.4	50.4	75.6		

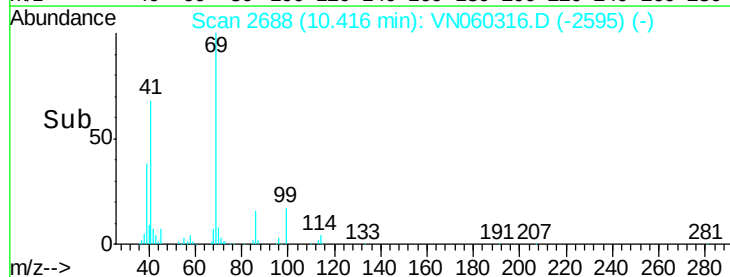
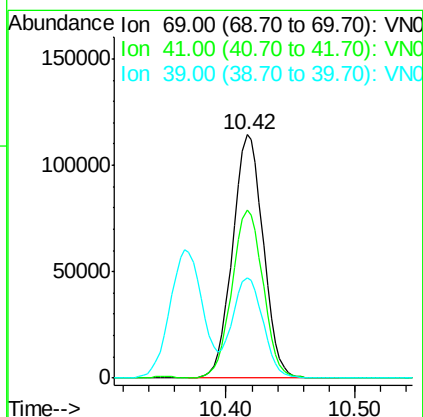
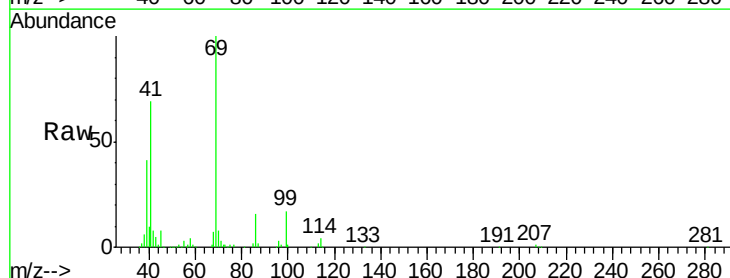
Manual Integrations
 APPROVED

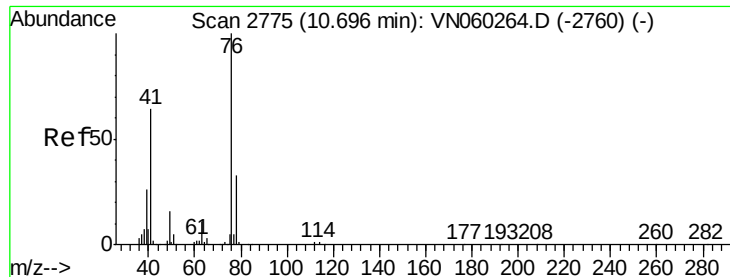
MMDadoda
 3/4/2020 10:43:55 AM



#56
 Ethyl methacrylate
 Concen: 54.568 ug/l
 RT: 10.42 min Scan# 2688
 Delta R.T. 0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		189546		
41	69.5	54.1	81.1		
39	41.6	32.5	48.7		





#57

1,3-Dichloropropane

Concen: 52.403 ug/l

RT: 10.70 min Scan# 2775

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 76 Resp: 206628

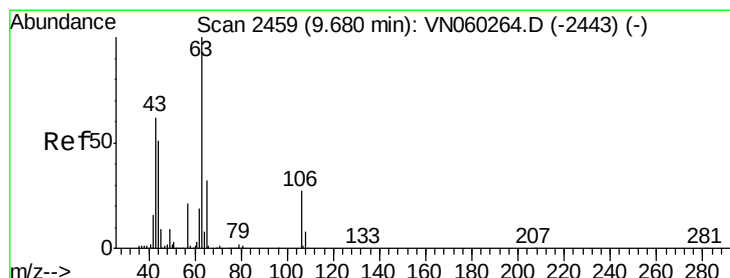
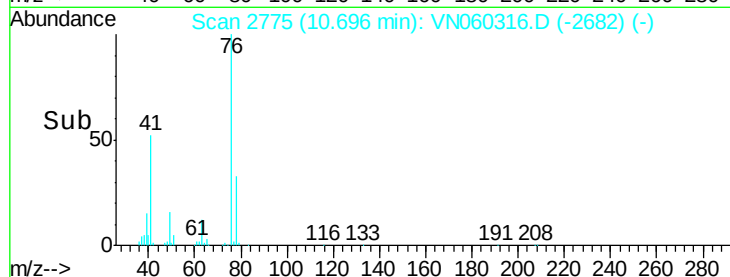
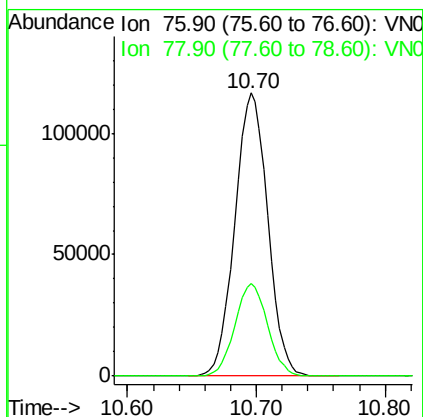
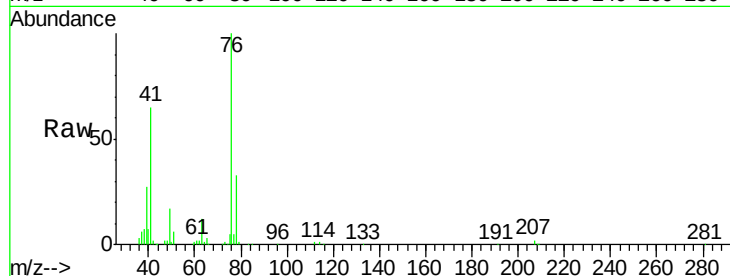
Ion Ratio Lower Upper

76 100

78 32.5 26.2 39.2

Manual Integrations
APPROVED

MMDadoda
3/4/2020 10:43:55 AM



#58

2-Chloroethyl Vinyl ether

Concen: 252.464 ug/l

RT: 9.68 min Scan# 2459

Delta R.T. 0.00 min

Lab File: VN060316.D

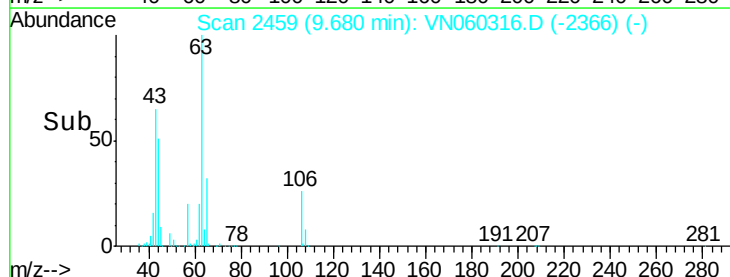
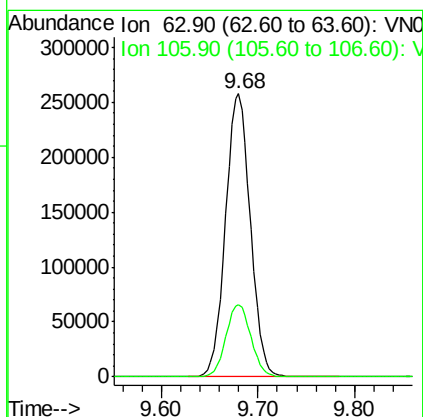
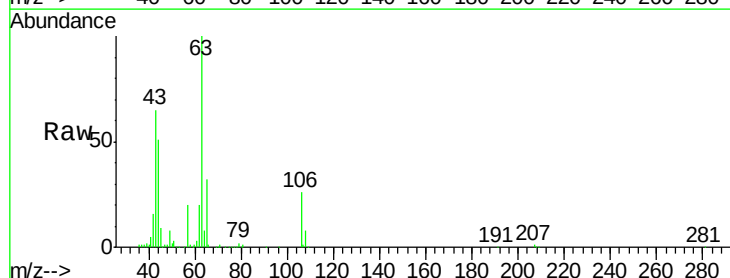
Acq: 3 Mar 2020 9:32

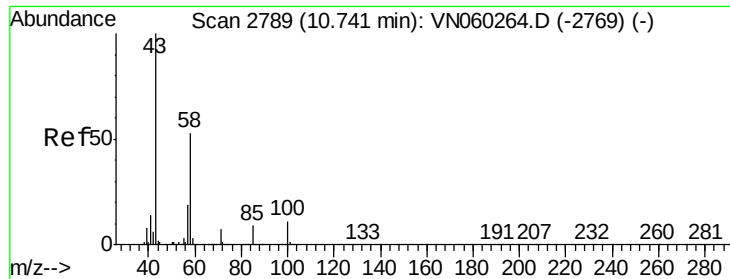
Tgt Ion: 63 Resp: 458657

Ion Ratio Lower Upper

63 100

106 25.9 21.1 31.7





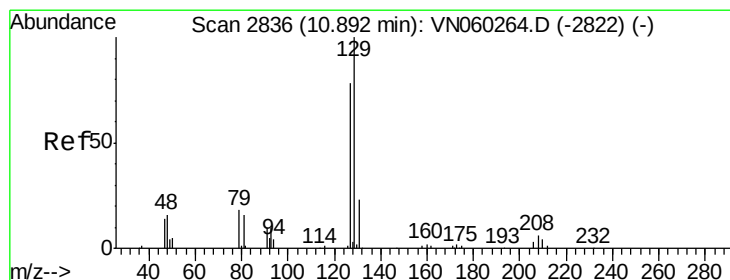
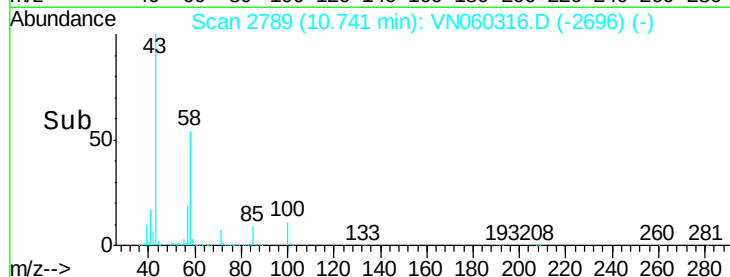
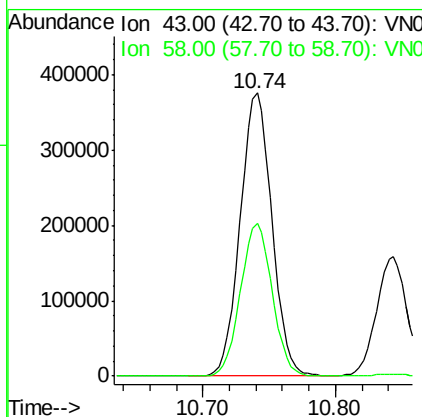
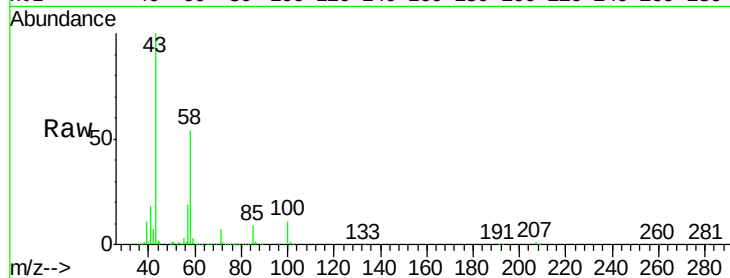
#59
2-Hexanone
Concen: 274.768 ug/l
RT: 10.74 min Scan# 2789
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.0	26.5	79.5

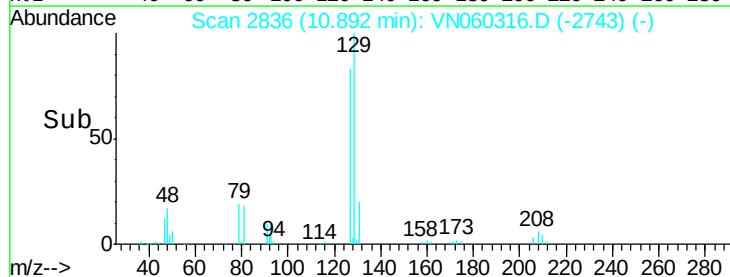
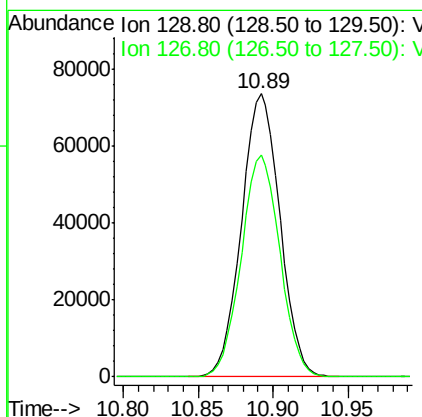
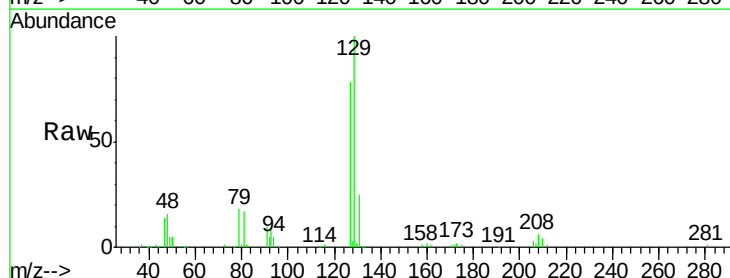
Manual Integrations
APPROVED

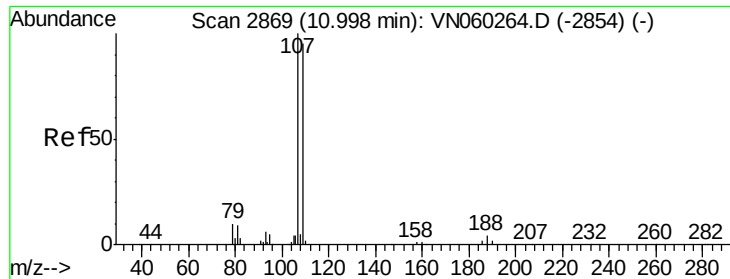
MMDadoda
3/4/2020 10:43:55 AM



#60
Dibromochloromethane
Concen: 53.735 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.7	38.9	116.7





#61

1,2-Dibromoethane

Concen: 52.996 ug/l

RT: 10.99 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 124911

Ion Ratio Lower Upper

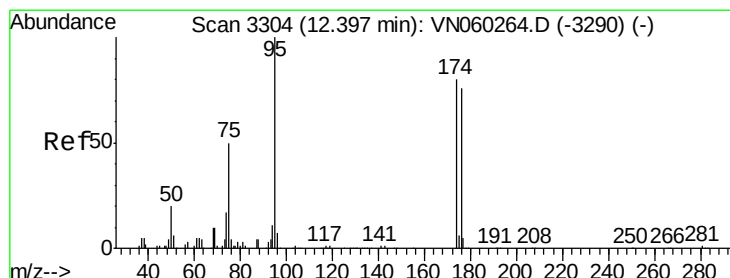
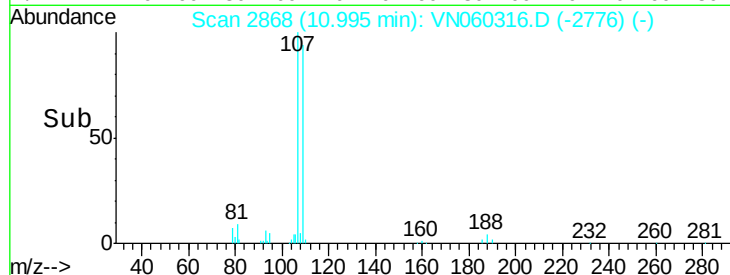
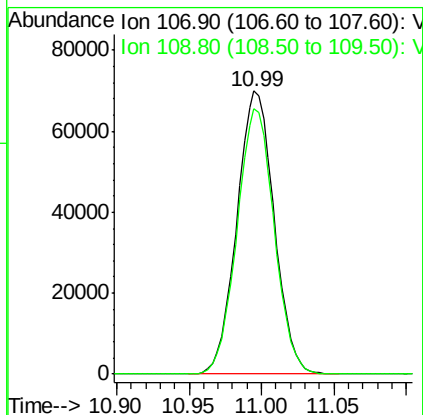
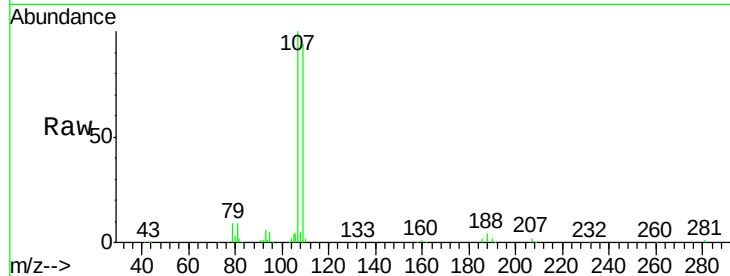
107 100

109 93.6 76.8 115.2

Manual Integrations
APPROVED

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3/4/2020 10:43:55 AM



#62

4-Bromofluorobenzene

Concen: 49.861 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

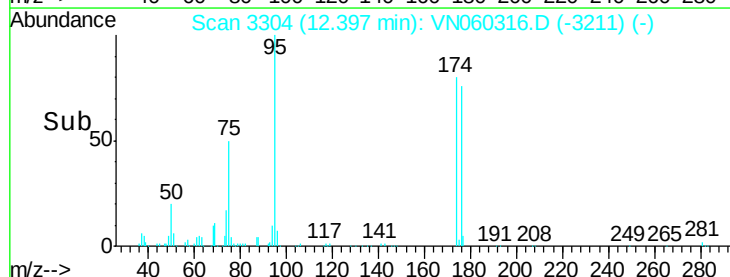
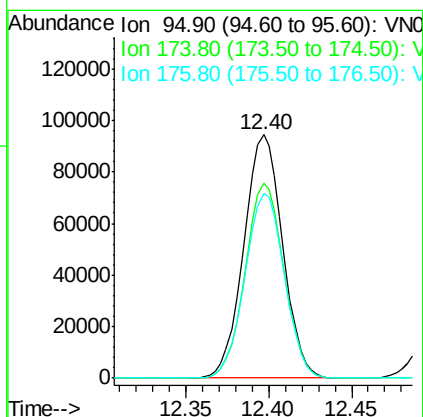
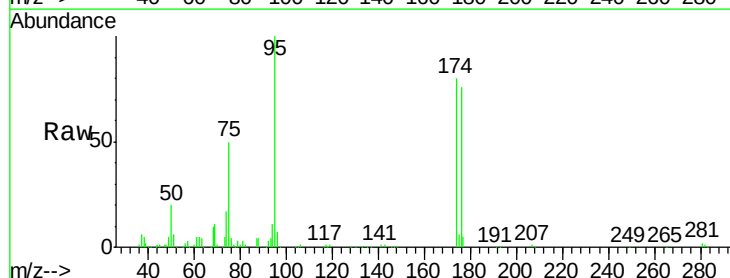
Tgt Ion: 95 Resp: 153212

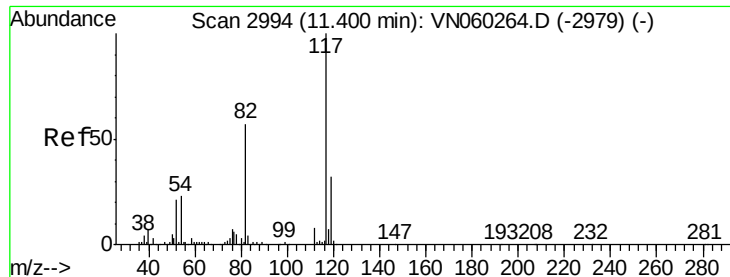
Ion Ratio Lower Upper

95 100

174 80.1 0.0 159.2

176 77.5 0.0 153.8





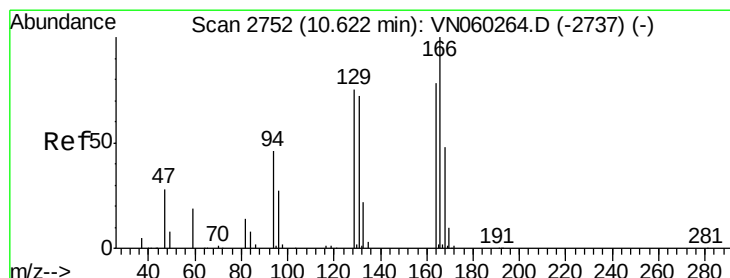
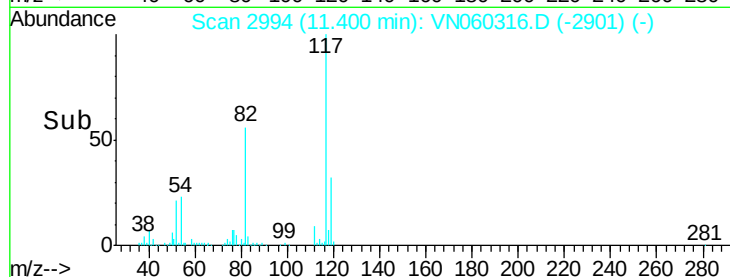
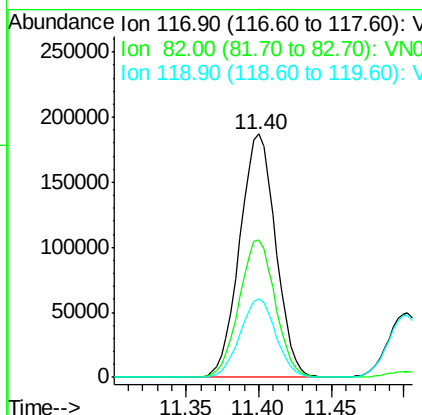
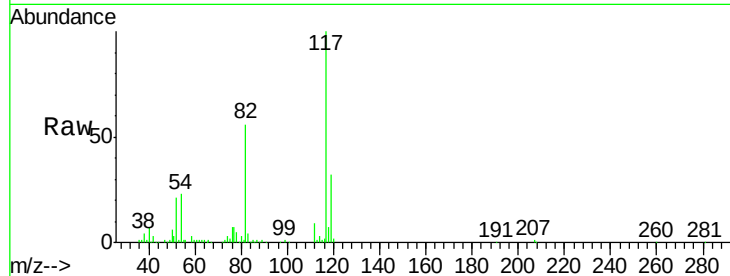
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	322511		
82	56.3		45.8	68.6
119	32.1		25.8	38.8

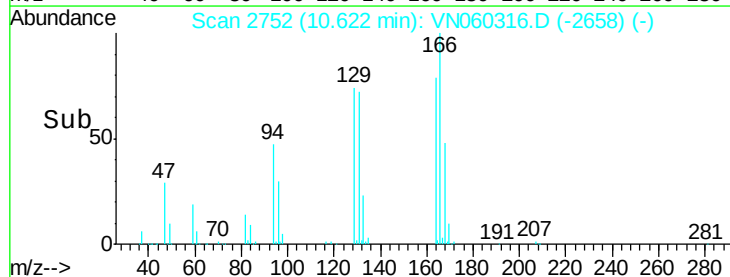
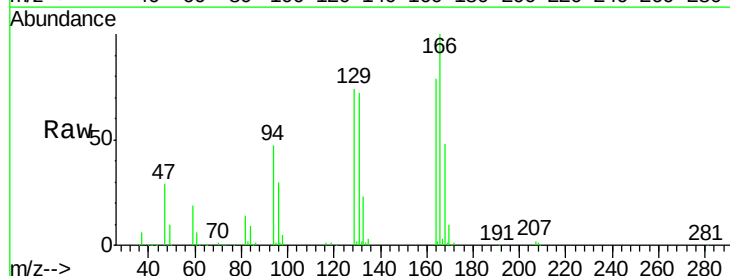
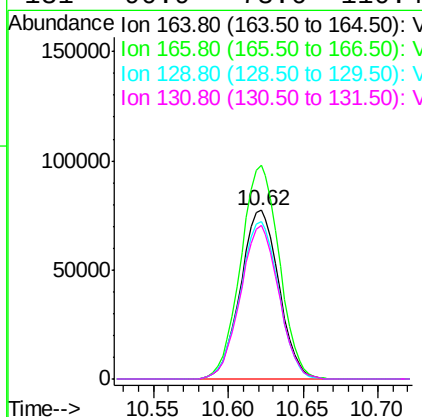
Manual Integrations
APPROVED

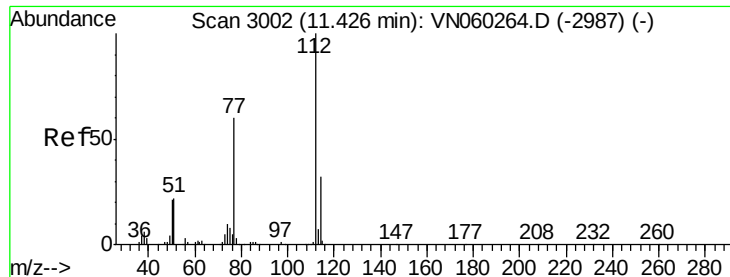
MMDadoda
3/4/2020 10:43:55 AM



#64
Tetrachloroethene
Concen: 54.548 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	138186		
166	126.6		102.0	153.0
129	93.4		76.4	114.6
131	90.9		73.6	110.4





#65

Chlorobenzene

Concen: 50.161 ug/l

RT: 11.43 min Scan# 3002

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:112 Resp: 326663

Ion Ratio Lower Upper

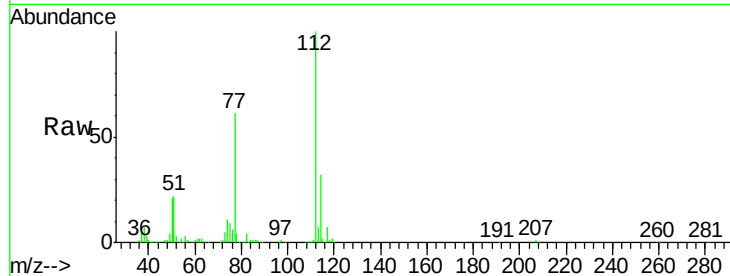
112 100

114 31.6 25.4 38.0

Manual Integrations
APPROVED

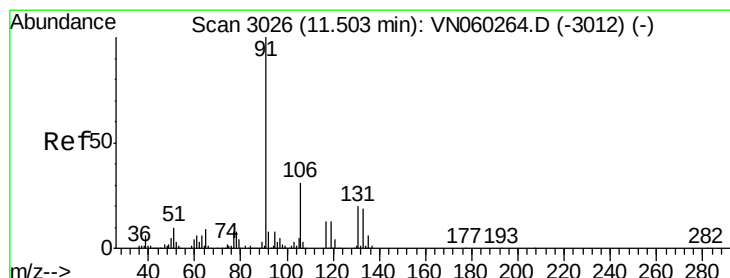
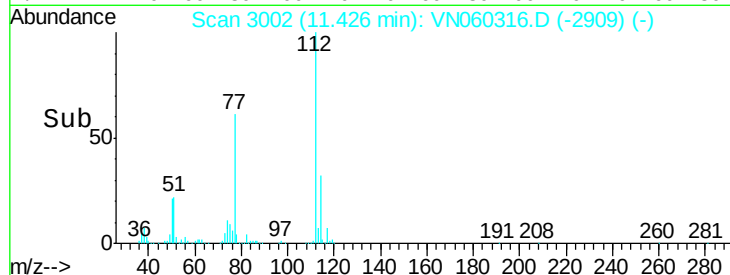
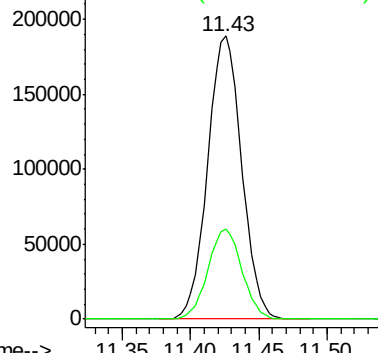
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 52.150 ug/l

RT: 11.50 min Scan# 3025

Delta R.T. -0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

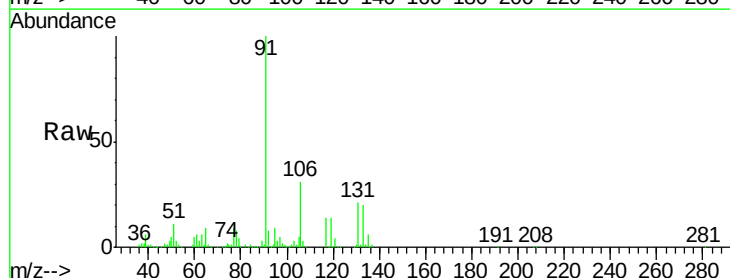
Tgt Ion:131 Resp: 125573

Ion Ratio Lower Upper

131 100

133 95.8 47.7 143.1

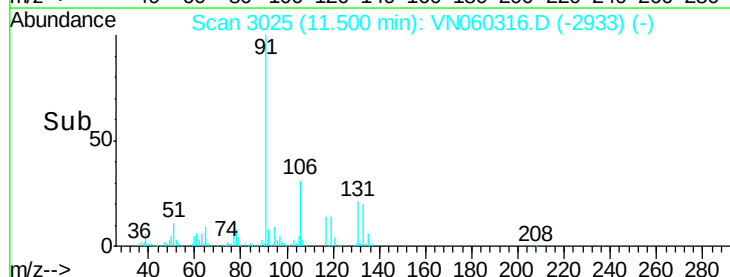
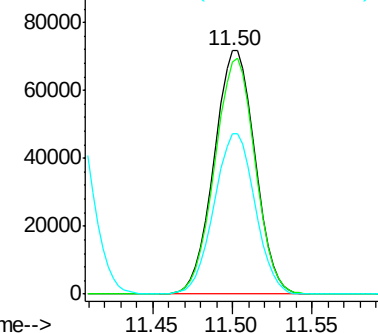
119 66.0 33.2 99.6

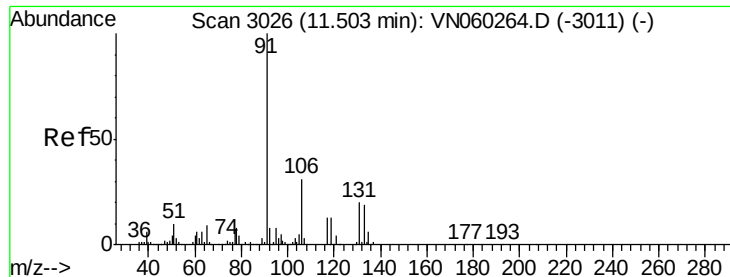


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 51.203 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 607238

Ion Ratio Lower Upper

91 100

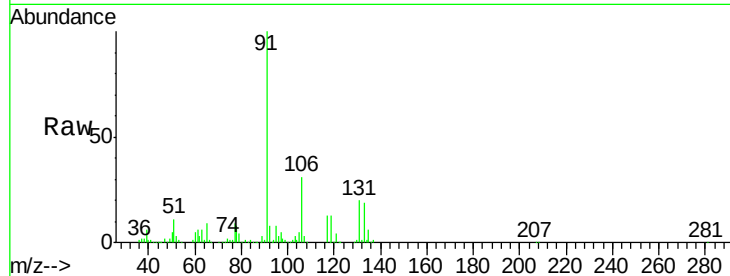
106 30.9 24.7 37.1

Manual Integrations

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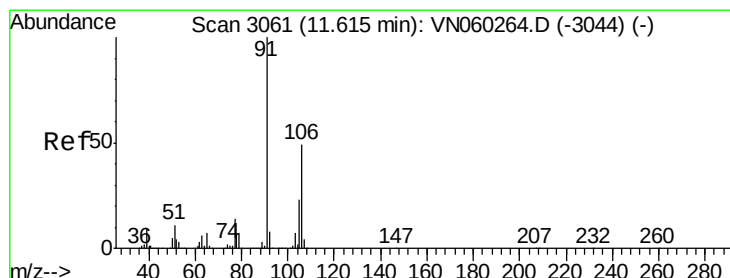
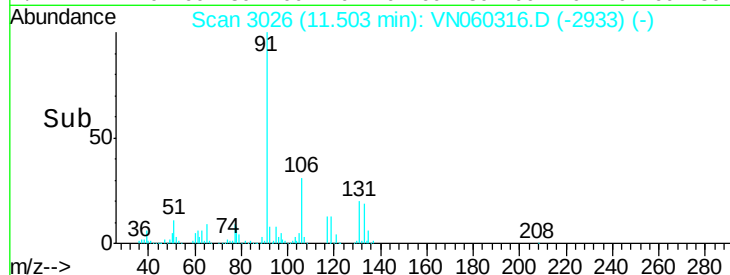
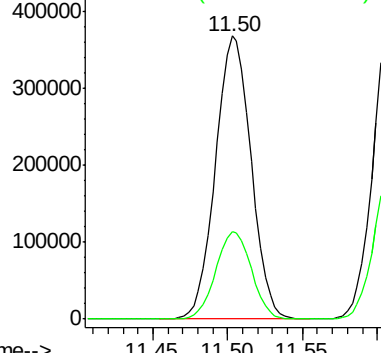
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 101.563 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. 0.00 min

Lab File: VN060316.D

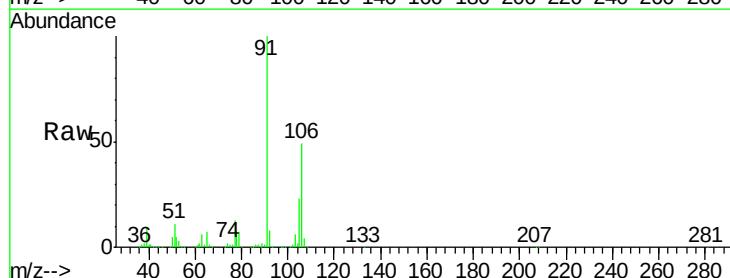
Acq: 3 Mar 2020 9:32

Tgt Ion: 106 Resp: 454443

Ion Ratio Lower Upper

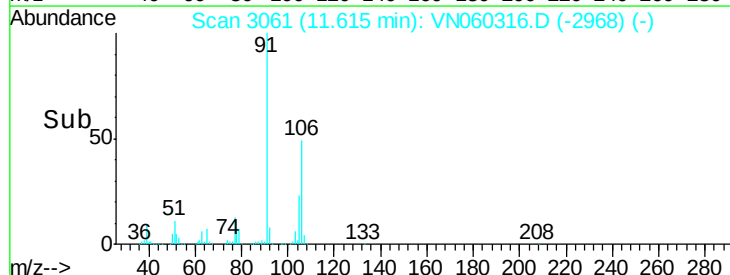
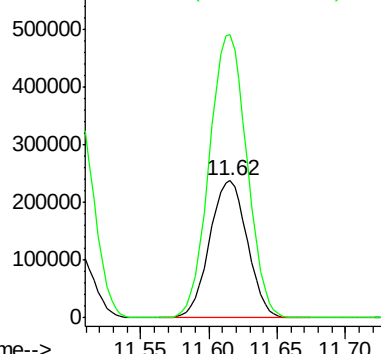
106 100

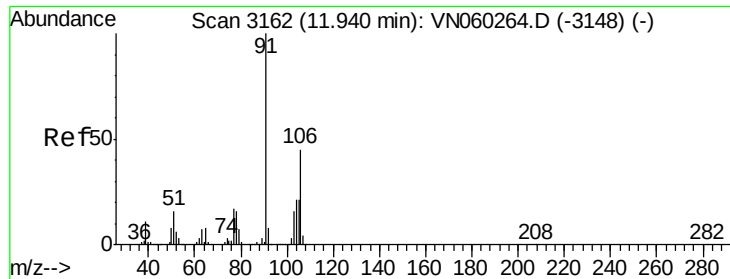
91 206.3 164.5 246.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





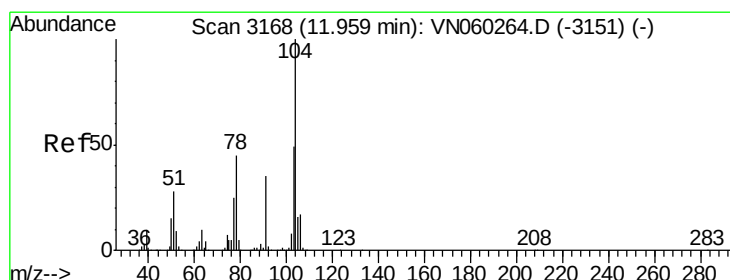
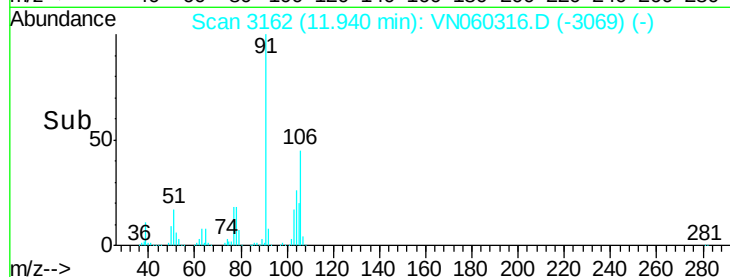
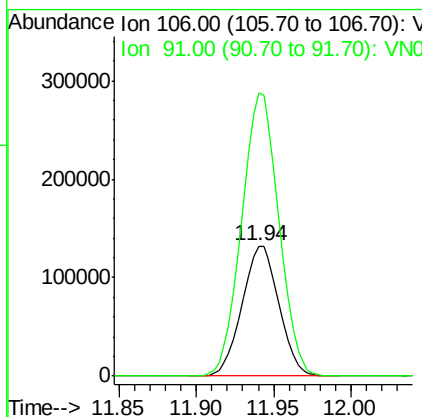
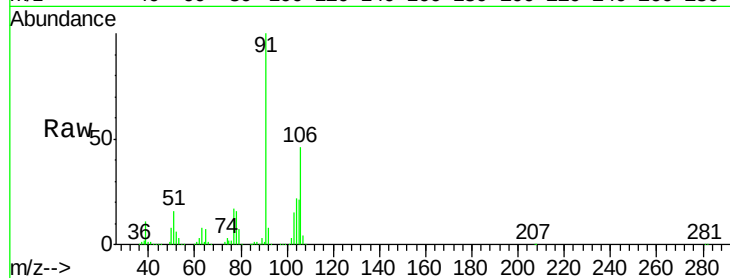
#69
o-Xylene
Concen: 51.455 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	218.9	109.5	328.4

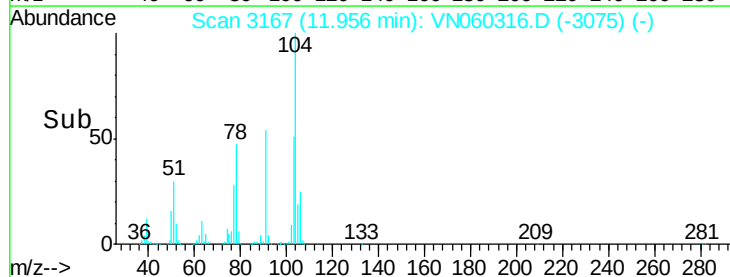
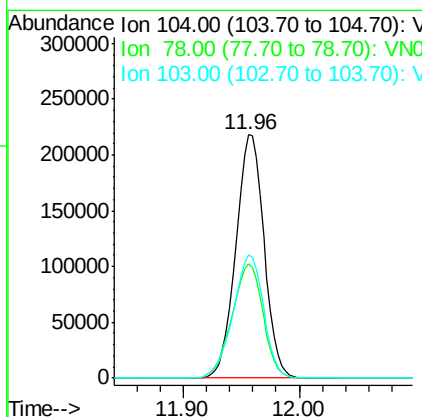
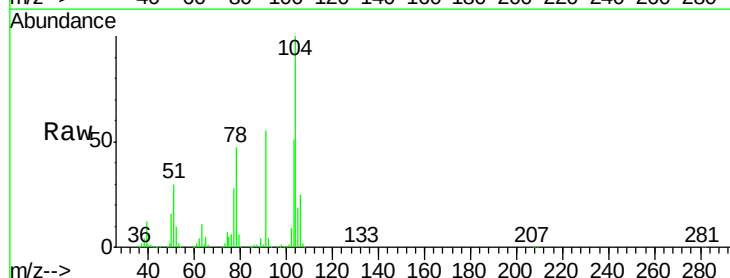
Manual Integrations
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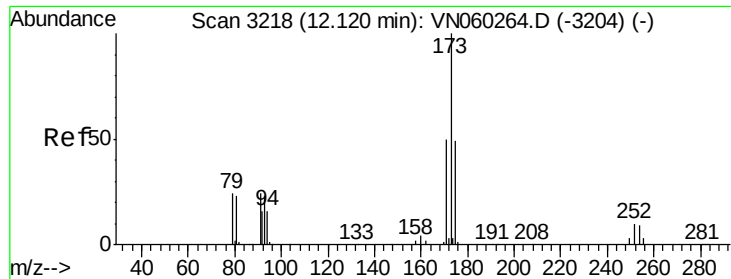
MMDadoda
3/4/2020 10:43:55 AM



#70
Styrene
Concen: 52.388 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. -0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
104	100		
78	51.7	41.2	61.8
103	54.5	43.9	65.9





#71

Bromoform

Concen: 55.422 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:173 Resp: 96178

Ion Ratio Lower Upper

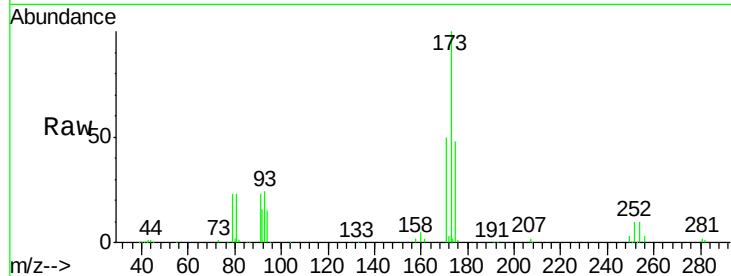
173 100

175 48.1 24.1 72.2

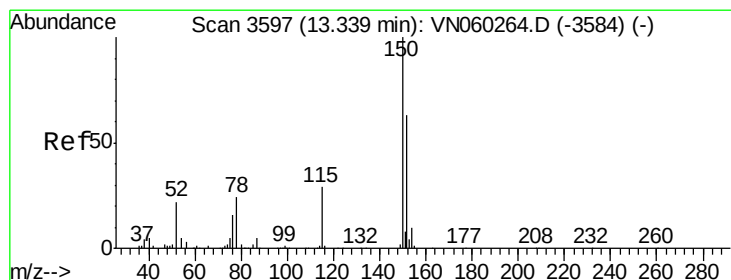
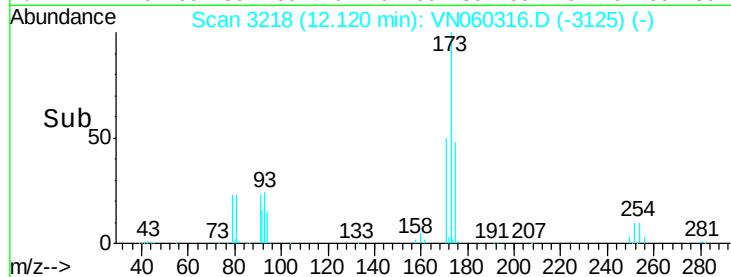
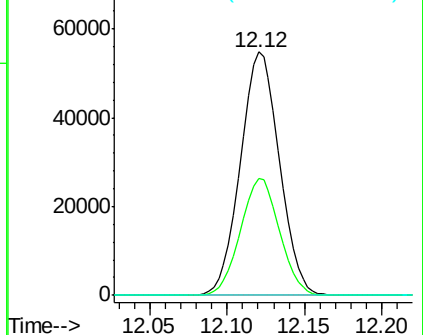
254 0.0 0.0 0.0

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

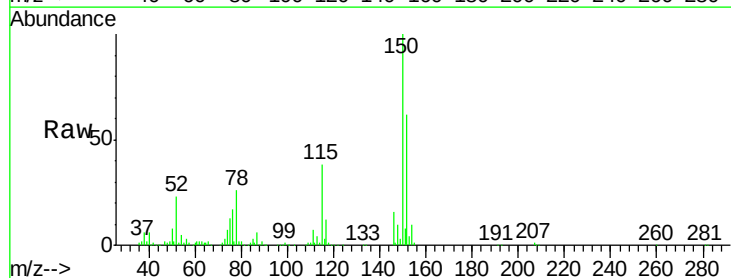
Tgt Ion:152 Resp: 159577

Ion Ratio Lower Upper

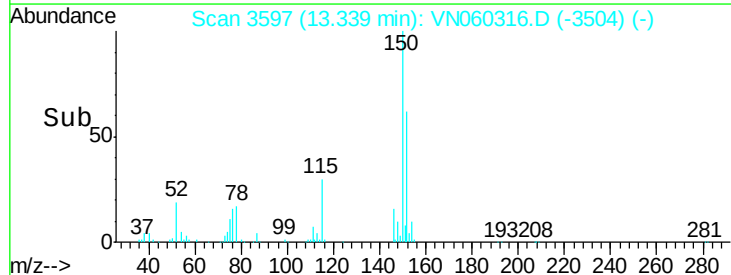
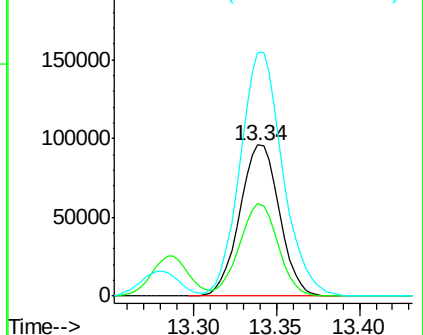
152 100

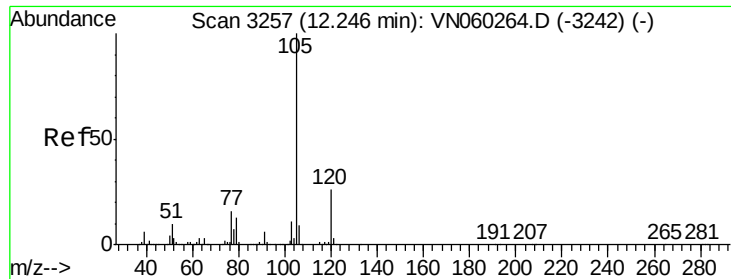
115 59.7 30.0 90.0

150 173.4 0.0 349.6



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





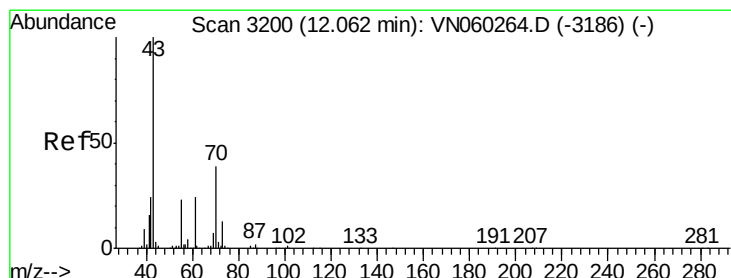
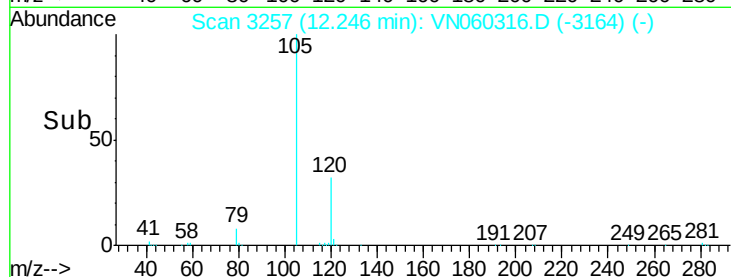
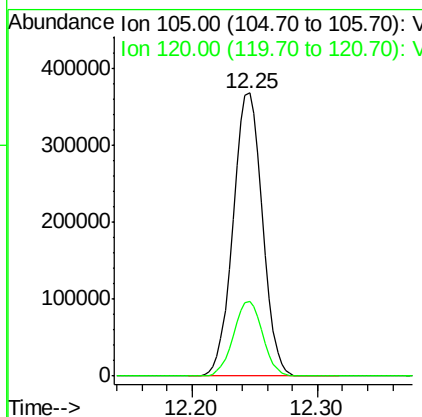
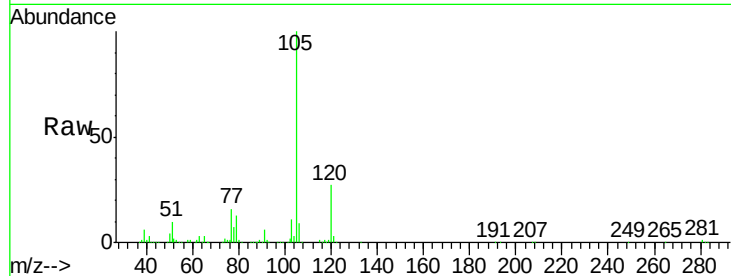
#73
Isopropylbenzene
Concen: 50.598 ug/l
RT: 12.25 min Scan# 3257
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.0	38.9

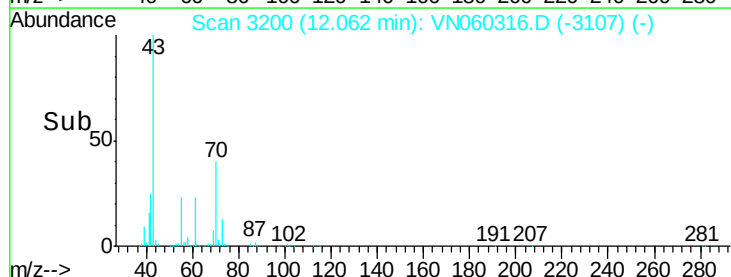
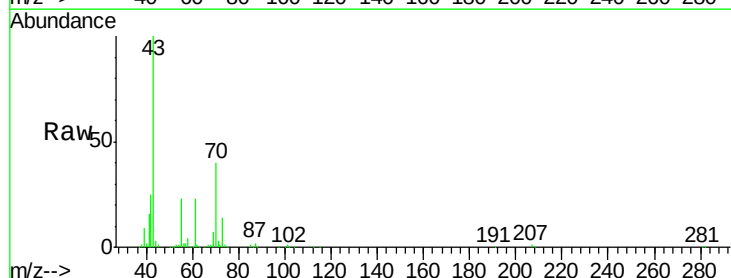
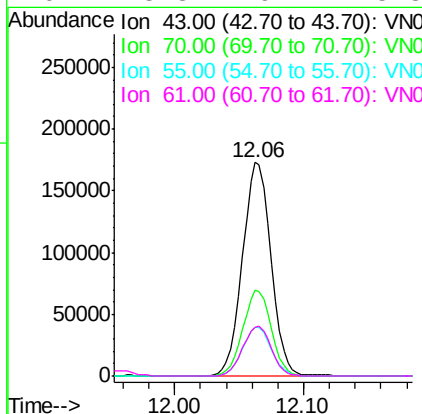
Manual Integrations
APPROVED

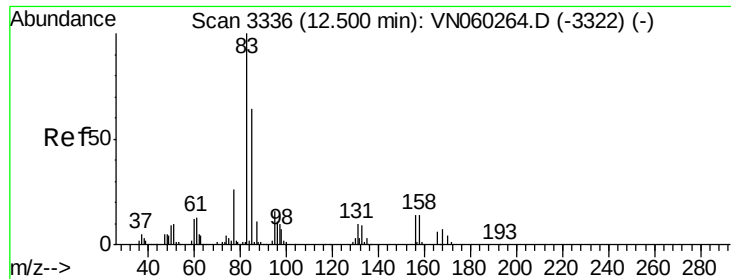
MMDadoda
3/4/2020 10:43:55 AM



#74
N-ethyl acetate
Concen: 51.540 ug/l
RT: 12.06 min Scan# 3200
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
43	100		
70	39.8	32.2	48.2
55	23.0	18.2	27.4
61	23.3	19.2	28.8





#75

1,1,2,2-Tetrachloroethane

Concen: 52.325 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

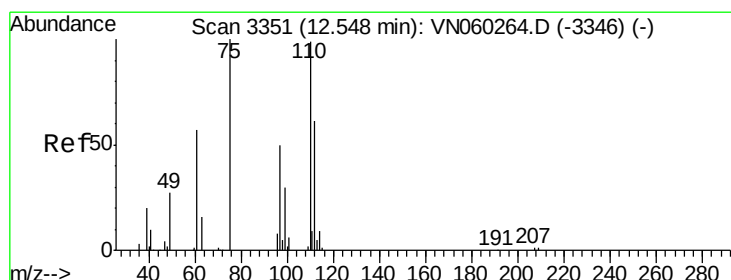
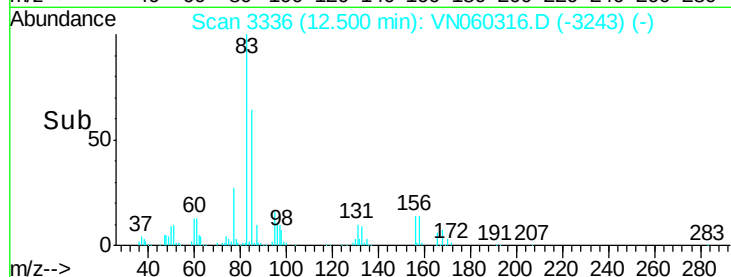
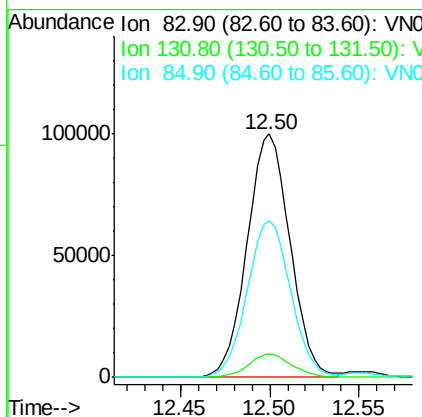
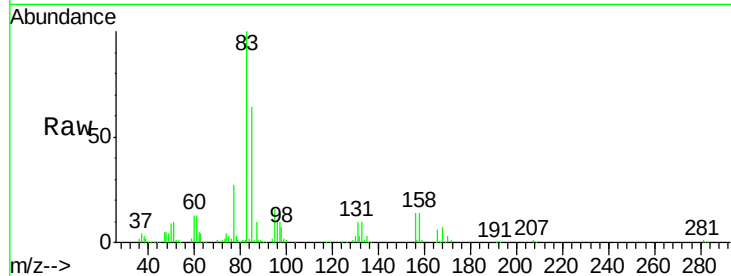
ClientSampled :

VSTDCCC050

Tot Ion:	83	Resp:	168229
Ion Ratio	Lower	Upper	
83	100		
131	9.7	5.1	15.3
85	65.0	32.3	96.8

Manual Integrations
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3/4/2020 10:43:55 AM



#76

1,2,3-Trichloropropane

Concen: 46.119 ug/l m

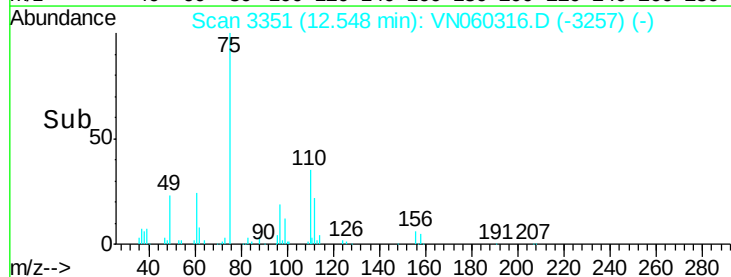
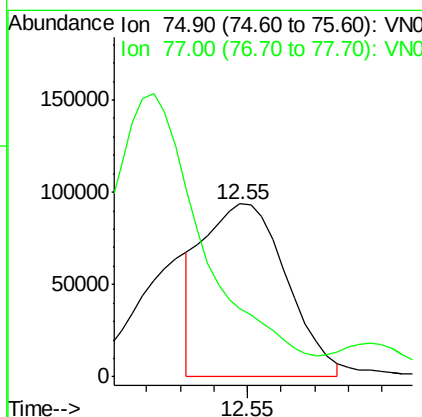
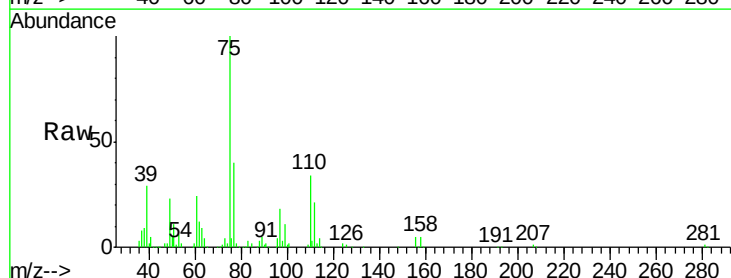
RT: 12.55 min Scan# 3351

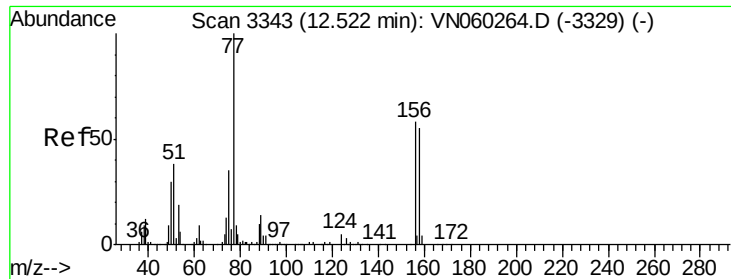
Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Tgt Ion:	75	Resp:	161470
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 49.820 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

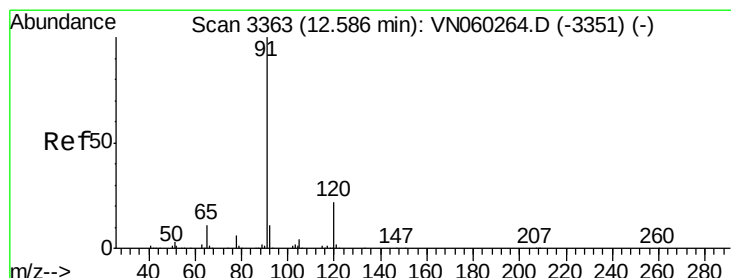
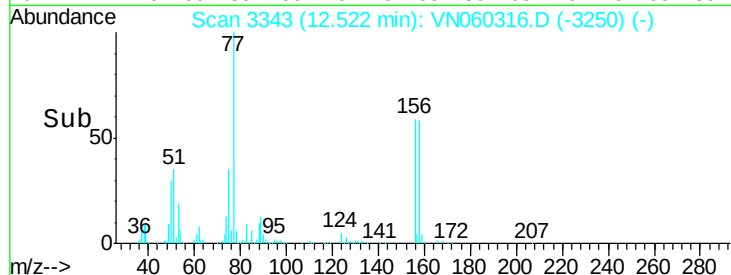
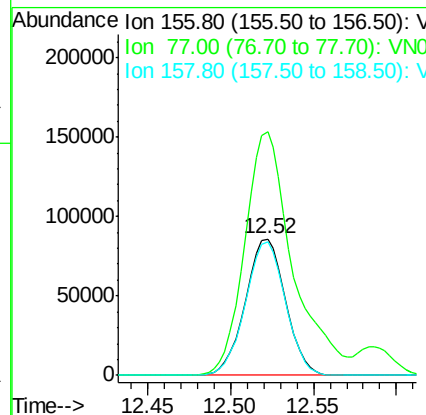
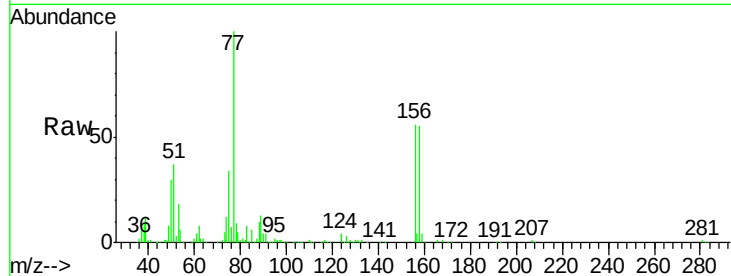
ClientSampled :

VSTDCCC050

Tot Ion:	156	Resp:	144441
Ion Ratio	Lower	Upper	
156	100		
77	214.1	106.1	318.3
158	97.5	48.3	144.8

Manual Integrations
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#78

n-propylbenzene

Concen: 51.058 ug/l

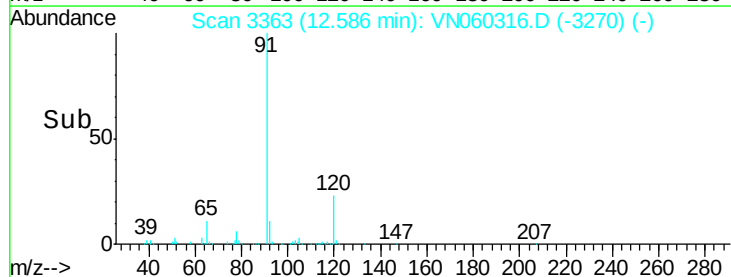
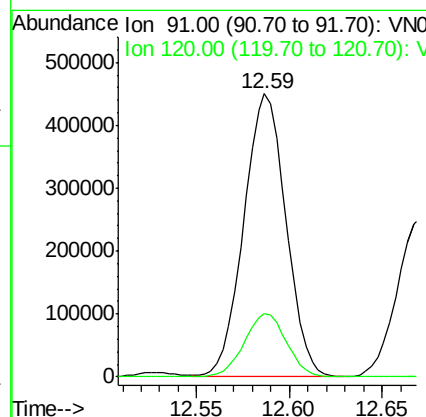
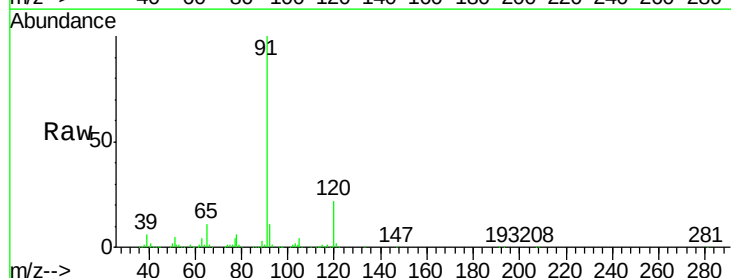
RT: 12.59 min Scan# 3363

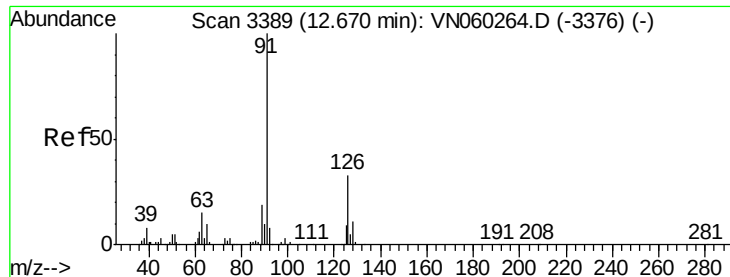
Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Tgt Ion:	91	Resp:	707884
Ion Ratio	Lower	Upper	
91	100		
120	22.3	11.3	33.9





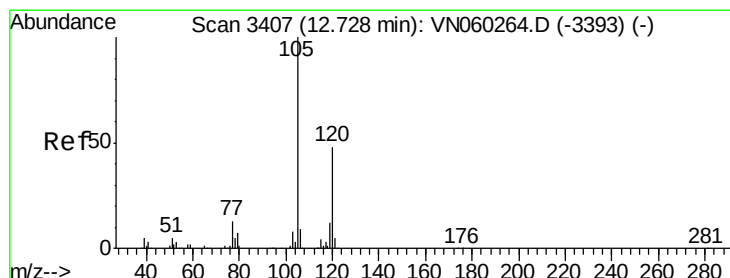
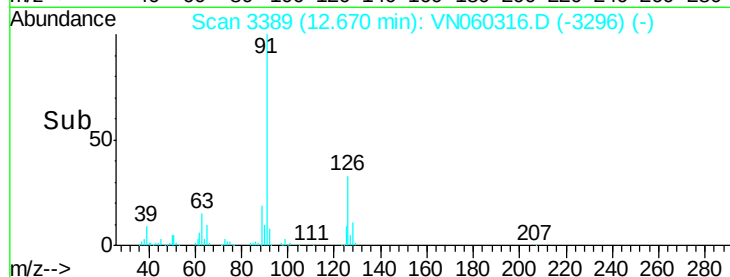
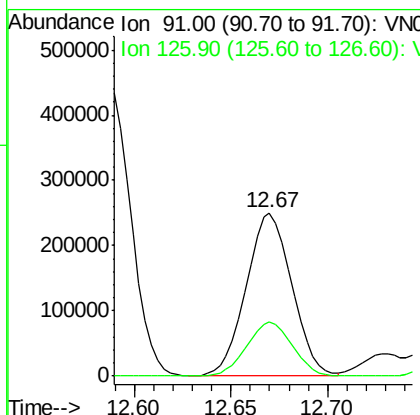
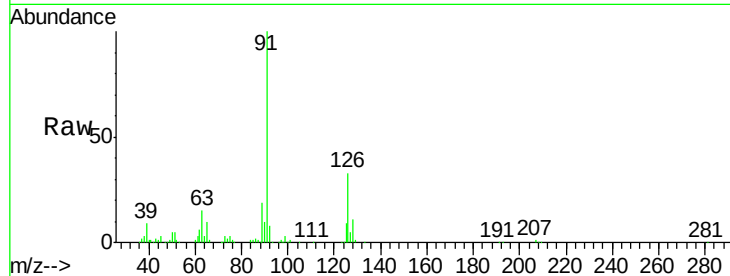
#79
 2-Chlorotoluene
 Concen: 50.390 ug/l
 RT: 12.67 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 91 Resp: 410659
 Ion Ratio Lower Upper
 91 100
 126 33.3 16.6 49.8

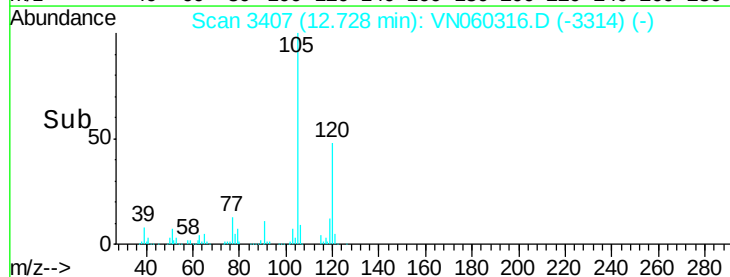
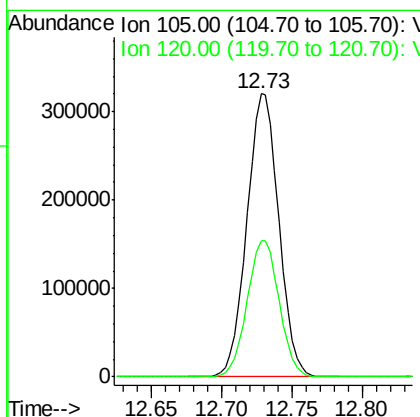
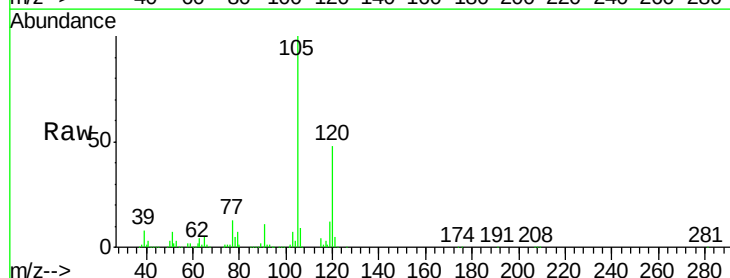
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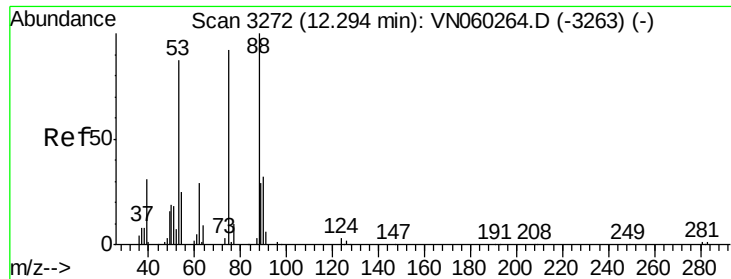
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#80
 1,3,5-Trimethylbenzene
 Concen: 50.884 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. 0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Tgt Ion: 105 Resp: 506716
 Ion Ratio Lower Upper
 105 100
 120 48.4 24.1 72.4





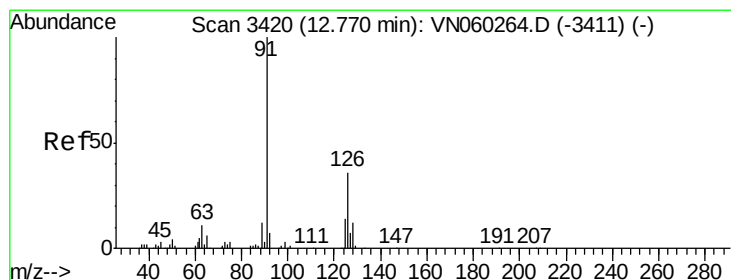
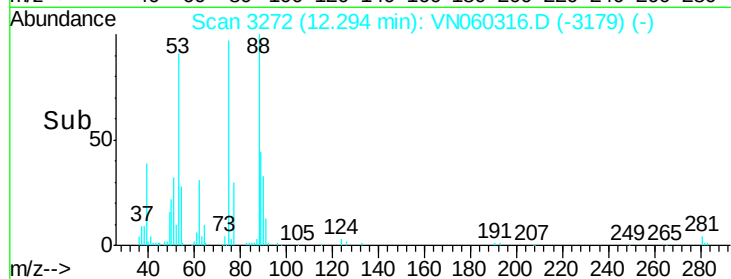
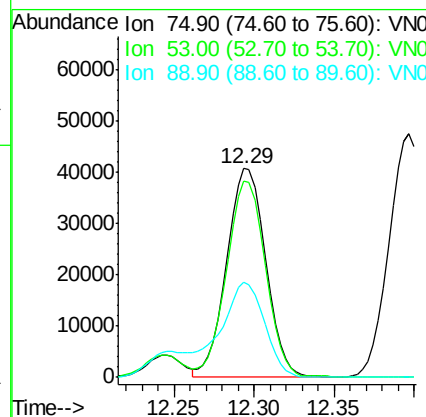
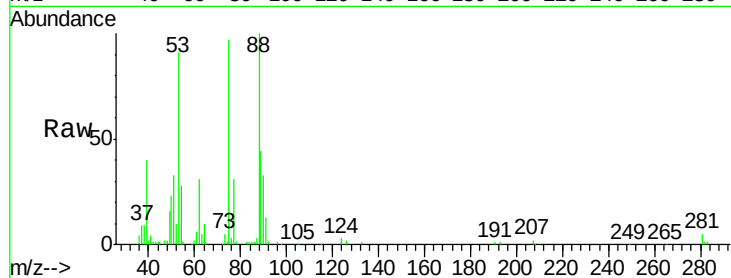
#81
trans-1,4-Dichloro-2-butene
Concen: 53.677 ug/l
RT: 12.29 min Scan# 3272
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	93.5	73.8	110.6
89	49.7	57.1	85.7#

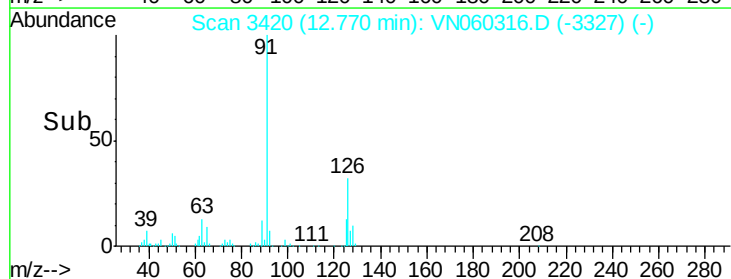
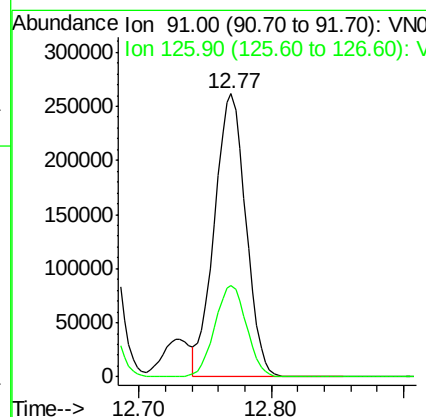
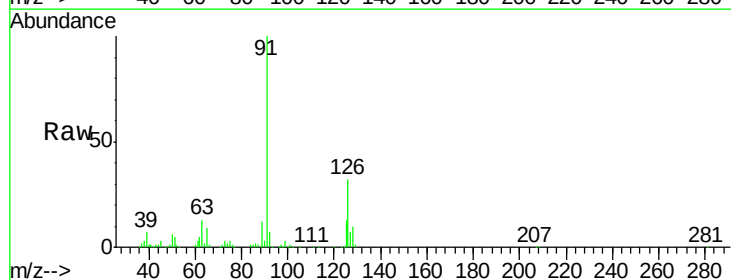
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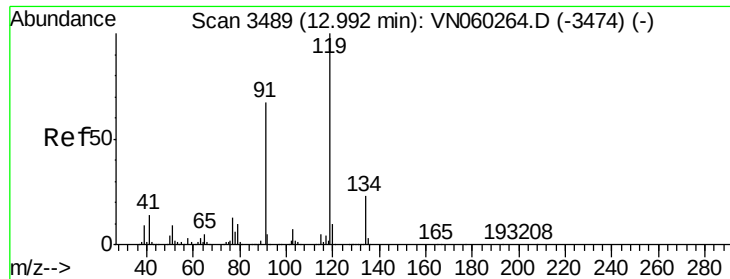
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#82
4-Chlorotoluene
Concen: 50.081 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.7	50.1





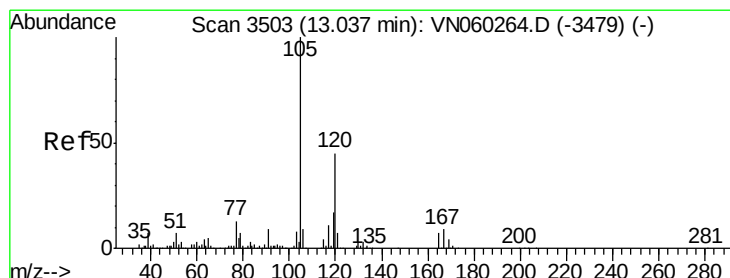
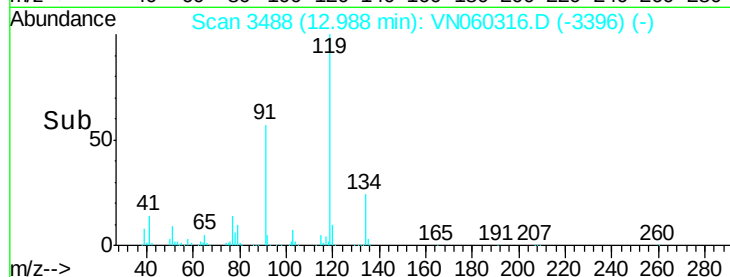
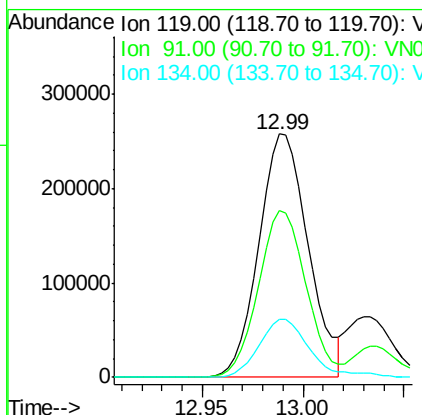
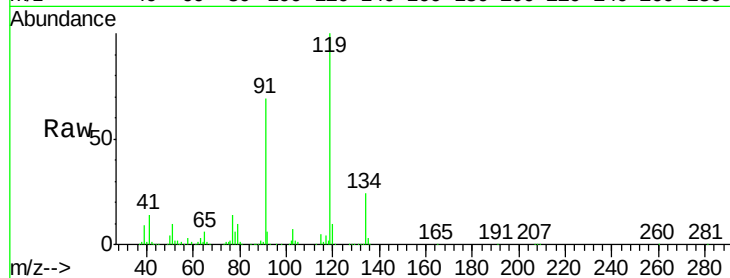
#83
 tert-Butylbenzene
 Concen: 51.026 ug/l
 RT: 12.99 min Scan# 3488
 Delta R.T. -0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.0	33.1	99.2
134	24.8	12.4	37.0

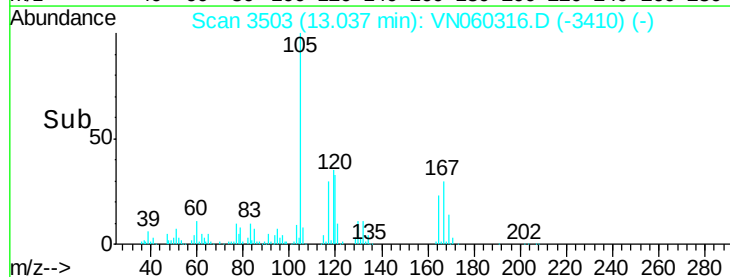
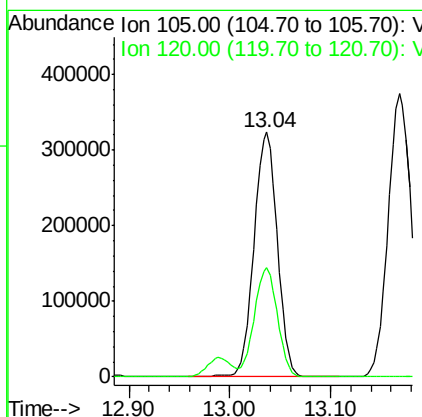
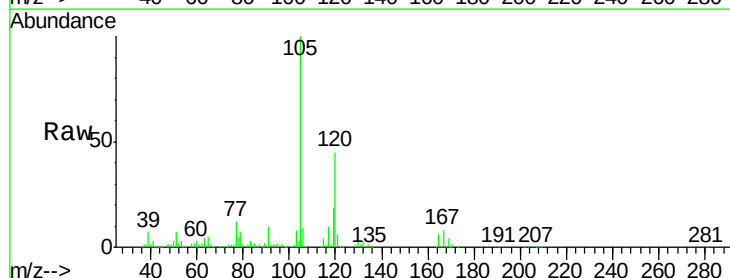
Manual Integrations
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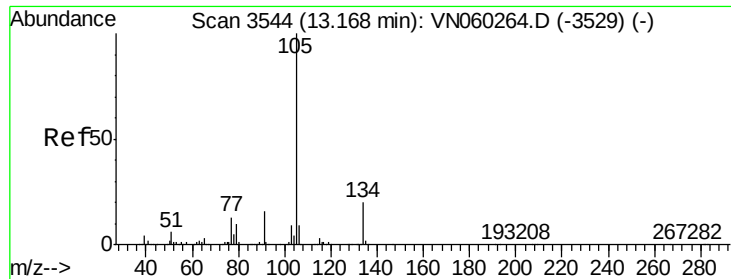
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#84
 1,2,4-Trimethylbenzene
 Concen: 51.220 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. 0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.3	66.9





#85

sec-Butylbenzene

Concen: 51.444 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

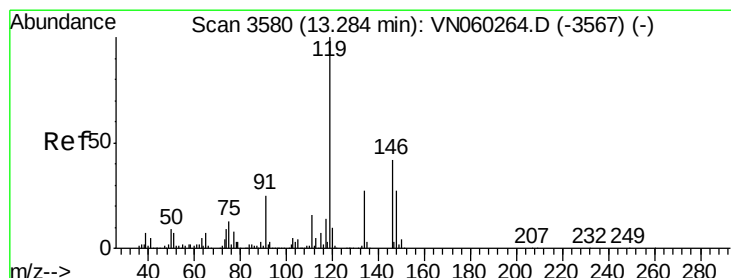
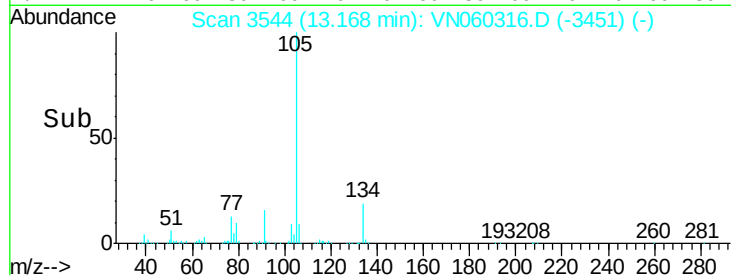
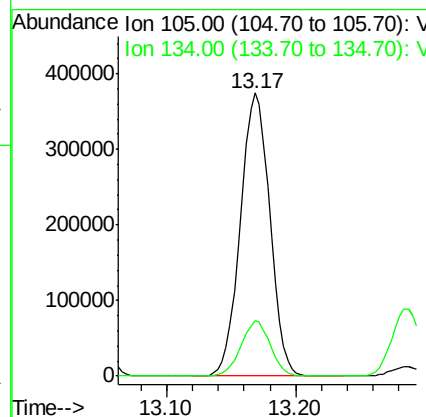
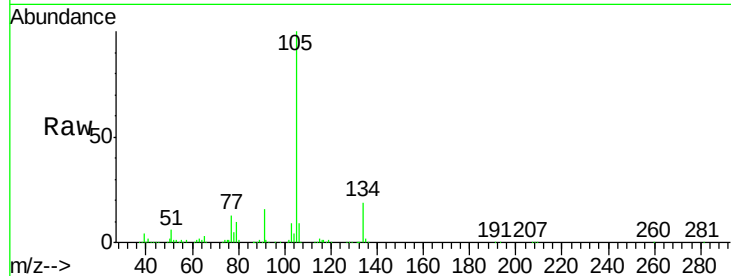
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
105	100	593964		
134	19.4	9.8	29.5	

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#86

p-Isopropyltoluene

Concen: 50.380 ug/l

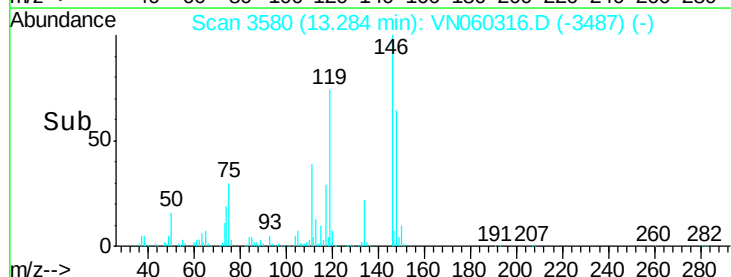
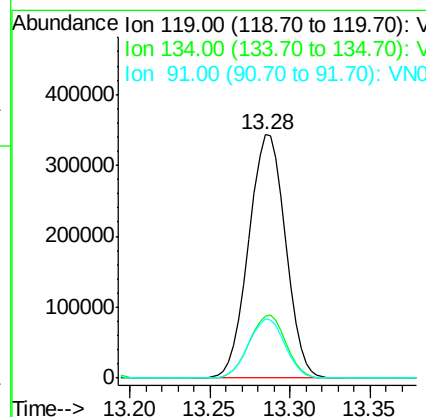
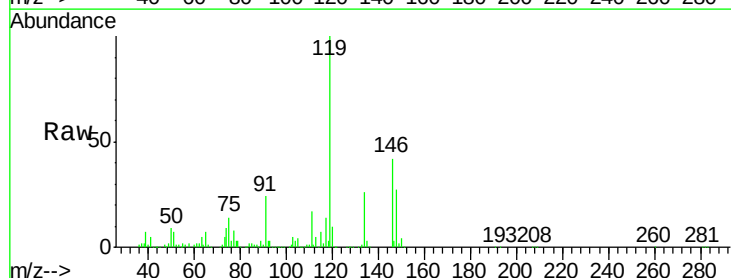
RT: 13.28 min Scan# 3580

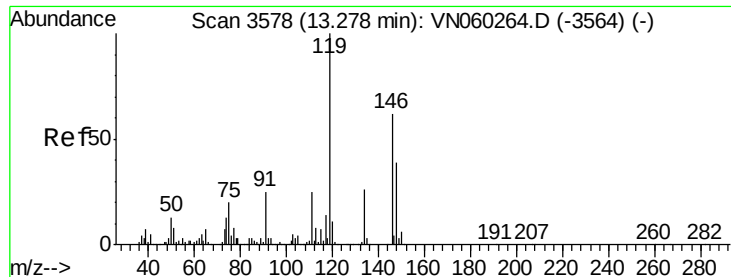
Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	538377		
134	25.8	13.2	39.6	
91	24.2	12.2	36.6	





#87

1,3-Dichlorobenzene

Concen: 52.895 ug/l

RT: 13.28 min Scan# 3578

Delta R.T. 0.00 min

Lab File: VN060316.D

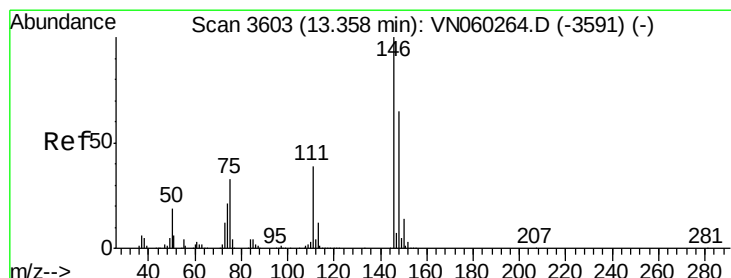
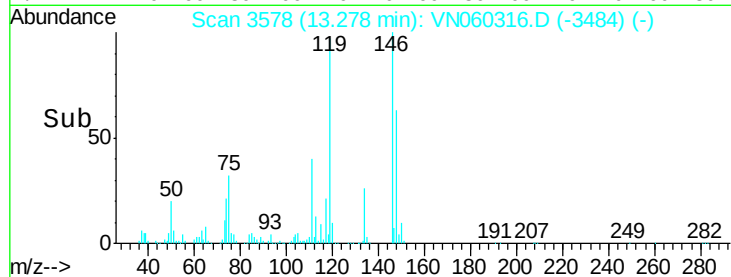
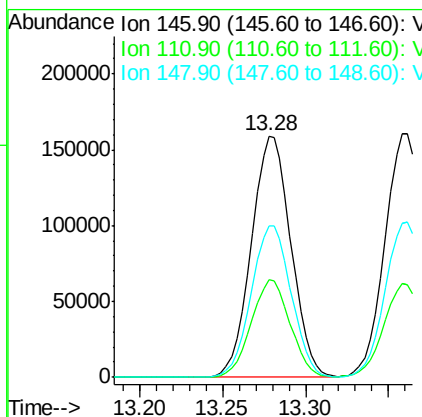
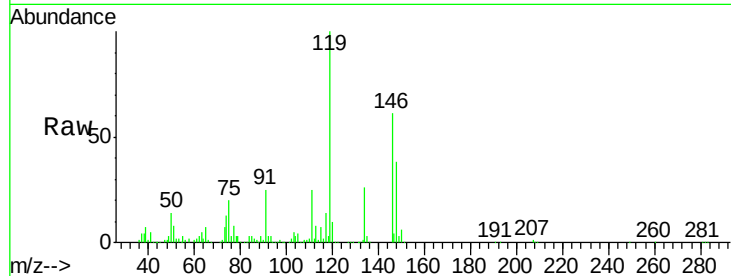
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.0	59.9
148	63.5	32.1	96.3

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 53.221 ug/l

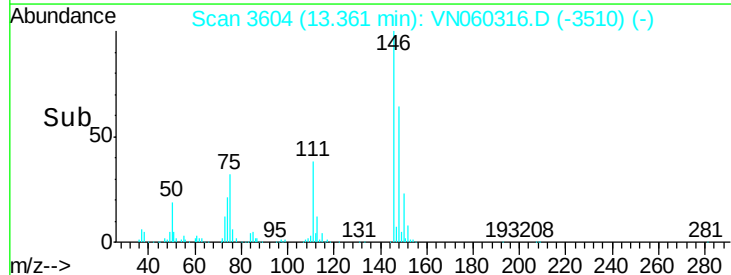
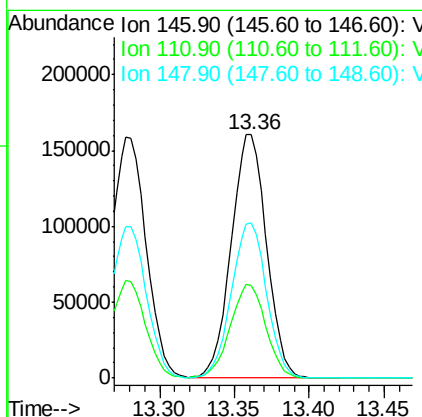
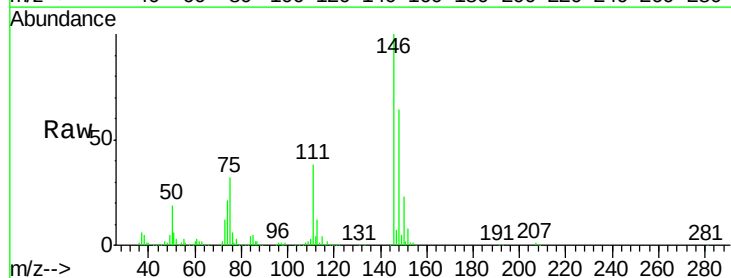
RT: 13.36 min Scan# 3604

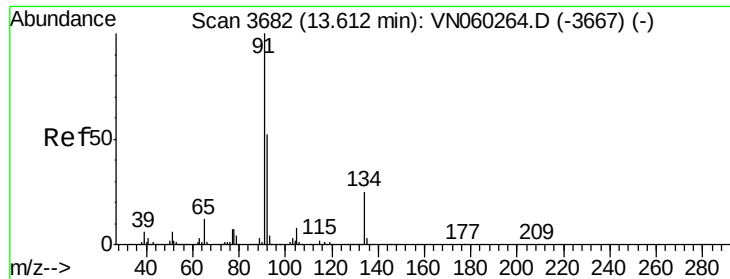
Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.8	59.4
148	63.6	32.3	96.9





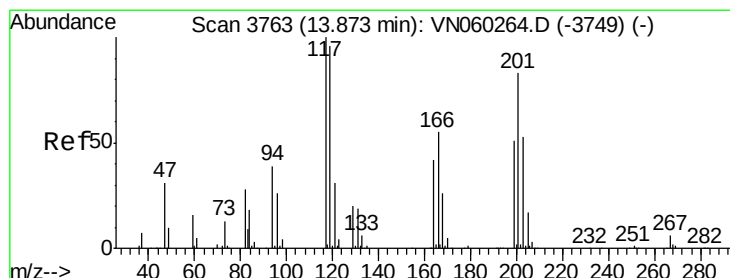
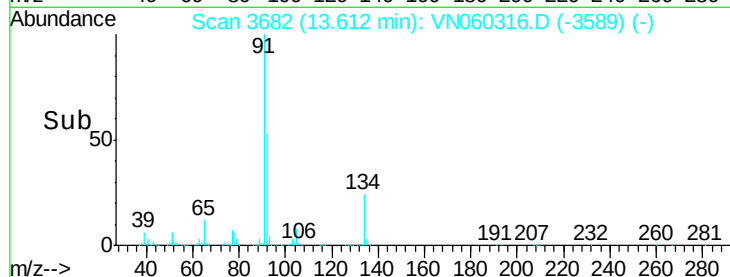
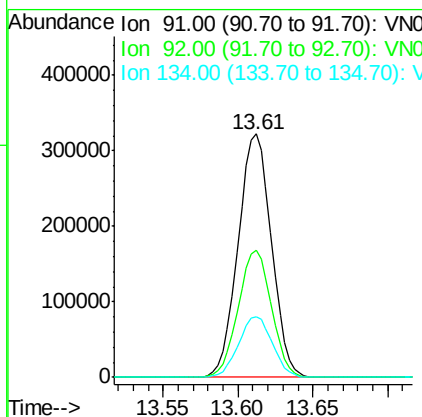
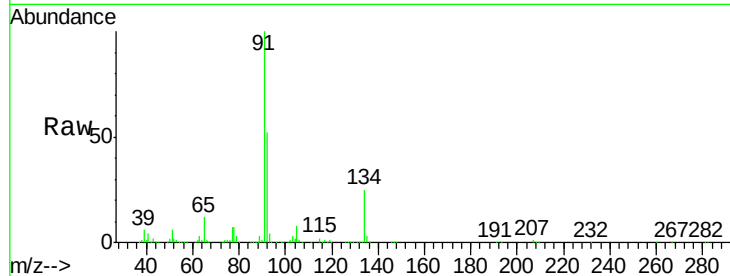
#89
n-Butylbenzene
Concen: 50.990 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.0	78.0
134	25.1	12.7	38.1

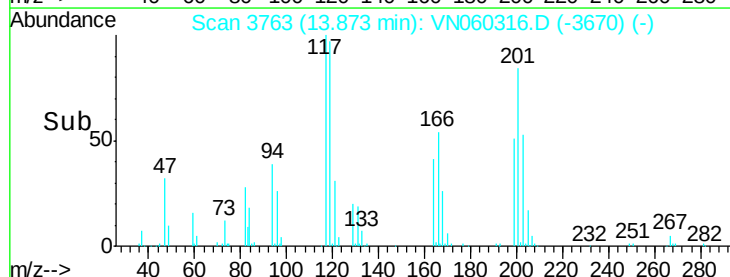
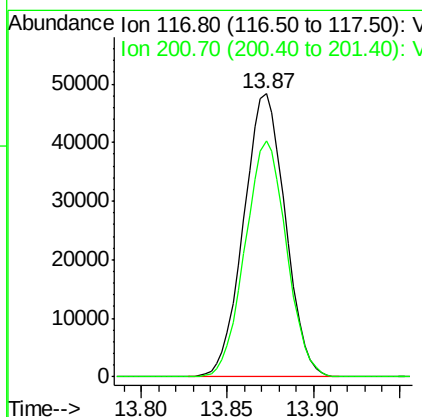
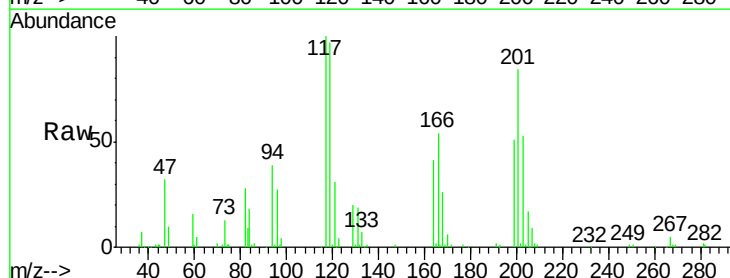
Manual Integrations
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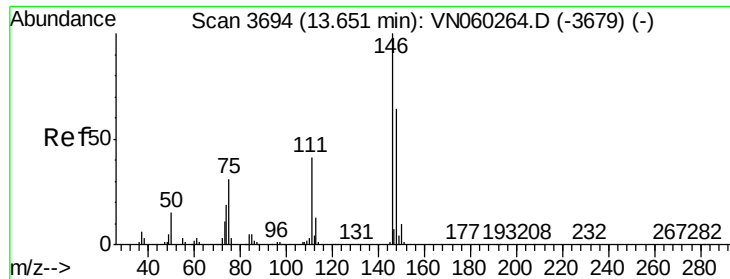
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#90
Hexachloroethane
Concen: 52.564 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN060316.D
Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.6	41.0	123.0





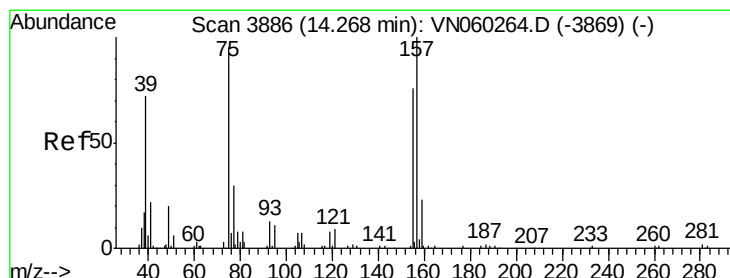
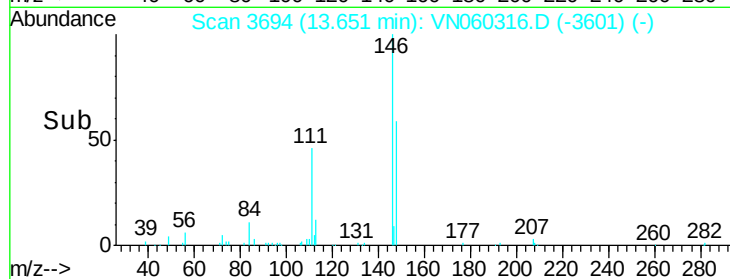
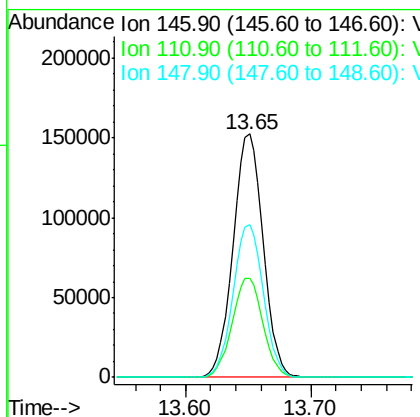
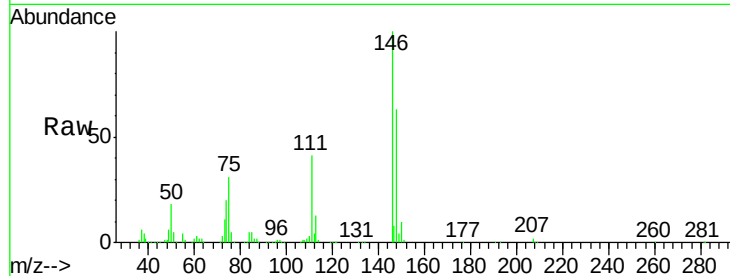
#91
 1,2-Dichlorobenzene
 Concen: 49.928 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	253645		
111	41.4	20.3	61.0	
148	63.1	31.8	95.3	

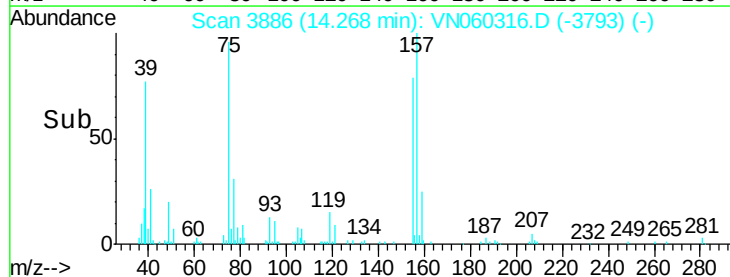
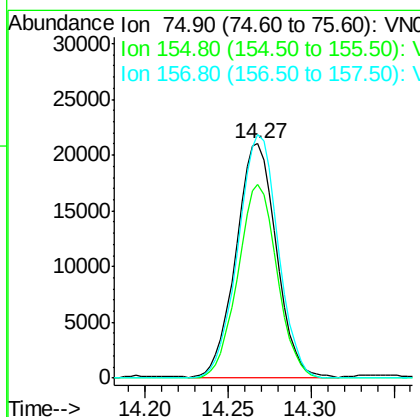
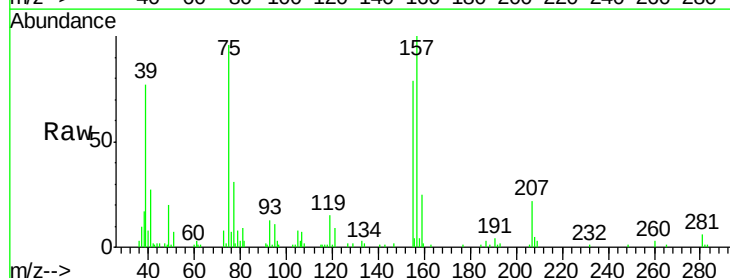
Manual Integrations
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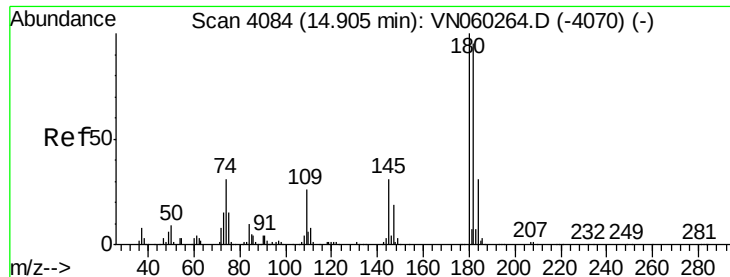
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 49.277 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	35877		
155	79.3	40.4	121.2	
157	102.2	52.5	157.5	





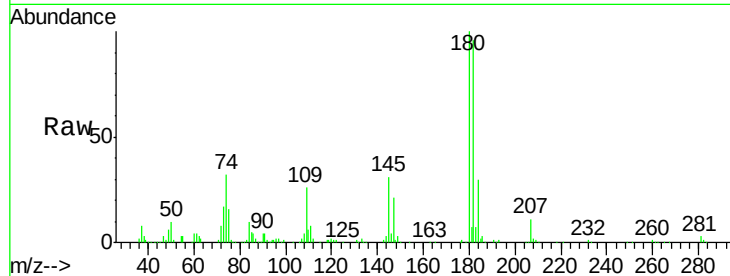
#93
 1,2,4-Trichlorobenzene
 Concen: 51.846 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

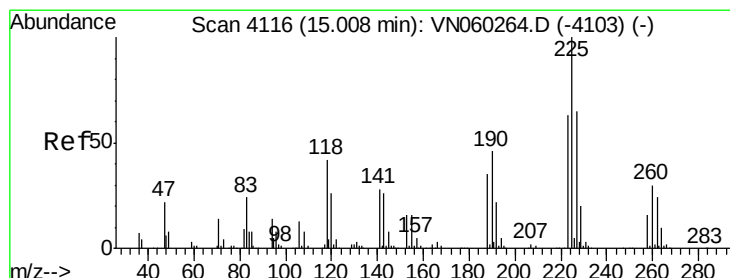
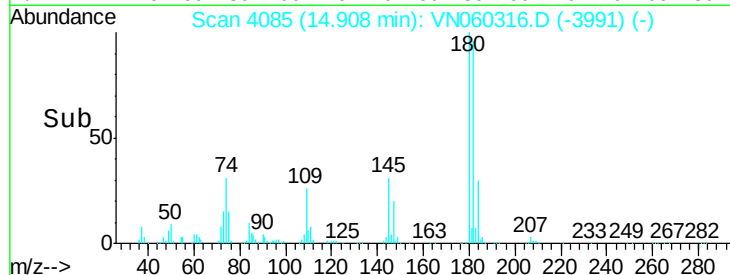
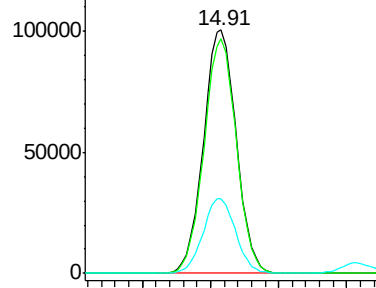
Tot Ion	Ratio	Resp	Lower	Upper
180	100	167373		
182	95.0	47.8	143.3	
145	30.6	15.4	46.1	

Manual Integrations
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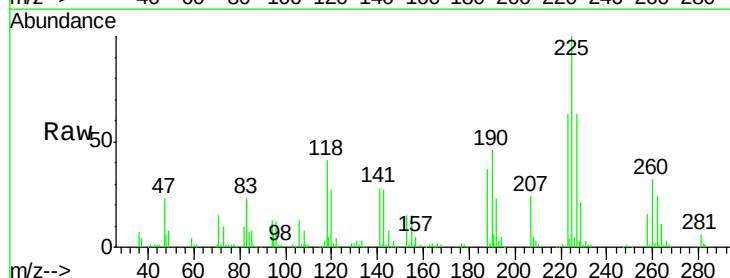


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

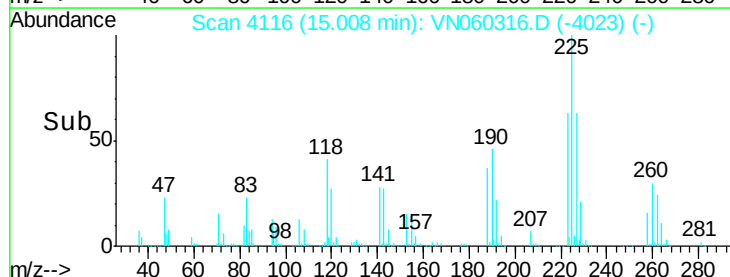
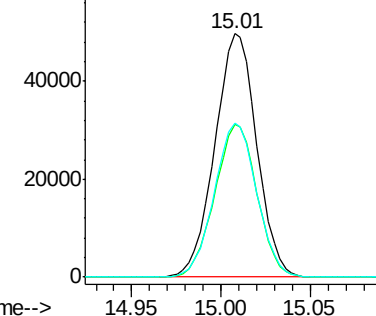


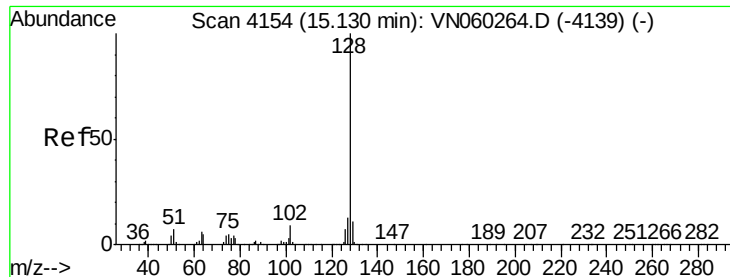
#94
 Hexachlorobutadiene
 Concen: 54.835 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN060316.D
 Acq: 3 Mar 2020 9:32

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	81287		
223	63.2	31.3	93.9	
227	63.9	32.3	96.9	



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





#95

Naphthalene

Concen: 50.639 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Instrument :

MSVOA_N

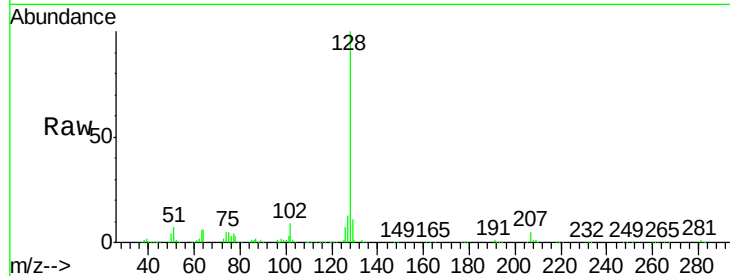
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	481447
Ion Ratio		Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
3/4/2020 10:43:55 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.13

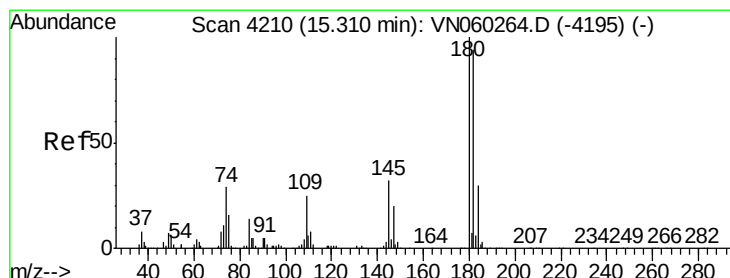
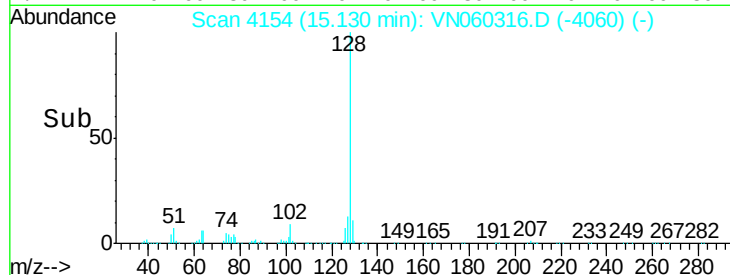
300000

200000

100000

0

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 52.096 ug/l

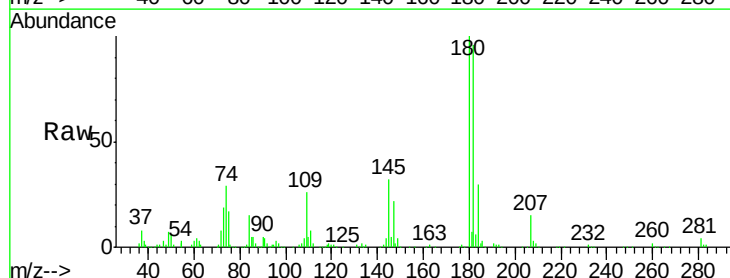
RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN060316.D

Acq: 3 Mar 2020 9:32

Tgt Ion:	180	Resp:	158353
Ion Ratio		Lower	Upper
180	100		
182	94.9	47.3	142.0
145	32.4	16.2	48.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

15.31

120000

100000

80000

60000

40000

20000

0

Time-->

