

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080719\
 Data File : VN057114.D
 Acq On : 7 Aug 2019 19:43
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 2:40:24 PM

Quant Time: Aug 08 05:25:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080719W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 04:56:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1198068	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	1765475	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.90	117	1541414	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.87	152	543237	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	259816	20.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	41.90%	
35) Dibromofluoromethane	6.99	113	234812	21.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	42.24%	
50) Toluene-d8	9.56	98	885202	21.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	42.24%	
62) 4-Bromofluorobenzene	11.92	95	266717	19.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	39.56%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.82	85	189399	20.292	ug/l	98
3) Chloromethane	2.00	50	245817	19.680	ug/l	99
4) Vinyl Chloride	2.11	62	237298	19.882	ug/l	100
5) Bromomethane	2.43	94	165734	23.054	ug/l	98
6) Chloroethane	2.55	64	152928	26.037	ug/l	99
7) Trichlorofluoromethane	2.83	101	343692	20.875	ug/l	98
8) Diethyl Ether	3.14	74	132669	19.755	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.44	101	205128	19.679	ug/l	99
10) Methyl Iodide	3.63	142	308400	24.730	ug/l	99
11) Tert butyl alcohol	4.23	59	163102	121.035	ug/l	100
12) 1,1-Dichloroethene	3.43	96	201991	19.334	ug/l	98
13) Acrolein	3.31	56	106737	94.528	ug/l	96
14) Allyl chloride	3.91	41	293246	18.695	ug/l	97
15) Acrylonitrile	4.45	53	491018	111.914	ug/l	100
16) Acetone	3.47	43	374574	98.644	ug/l	98
17) Carbon Disulfide	3.72	76	523741	20.491	ug/l	99
18) Methyl Acetate	3.89	43	228069	17.358	ug/l	99
19) Methyl tert-butyl Ether	4.49	73	629365	20.571	ug/l	100
20) Methylene Chloride	4.10	84	243285	20.274	ug/l	99
21) trans-1,2-Dichloroethene	4.51	96	220987	20.076	ug/l	99
22) Diisopropyl ether	5.32	45	667147	20.255	ug/l	98
23) Vinyl Acetate	5.27	43	2534355	103.039	ug/l	99
24) 1,1-Dichloroethane	5.25	63	401340	19.794	ug/l	97
25) 2-Butanone	6.20	43	591074	109.123	ug/l	100
26) 2,2-Dichloropropane	6.21	77	295206	19.100	ug/l	100
27) cis-1,2-Dichloroethene	6.21	96	259521	20.196	ug/l	100
28) Bromochloromethane	6.59	49	198752	22.153	ug/l	98
29) Tetrahydrofuran	6.60	42	396812	112.606	ug/l	99
30) Chloroform	6.76	83	406758	20.016	ug/l	98
31) Cyclohexane	7.07	56	355785	19.821	ug/l	98
32) 1,1,1-Trichloroethane	6.98	97	345910	20.416	ug/l	98
36) 1,1-Dichloropropene	7.20	75	299404	19.524	ug/l	99
37) Ethyl Acetate	6.28	43	247871	21.203	ug/l #	100
38) Carbon Tetrachloride	7.18	117	303090	20.514	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.52	83	349874	19.712	ug/l	99
40) Benzene	7.46	78	935316	19.761	ug/l	97
41) Methacrylonitrile	6.55	41	124765	25.365	ug/l	97
42) 1,2-Dichloroethane	7.54	62	295780	19.962	ug/l	99
43) Isopropyl Acetate	7.56	43	414729	19.452	ug/l	98
44) Trichloroethene	8.27	130	262097	20.268	ug/l	100
45) 1,2-Dichloropropane	8.56	63	242546	19.816	ug/l	99
46) Dibromomethane	8.65	93	154913	20.325	ug/l	97
47) Bromodichloromethane	8.85	83	301186	20.599	ug/l	97
48) Methyl methacrylate	8.63	41	190639	20.319	ug/l	99
49) 1,4-Dioxane	8.64	88	78550	412.046	ug/l	97
51) 4-Methyl-2-Pentanone	9.45	43	1231199	115.617	ug/l	99
52) Toluene	9.63	92	589852	20.526	ug/l	99
53) t-1,3-Dichloropropene	9.86	75	312963	20.405	ug/l	98
54) cis-1,3-Dichloropropene	9.30	75	363638	20.220	ug/l	99
55) 1,1,2-Trichloroethane	10.04	97	227684	20.762	ug/l	96
56) Ethyl methacrylate	9.90	69	318162	21.175	ug/l	99
57) 1,3-Dichloropropane	10.19	76	381318	20.944	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.15	63	546228	100.765	ug/l	98
59) 2-Hexanone	10.24	43	826694	108.207	ug/l	99
60) Dibromochloromethane	10.39	129	239006	20.946	ug/l	99
61) 1,2-Dibromoethane	10.50	107	237017	21.160	ug/l	99
64) Tetrachloroethene	10.11	164	267714	20.645	ug/l	96
65) Chlorobenzene	10.93	112	623897	20.049	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.01	131	237643	20.726	ug/l	99
67) Ethyl Benzene	11.01	91	1086979	20.292	ug/l	100
68) m/p-Xylenes	11.12	106	801230	39.710	ug/l	98
69) o-Xylene	11.46	106	399501	20.155	ug/l	98
70) Styrene	11.47	104	614632	19.445	ug/l	99
71) Bromoform	11.64	173	173228	21.388	ug/l #	98
73) Isopropylbenzene	11.76	105	1054989	23.906	ug/l	100
74) N-amyl acetate	11.58	43	283023	21.853	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.02	83	302644	24.380	ug/l	99
76) 1,2,3-Trichloropropane	12.08	75	256187m	24.980	ug/l	
77) Bromobenzene	12.04	156	263776	22.445	ug/l	99
78) n-propylbenzene	12.11	91	1057736	23.371	ug/l	99
79) 2-Chlorotoluene	12.19	91	676645	23.368	ug/l	100
80) 1,3,5-Trimethylbenzene	12.26	105	874687	23.731	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.81	75	72499	22.301	ug/l	96
82) 4-Chlorotoluene	12.29	91	599056	22.061	ug/l	100
83) tert-Butylbenzene	12.52	119	765055	23.485	ug/l	99
84) 1,2,4-Trimethylbenzene	12.57	105	842264	23.900	ug/l	99
85) sec-Butylbenzene	12.70	105	963469	23.959	ug/l	100
86) p-Isopropyltoluene	12.82	119	837945	23.576	ug/l	100
87) 1,3-Dichlorobenzene	12.81	146	377567	20.804	ug/l	99
88) 1,4-Dichlorobenzene	12.90	146	341523	19.567	ug/l	98
89) n-Butylbenzene	13.15	91	588722	21.673	ug/l	99
90) Hexachloroethane	13.41	117	142949	23.212	ug/l	99
91) 1,2-Dichlorobenzene	13.18	146	380824	21.133	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.81	75	39433	22.369	ug/l	92

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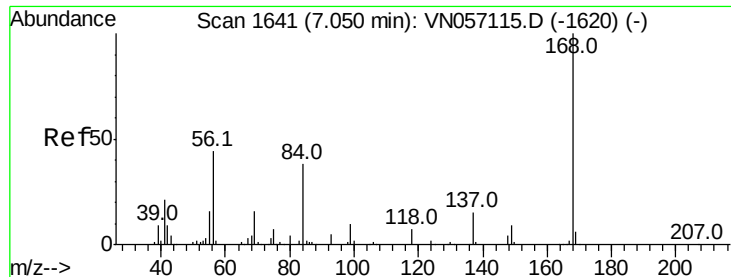
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.45	180	109401	13.505	ug/l	96
94) Hexachlorobutadiene	14.55	225	157125	21.806	ug/l	98
95) Naphthalene	14.66	128	223677	13.566	ug/l	99
96) 1,2,3-Trichlorobenzene	14.83	180	116896	14.090	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 1641

Delta R.T. 0.00 min

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Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 1198068

Ion Ratio Lower Upper

168 100

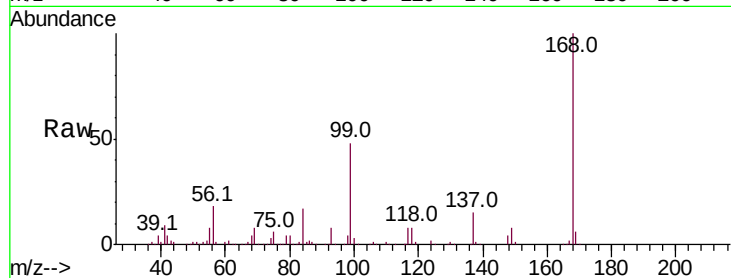
99 48.1 38.6 57.8

Manual Integrations

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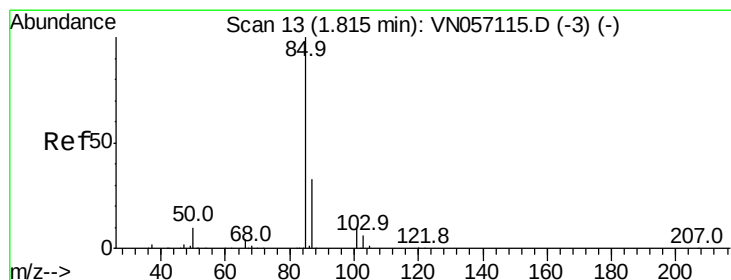
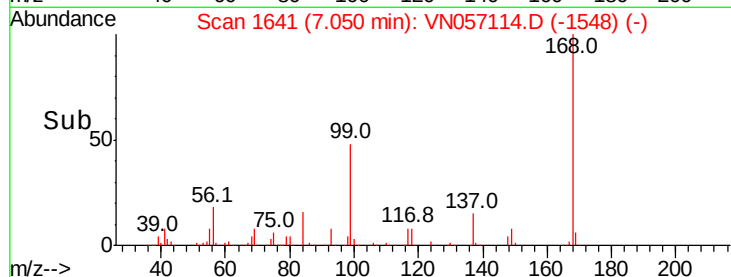
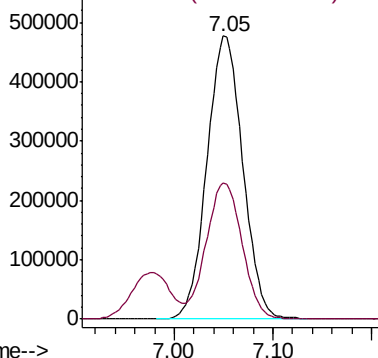
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 20.292 ug/l

RT: 1.82 min Scan# 14

Delta R.T. 0.00 min

Lab File: VN057114.D

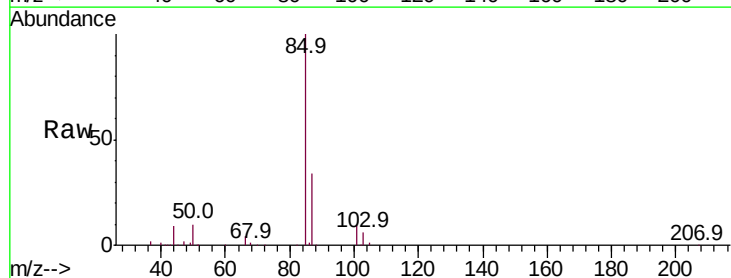
Acq: 7 Aug 2019 19:43

Tgt Ion: 85 Resp: 189399

Ion Ratio Lower Upper

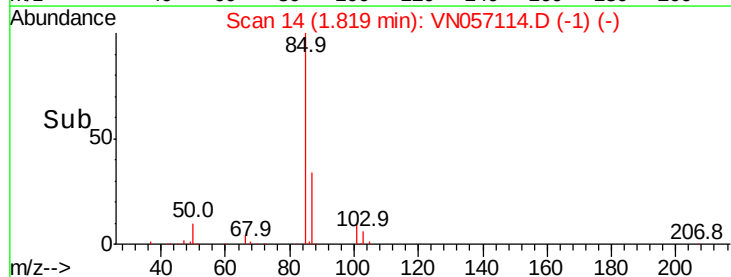
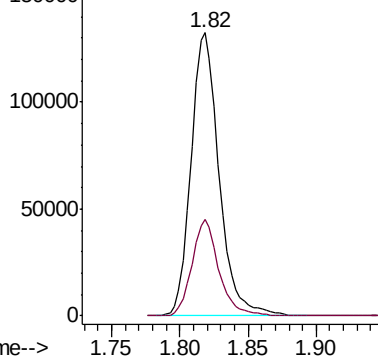
85 100

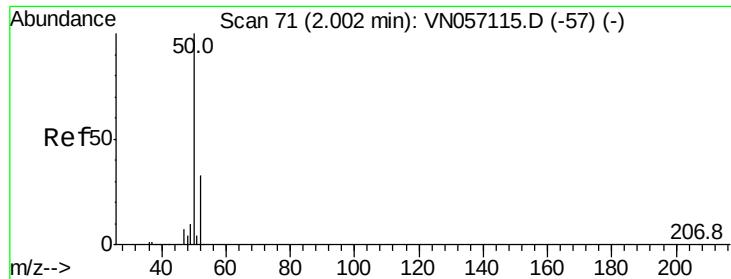
87 34.2 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 19.680 ug/l

RT: 2.00 min Scan# 71

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 245817

Ion Ratio Lower Upper

50 100

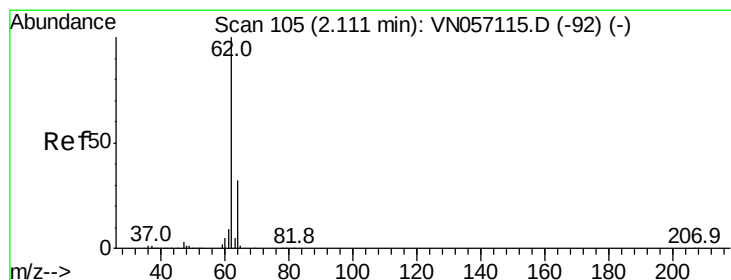
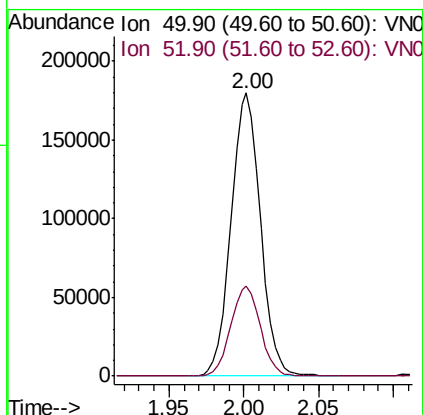
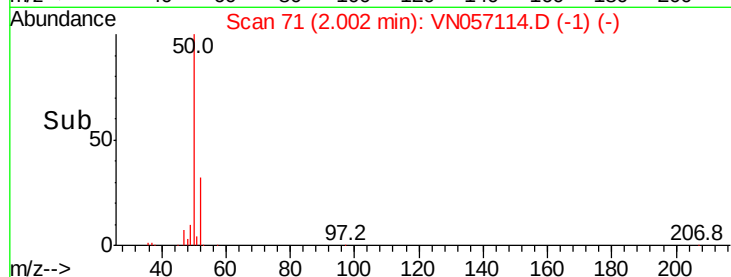
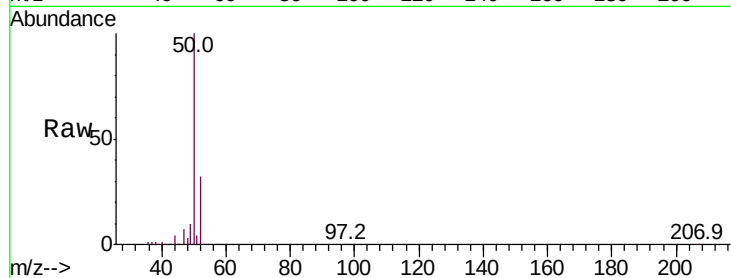
52 31.9 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.882 ug/l

RT: 2.11 min Scan# 105

Delta R.T. 0.00 min

Lab File: VN057114.D

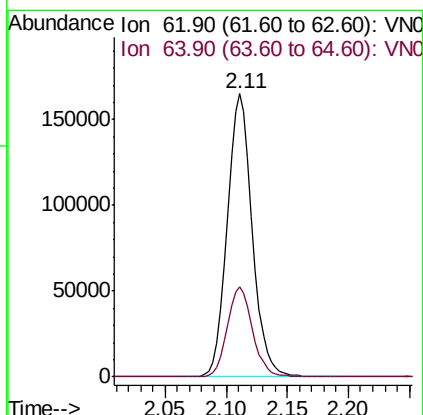
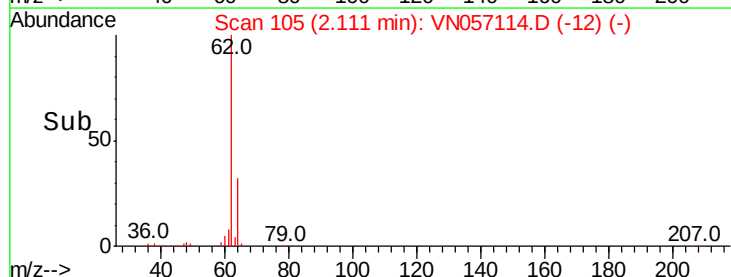
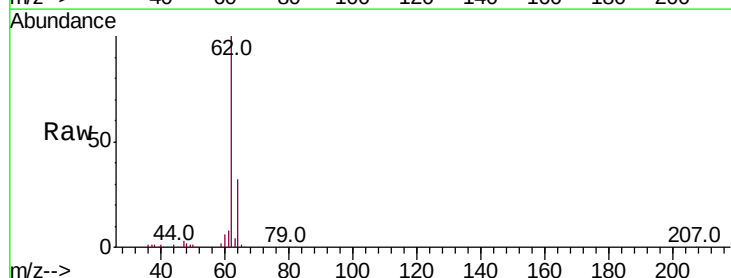
Acq: 7 Aug 2019 19:43

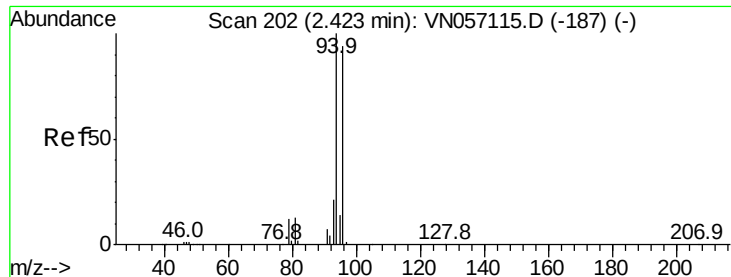
Tgt Ion: 62 Resp: 237298

Ion Ratio Lower Upper

62 100

64 31.7 25.4 38.0





#5

Bromomethane

Concen: 23.054 ug/l

RT: 2.43 min Scan# 205

Delta R.T. 0.01 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

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ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 165734

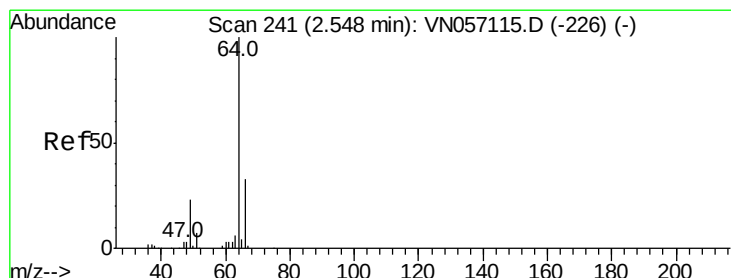
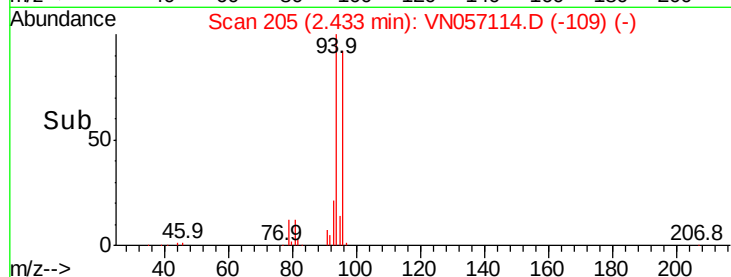
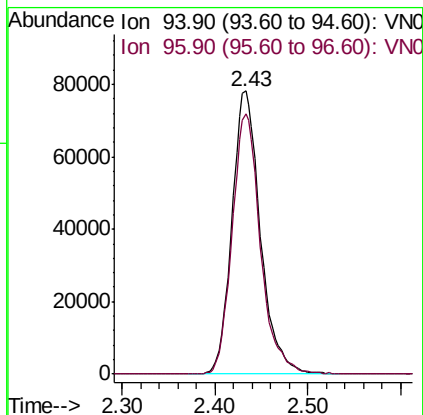
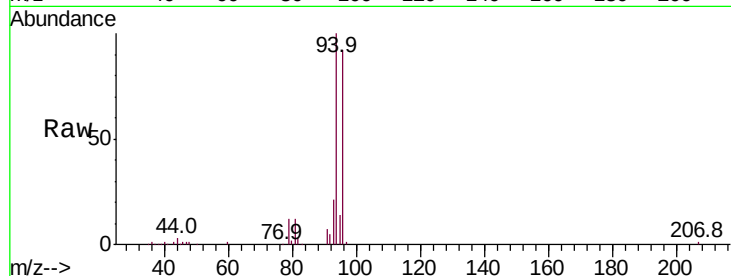
Ion Ratio Lower Upper

94 100

96 91.9 75.0 112.4

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#6

Chloroethane

Concen: 26.037 ug/l

RT: 2.55 min Scan# 243

Delta R.T. 0.01 min

Lab File: VN057114.D

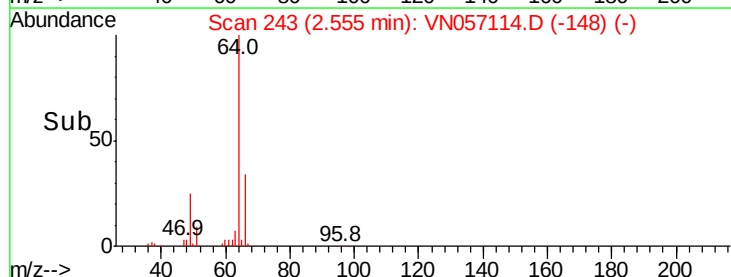
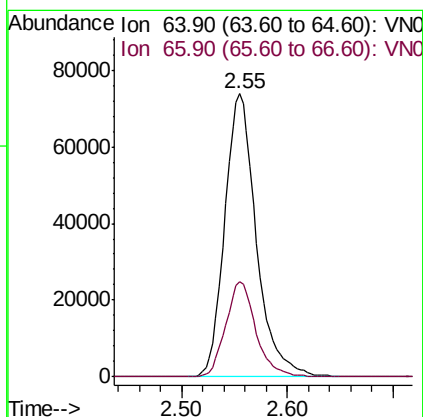
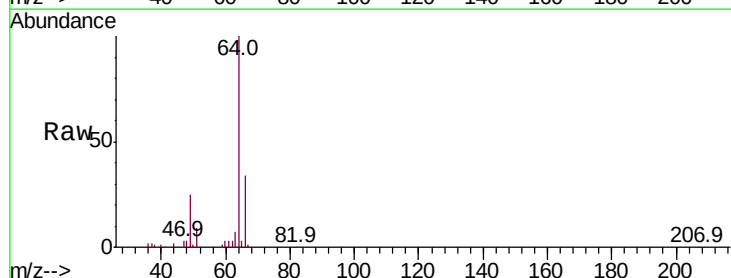
Acq: 7 Aug 2019 19:43

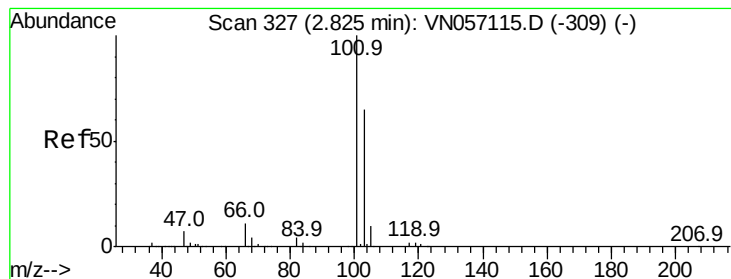
Tgt Ion: 64 Resp: 152928

Ion Ratio Lower Upper

64 100

66 33.5 26.2 39.4





#7

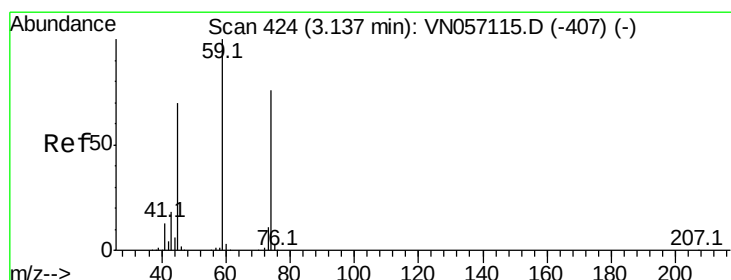
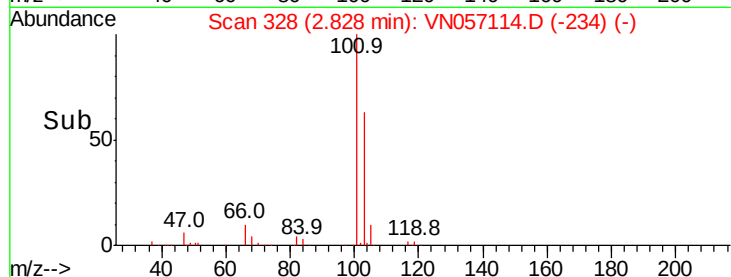
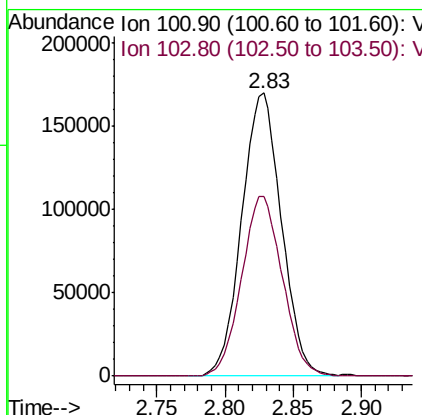
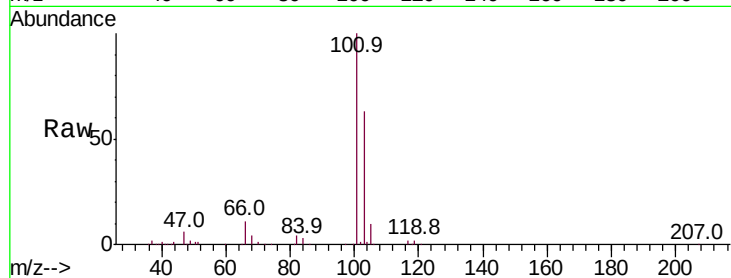
Trichlorofluoromethane
 Concen: 20.875 ug/l
 RT: 2.83 min Scan# 328
 Delta R.T. 0.00 min
 Lab File: VN057114.D
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 VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.5	52.2	78.4

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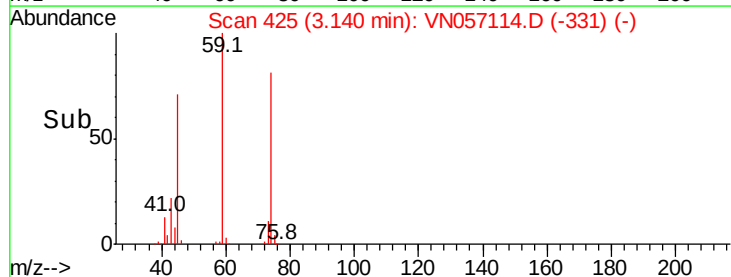
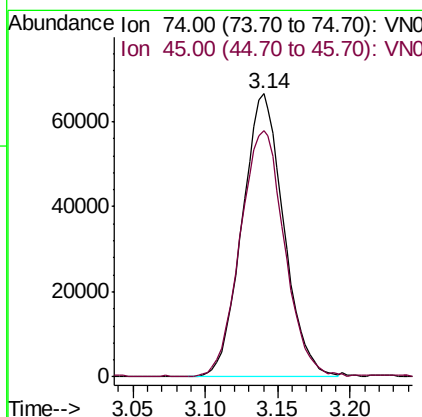
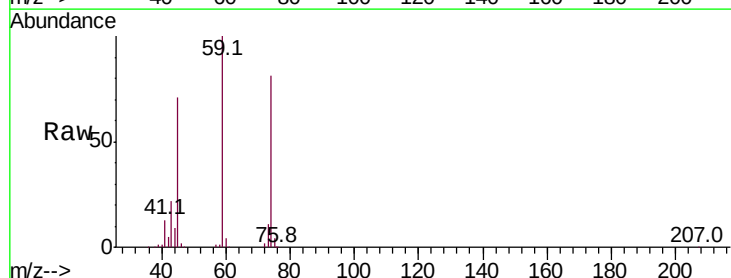
MMDadoda
 8/8/2019 2:40:24 PM

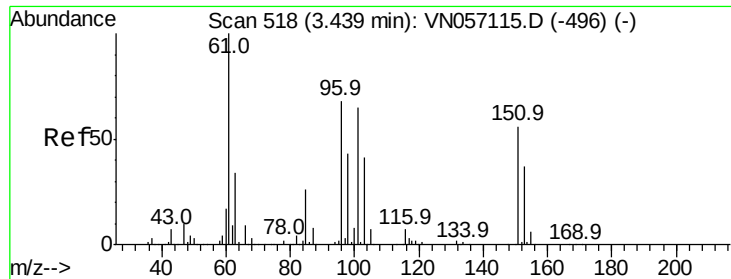


#8

Diethyl Ether
 Concen: 19.755 ug/l
 RT: 3.14 min Scan# 425
 Delta R.T. 0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.0	46.3	138.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.679 ug/l

RT: 3.44 min Scan# 519

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

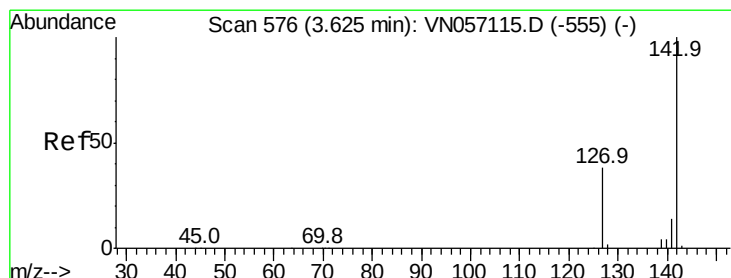
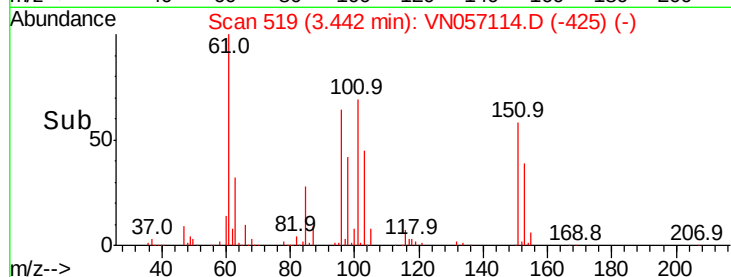
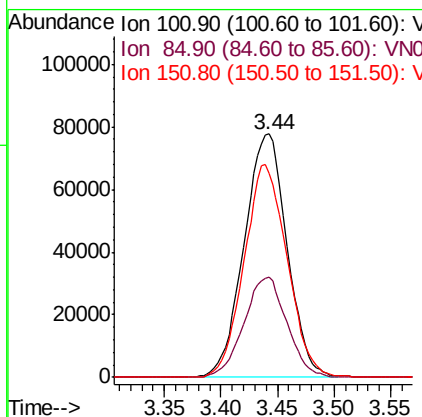
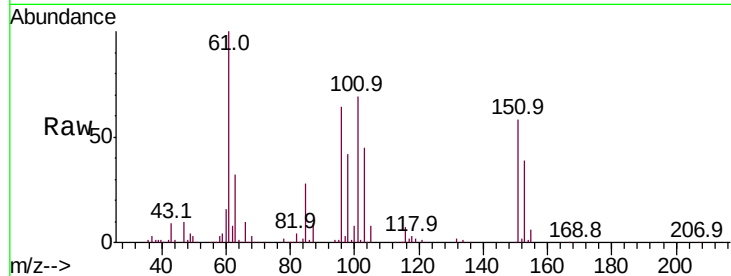
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	205128
Ion Ratio	Lower	Upper	
101	100		
85	41.2	32.3	48.5
151	87.7	69.4	104.0

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#10

Methyl Iodide

Concen: 24.730 ug/l

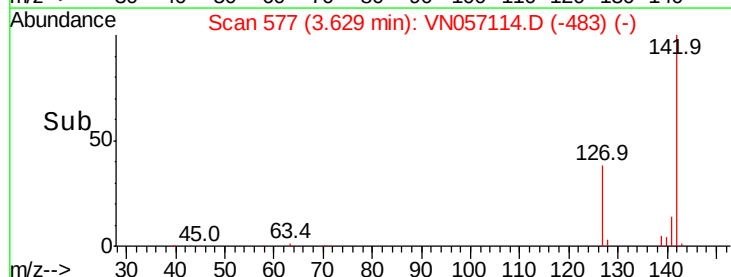
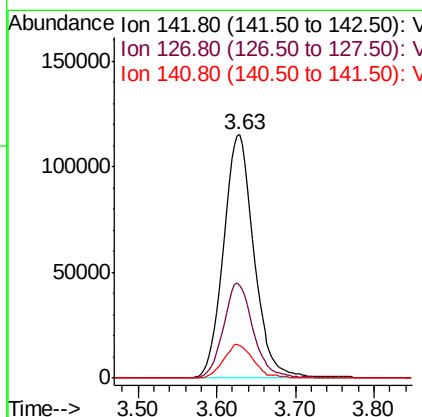
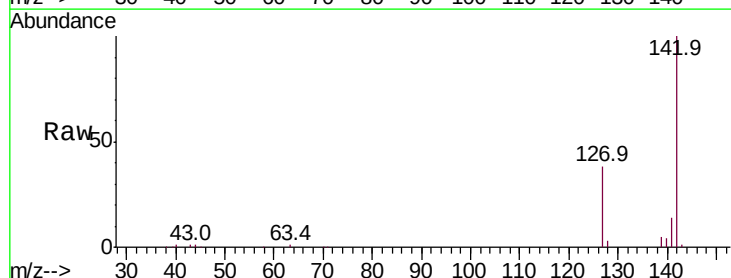
RT: 3.63 min Scan# 577

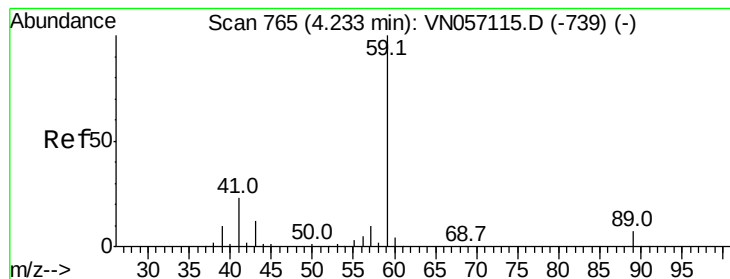
Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Tgt Ion:	142	Resp:	308400
Ion Ratio	Lower	Upper	
142	100		
127	38.0	31.0	46.6
141	13.6	11.2	16.8





#11

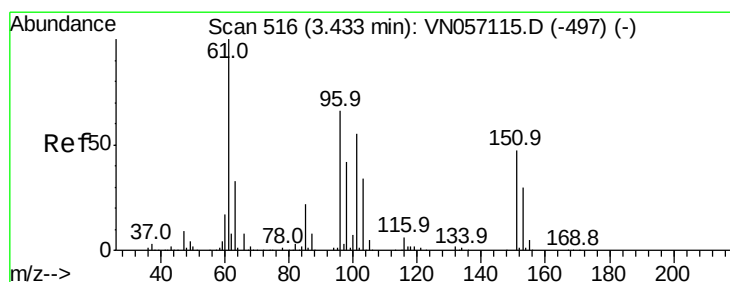
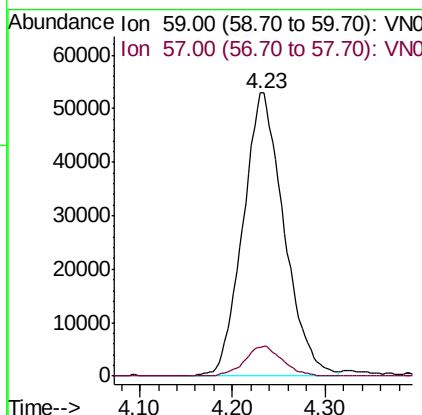
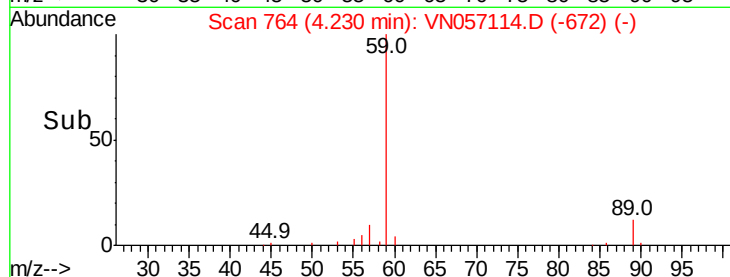
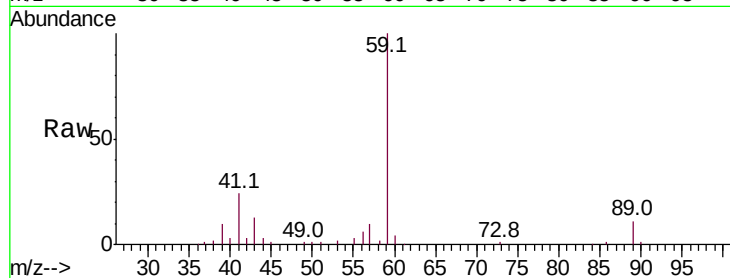
Tert butyl alcohol
 Concen: 121.035 ug/l
 RT: 4.23 min Scan# 764
 Delta R.T. -0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.7	7.9	11.9

Manual Integrations
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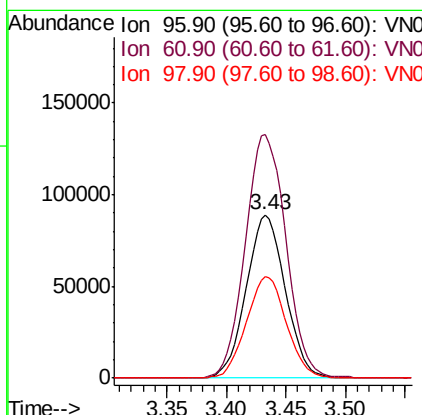
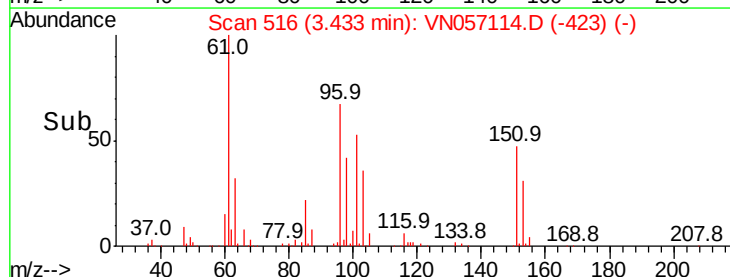
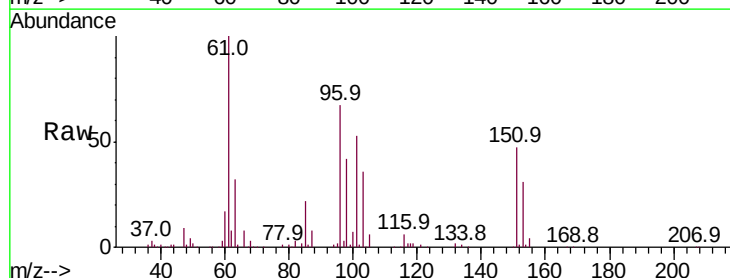
MMDadoda
 8/8/2019 2:40:24 PM

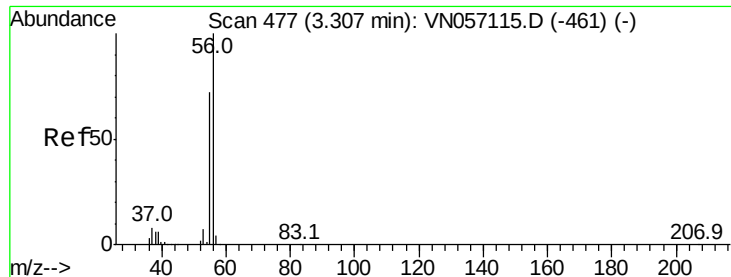


#12

1,1-Dichloroethene
 Concen: 19.334 ug/l
 RT: 3.43 min Scan# 516
 Delta R.T. 0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Lower	Upper
96	100		
61	149.3	121.0	181.6
98	62.0	50.8	76.2





#13

Acrolein

Concen: 94.528 ug/l

RT: 3.31 min Scan# 478

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 106737

Ion Ratio Lower Upper

56 100

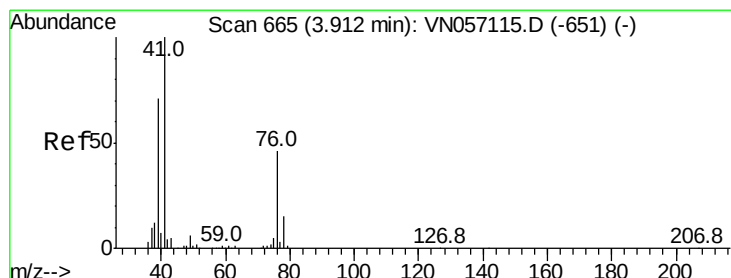
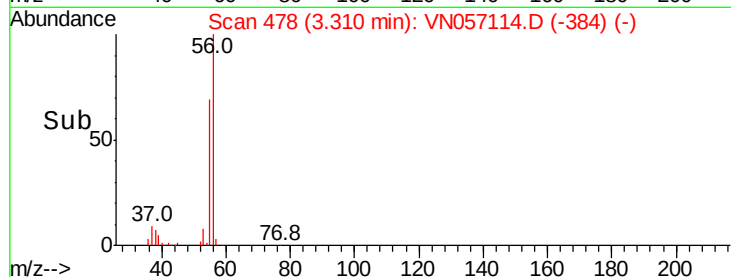
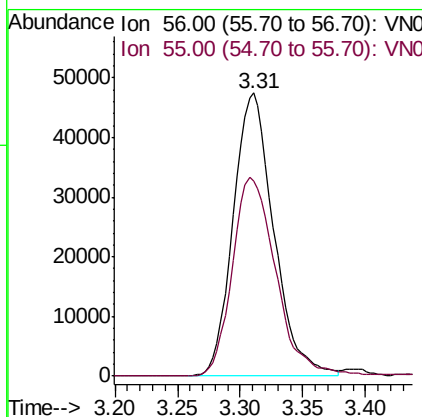
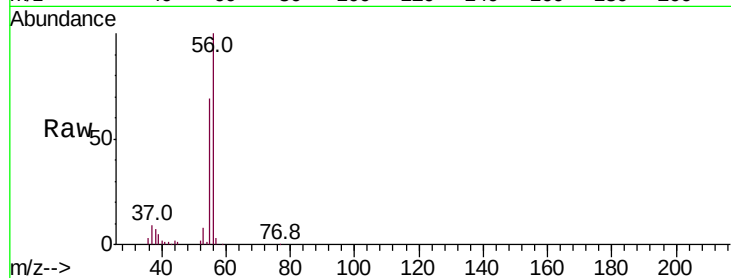
55 75.4 57.7 86.5

Manual Integrations

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#14

Allyl chloride

Concen: 18.695 ug/l

RT: 3.91 min Scan# 665

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

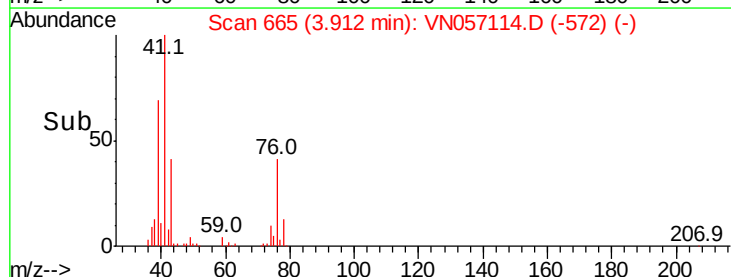
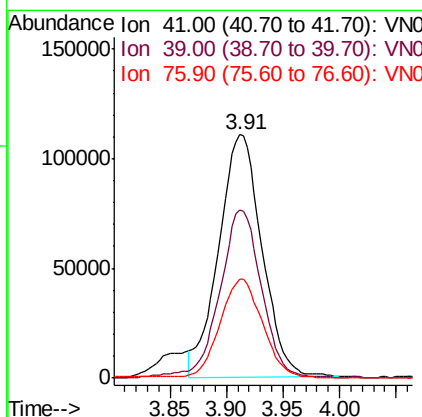
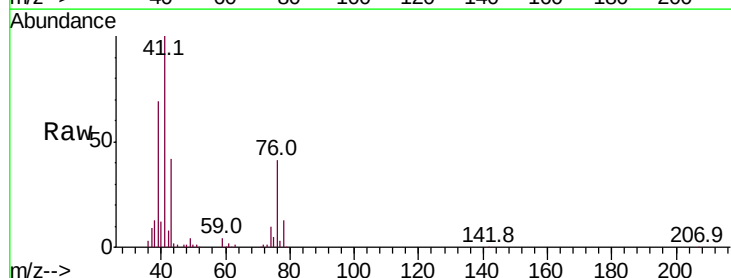
Tgt Ion: 41 Resp: 293246

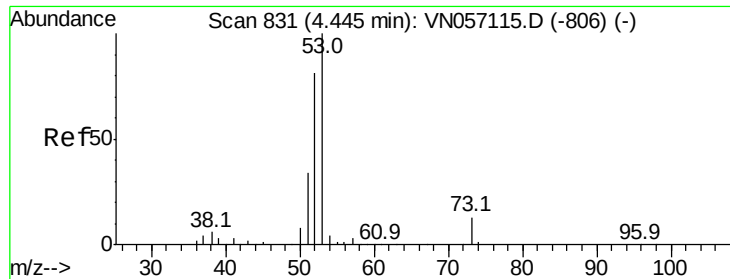
Ion Ratio Lower Upper

41 100

39 67.6 51.1 76.7

76 40.6 32.8 49.2





#15

Acrylonitrile

Concen: 111.914 ug/l

RT: 4.45 min Scan# 832

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

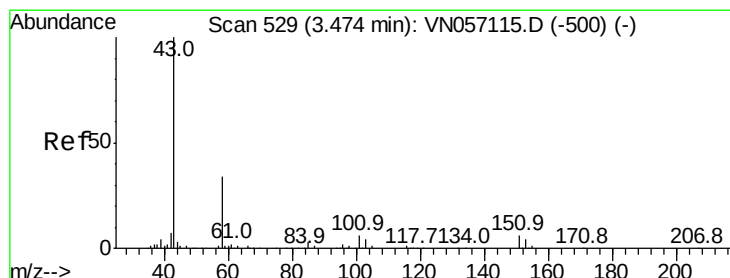
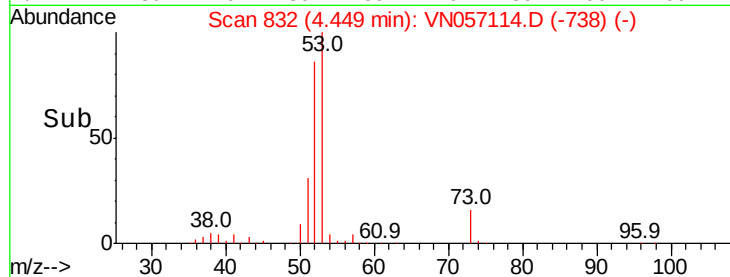
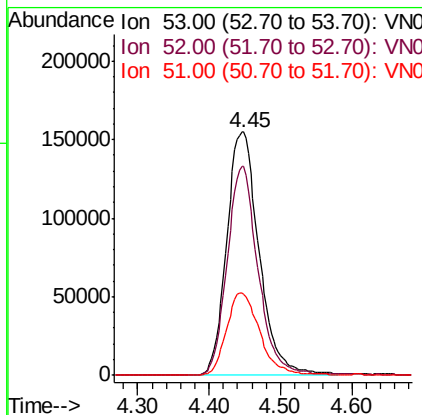
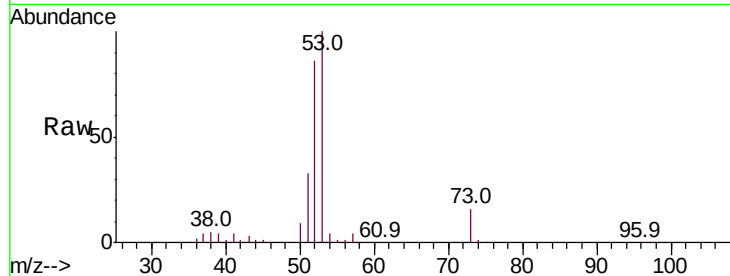
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	491018
Ion Ratio	Lower	Upper	
53	100		
52	81.5	64.9	97.3
51	34.8	27.8	41.6

Manual Integrations
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#16

Acetone

Concen: 98.644 ug/l

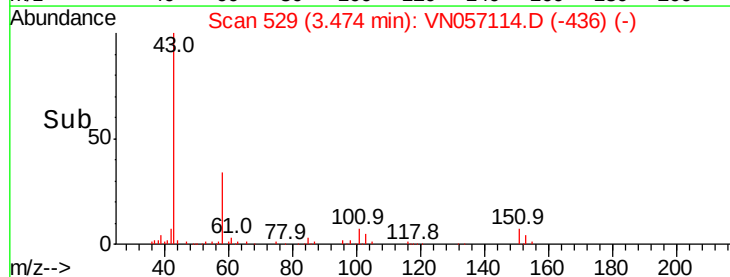
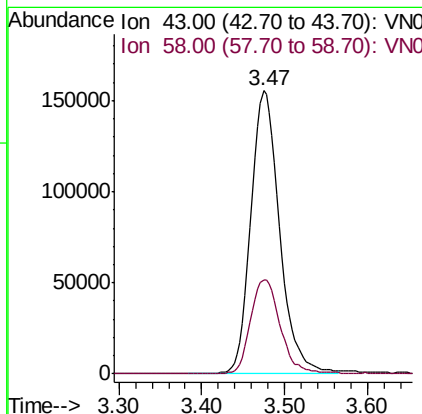
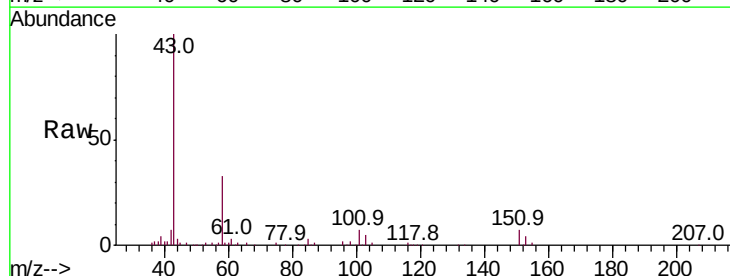
RT: 3.47 min Scan# 529

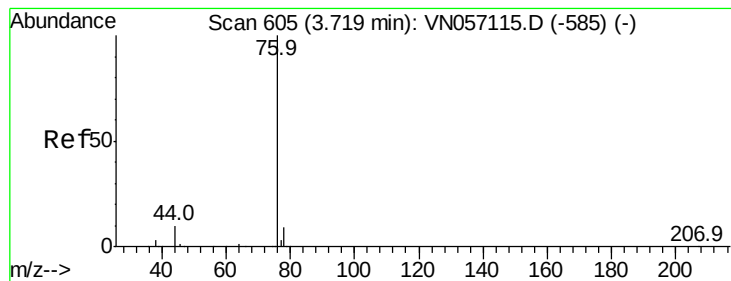
Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Tgt Ion:	43	Resp:	374574
Ion Ratio	Lower	Upper	
43	100		
58	33.3	27.4	41.2





#17

Carbon Disulfide

Concen: 20.491 ug/l

RT: 3.72 min Scan# 606

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 523741

Ion Ratio Lower Upper

76 100

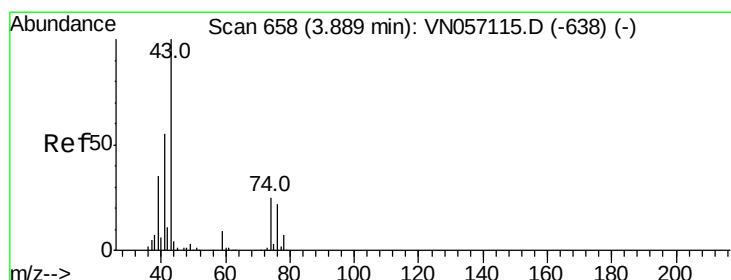
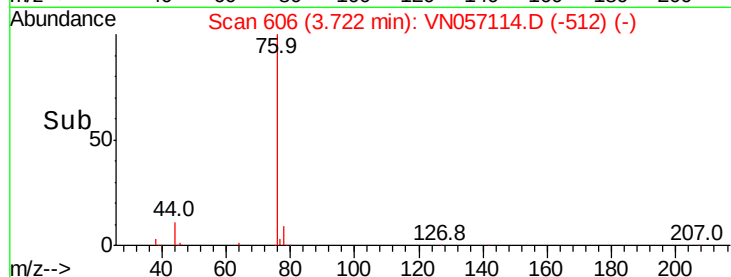
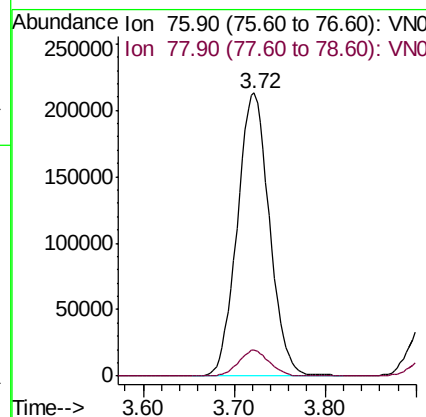
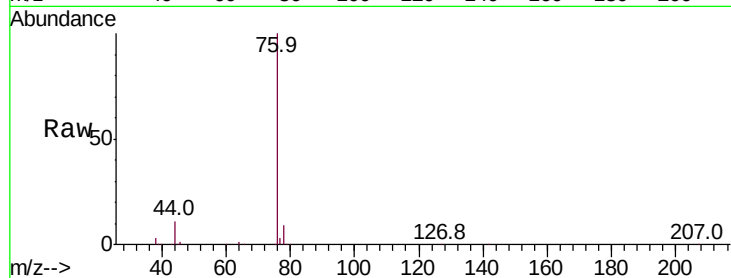
78 9.1 7.0 10.6

Manual Integrations

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#18

Methyl Acetate

Concen: 17.358 ug/l

RT: 3.89 min Scan# 659

Delta R.T. 0.00 min

Lab File: VN057114.D

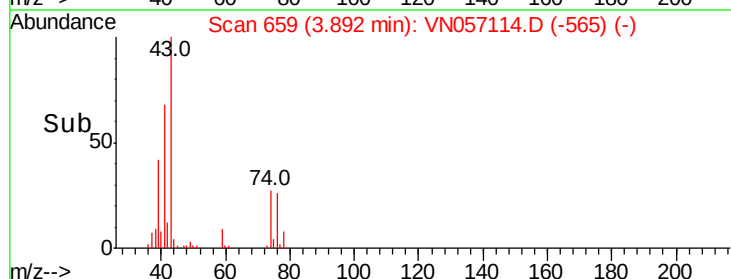
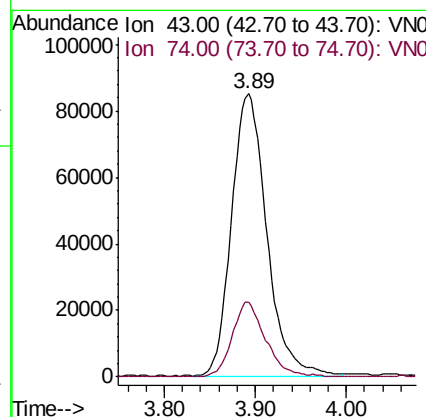
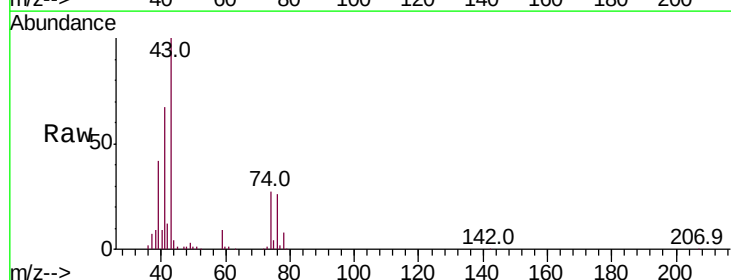
Acq: 7 Aug 2019 19:43

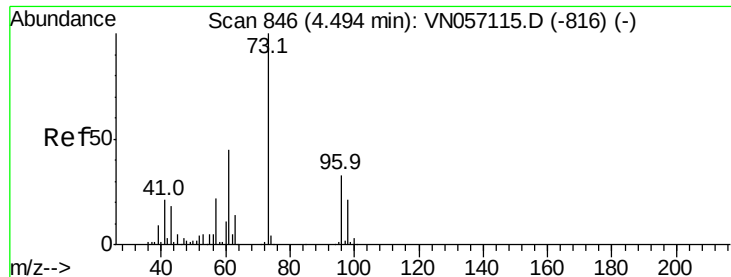
Tgt Ion: 43 Resp: 228069

Ion Ratio Lower Upper

43 100

74 25.0 20.2 30.4





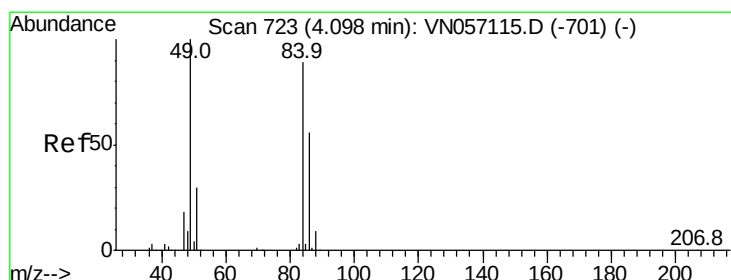
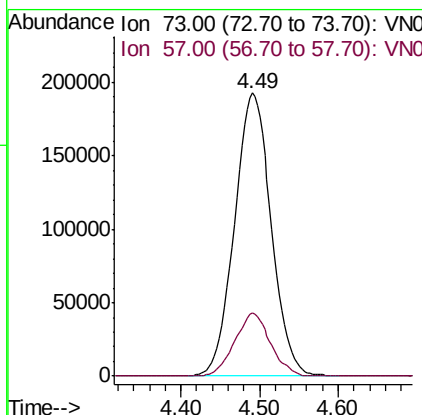
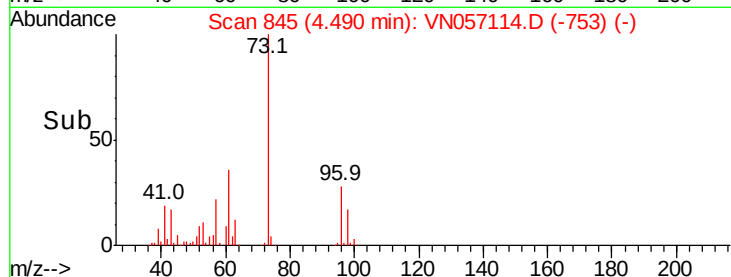
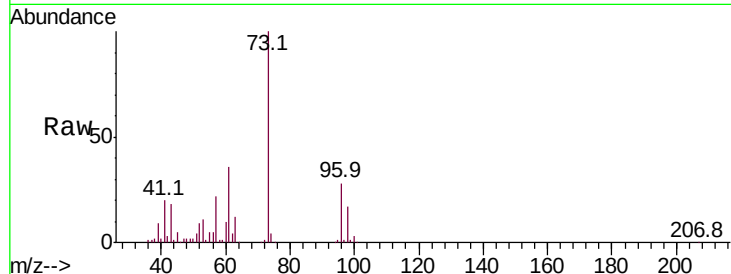
#19
Methyl tert-butyl Ether
Concen: 20.571 ug/l
RT: 4.49 min Scan# 845
Delta R.T. -0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 629365
Ion Ratio Lower Upper
73 100
57 22.5 18.0 27.0

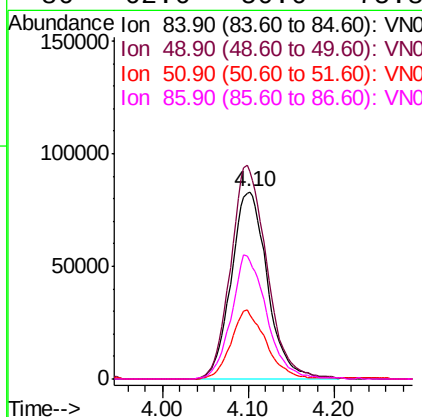
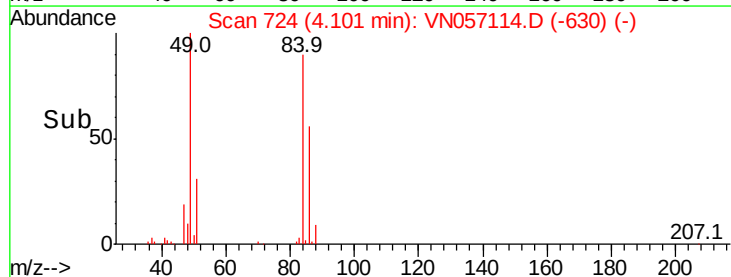
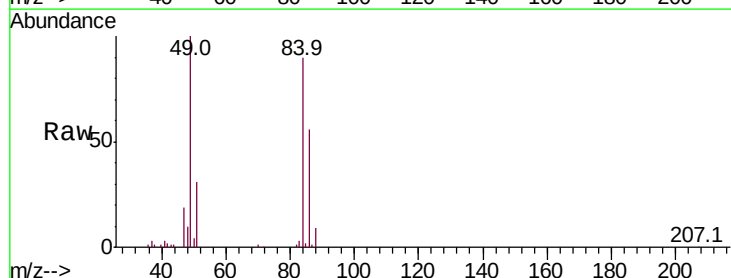
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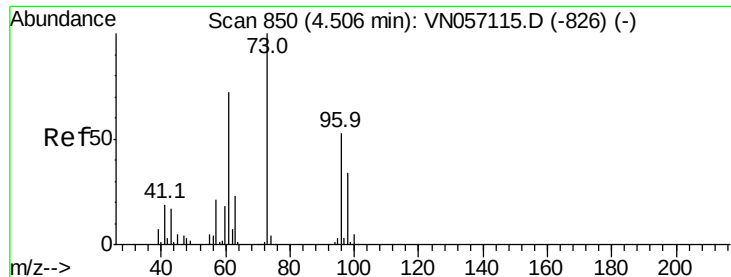
MMDadoda
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#20
Methylene Chloride
Concen: 20.274 ug/l
RT: 4.10 min Scan# 724
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Tgt Ion: 84 Resp: 243285
Ion Ratio Lower Upper
84 100
49 111.1 89.5 134.3
51 34.4 27.2 40.8
86 62.6 50.6 75.8





#21

trans-1,2-Dichloroethene

Concen: 20.076 ug/l

RT: 4.51 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 96 Resp: 220987

Ion Ratio Lower Upper

96 100

61 136.2 108.1 162.1

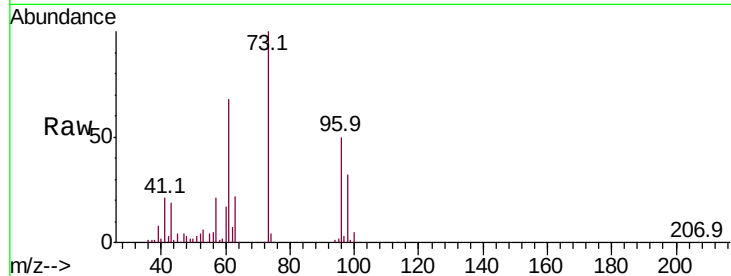
98 64.6 50.5 75.7

Manual Integrations

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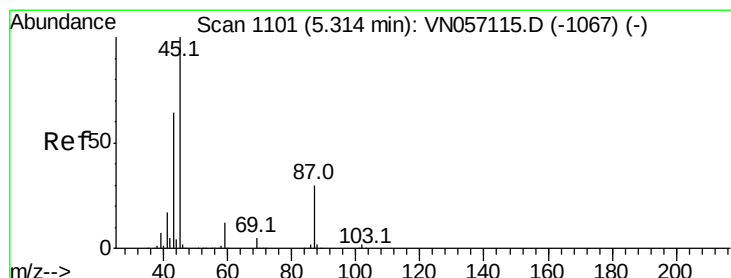
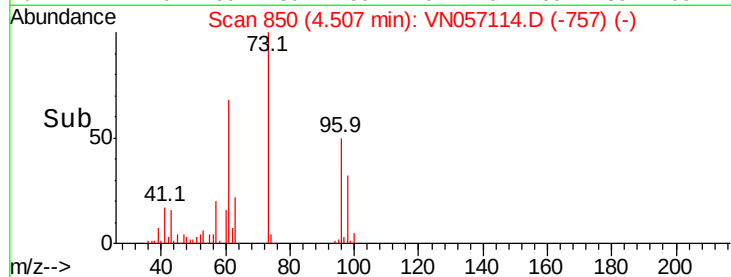
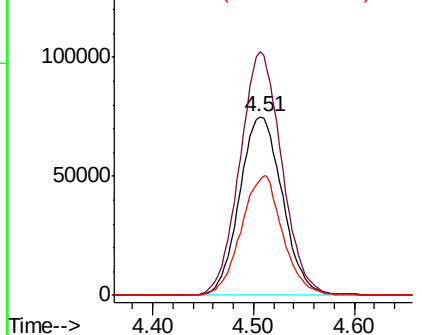
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Abundance Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 20.255 ug/l

RT: 5.32 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Tgt Ion: 45 Resp: 667147

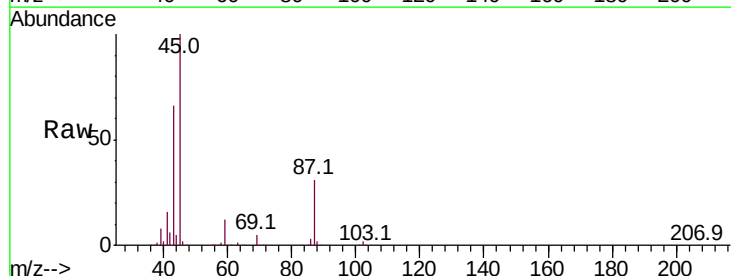
Ion Ratio Lower Upper

45 100

43 65.0 54.1 81.1

87 30.4 24.0 36.0

59 12.1 10.0 15.0

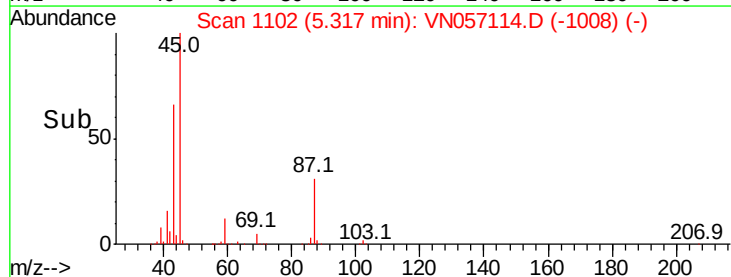
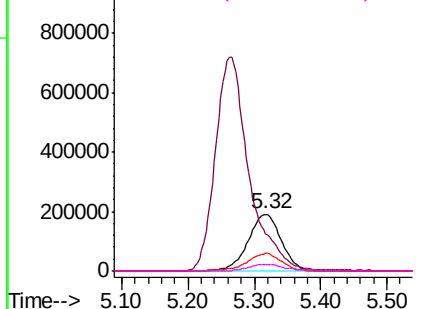


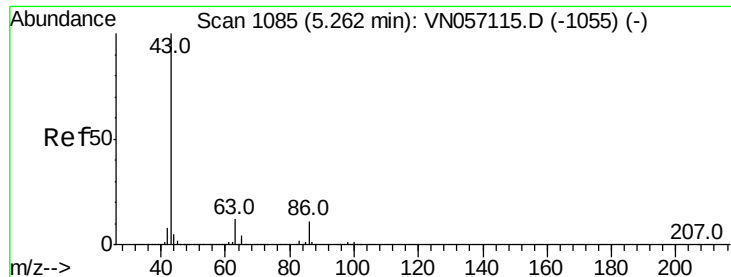
Abundance Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 103.039 ug/l

RT: 5.27 min Scan# 1086

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Tot Ion: 43 Resp: 2534355

Ion Ratio Lower Upper

43 100

86 10.9 9.2 13.8

Instrument :

MSVOA_N

ClientSampled :

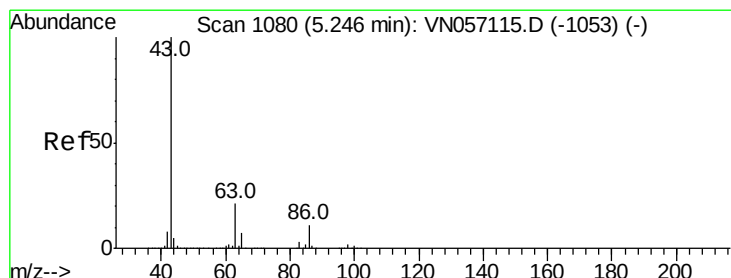
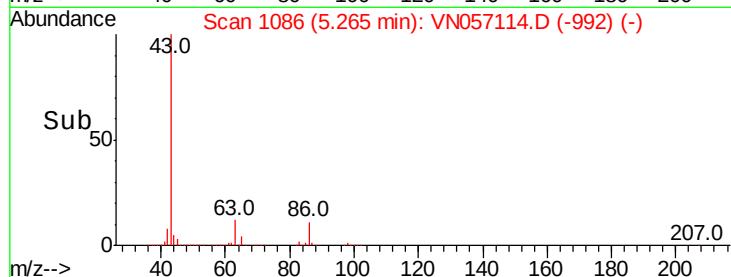
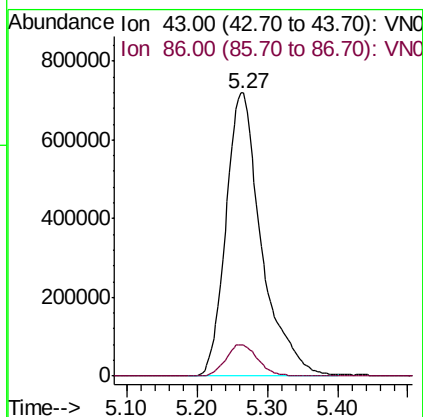
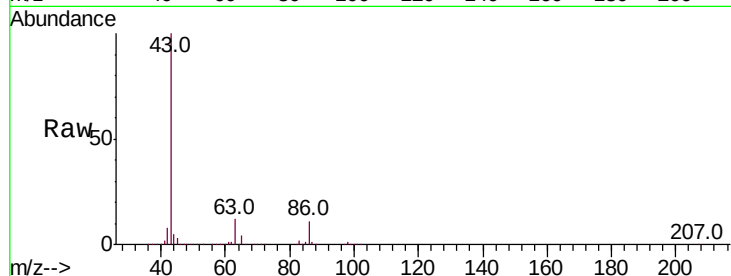
VSTDIC020

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#24

1,1-Dichloroethane

Concen: 19.794 ug/l

RT: 5.25 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

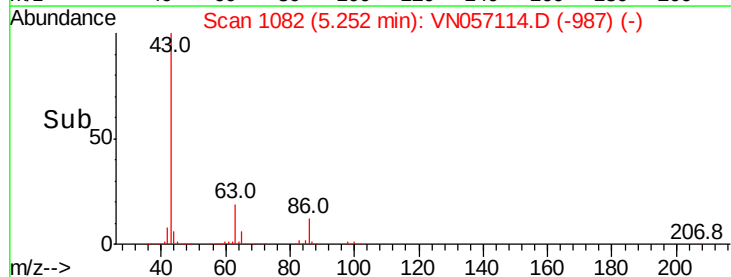
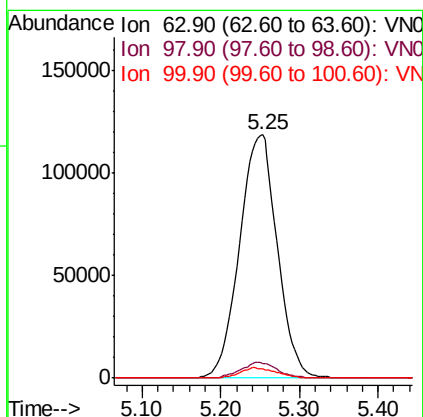
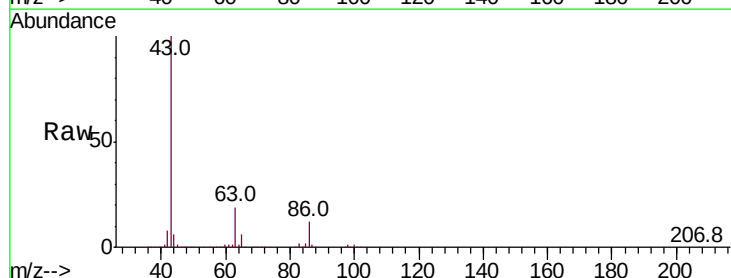
Tgt Ion: 63 Resp: 401340

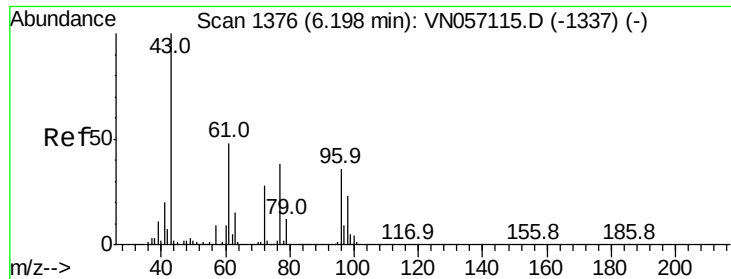
Ion Ratio Lower Upper

63 100

98 6.2 3.8 11.2

100 3.7 2.1 6.3





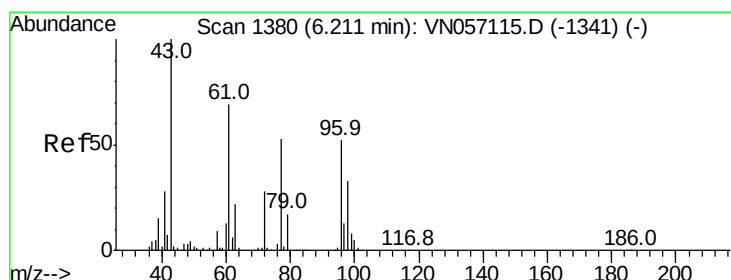
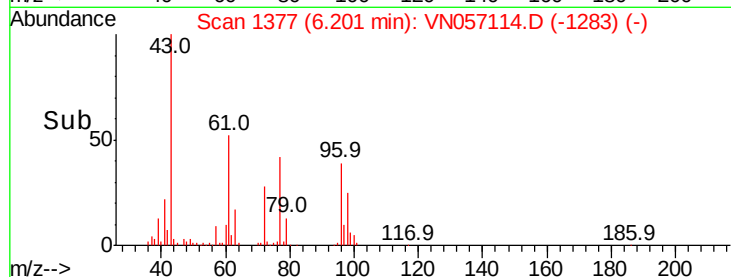
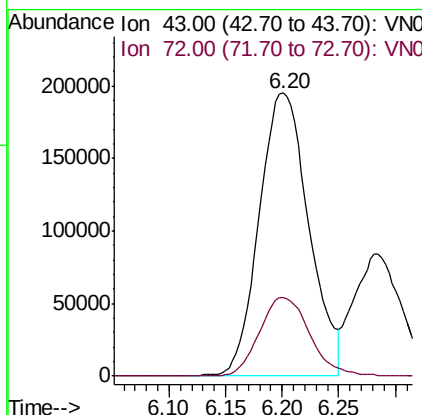
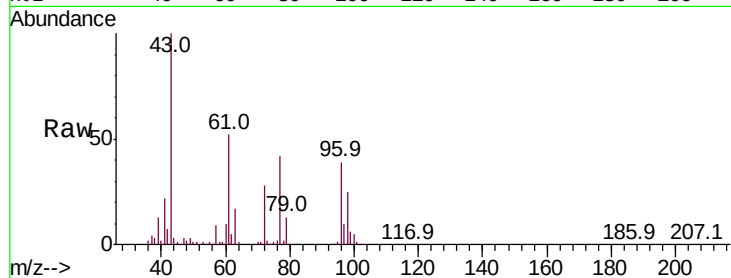
#25
2-Butanone
Concen: 109.123 ug/l
RT: 6.20 min Scan# 1377
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 591074
Ion Ratio Lower Upper
43 100
72 27.9 22.2 33.4

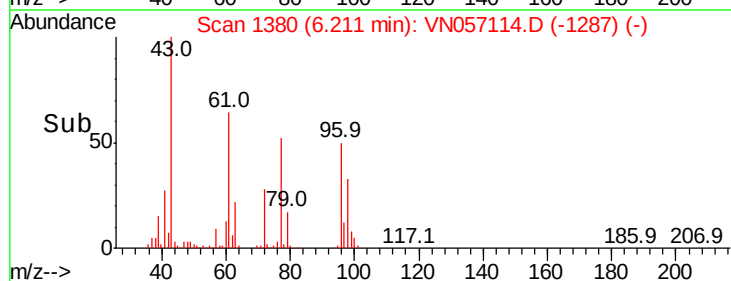
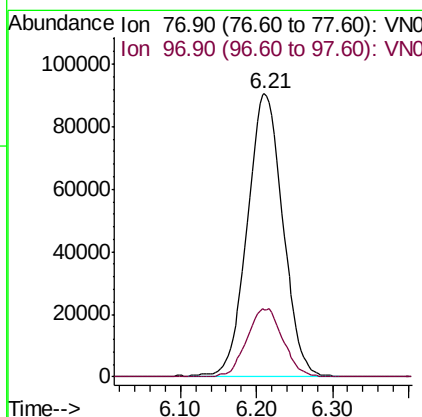
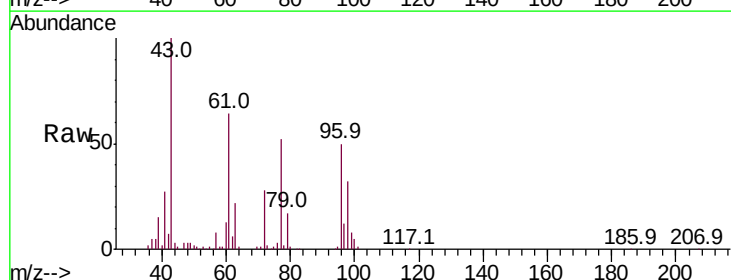
Manual Integrations
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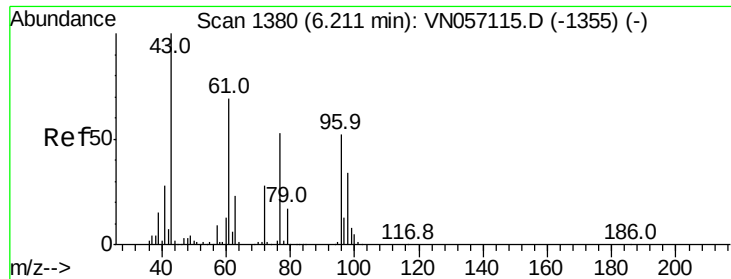
MMDadoda
8/8/2019 2:40:24 PM



#26
2,2-Dichloropropane
Concen: 19.100 ug/l
RT: 6.21 min Scan# 1380
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Tgt Ion: 77 Resp: 295206
Ion Ratio Lower Upper
77 100
97 24.5 12.3 36.8





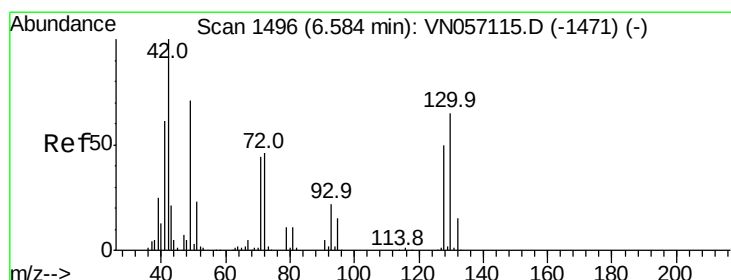
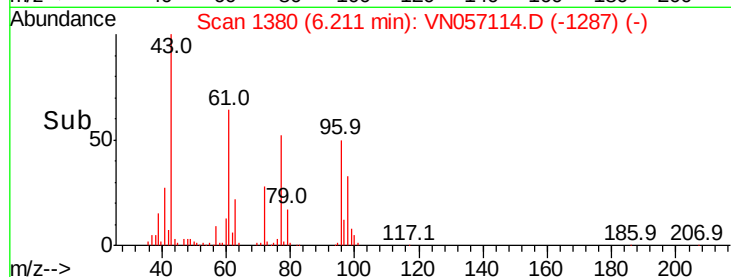
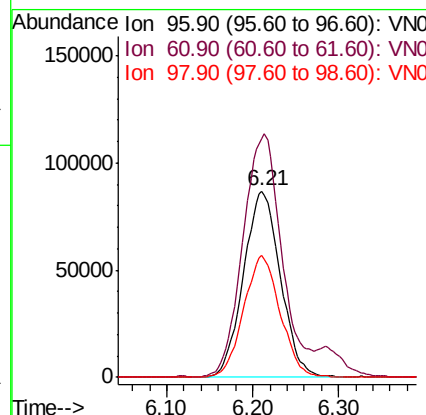
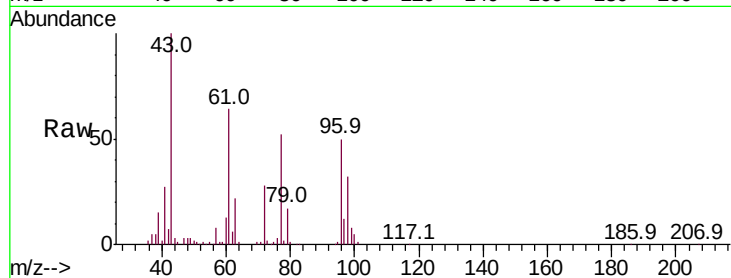
#27
 cis-1,2-Dichloroethene
 Concen: 20.196 ug/l
 RT: 6.21 min Scan# 1380
 Delta R.T. 0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
96	100	259521		
61	137.0	0.0	273.4	
98	64.7	0.0	130.4	

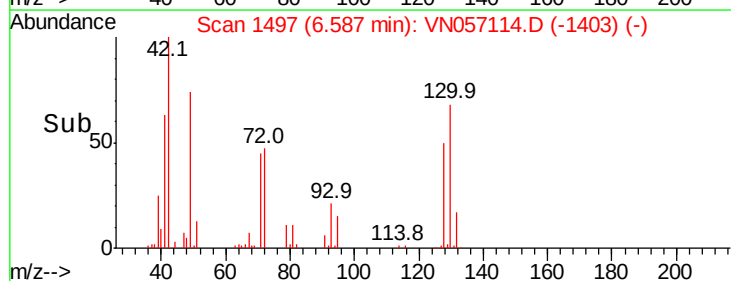
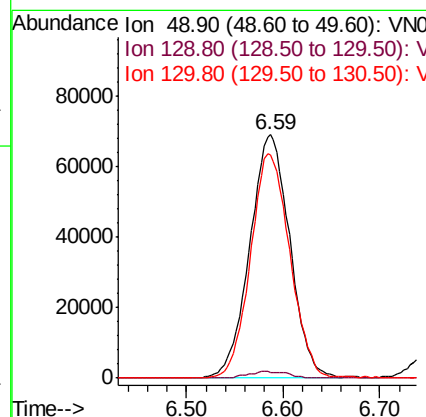
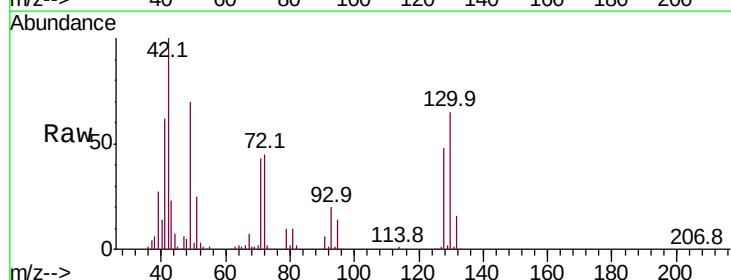
Manual Integrations
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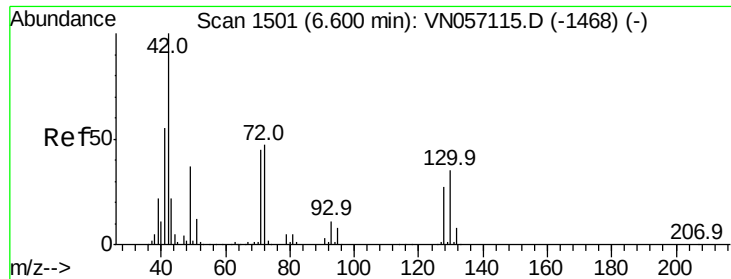
MMDadoda
 8/8/2019 2:40:24 PM



#28
 Bromochloromethane
 Concen: 22.153 ug/l
 RT: 6.59 min Scan# 1497
 Delta R.T. 0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	198752		
129	2.7	0.0	4.8	
130	90.3	73.8	110.8	





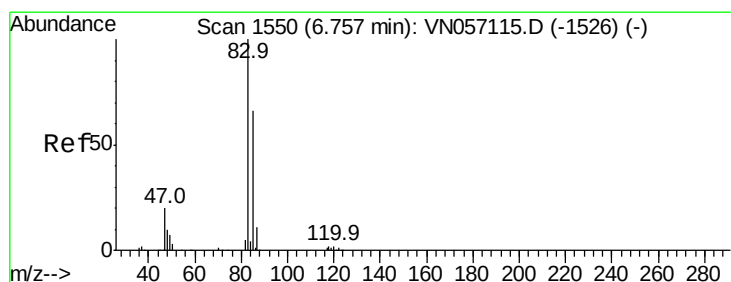
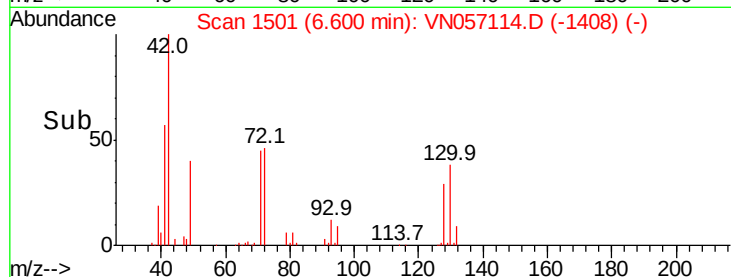
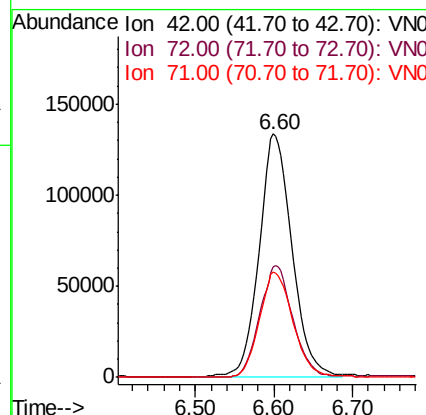
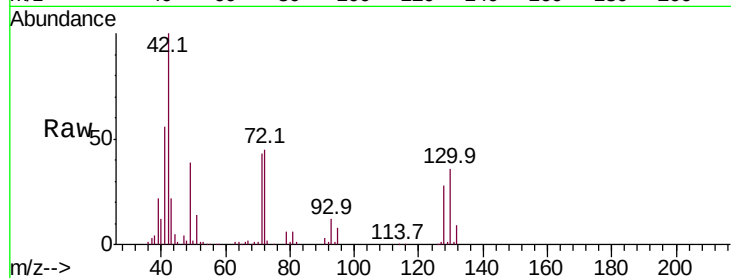
#29
Tetrahydrofuran
Concen: 112.606 ug/l
RT: 6.60 min Scan# 1501
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.8	37.1	55.7
71	43.7	34.8	52.2

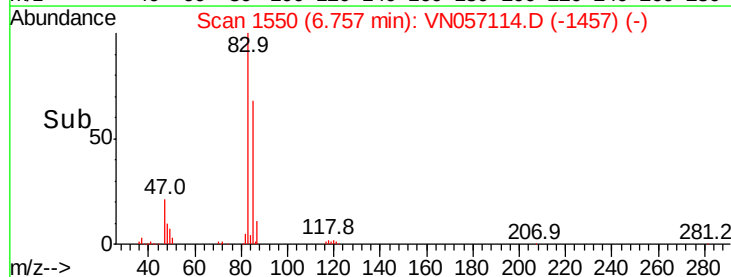
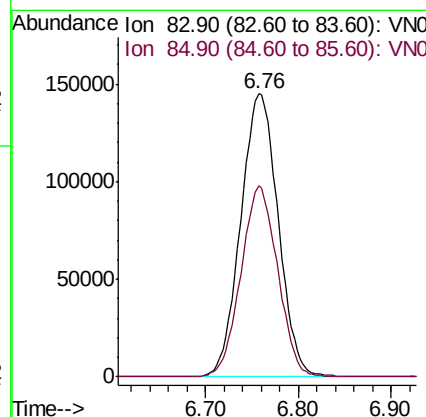
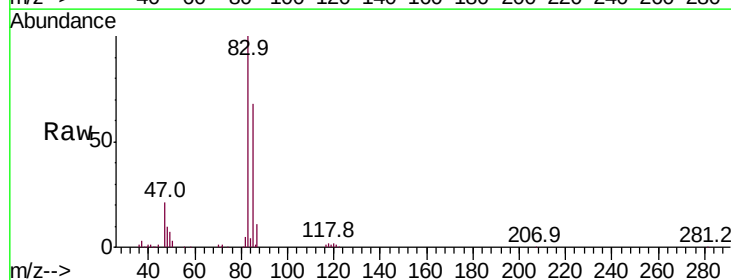
Manual Integrations
APPROVED

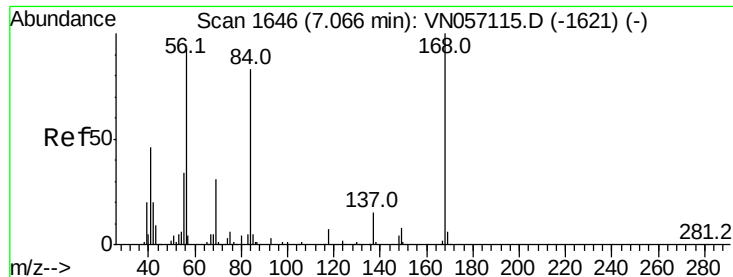
MMDadoda
8/8/2019 2:40:24 PM



#30
Chloroform
Concen: 20.016 ug/l
RT: 6.76 min Scan# 1550
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.6	52.6	78.8





#31

Cyclohexane

Concen: 19.821 ug/l

RT: 7.07 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

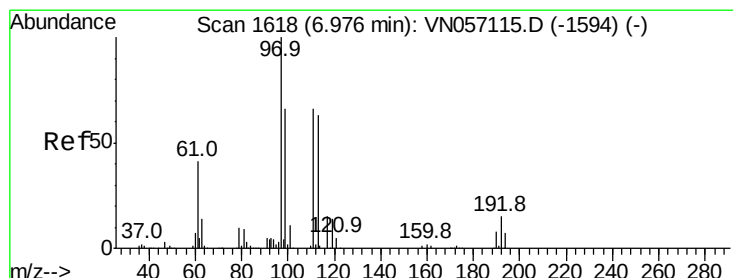
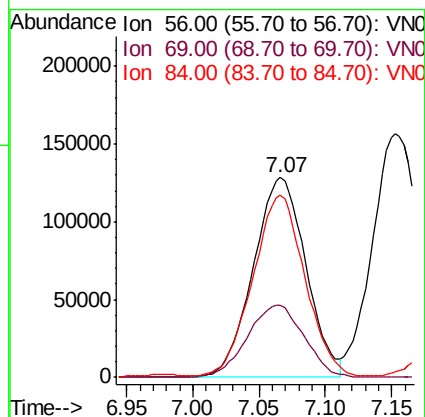
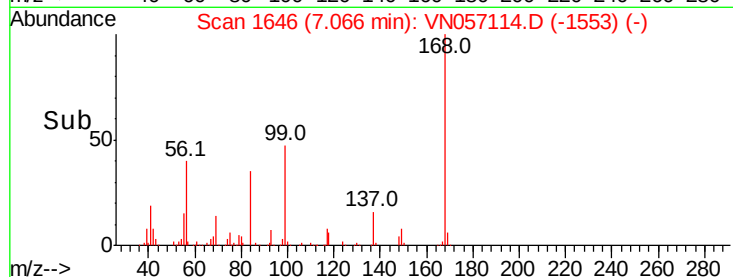
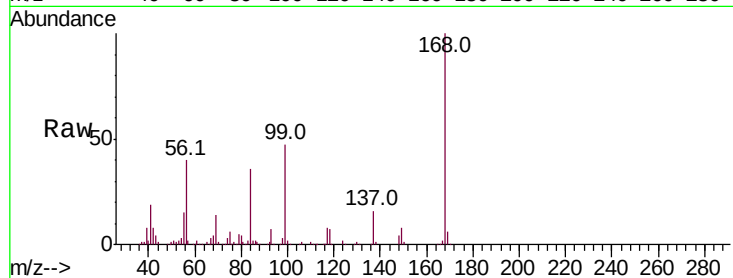
ClientSampleId :

VSTDIC020

Tot Ion	56	Resp	355785
Ion	Ratio	Lower	Upper
56	100		
69	35.9	26.9	40.3
84	90.5	71.9	107.9

Manual Integrations
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MMDadoda
8/8/2019 2:40:24 PM



#32

1,1,1-Trichloroethane

Concen: 20.416 ug/l

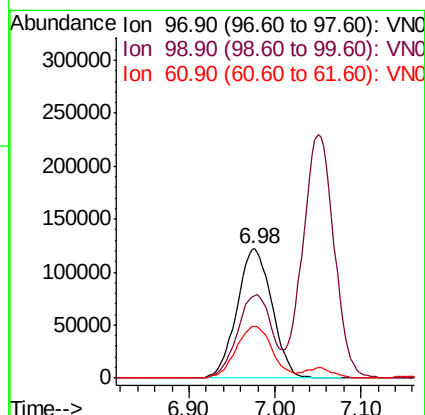
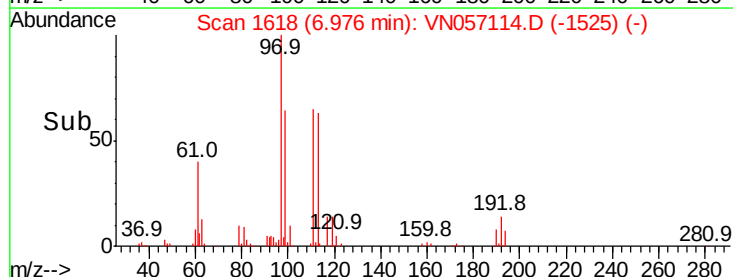
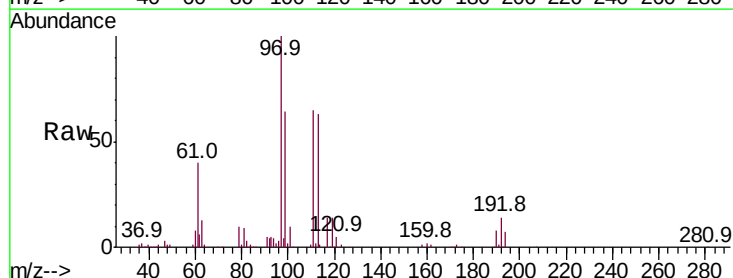
RT: 6.98 min Scan# 1618

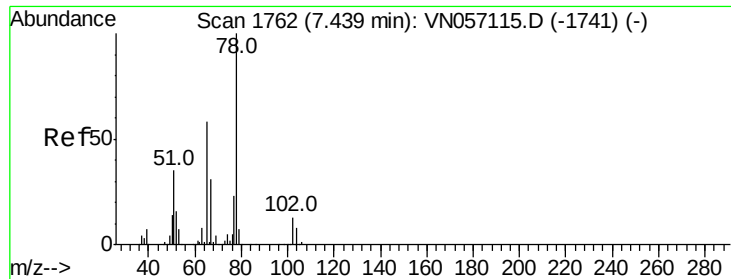
Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Tgt Ion	97	Resp	345910
Ion	Ratio	Lower	Upper
97	100		
99	62.8	51.8	77.6
61	41.2	32.7	49.1





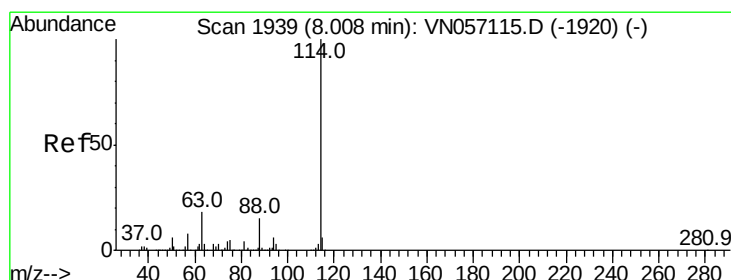
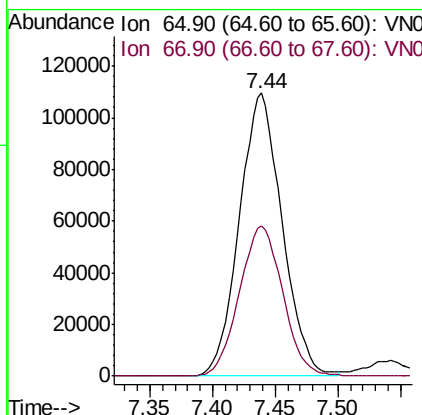
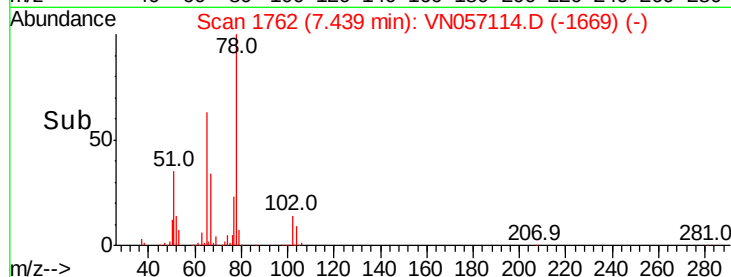
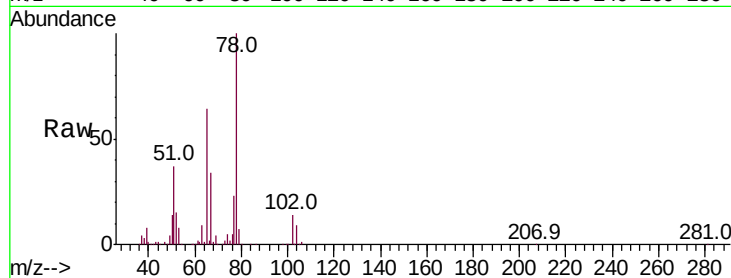
#33
 1,2-Dichloroethane-d4
 Concen: 20.952 ug/l
 RT: 7.44 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	259816		
67	53.8	0.0	108.2	

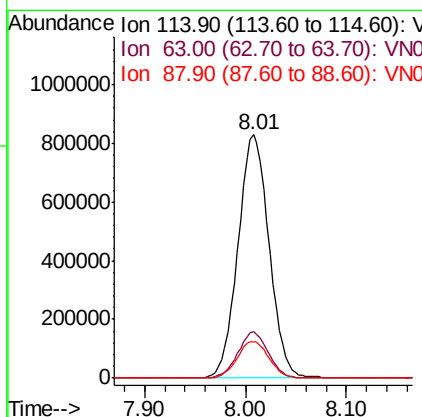
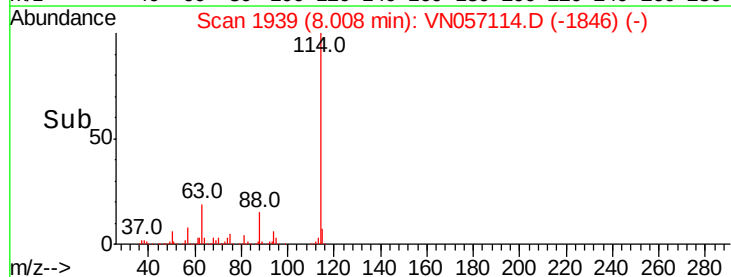
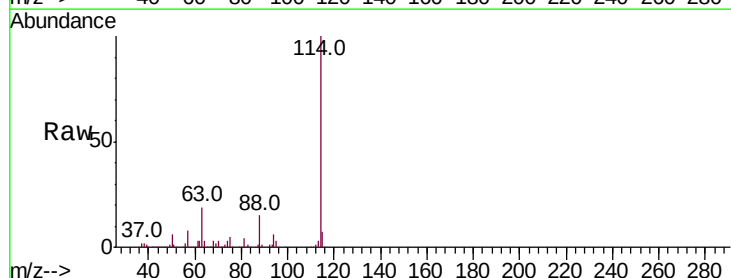
Manual Integrations
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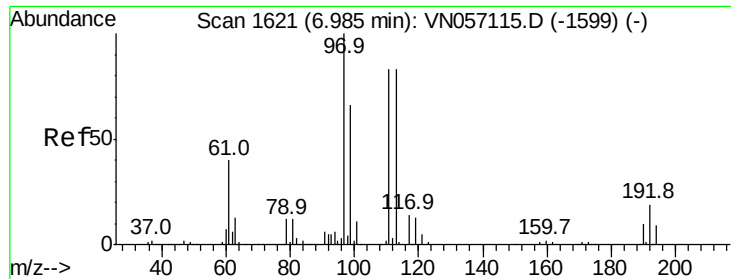
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1765475		
63	19.1	0.0	36.2	
88	15.0	0.0	30.0	





#35

Dibromofluoromethane

Concen: 21.122 ug/l

RT: 6.99 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

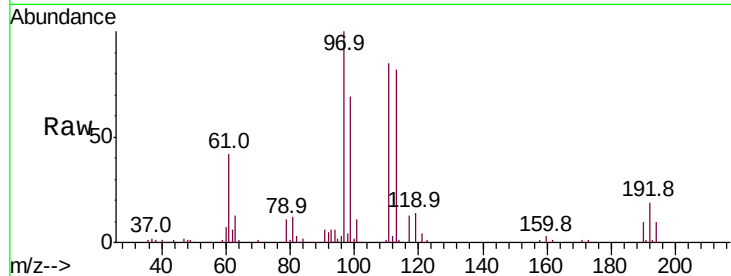
ClientSampleId :

VSTDIC020

Tot Ion:	113	Resp:	234812
Ion Ratio	Lower	Upper	
113	100		
111	101.8	81.3	121.9
192	22.7	19.0	28.4

Manual Integrations
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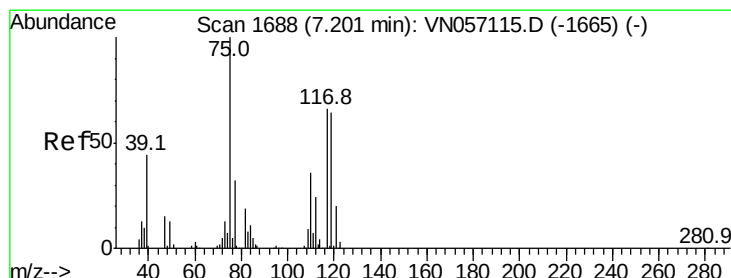
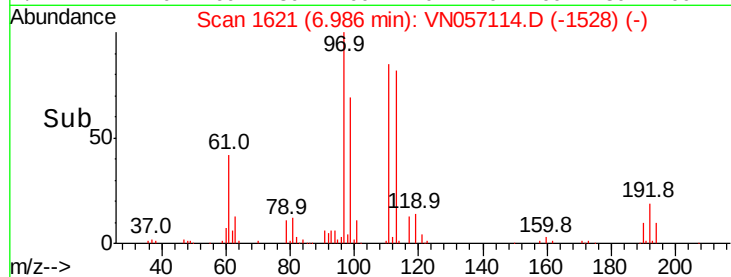
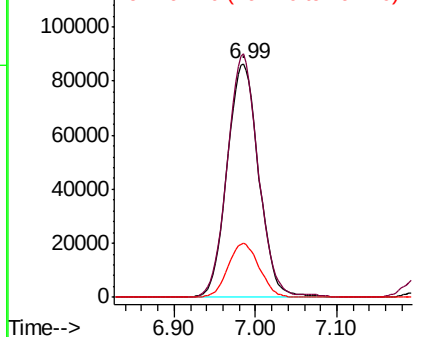


Abundance

Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 19.524 ug/l

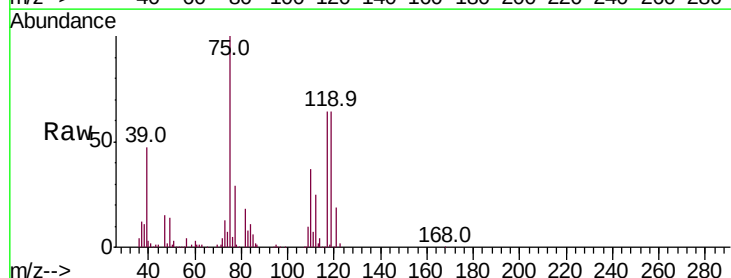
RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Tgt Ion:	75	Resp:	299404
Ion Ratio	Lower	Upper	
75	100		
110	36.5	18.7	56.1
77	30.6	25.0	37.4

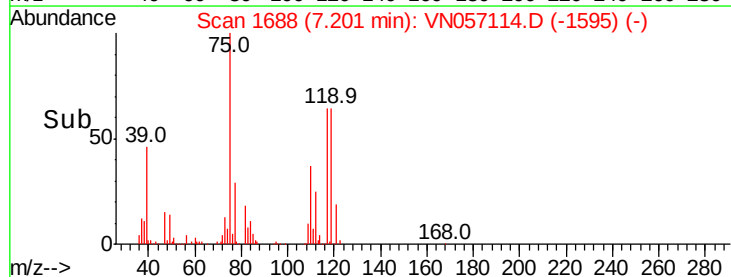
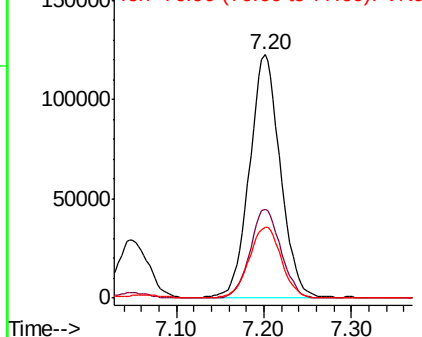


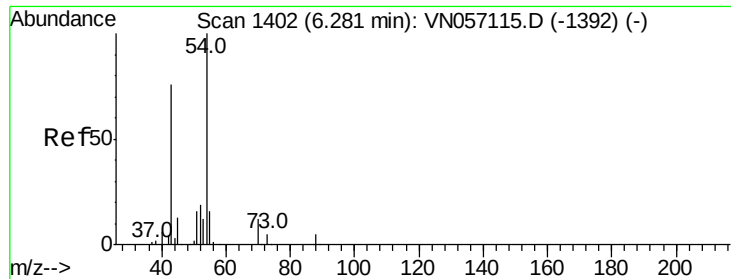
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





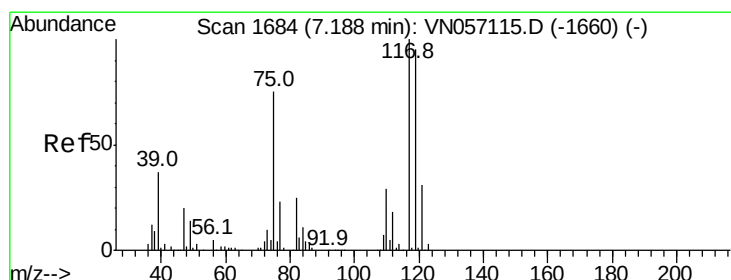
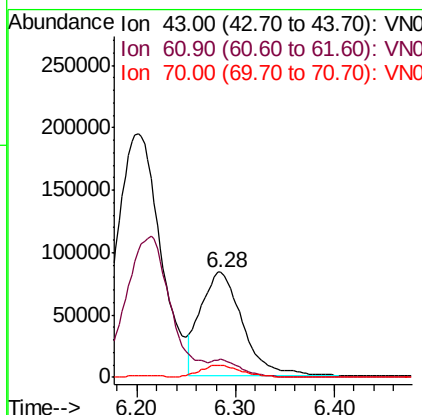
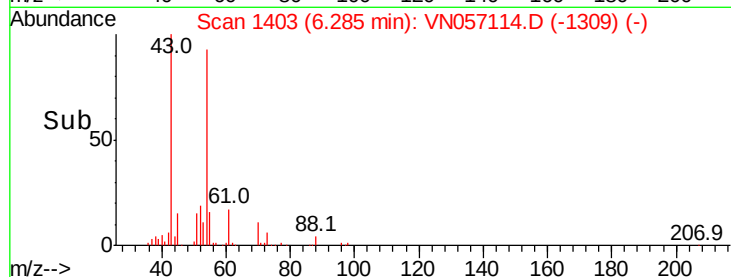
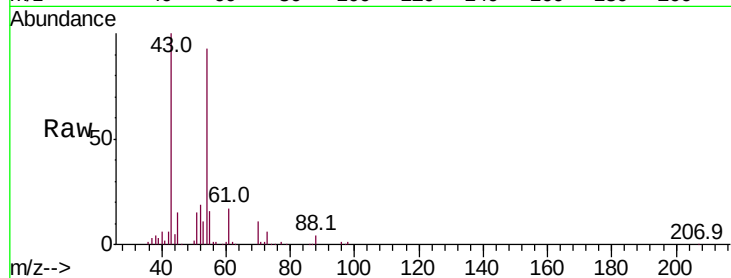
#37
Ethyl Acetate
Concen: 21.203 ug/l
RT: 6.28 min Scan# 1403
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	0.0	0.0
70	11.5	9.1	13.7

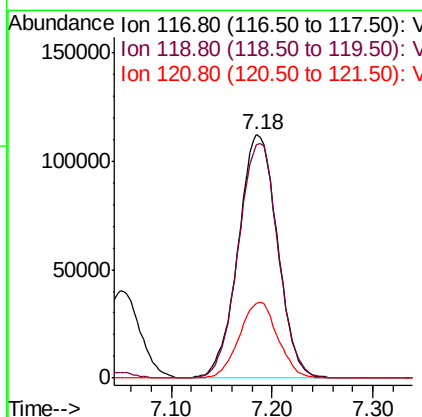
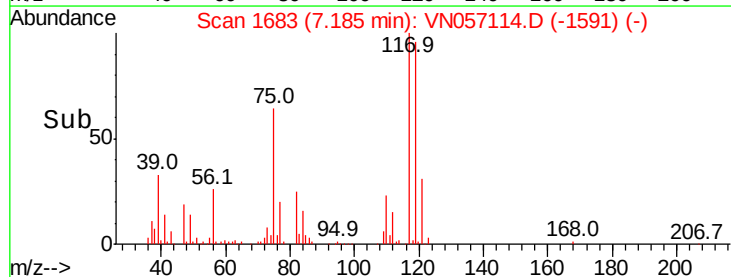
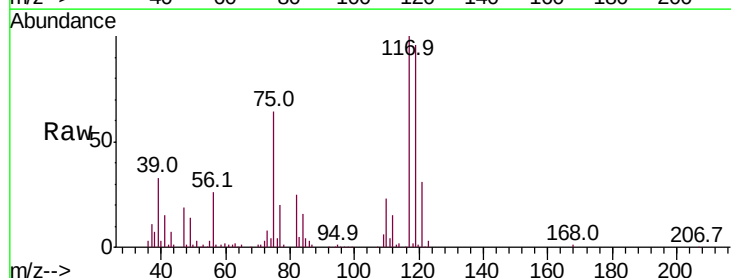
Manual Integrations
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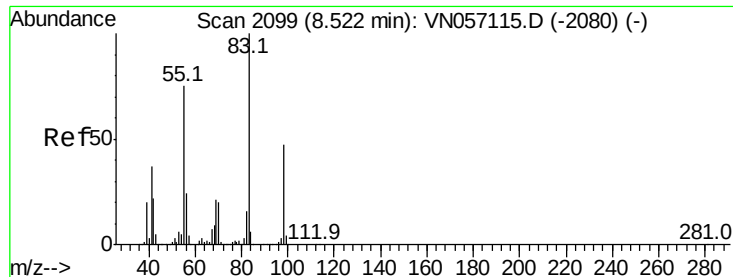
MMDadoda
8/8/2019 2:40:24 PM



#38
Carbon Tetrachloride
Concen: 20.514 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.8	75.8	113.6
121	30.8	24.4	36.6





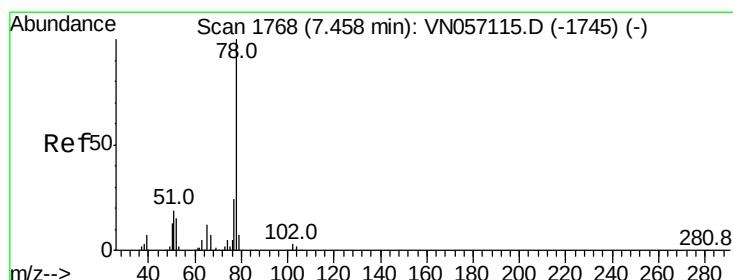
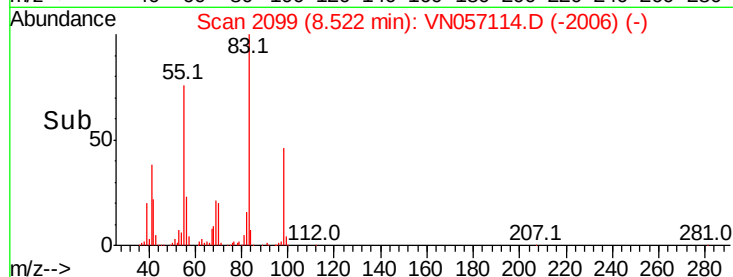
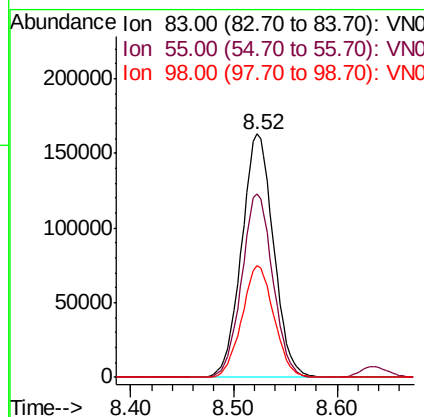
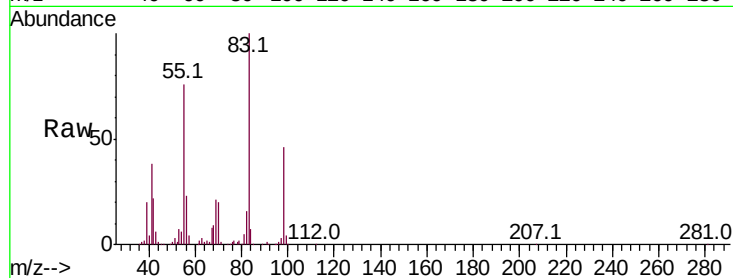
#39
Methylvlcyclohexane
Concen: 19.712 ug/l
RT: 8.52 min Scan# 2099
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.6	60.3	90.5
98	45.8	37.9	56.9

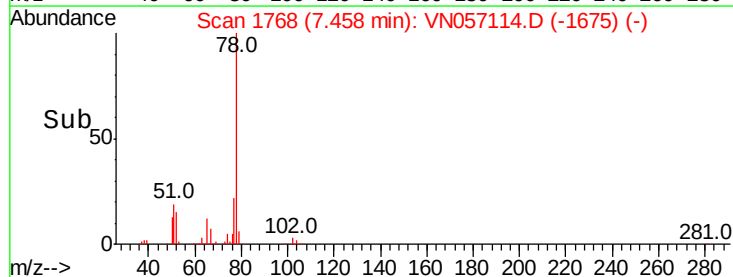
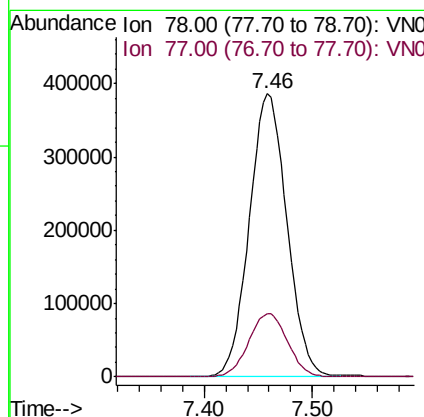
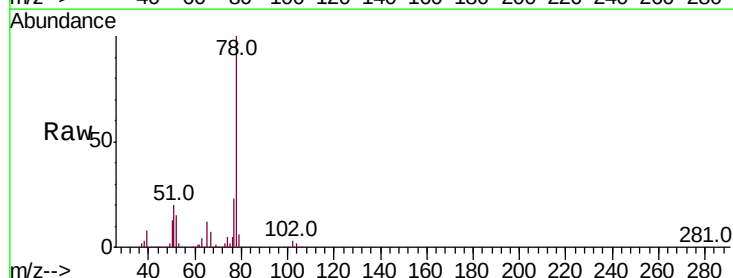
Manual Integrations
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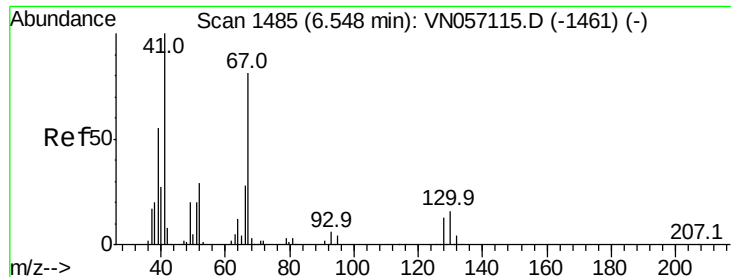
MMDadoda
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#40
Benzene
Concen: 19.761 ug/l
RT: 7.46 min Scan# 1768
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.6	19.2	28.8





#41

Methacrylonitrile

Concen: 25.365 ug/l

RT: 6.55 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 41 Resp: 124765

Ion Ratio Lower Upper

41 100

39 58.6 44.9 67.3

67 88.0 69.1 103.7

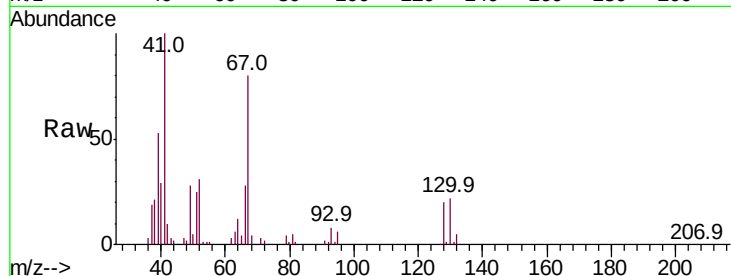
52 36.0 25.8 38.6

Manual Integrations

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MMDadoda

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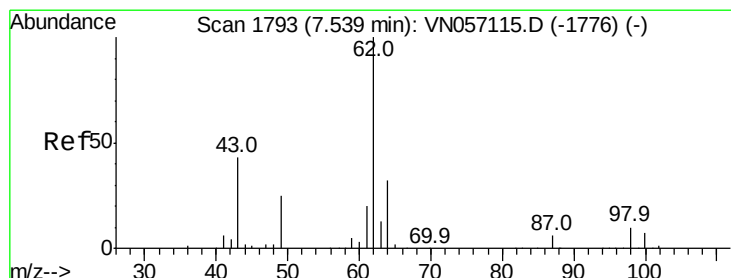
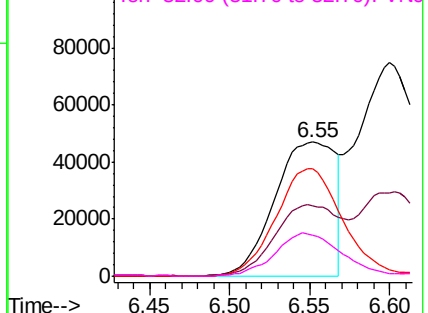
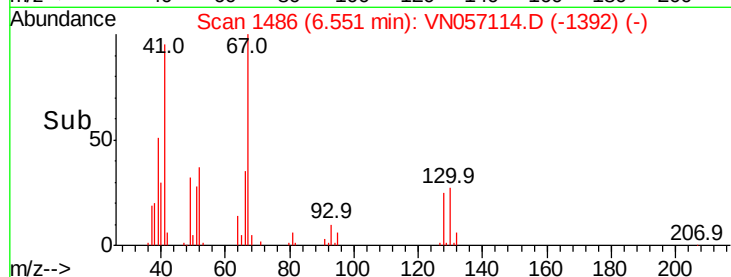


Abundance Ion 41.00 (40.70 to 41.70): VN0

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: 19.962 ug/l

RT: 7.54 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VN057114.D

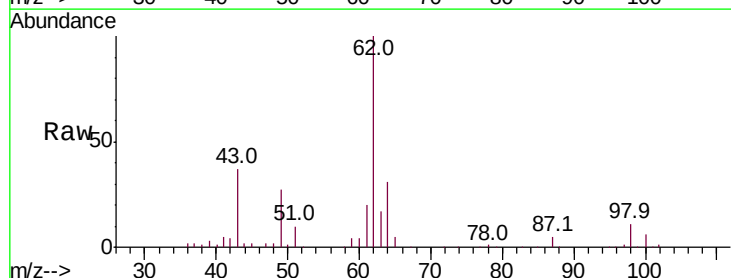
Acq: 7 Aug 2019 19:43

Tgt Ion: 62 Resp: 295780

Ion Ratio Lower Upper

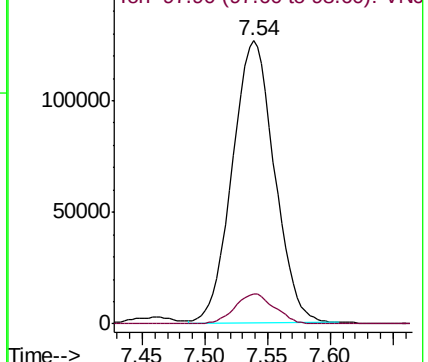
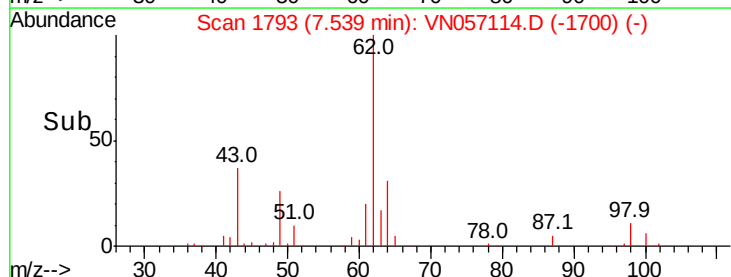
62 100

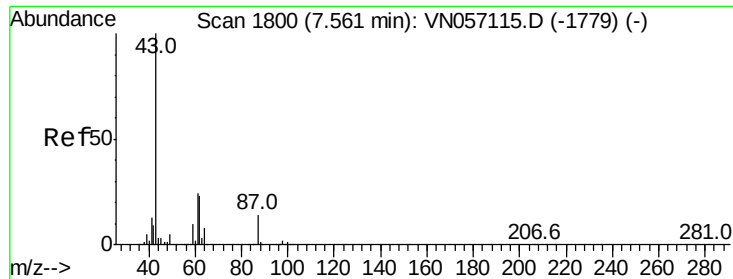
98 10.1 0.0 19.4



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





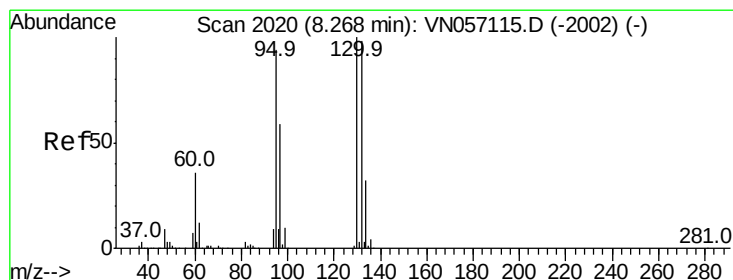
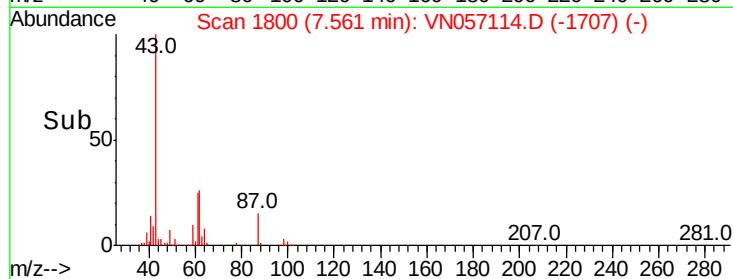
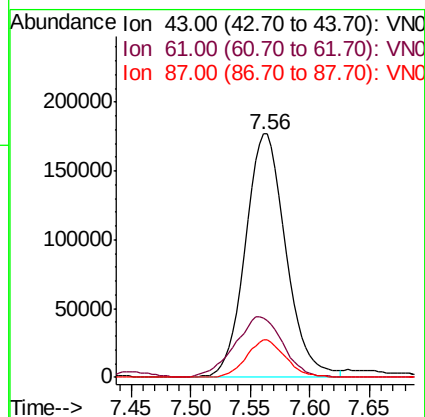
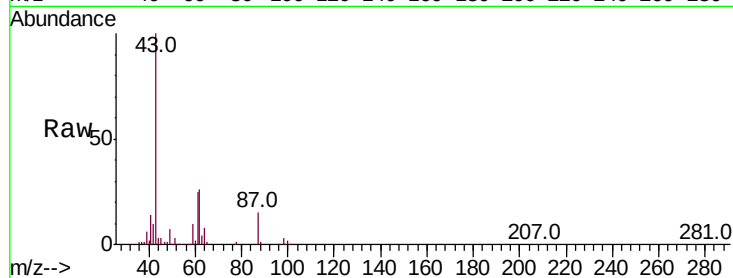
#43
Isopropyl Acetate
Concen: 19.452 ug/l
RT: 7.56 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.7	24.2	36.2
87	14.9	11.8	17.8

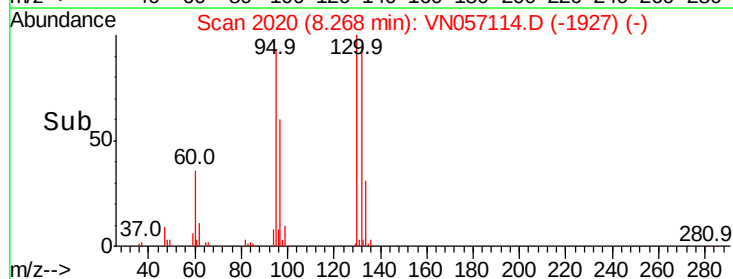
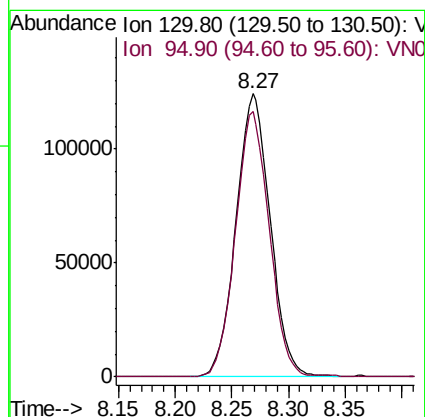
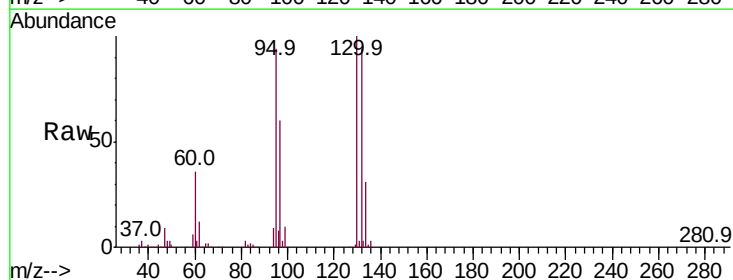
Manual Integrations
APPROVED

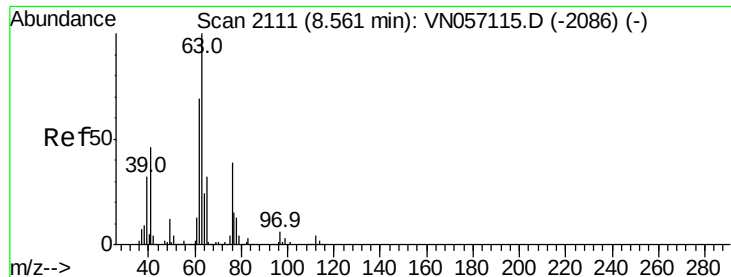
MMDadoda
8/8/2019 2:40:24 PM



#44
Trichloroethene
Concen: 20.268 ug/l
RT: 8.27 min Scan# 2020
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.7	0.0	187.4





#45

1,2-Dichloropropane

Concen: 19.816 ug/l

RT: 8.56 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 242546

Ion Ratio Lower Upper

63 100

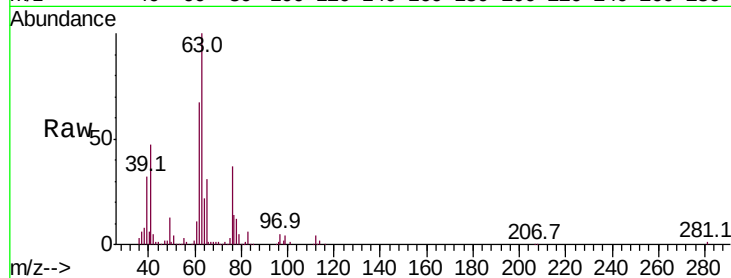
65 30.8 25.2 37.8

Manual Integrations

APPROVED

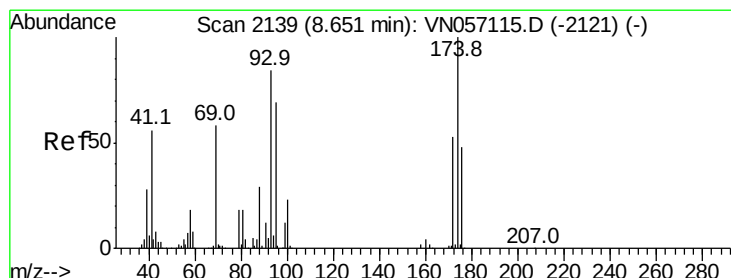
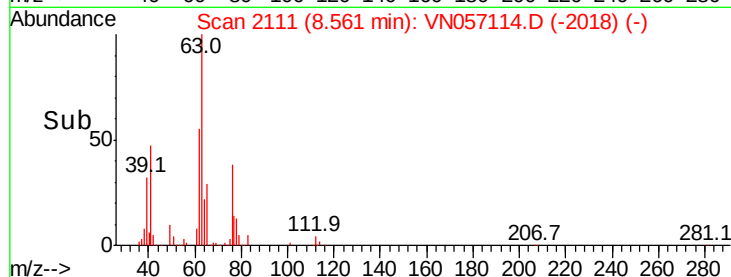
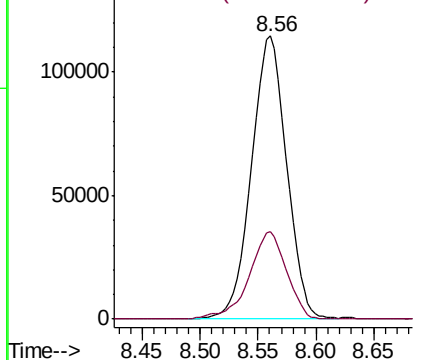
MMDadoda

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Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#46

Dibromomethane

Concen: 20.325 ug/l

RT: 8.65 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

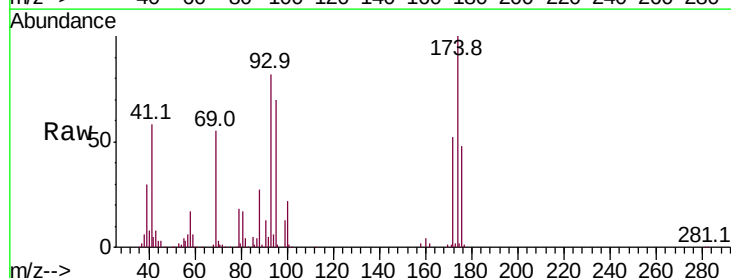
Tgt Ion: 93 Resp: 154913

Ion Ratio Lower Upper

93 100

95 85.9 66.0 99.0

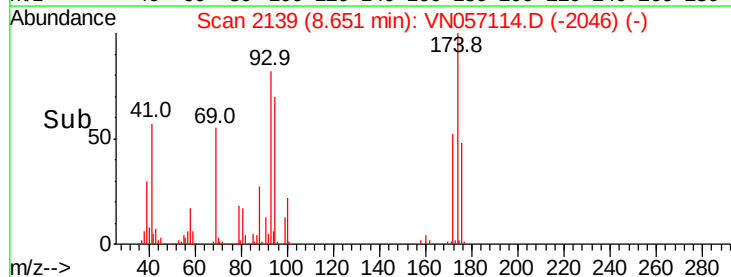
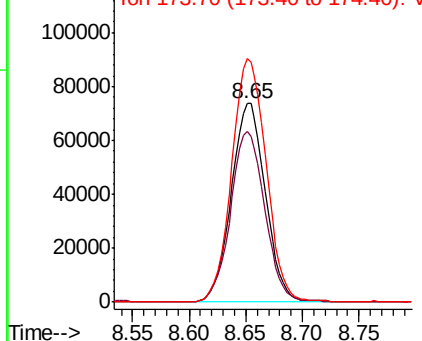
174 123.6 96.0 144.0

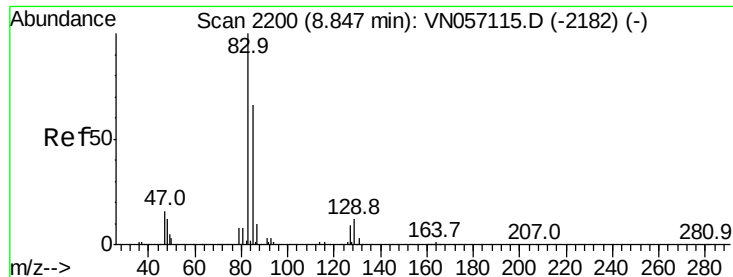


Abundance Ion 92.80 (92.50 to 93.50): VNO

Ion 94.80 (94.50 to 95.50): VNO

Ion 173.70 (173.40 to 174.40): VNO





#47

Bromodichloromethane

Concen: 20.599 ug/l

RT: 8.85 min Scan# 2200

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

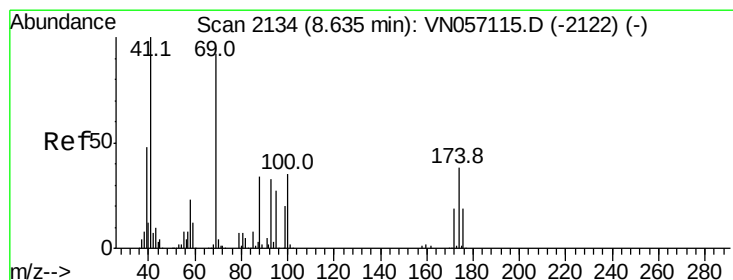
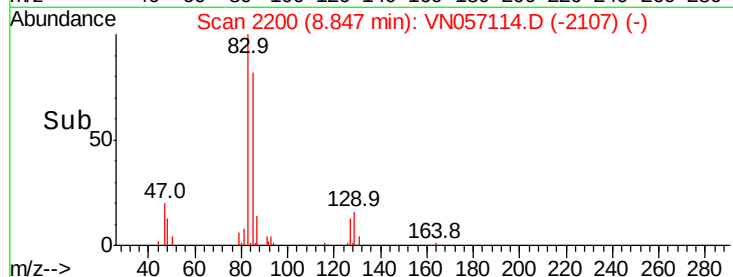
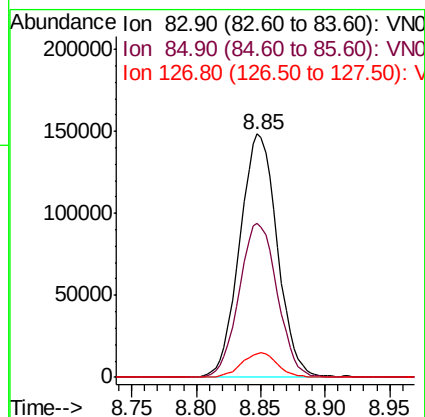
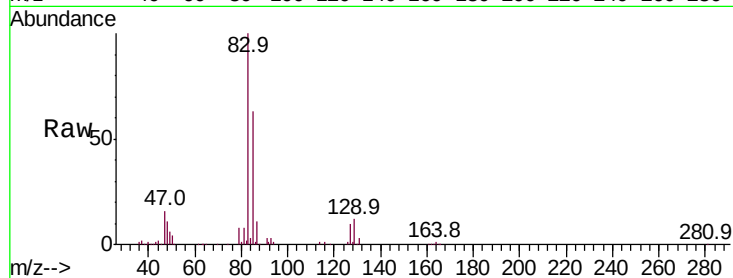
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	301186
Ion Ratio	Lower	Upper	
83	100		
85	63.4	52.6	78.8
127	9.9	7.5	11.3

Manual Integrations
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MMDadoda
8/8/2019 2:40:24 PM



#48

Methyl methacrylate

Concen: 20.319 ug/l

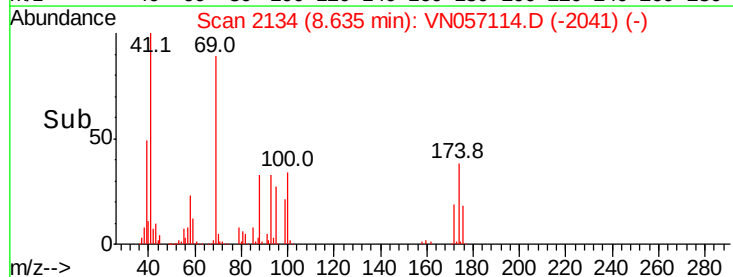
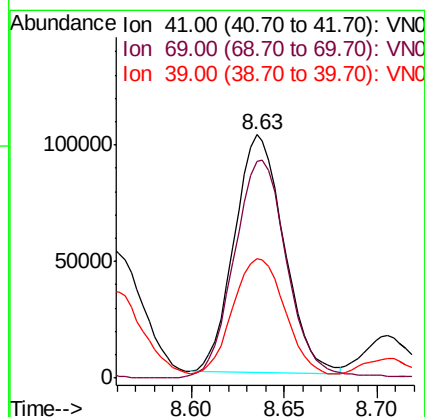
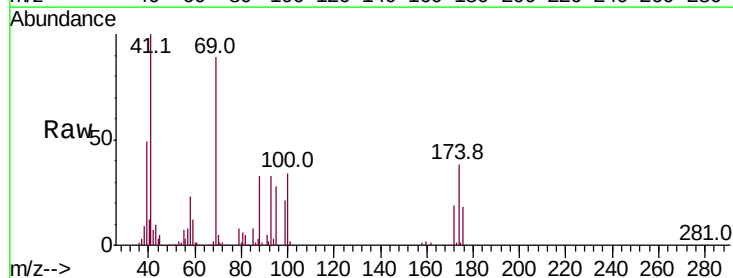
RT: 8.63 min Scan# 2134

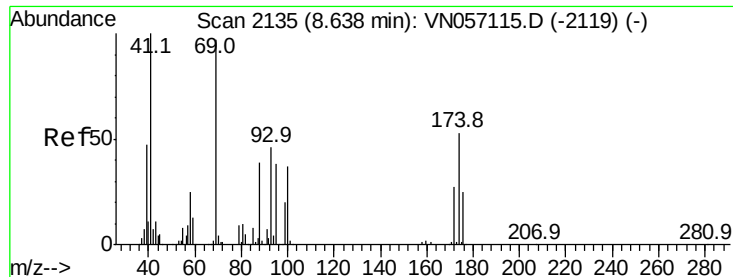
Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Tgt Ion:	41	Resp:	190639
Ion Ratio	Lower	Upper	
41	100		
69	97.4	77.5	116.3
39	50.8	39.8	59.6





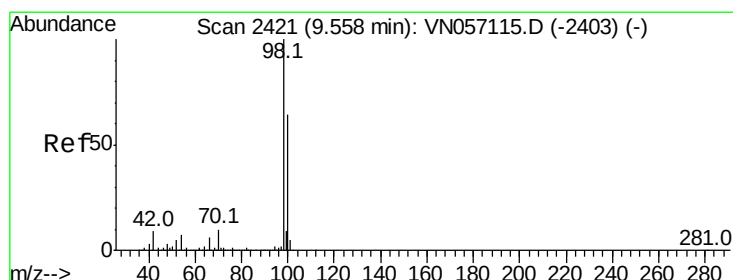
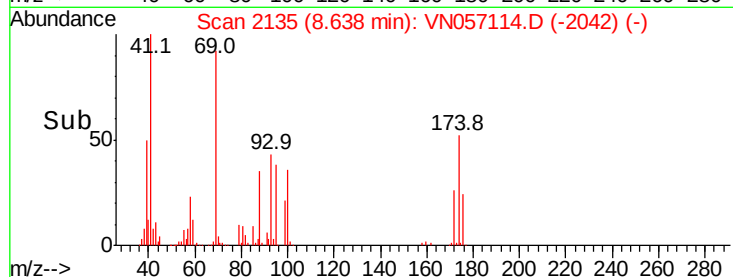
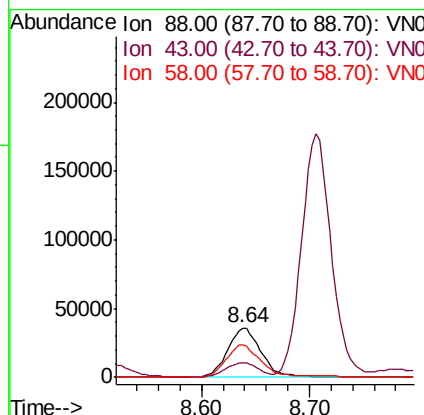
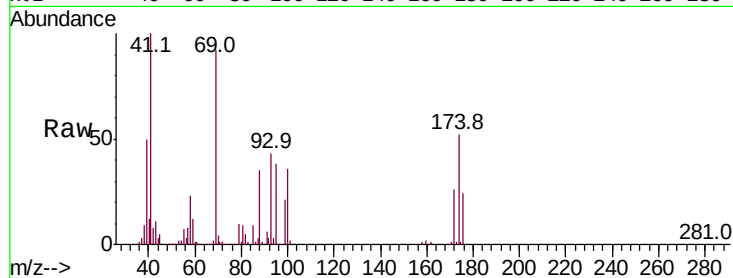
#49
1,4-Dioxane
Concen: 412.046 ug/l
RT: 8.64 min Scan# 2135
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	27.7	21.7	32.5
58	66.9	51.1	76.7

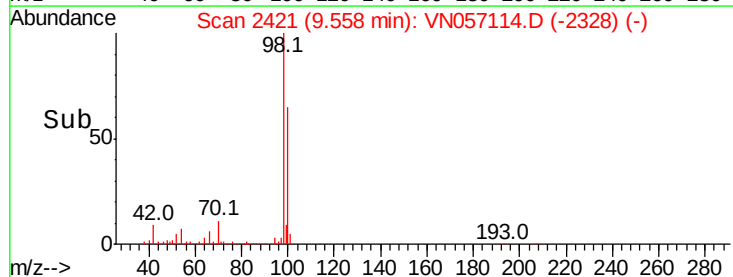
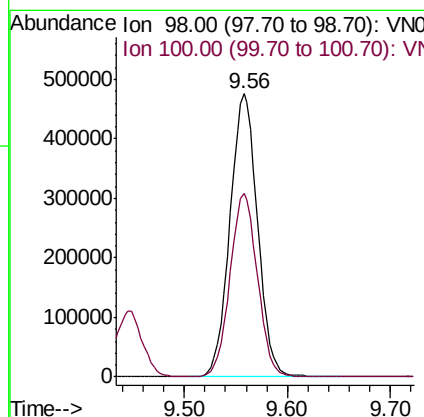
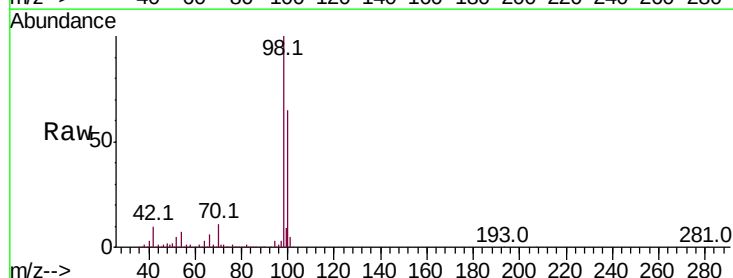
Manual Integrations
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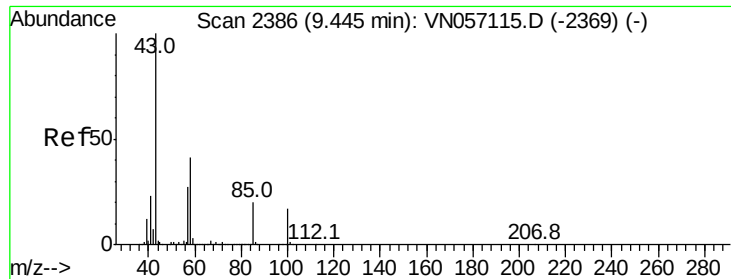
MMDadoda
8/8/2019 2:40:24 PM



#50
Toluene-d8
Concen: 21.116 ug/l
RT: 9.56 min Scan# 2421
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 115.617 ug/l

RT: 9.45 min Scan# 2386

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 1231199

Ion Ratio Lower Upper

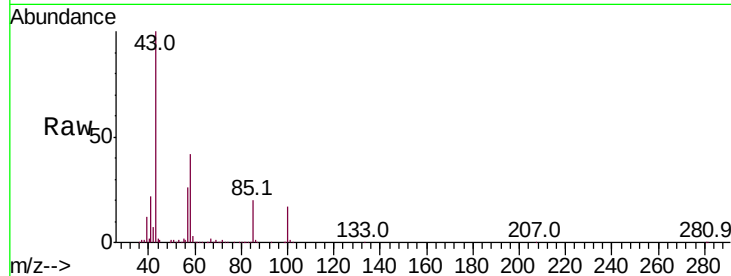
43 100

58 42.0 33.2 49.8

Manual Integrations
APPROVED

MMDadoda

8/8/2019 2:40:24 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.45

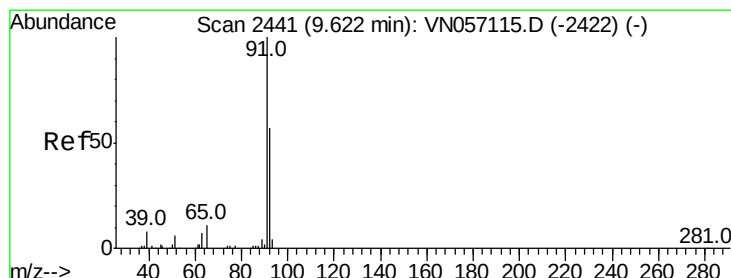
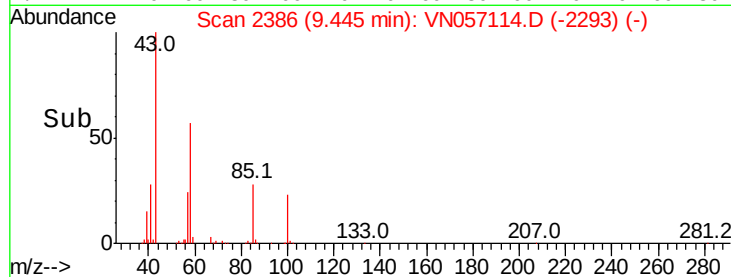
600000

400000

200000

0

Time-->



#52

Toluene

Concen: 20.526 ug/l

RT: 9.63 min Scan# 2442

Delta R.T. 0.00 min

Lab File: VN057114.D

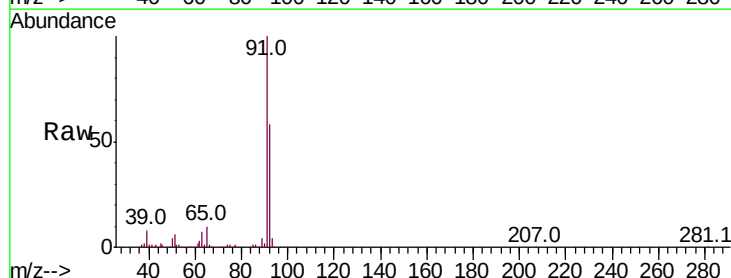
Acq: 7 Aug 2019 19:43

Tgt Ion: 92 Resp: 589852

Ion Ratio Lower Upper

92 100

91 173.6 139.8 209.8



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

9.63

600000

500000

400000

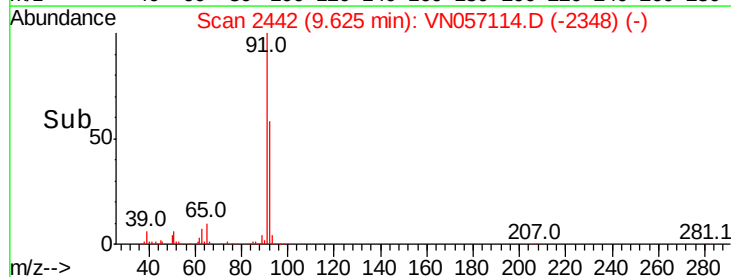
300000

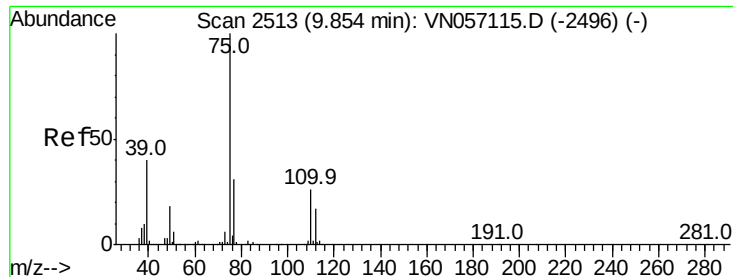
200000

100000

0

Time-->





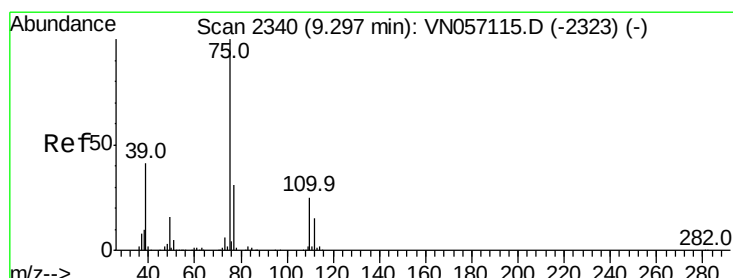
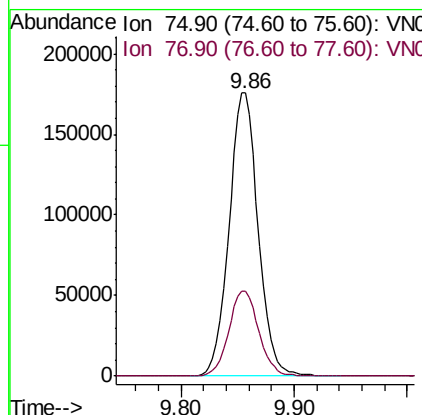
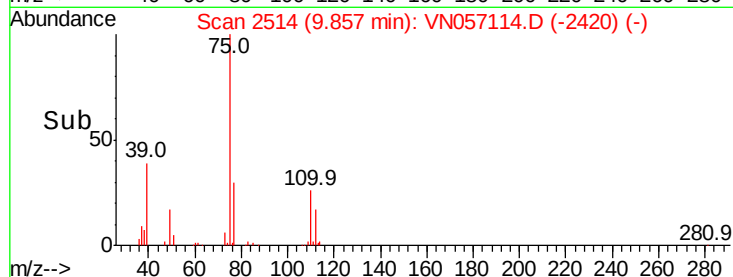
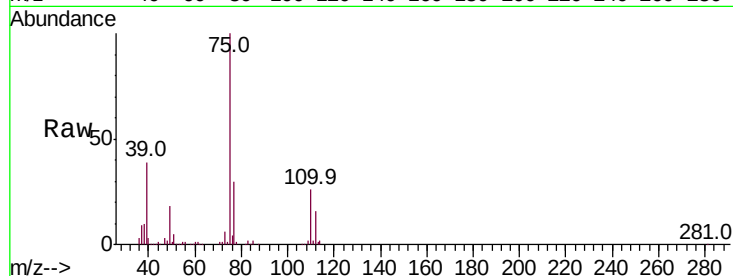
#53
t-1,3-Dichloropropene
Concen: 20.405 ug/l
RT: 9.86 min Scan# 2514
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	29.8	24.8	37.2

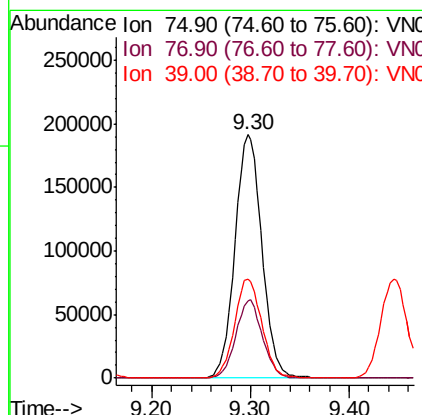
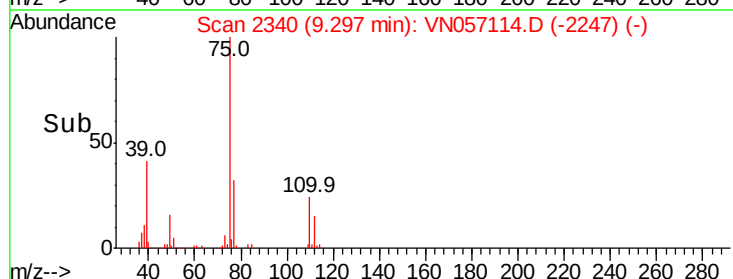
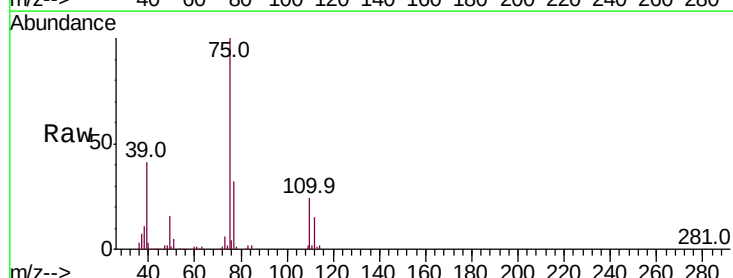
Manual Integrations
APPROVED

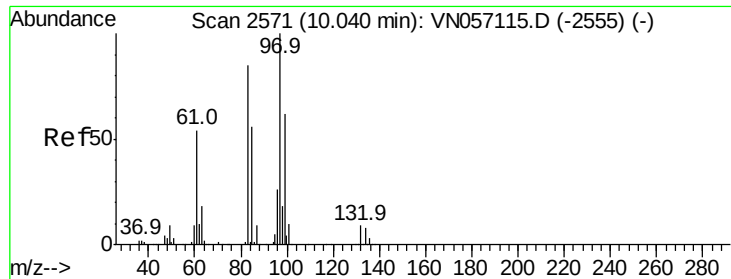
MMDadoda
8/8/2019 2:40:24 PM



#54
cis-1,3-Dichloropropene
Concen: 20.220 ug/l
RT: 9.30 min Scan# 2340
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.1	37.7
39	40.8	32.5	48.7





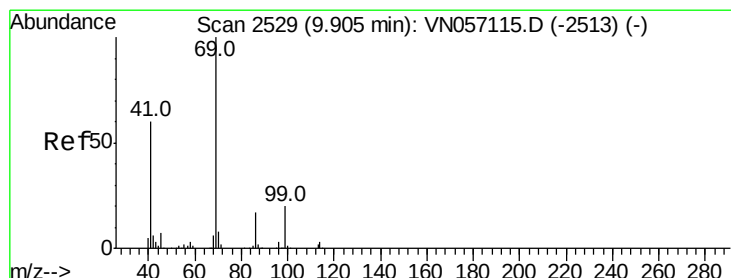
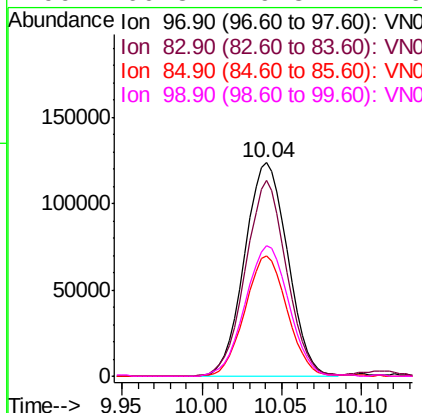
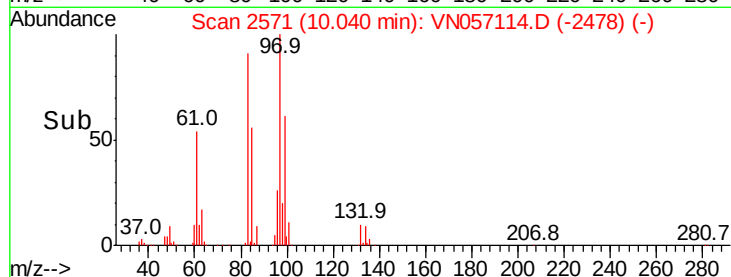
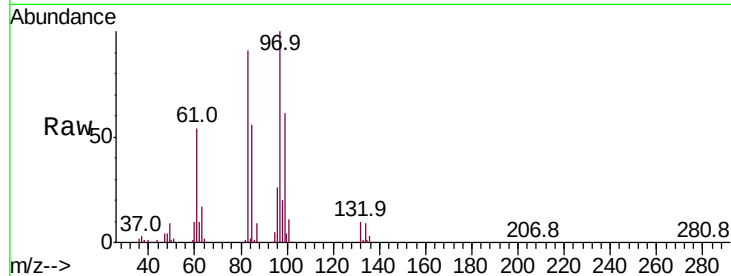
#55
 1,1,2-Trichloroethane
 Concen: 20.762 ug/l
 RT: 10.04 min Scan# 2571
 Delta R.T. 0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
97	100	227684		
83	91.4	67.8	101.8	
85	56.5	44.4	66.6	
99	60.8	49.8	74.6	

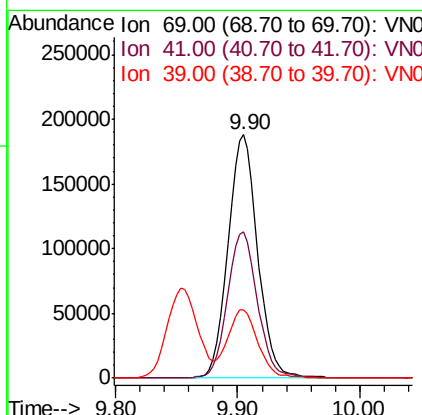
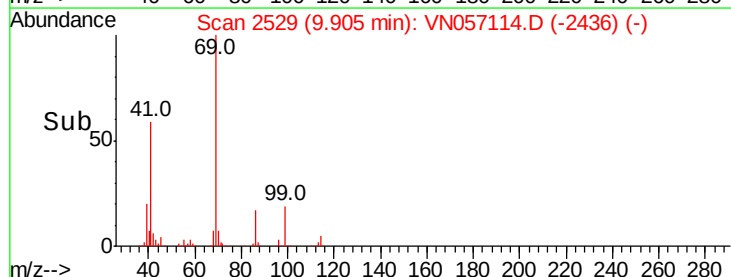
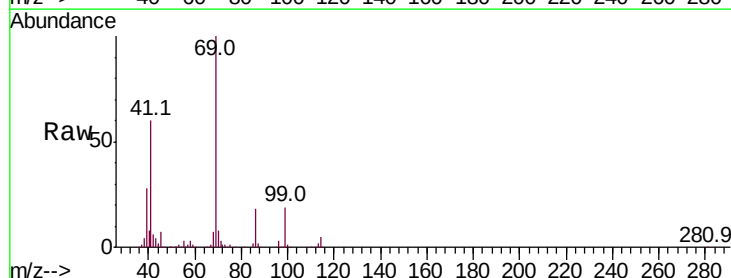
Manual Integrations
 APPROVED

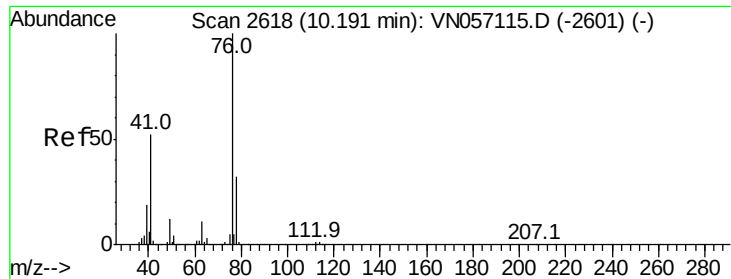
MMDadoda
 8/8/2019 2:40:24 PM



#56
 Ethyl methacrylate
 Concen: 21.175 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	318162		
41	60.8	48.1	72.1	
39	29.2	23.6	35.4	





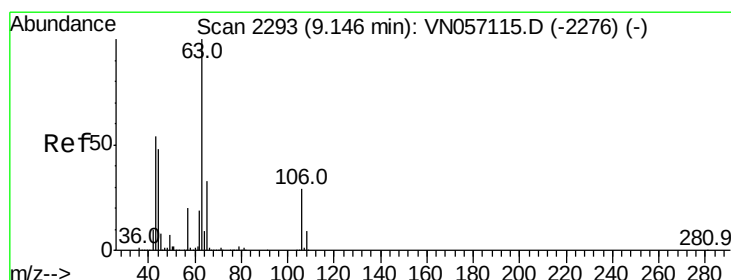
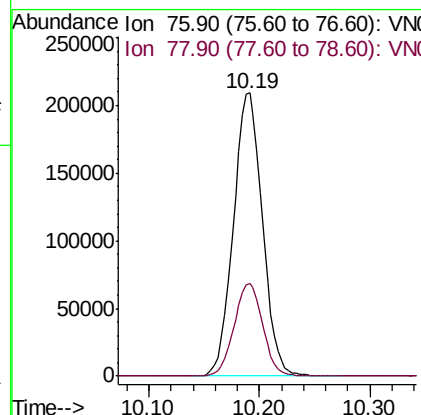
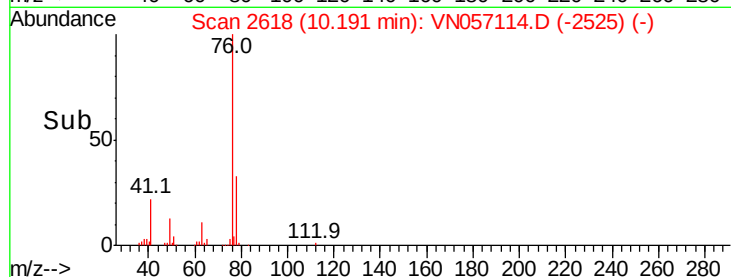
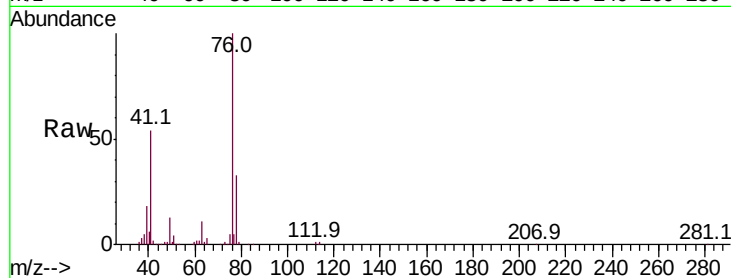
#57
 1,3-Dichloropropane
 Concen: 20.944 ug/l
 RT: 10.19 min Scan# 2618
 Delta R.T. 0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.9	38.9

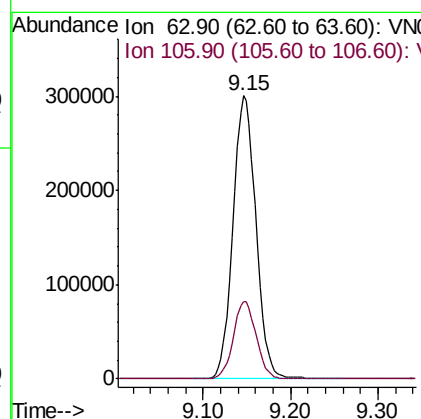
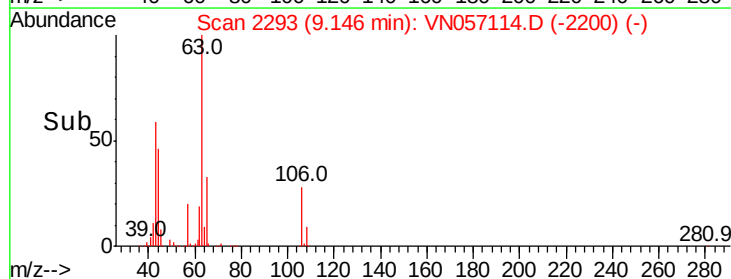
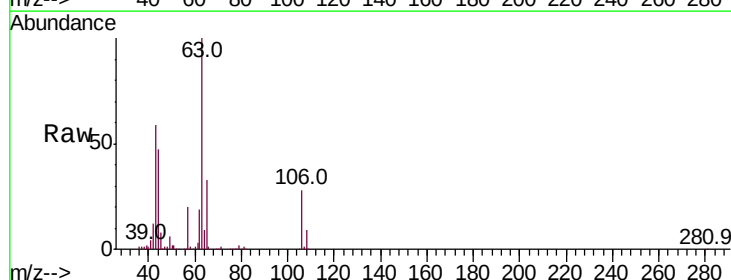
Manual Integrations
 APPROVED

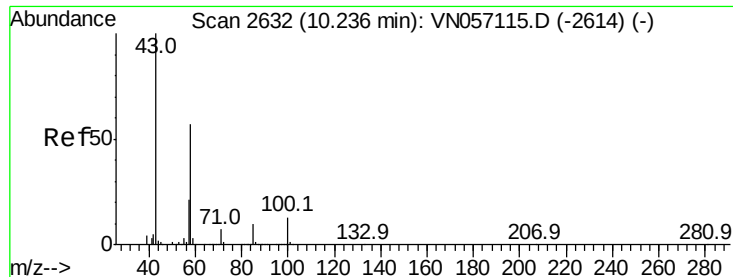
MMDadoda
 8/8/2019 2:40:24 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 100.765 ug/l
 RT: 9.15 min Scan# 2293
 Delta R.T. 0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.3	22.6	33.8





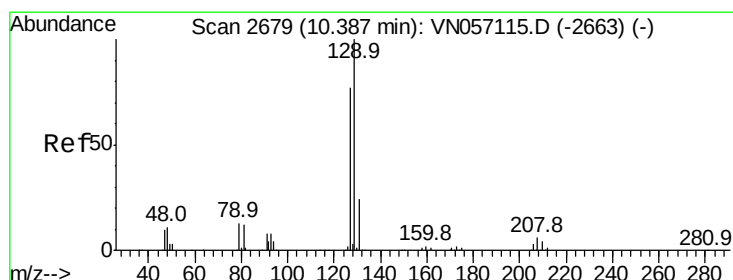
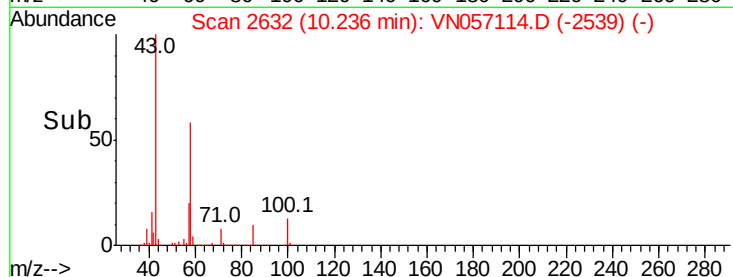
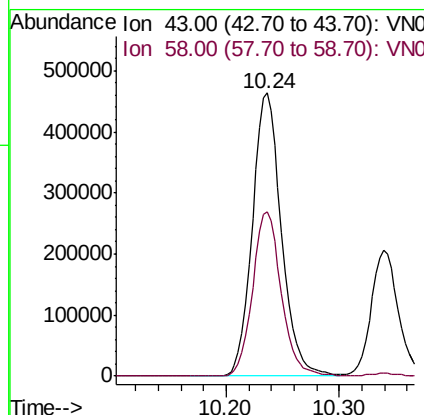
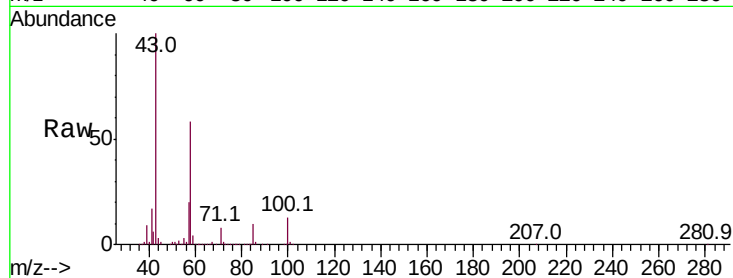
#59
2-Hexanone
Concen: 108.207 ug/l
RT: 10.24 min Scan# 2632
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	57.4	29.2	87.6

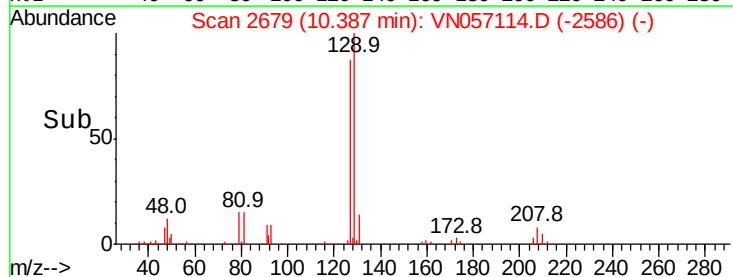
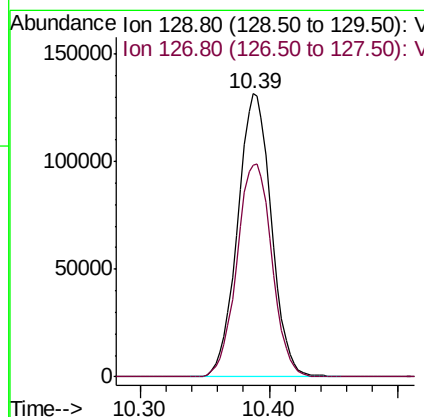
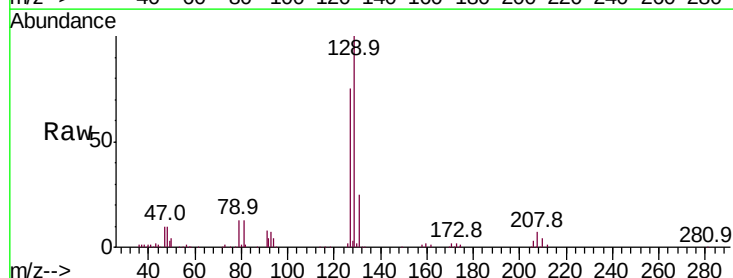
Manual Integrations
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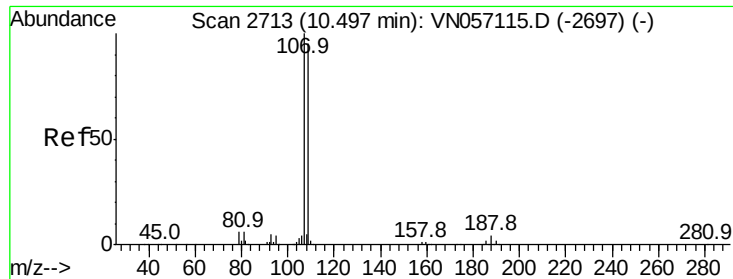
MMDadoda
8/8/2019 2:40:24 PM



#60
Dibromochloromethane
Concen: 20.946 ug/l
RT: 10.39 min Scan# 2679
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.6	116.0





#61

1,2-Dibromoethane

Concen: 21.160 ug/l

RT: 10.50 min Scan# 2713

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 237017

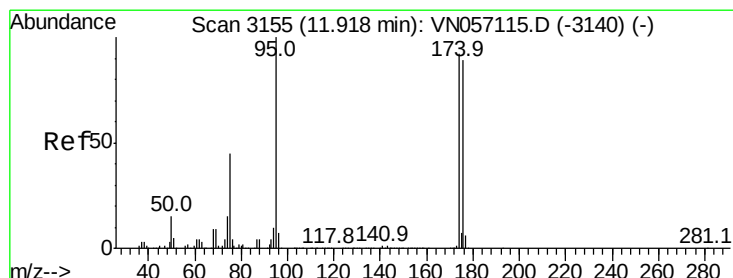
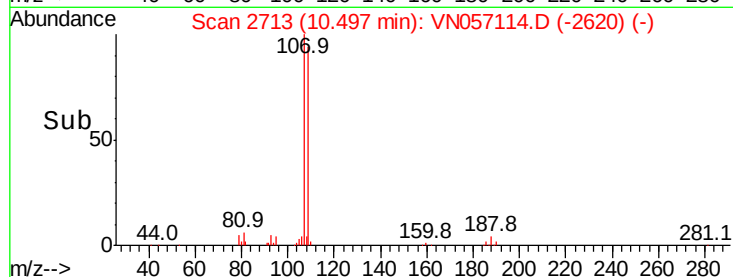
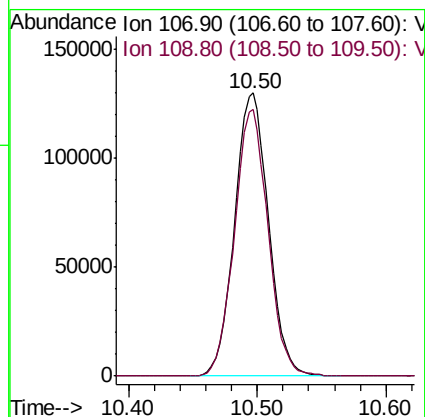
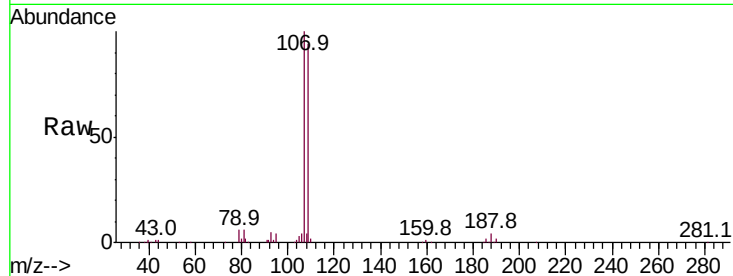
Ion Ratio Lower Upper

107 100

109 93.5 75.6 113.4

Manual Integrations
APPROVED

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#62

4-Bromofluorobenzene

Concen: 19.781 ug/l

RT: 11.92 min Scan# 3155

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

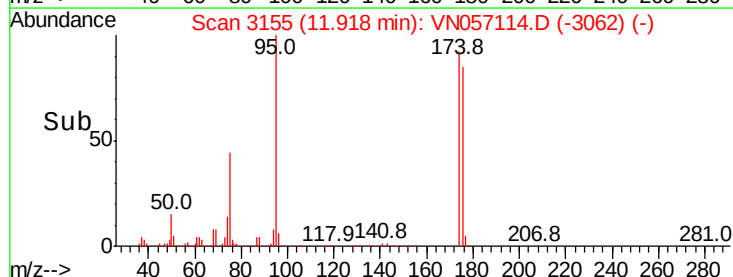
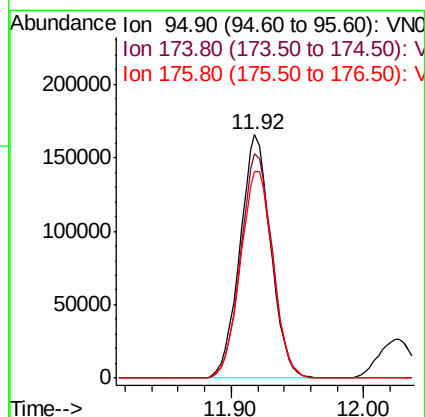
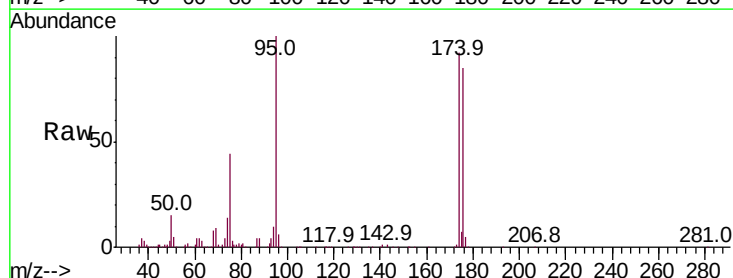
Tgt Ion: 95 Resp: 266717

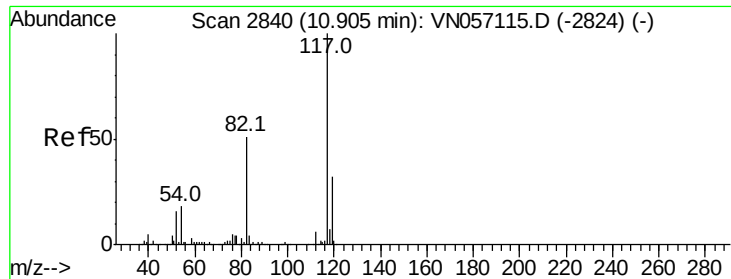
Ion Ratio Lower Upper

95 100

174 94.3 0.0 185.0

176 90.1 0.0 181.2





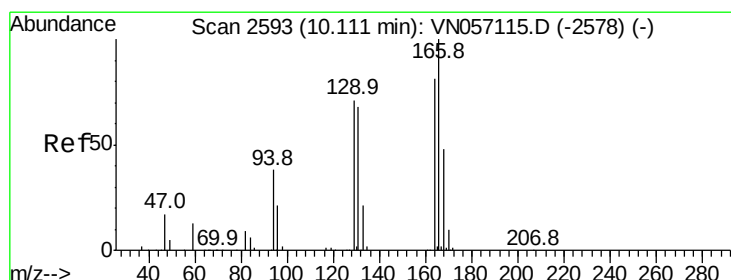
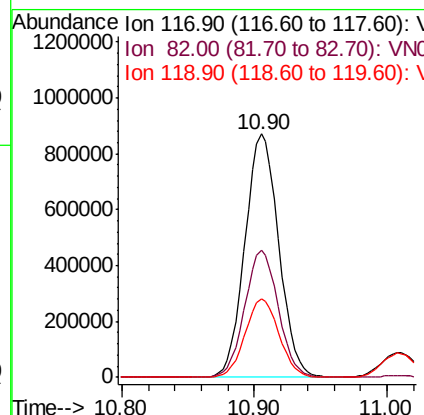
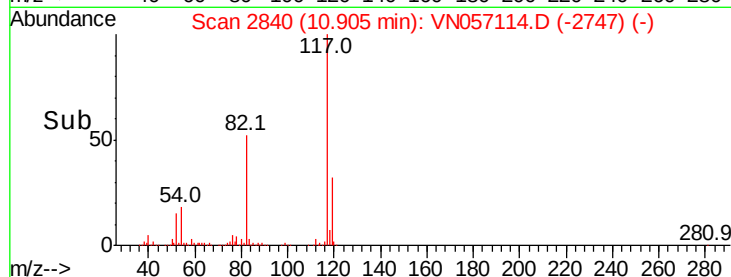
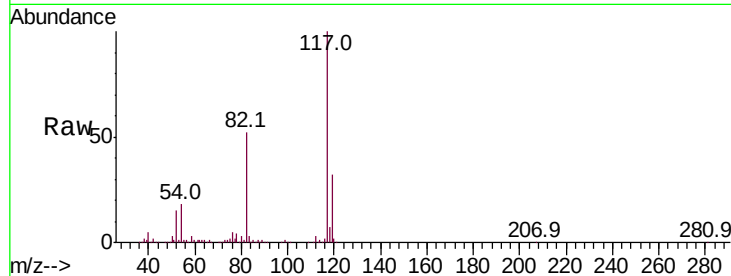
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:117 Resp: 1541414
Ion Ratio Lower Upper
117 100
82 52.0 40.8 61.2
119 32.2 25.7 38.5

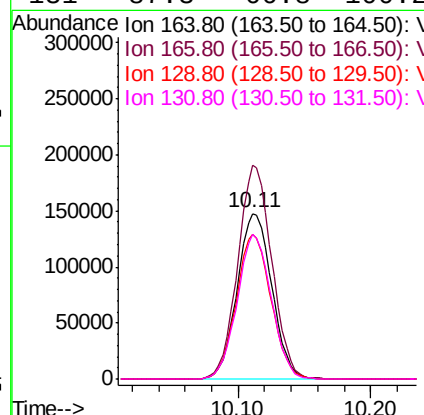
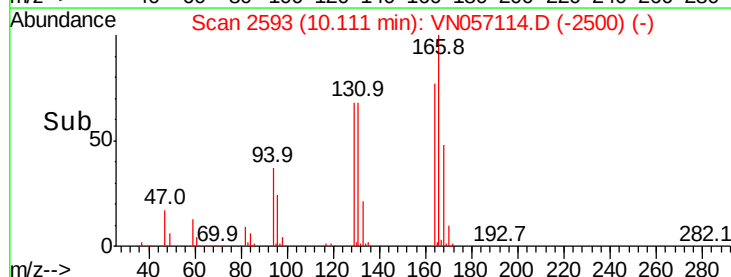
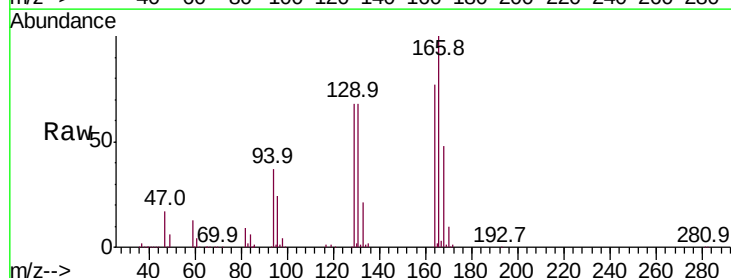
Manual Integrations
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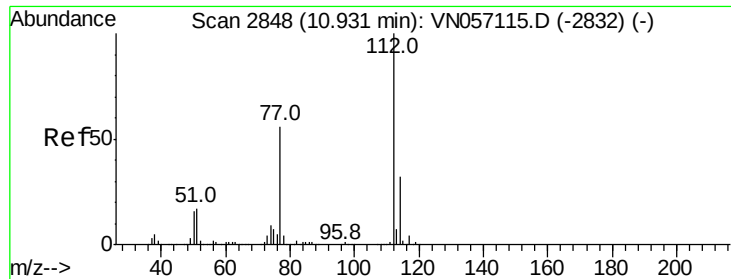
MMDadoda
8/8/2019 2:40:24 PM



#64
Tetrachloroethene
Concen: 20.645 ug/l
RT: 10.11 min Scan# 2593
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Tgt Ion:164 Resp: 267714
Ion Ratio Lower Upper
164 100
166 129.1 98.3 147.5
129 87.7 69.8 104.6
131 87.3 66.8 100.2





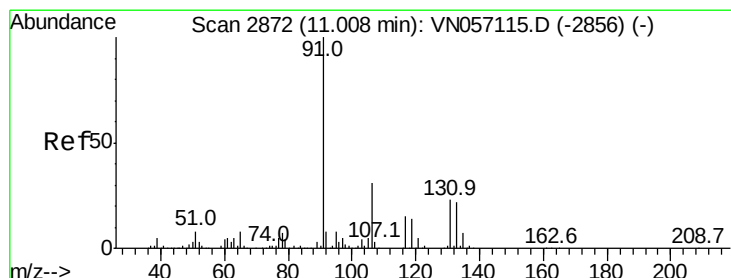
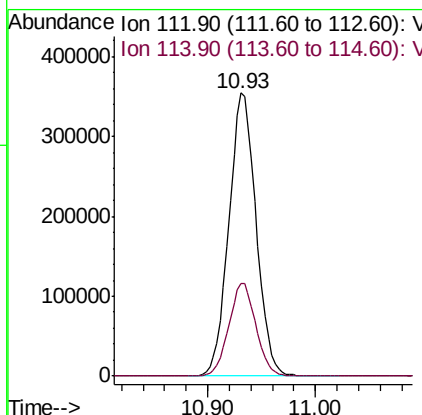
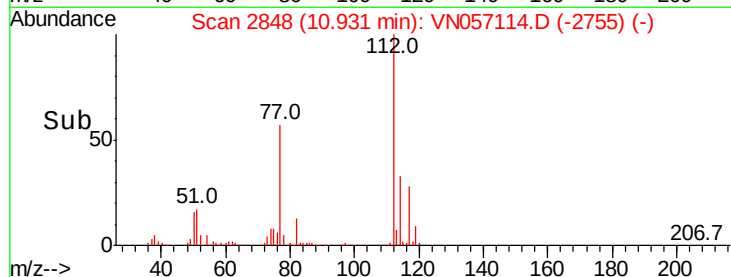
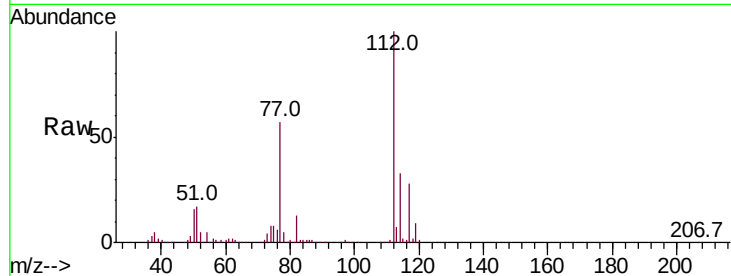
#65
Chlorobenzene
Concen: 20.049 ug/l
RT: 10.93 min Scan# 2848
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:112 Resp: 623897
Ion Ratio Lower Upper
112 100
114 33.0 25.4 38.2

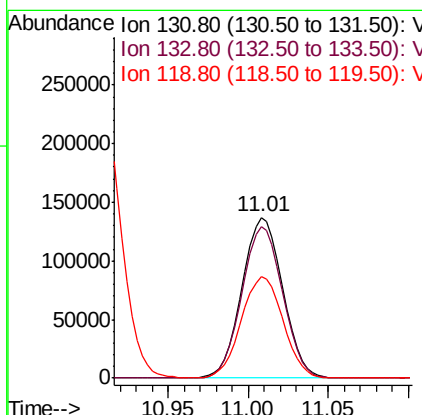
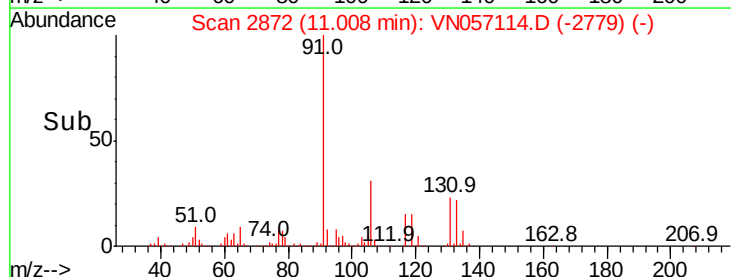
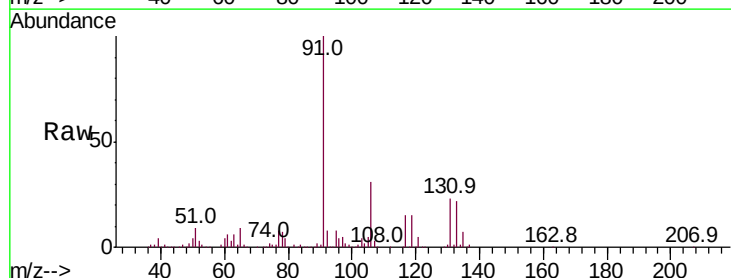
Manual Integrations
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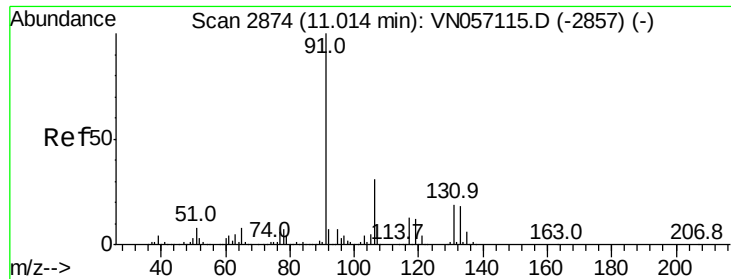
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.726 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Tgt Ion:131 Resp: 237643
Ion Ratio Lower Upper
131 100
133 94.7 47.6 142.8
119 64.4 32.6 97.7





#67

Ethyl Benzene

Concen: 20.292 ug/l

RT: 11.01 min Scan# 2873

Delta R.T. -0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 1086979

Ion Ratio Lower Upper

91 100

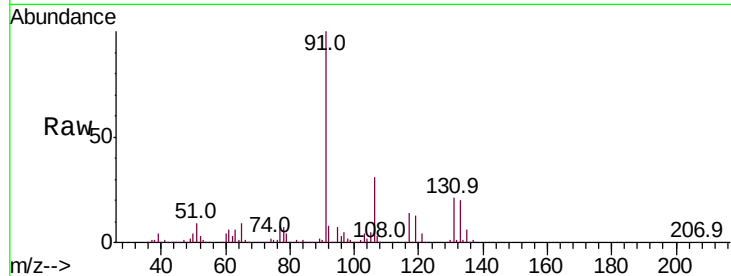
106 31.2 25.0 37.4

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V

800000

600000

400000

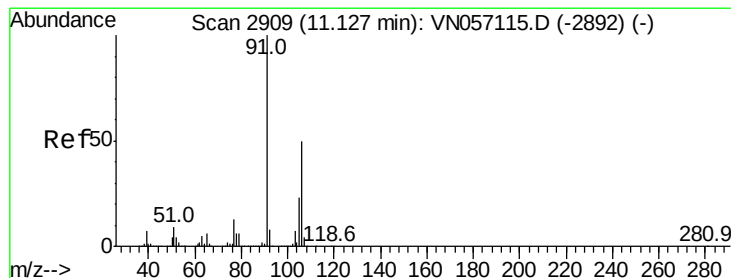
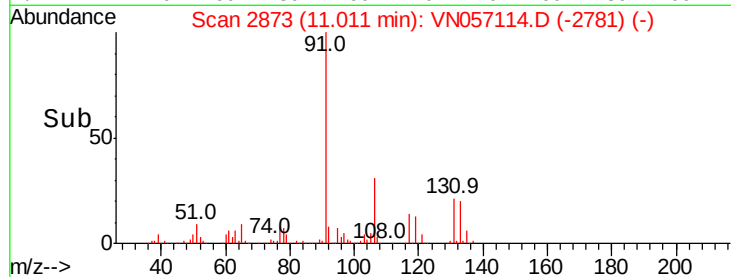
200000

0

11.01

10.95 11.00 11.05 11.10

Time-->



#68

m/p-Xylenes

Concen: 39.710 ug/l

RT: 11.12 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VN057114.D

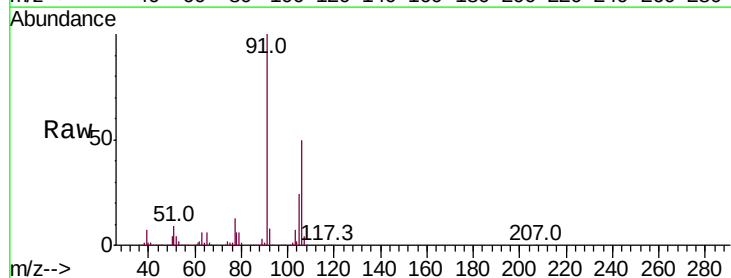
Acq: 7 Aug 2019 19:43

Tgt Ion:106 Resp: 801230

Ion Ratio Lower Upper

106 100

91 202.2 159.8 239.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

800000

600000

400000

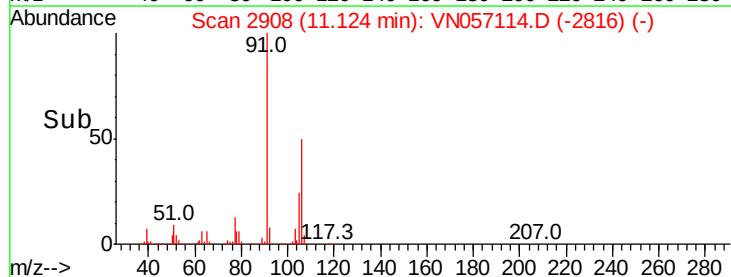
200000

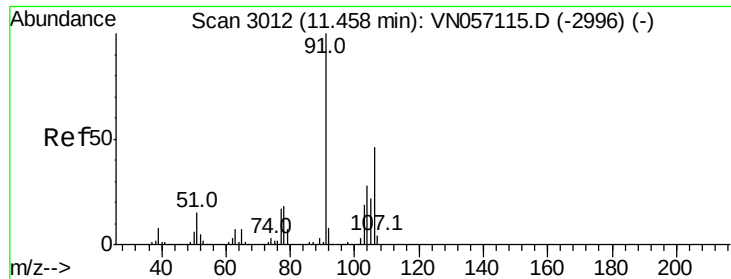
0

11.12

11.10 11.20

Time-->





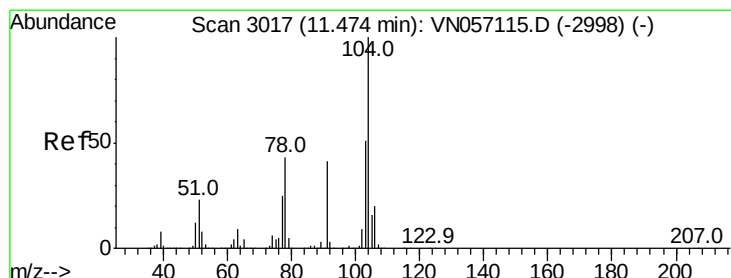
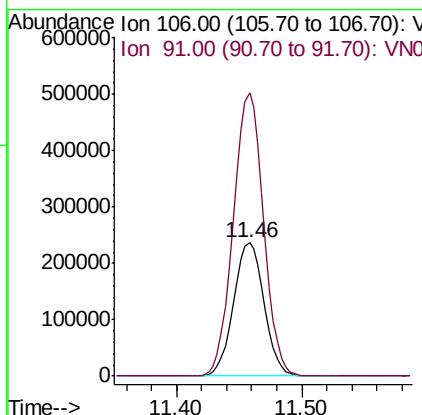
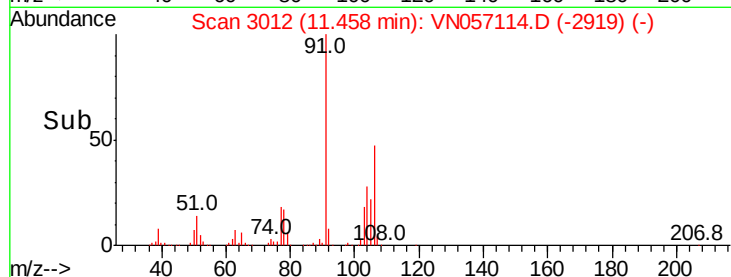
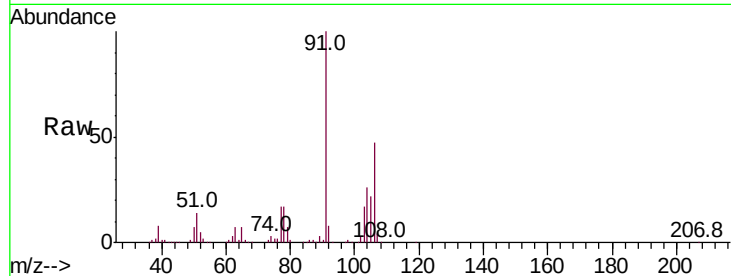
#69
o-Xylene
Concen: 20.155 ug/l
RT: 11.46 min Scan# 3012
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
106	100	399501		
91	210.4	106.8	320.5	

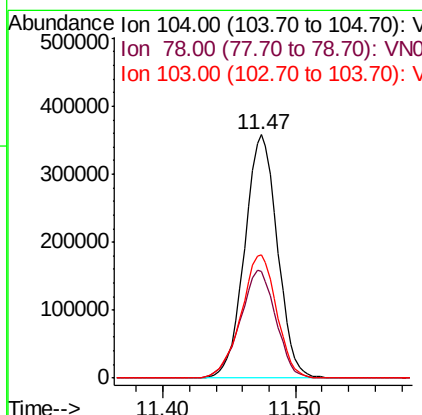
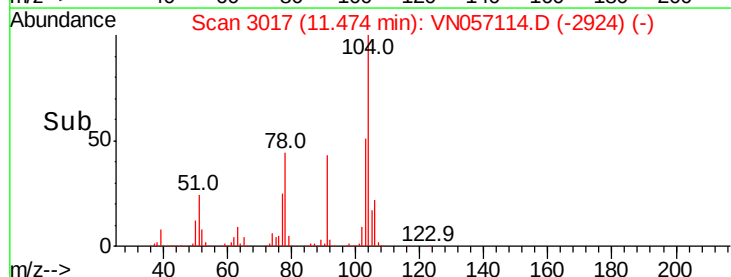
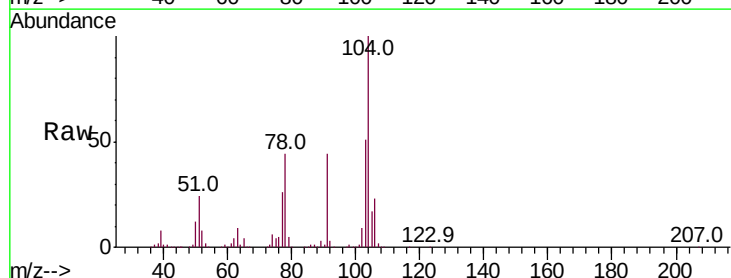
Manual Integrations
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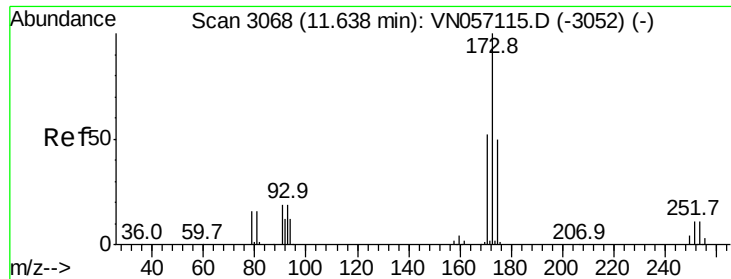
MMDadoda
8/8/2019 2:40:24 PM



#70
Styrene
Concen: 19.445 ug/l
RT: 11.47 min Scan# 3017
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	614632		
78	48.6	38.5	57.7	
103	54.9	44.6	66.8	





#71

Bromoform

Concen: 21.388 ug/l

RT: 11.64 min Scan# 3068

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:173 Resp: 173228

Ion Ratio Lower Upper

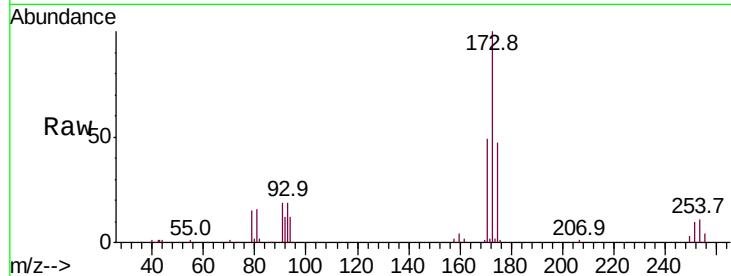
173 100

175 48.1 24.6 73.8

254 0.1 0.1 0.1#

Manual Integrations
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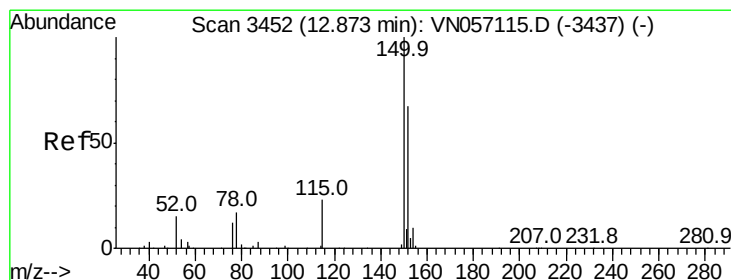
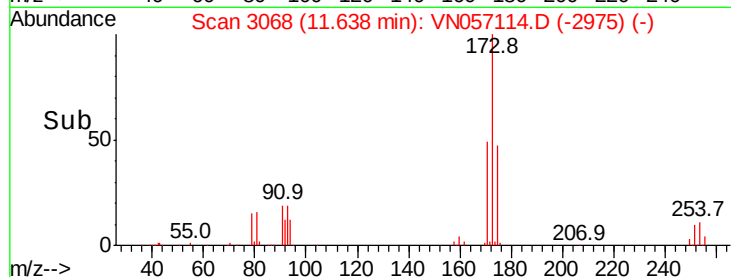
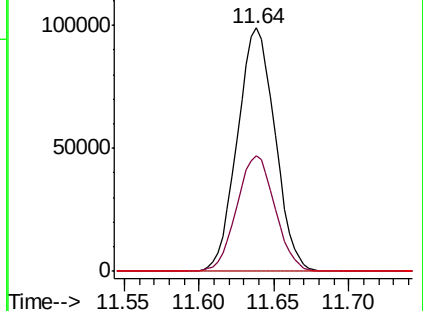
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Abundance Ion 172.70 (172.40 to 173.40): V

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: 12.87 min Scan# 3452

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

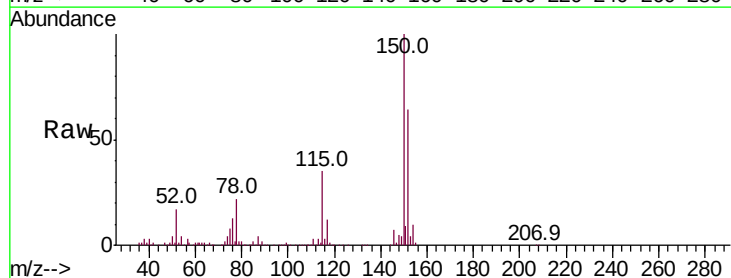
Tgt Ion:152 Resp: 543237

Ion Ratio Lower Upper

152 100

115 55.2 27.5 82.5

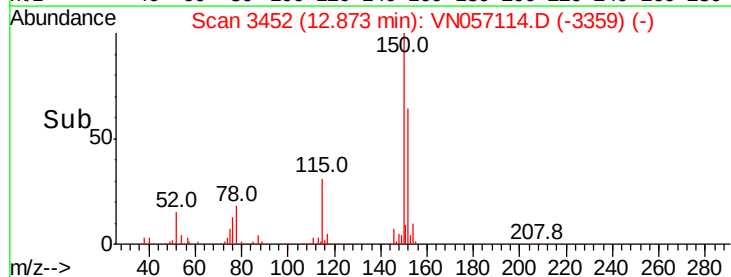
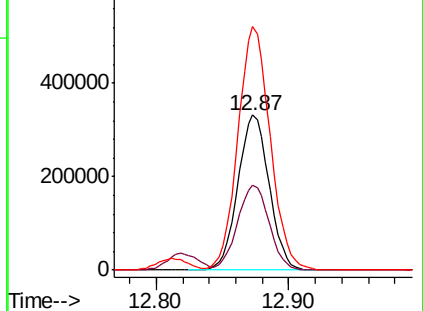
150 162.0 0.0 341.6

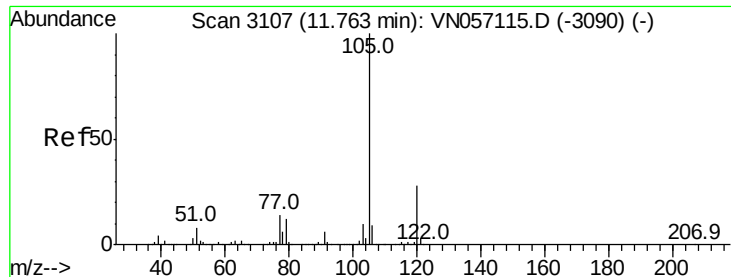


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 23.906 ug/l

RT: 11.76 min Scan# 3107

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 1054989

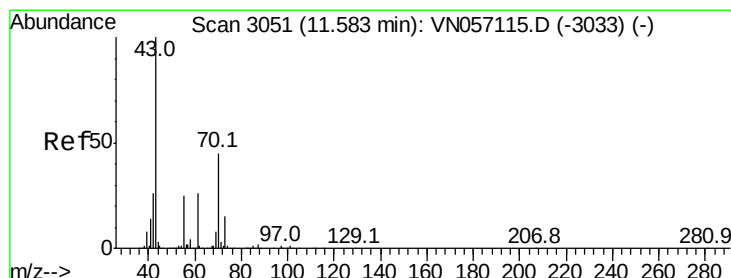
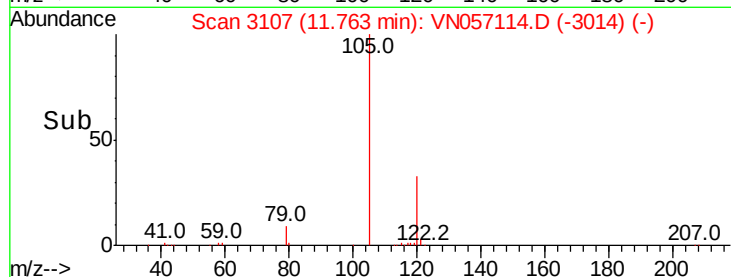
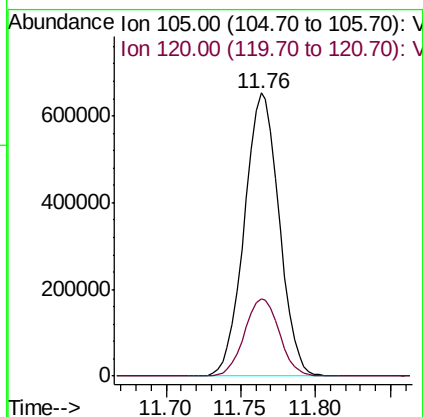
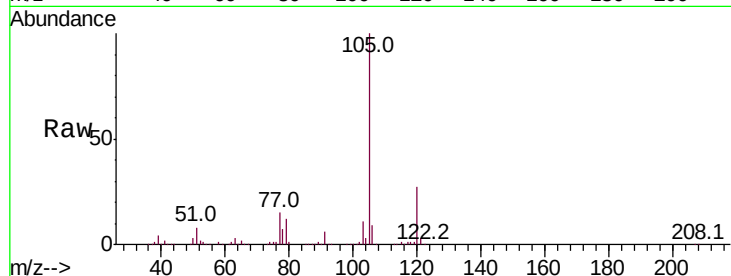
Ion Ratio Lower Upper

105 100

120 27.5 13.7 41.0

Manual Integrations
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#74

N-ethyl acetate

Concen: 21.853 ug/l

RT: 11.58 min Scan# 3051

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Tgt Ion: 43 Resp: 283023

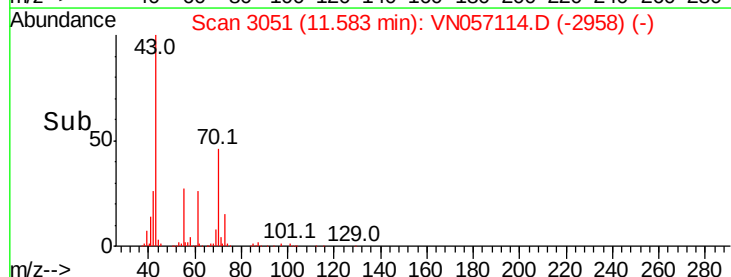
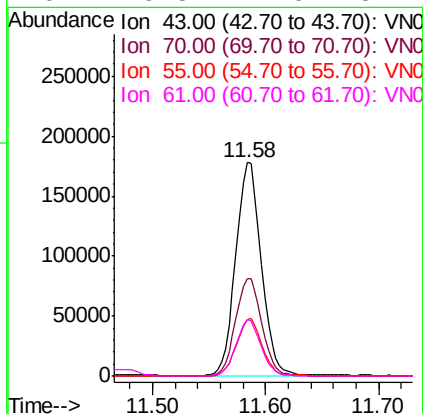
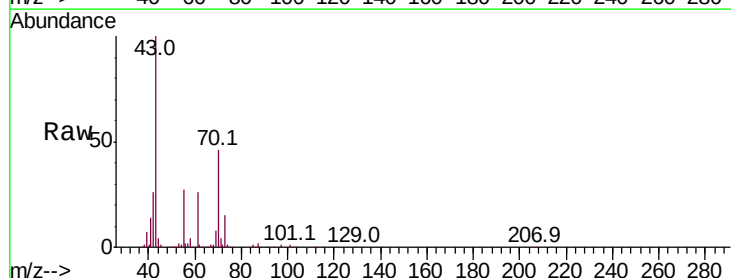
Ion Ratio Lower Upper

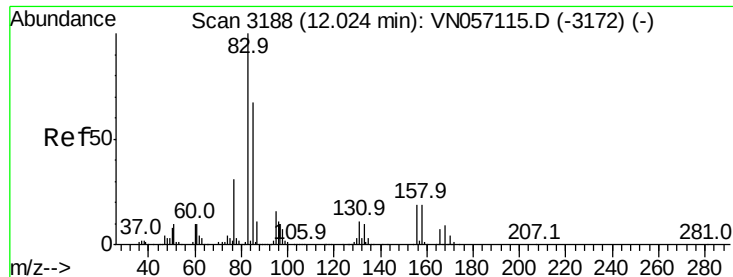
43 100

70 46.8 36.8 55.2

55 26.8 20.6 31.0

61 25.8 21.0 31.4





#75

1,1,2,2-Tetrachloroethane

Concen: 24.380 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

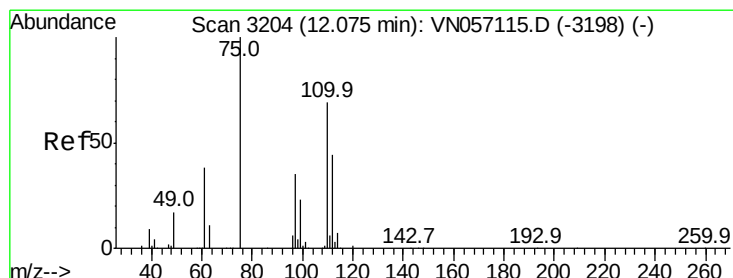
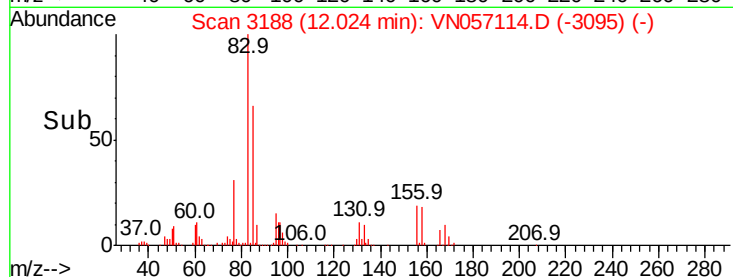
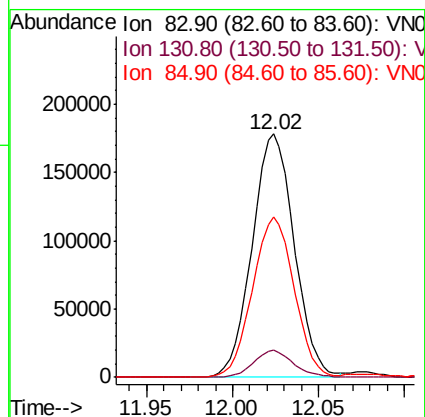
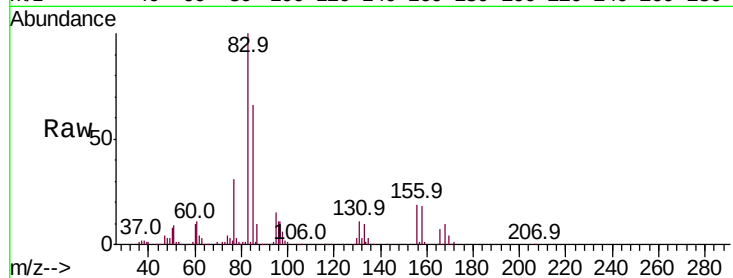
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	302644
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.5	16.4
85	65.1	32.4	97.0

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 24.980 ug/l m

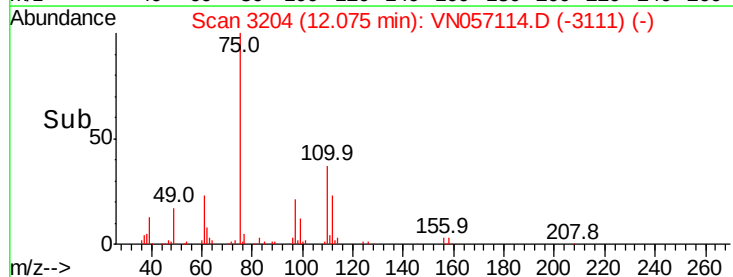
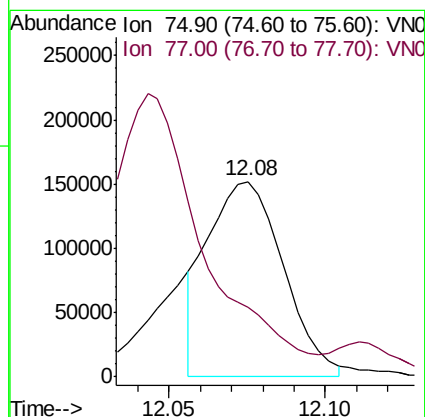
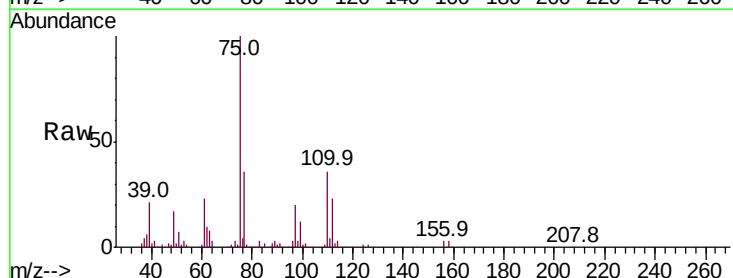
RT: 12.08 min Scan# 3204

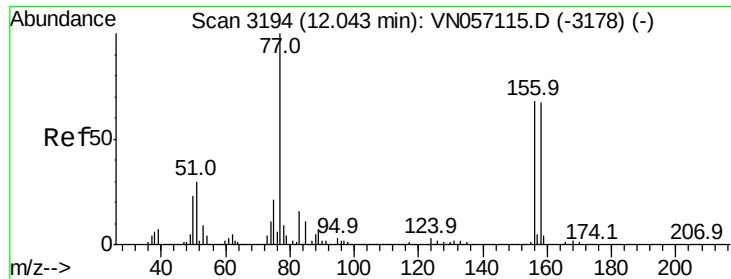
Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Tgt Ion:	75	Resp:	256187
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 22.445 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

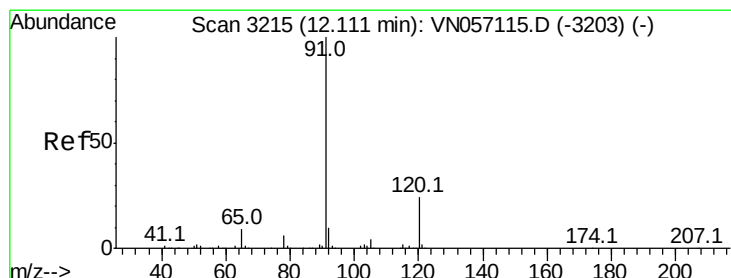
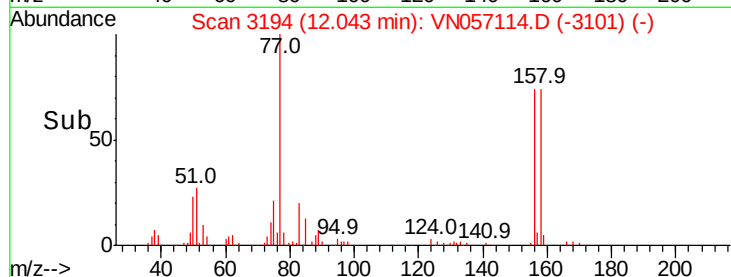
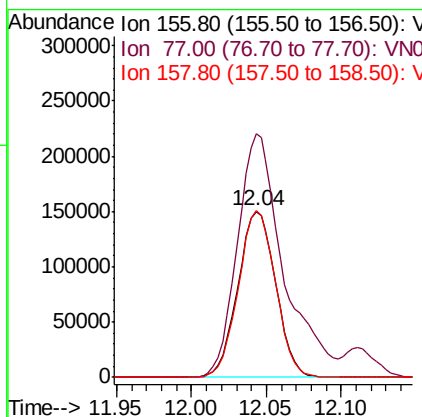
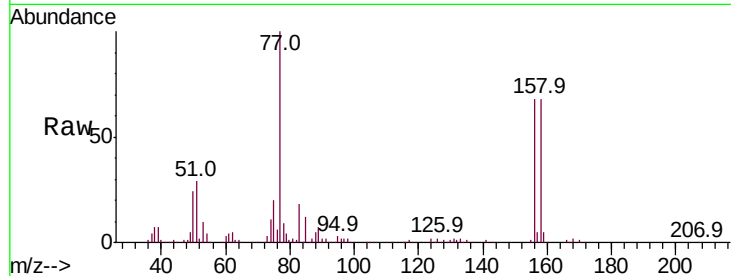
ClientSampleId :

VSTDIC020

Tot Ion:	156	Resp:	263776
Ion	Ratio	Lower	Upper
156	100		
77	179.4	88.7	266.1
158	98.8	49.3	147.8

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#78

n-propylbenzene

Concen: 23.371 ug/l

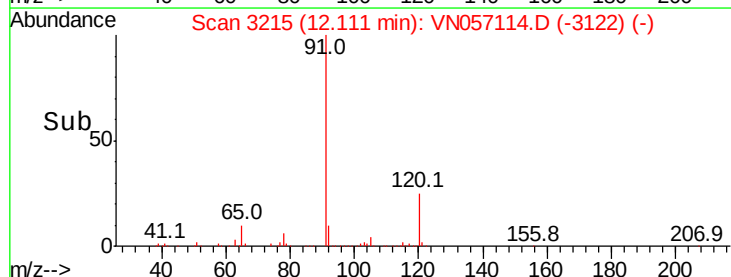
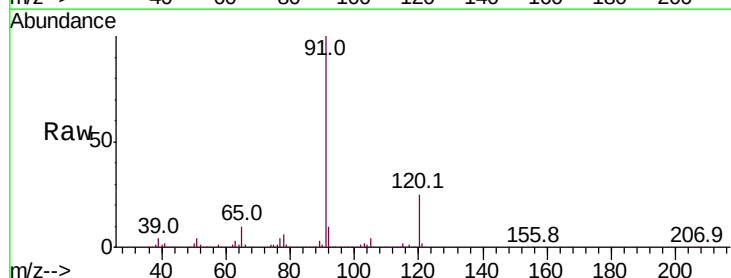
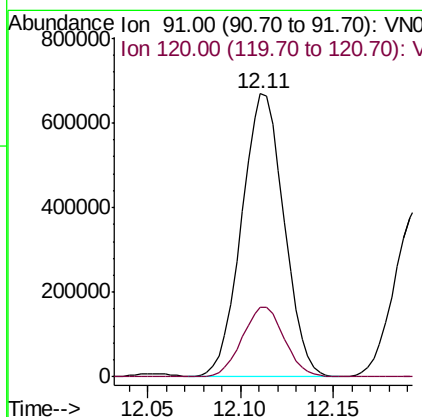
RT: 12.11 min Scan# 3215

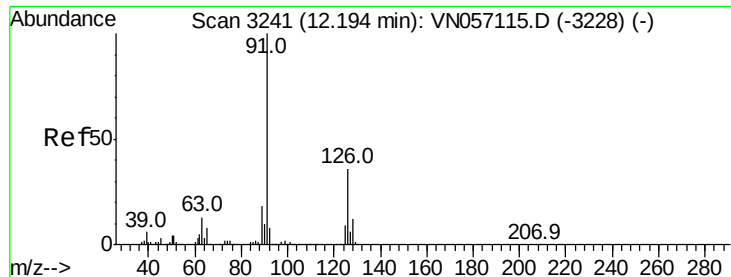
Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Tgt Ion:	91	Resp:	1057736
Ion	Ratio	Lower	Upper
91	100		
120	24.7	12.0	36.0





#79

2-Chlorotoluene

Concen: 23.368 ug/l

RT: 12.19 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 676645

Ion Ratio Lower Upper

91 100

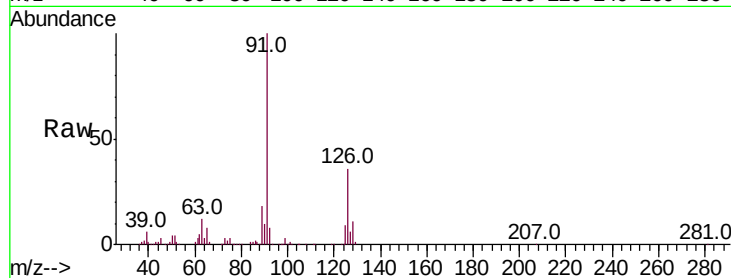
126 36.4 18.1 54.3

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN057115.D (-3228) (-)

Ion 125.90 (125.60 to 126.60): VN057115.D (-3228) (-)

800000

600000

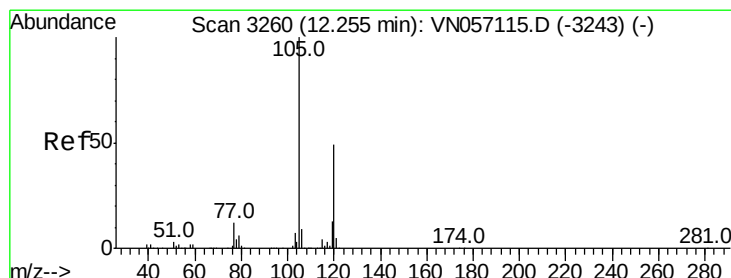
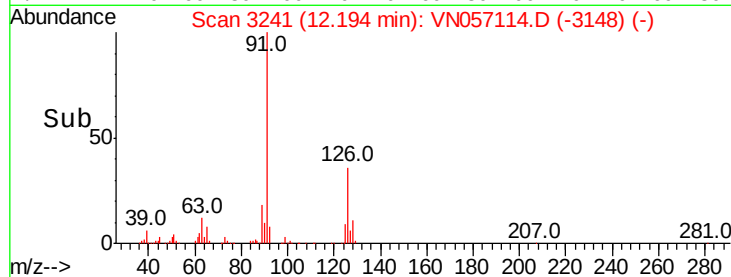
400000

200000

0

12.15 12.20 12.25

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 23.731 ug/l

RT: 12.26 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN057114.D

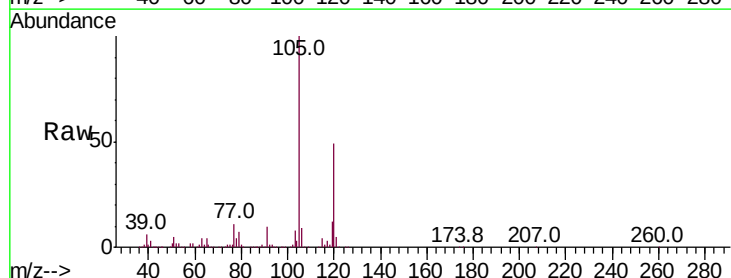
Acq: 7 Aug 2019 19:43

Tgt Ion:105 Resp: 874687

Ion Ratio Lower Upper

105 100

120 49.9 24.6 73.6



Abundance Ion 105.00 (104.70 to 105.70): VN057115.D (-3243) (-)

Ion 120.00 (119.70 to 120.70): VN057115.D (-3243) (-)

600000

500000

400000

300000

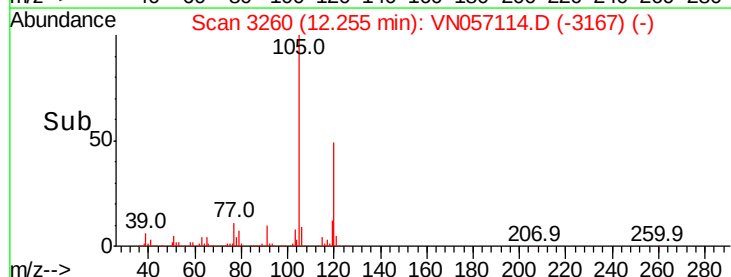
200000

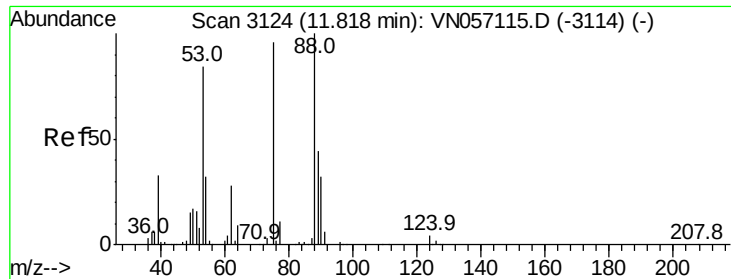
100000

0

12.20 12.25 12.30

Time-->





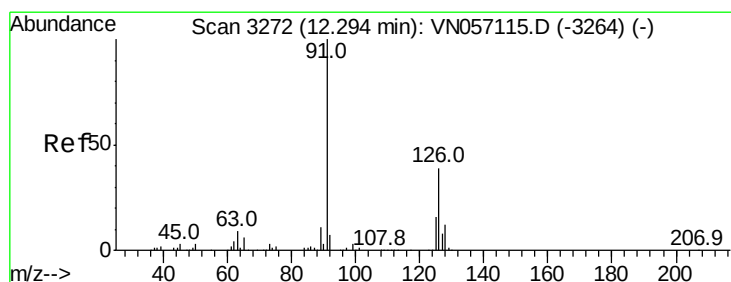
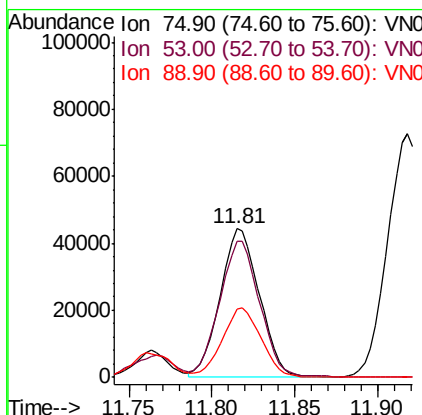
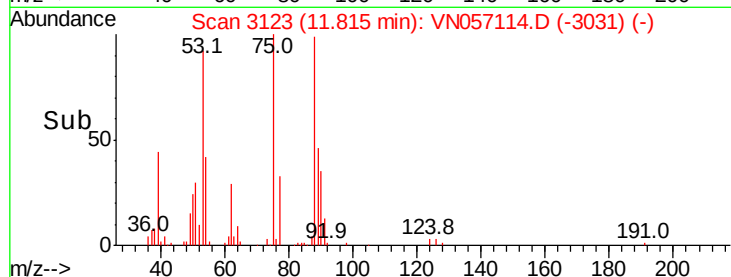
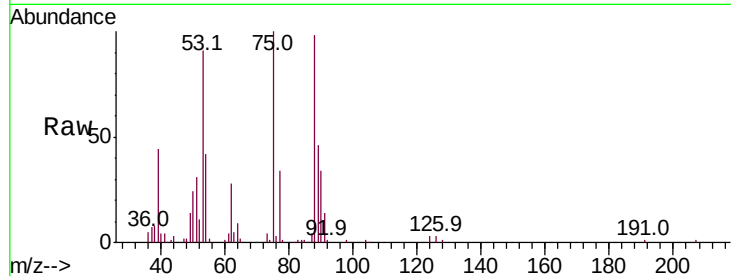
#81
trans-1,4-Dichloro-2-butene
Concen: 22.301 ug/l
RT: 11.81 min Scan# 3123
Delta R.T. -0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 75 Resp: 72499
Ion Ratio Lower Upper
75 100
53 92.7 70.6 106.0
89 46.6 36.4 54.6

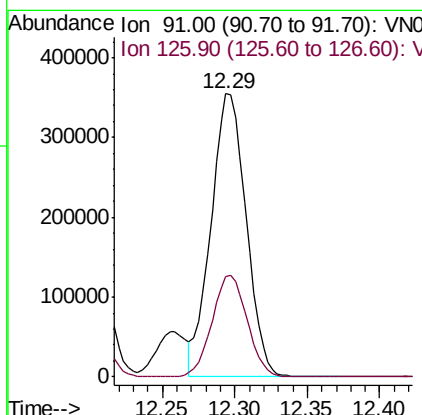
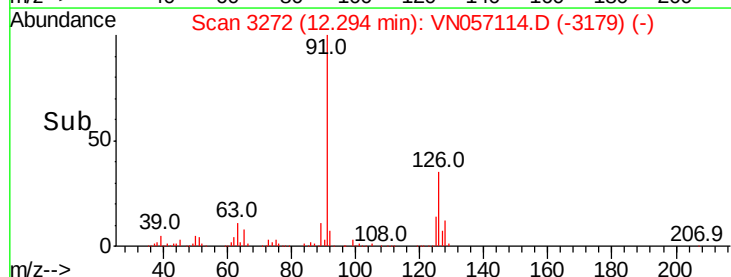
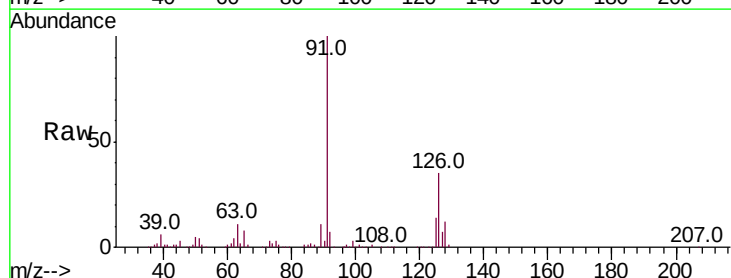
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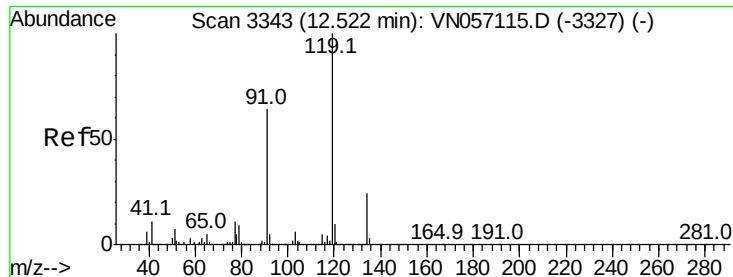
MMDadoda
8/8/2019 2:40:24 PM



#82
4-Chlorotoluene
Concen: 22.061 ug/l
RT: 12.29 min Scan# 3272
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Tgt Ion: 91 Resp: 599056
Ion Ratio Lower Upper
91 100
126 35.6 17.9 53.7





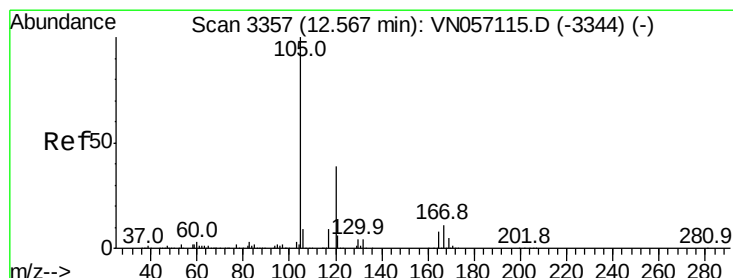
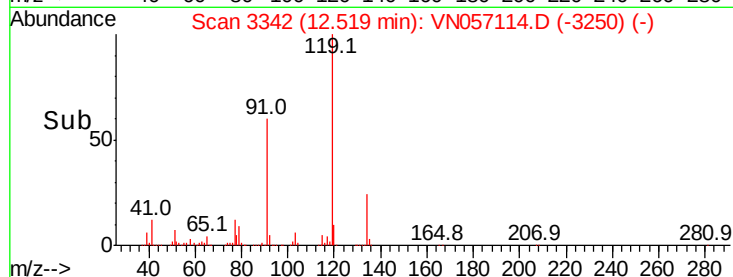
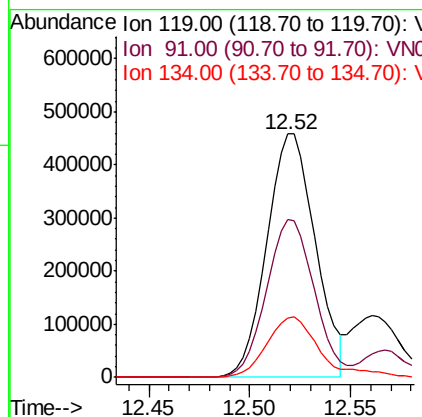
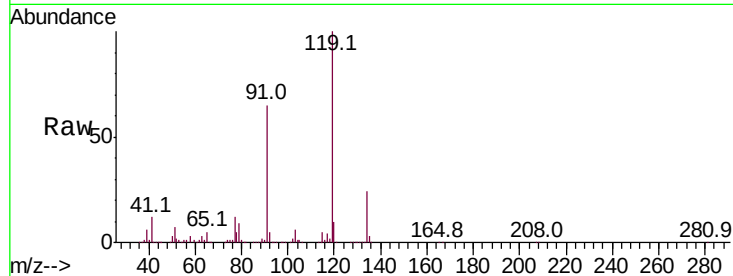
#83
 tert-Butylbenzene
 Concen: 23.485 ug/l
 RT: 12.52 min Scan# 3342
 Delta R.T. -0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	765055		
91	63.8	31.4	94.2	
134	27.1	13.2	39.6	

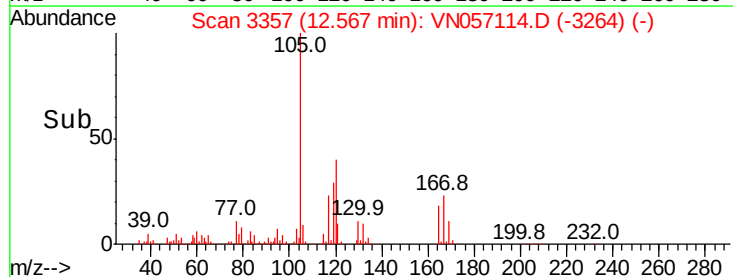
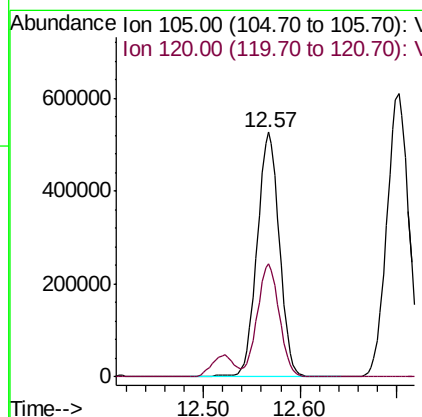
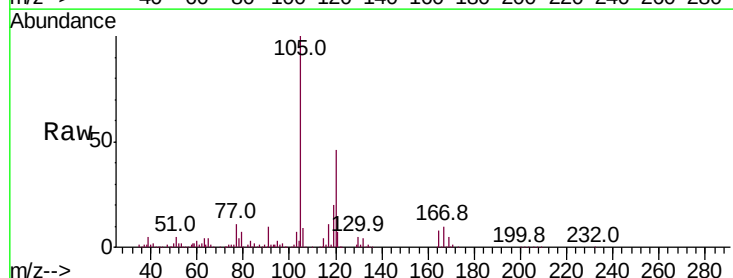
Manual Integrations
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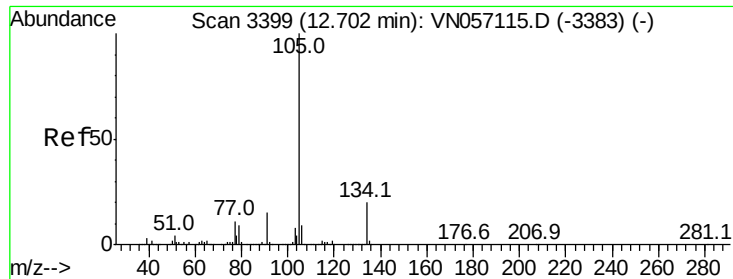
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#84
 1,2,4-Trimethylbenzene
 Concen: 23.900 ug/l
 RT: 12.57 min Scan# 3357
 Delta R.T. 0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	842264		
120	45.9	23.3	69.8	





#85

sec-Butylbenzene

Concen: 23.959 ug/l

RT: 12.70 min Scan# 3399

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 963469

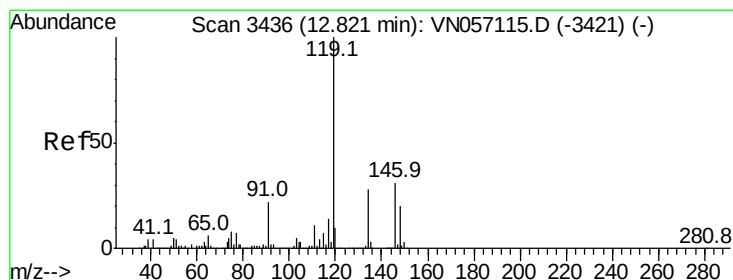
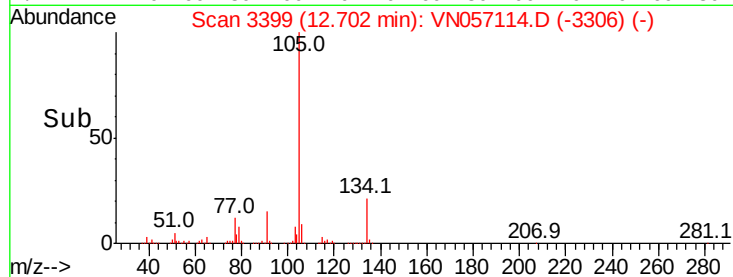
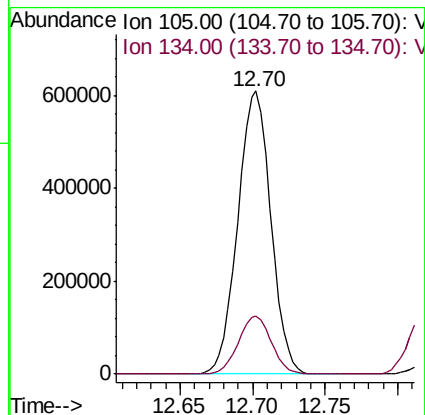
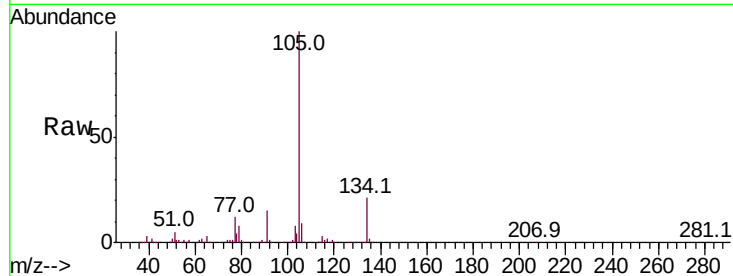
Ion Ratio Lower Upper

105 100

134 20.5 10.2 30.4

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#86

p-Isopropyltoluene

Concen: 23.576 ug/l

RT: 12.82 min Scan# 3436

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

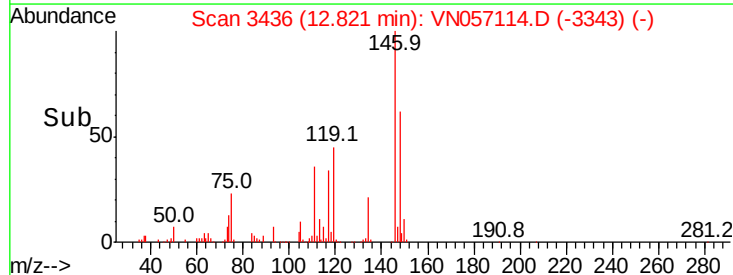
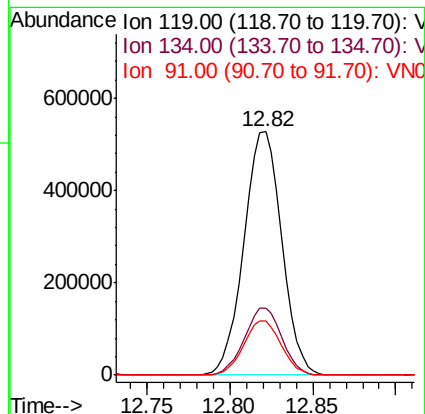
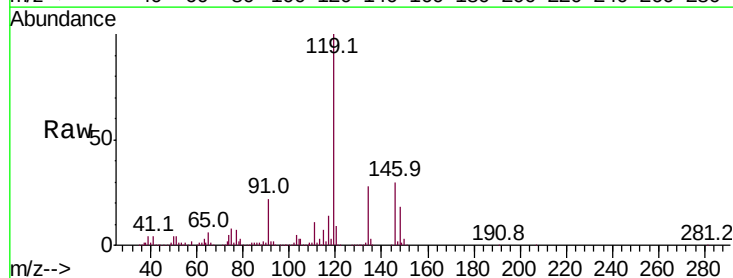
Tgt Ion:119 Resp: 837945

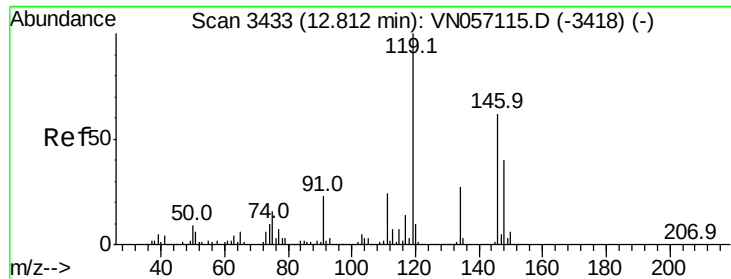
Ion Ratio Lower Upper

119 100

134 27.3 13.8 41.3

91 22.2 11.0 33.0





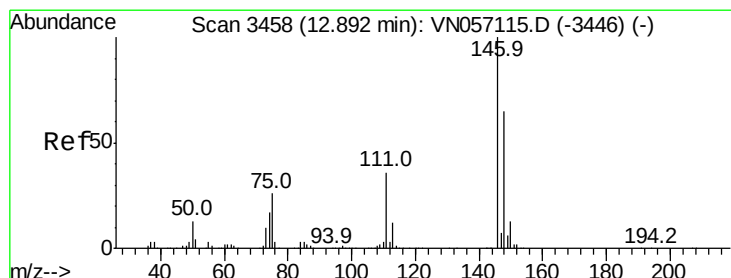
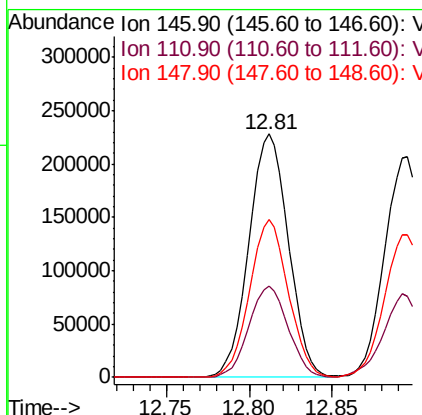
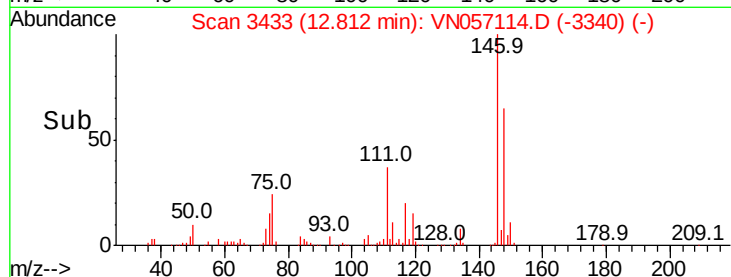
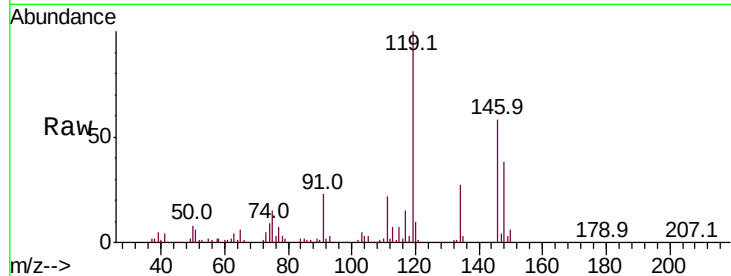
#87
 1,3-Dichlorobenzene
 Concen: 20.804 ug/l
 RT: 12.81 min Scan# 3433
 Delta R.T. 0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.8	56.4
148	63.6	32.4	97.0

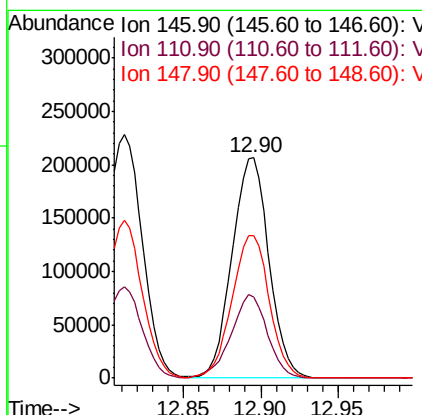
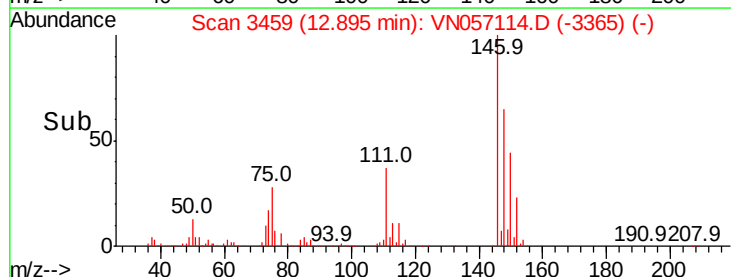
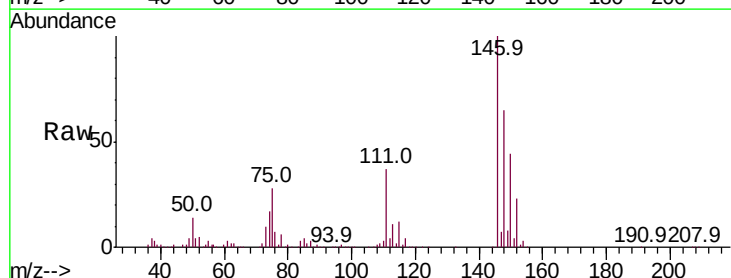
Manual Integrations
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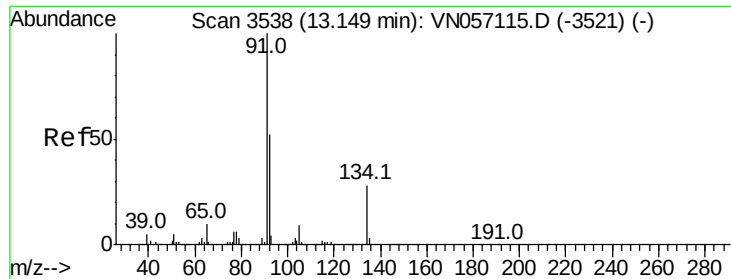
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#88
 1,4-Dichlorobenzene
 Concen: 19.567 ug/l
 RT: 12.90 min Scan# 3459
 Delta R.T. 0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.2	54.6
148	65.9	32.0	96.2





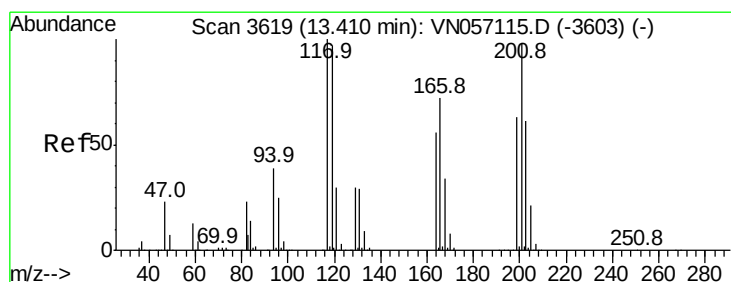
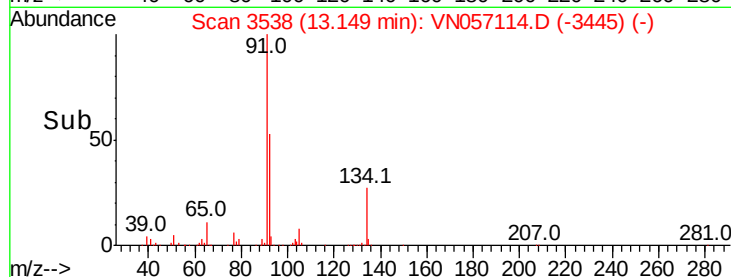
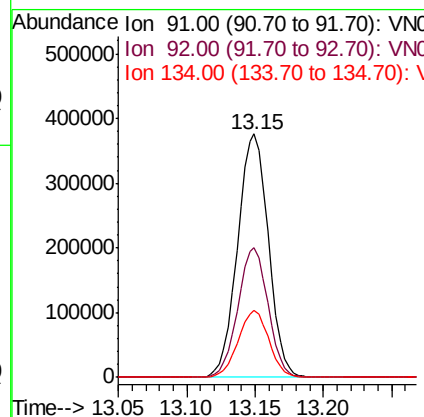
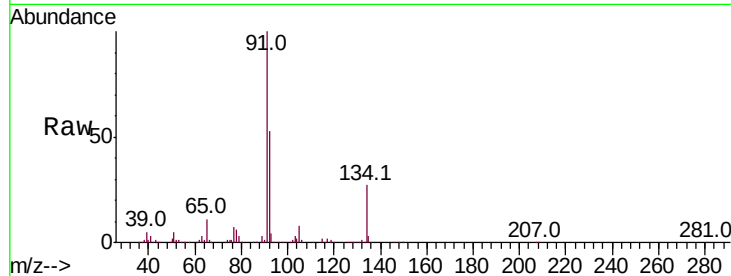
#89
n-Butylbenzene
Concen: 21.673 ug/l
RT: 13.15 min Scan# 3538
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	52.3	26.5	79.4	
134	27.4	14.1	42.3	

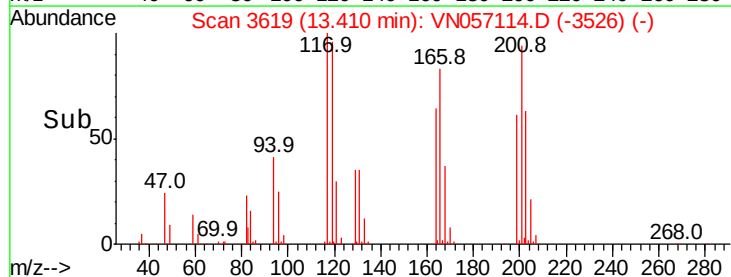
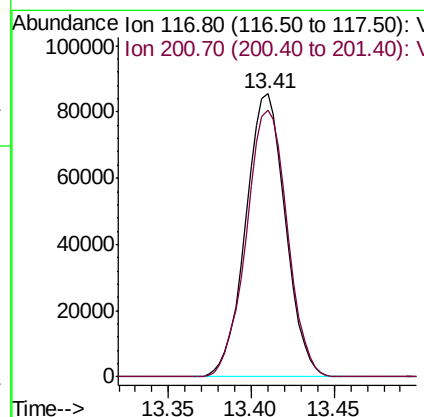
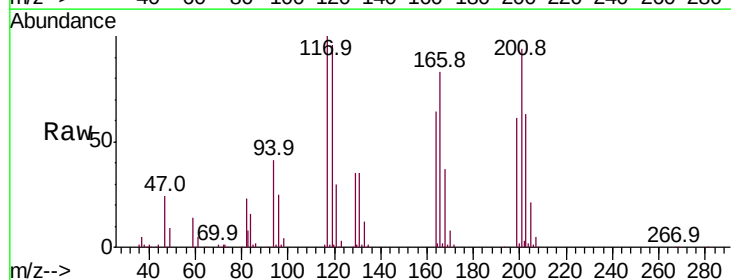
Manual Integrations
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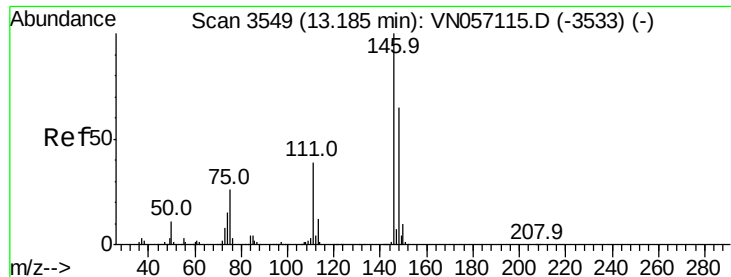
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#90
Hexachloroethane
Concen: 23.212 ug/l
RT: 13.41 min Scan# 3619
Delta R.T. 0.00 min
Lab File: VN057114.D
Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	97.2	49.3	147.8	





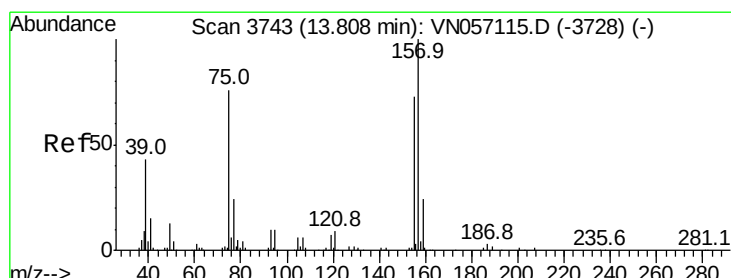
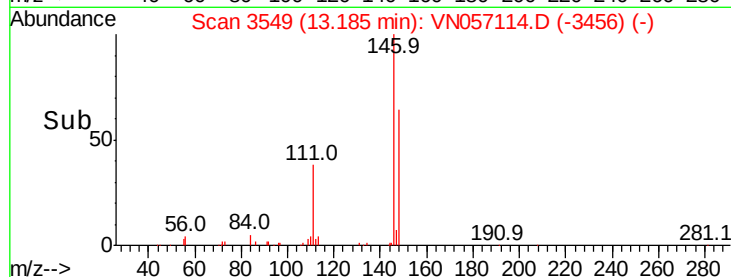
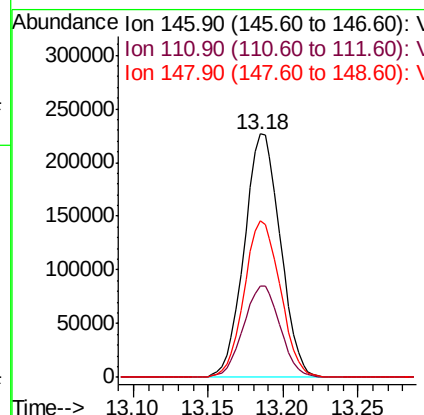
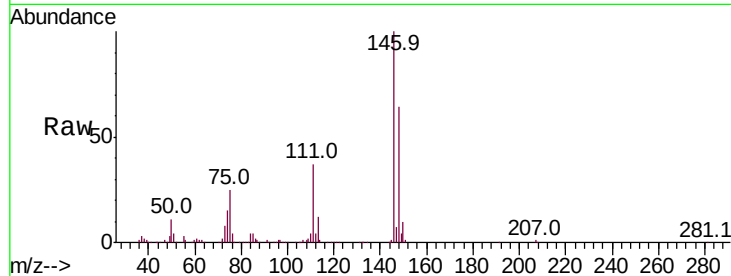
#91
 1,2-Dichlorobenzene
 Concen: 21.133 ug/l
 RT: 13.18 min Scan# 3549
 Delta R.T. 0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.2	57.6
148	64.3	32.4	97.0

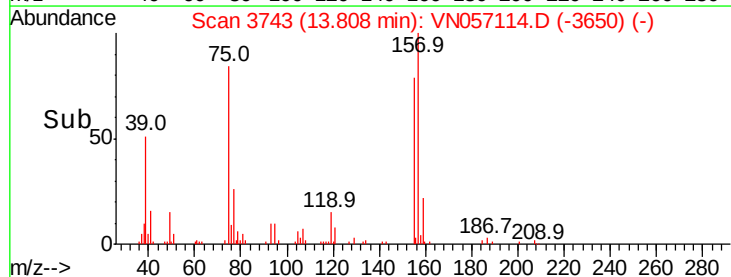
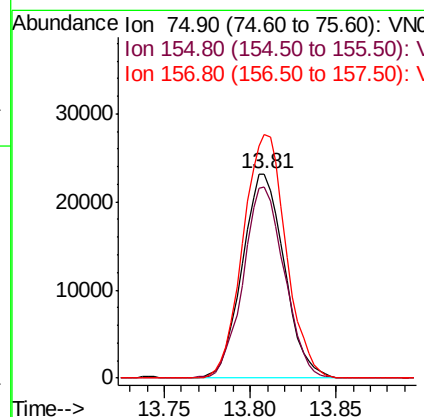
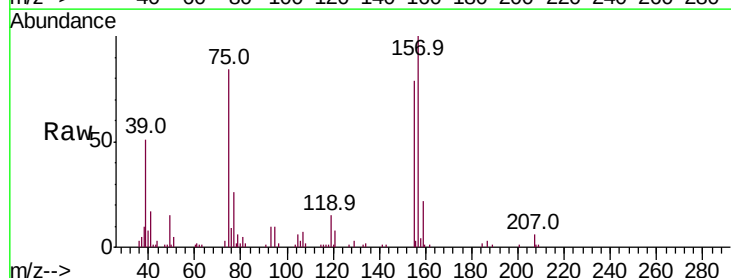
Manual Integrations
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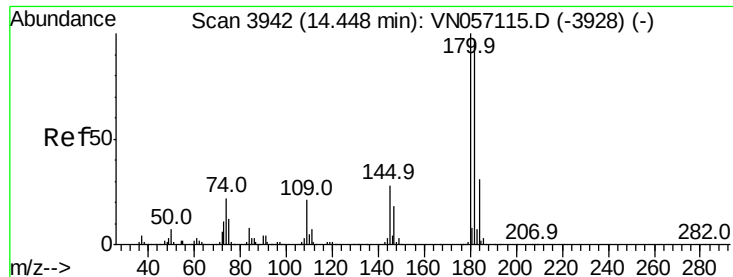
MMDadoda
 8/8/2019 2:40:24 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.369 ug/l
 RT: 13.81 min Scan# 3743
 Delta R.T. 0.00 min
 Lab File: VN057114.D
 Acq: 7 Aug 2019 19:43

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.5	49.3	147.9
157	121.2	65.3	195.8





#93

1,2,4-Trichlorobenzene

Concen: 13.505 ug/l

RT: 14.45 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

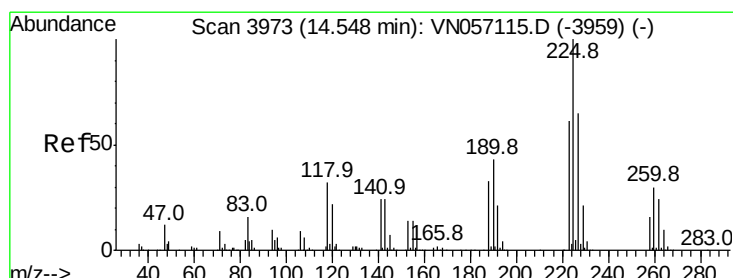
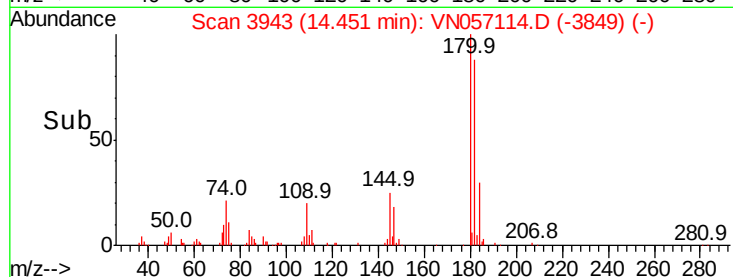
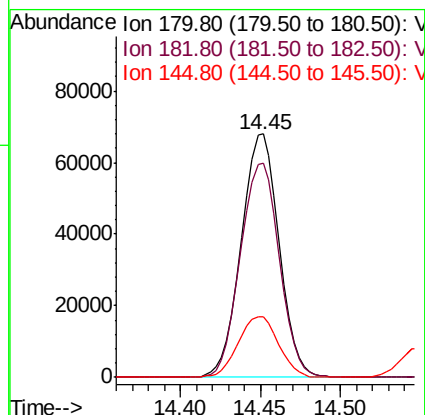
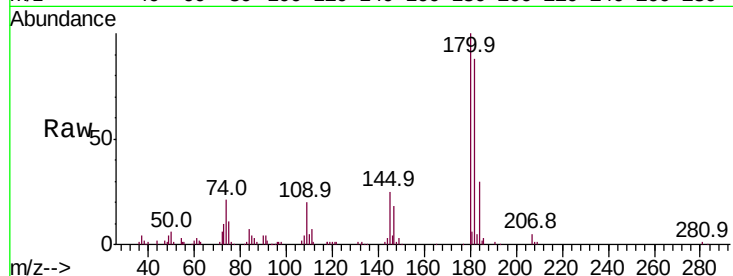
ClientSampleId :

VSTDIC020

Tot Ion:	180	Resp:	109401
Ion Ratio	Lower	Upper	
180	100		
182	90.9	47.5	142.6
145	26.6	14.1	42.2

Manual Integrations
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#94

Hexachlorobutadiene

Concen: 21.806 ug/l

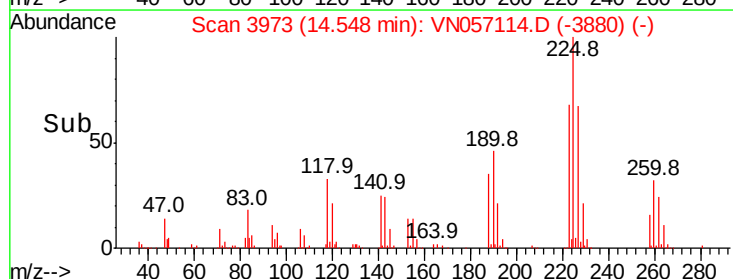
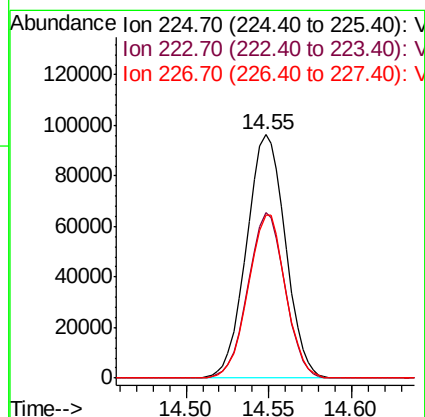
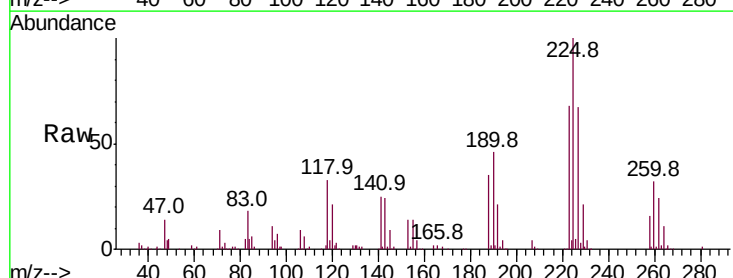
RT: 14.55 min Scan# 3973

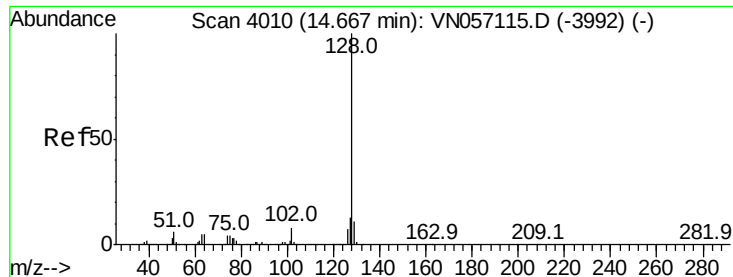
Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Tgt Ion:	225	Resp:	157125
Ion Ratio	Lower	Upper	
225	100		
223	64.7	30.9	92.8
227	64.5	32.4	97.0





#95

Naphthalene

Concen: 13.566 ug/l

RT: 14.66 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Instrument :

MSVOA_N

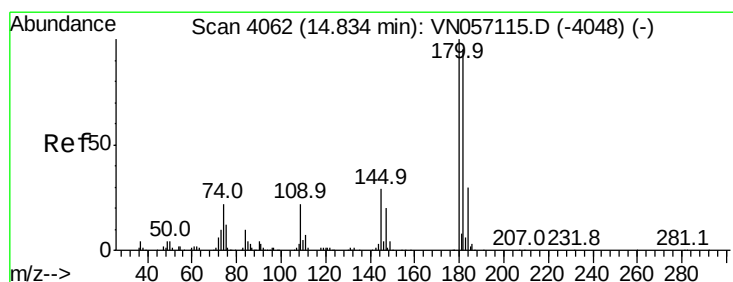
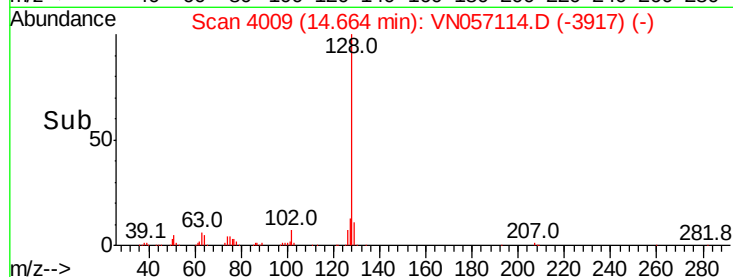
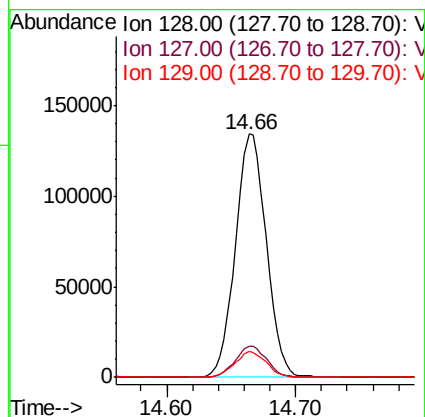
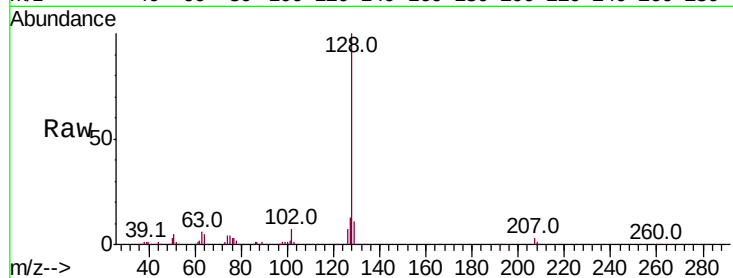
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	223677
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.3	15.5
129	10.7	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
8/8/2019 2:40:24 PM



#96

1,2,3-Trichlorobenzene

Concen: 14.090 ug/l

RT: 14.83 min Scan# 4062

Delta R.T. 0.00 min

Lab File: VN057114.D

Acq: 7 Aug 2019 19:43

Tgt Ion:	180	Resp:	116896
Ion Ratio	Lower	Upper	
180	100		
182	95.3	48.3	144.8
145	29.7	14.9	44.5

