

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
 Data File : VN052881.D
 Acq On : 14 Dec 2018 11:42
 Operator : MD\SY
 Sample : VN1214WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1214WBS01

Manual Integrations
 APPROVED

MMDadoda
 12/17/2018 3:05:31 PM

Quant Time: Dec 15 03:09:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	160019	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	937734	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	820144	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	315225	28.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.37%
60) 4-Bromofluorobenzene	12.40	95	374836	29.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.63%
63) Toluene-d8	10.09	98	1106478	29.10	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	162065	17.783	ug/l 100
3) Chloromethane	2.06	50	216715	17.930	ug/l 100
4) Vinyl Chloride	2.19	62	225212	18.462	ug/l 95
5) Bromomethane	2.58	94	139967	20.123	ug/l 99
6) Chloroethane	2.71	64	139650	19.250	ug/l 100
7) Trichlorofluoromethane	3.03	101	293199	19.475	ug/l 100
8) Diethyl Ether	3.41	74	113909	20.490	ug/l 90
9) 1,1,2-Trichlorotrifluoroet	3.77	101	188347	19.735	ug/l 97
10) 1,1-Dichloroethene	3.74	96	180079	20.068	ug/l 97
11) Methyl Iodide	3.96	142	218043	17.501	ug/l 99
12) Methyl Acetate	4.33	43	150292	19.712	ug/l 99
13) Acrolein	3.61	56	84257	94.077	ug/l 99
14) Acrylonitrile	4.99	53	317207	97.643	ug/l 97
15) Acetone	3.82	58	77018	91.543	ug/l 91
16) Carbon Disulfide	4.06	76	489265	17.222	ug/l 100
17) Allyl chloride	4.33	41	293922	18.782	ug/l 97
18) Methylene Chloride	4.56	84	208065	20.025	ug/l 94
19) trans-1,2-Dichloroethene	5.05	96	191129	19.792	ug/l 93
20) Diisopropyl ether	5.95	45	635709	19.330	ug/l 97
21) 1,1-Dichloroethane	5.85	63	371686	19.829	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	224891	20.320	ug/l 98
23) tert-Butyl Alcohol	4.79	59	50058m	103.582	ug/l
24) Methyl tert-Butyl Ether	5.05	73	486472	20.665	ug/l 97
25) Chloroform	7.37	83	364463	20.155	ug/l 100
26) Cyclohexane	7.66	56	320689	18.140	ug/l # 96
29) 1,1-Dichloropropene	7.79	75	275887	19.266	ug/l 98
30) 2-Butanone	6.84	43	360996	94.209	ug/l 98
31) 2,2-Dichloropropane	6.83	77	266819	20.239	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	295493	19.831	ug/l 97
33) Carbon Tetrachloride	7.78	117	260335	19.968	ug/l 98
34) Benzene	8.04	78	844108	19.606	ug/l 98
35) Methacrylonitrile	7.18	41	97203	20.446	ug/l 97
36) 1,2-Dichloroethane	8.13	62	258223	19.792	ug/l 100
37) Trichloroethene	8.84	130	224441	20.558	ug/l 98
38) Methylcyclohexane	9.08	83	324475	18.304	ug/l 97
39) 1,2-Dichloropropane	9.12	63	223565	19.371	ug/l 96
40) Dibromomethane	9.21	93	128227	20.560	ug/l 96

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	273389	19.841	ug/l	97
42) Vinyl Acetate	5.90	43	1872586	90.320	ug/l	98
43) Ethyl Acetate	6.93	43	138471	16.994	ug/l #	62
44) Isopropyl Acetate	8.17	43	294866	20.634	ug/l #	79
45) 1,4-Dioxane	9.20	88	32197	411.855	ug/l	92
46) Methyl methacrylate	9.20	41	145167	19.565	ug/l	96
47) n-amyl Acetate	12.07	43	237525	20.047	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	262312	19.634	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	317626	19.513	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	184568	20.878	ug/l	100
51) Ethyl methacrylate	10.43	69	222869	20.073	ug/l	95
52) 1,3-Dichloropropane	10.71	76	315409	20.044	ug/l	100
53) Dibromochloromethane	10.90	129	200224	20.572	ug/l	98
54) 1,2-Dibromoethane	11.01	107	176872	20.475	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	667515	102.706	ug/l	98
56) Bromoform	12.13	173	130674	20.540	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	796231	100.141	ug/l	98
59) 2-Hexanone	10.75	43	536504	98.777	ug/l	98
61) Tetrachloroethene	10.63	164	232048	22.973	ug/l	96
62) Toluene	10.16	91	903688	19.988	ug/l	100
64) Chlorobenzene	11.44	112	560568	20.313	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	201591	21.045	ug/l	99
66) Ethyl Benzene	11.51	91	967404	19.853	ug/l	98
67) m/p-Xylenes	11.62	106	735921	40.538	ug/l	98
68) o-Xylene	11.95	106	361295	20.505	ug/l	98
69) Styrene	11.96	104	577161	20.294	ug/l	99
70) Isopropylbenzene	12.25	105	970758	20.707	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	207237	20.321	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	162877m	18.605	ug/l	
73) Bromobenzene	12.53	156	242548	21.391	ug/l	94
74) n-propylbenzene	12.59	91	1085142	19.866	ug/l	98
75) 2-Chlorotoluene	12.68	91	649392	20.482	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	774118	20.443	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	53328	19.283	ug/l	94
78) 4-Chlorotoluene	12.77	91	650490	20.544	ug/l	99
79) tert-butylbenzene	12.99	119	690662	20.943	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	779556	20.574	ug/l	100
81) sec-Butylbenzene	13.17	105	915134	19.923	ug/l	98
82) p-Isopropyltoluene	13.29	119	789843	20.194	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	422696	21.196	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	411050	21.334	ug/l	99
85) n-Butylbenzene	13.62	91	631394	18.793	ug/l	98
86) Hexachloroethane	13.88	117	129397	19.525	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	411095	21.663	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	30349	21.245	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	204161	21.836	ug/l	99
90) Hexachlorobutadiene	15.01	225	126882	20.687	ug/l	98
91) Naphthalene	15.13	128	400469	21.211	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	190217	22.077	ug/l	96

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QLast Update : Tue Nov 27 00:48:33 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

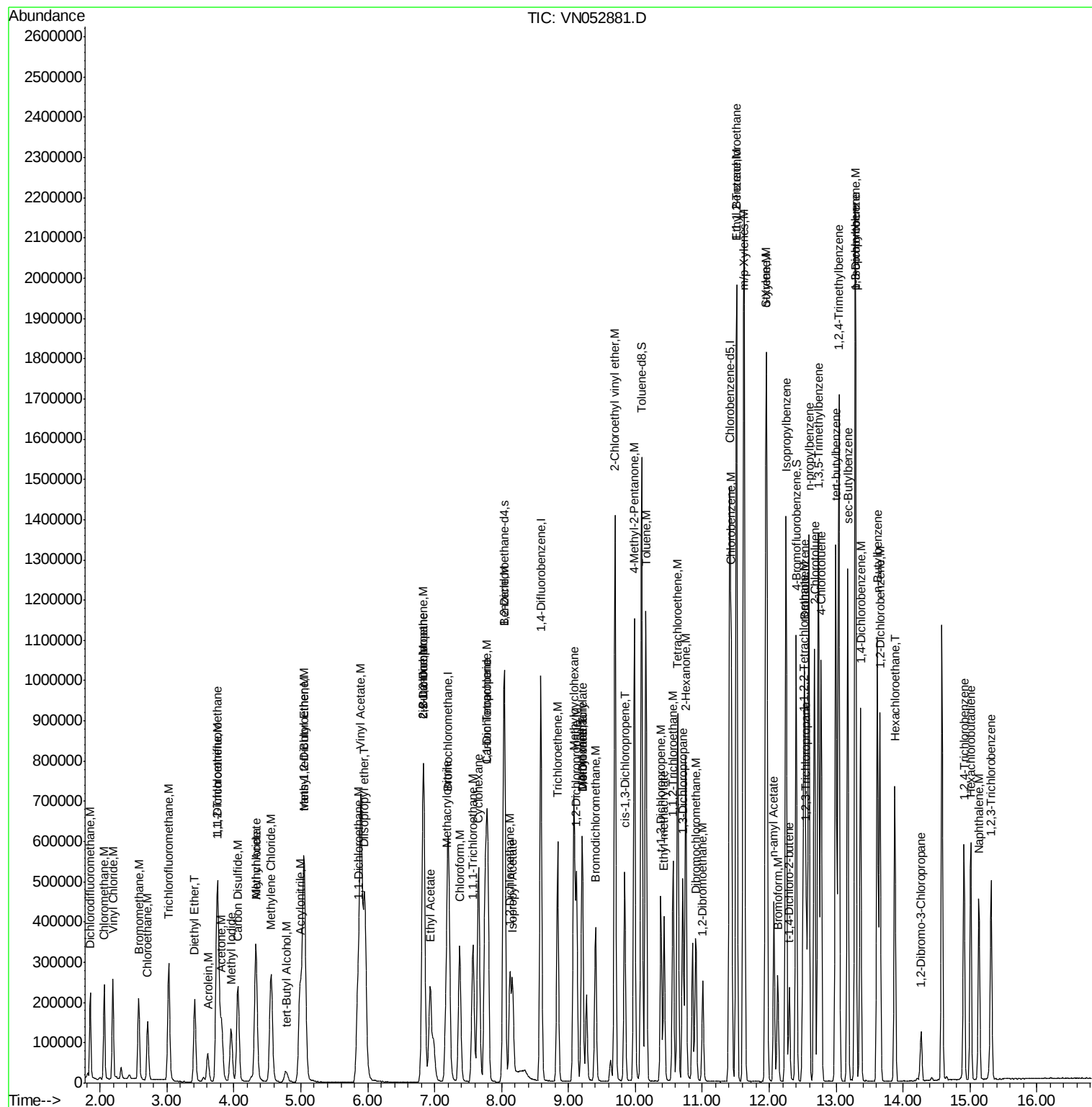
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Data File : VN052881.D
Acq On : 14 Dec 2018 11:42
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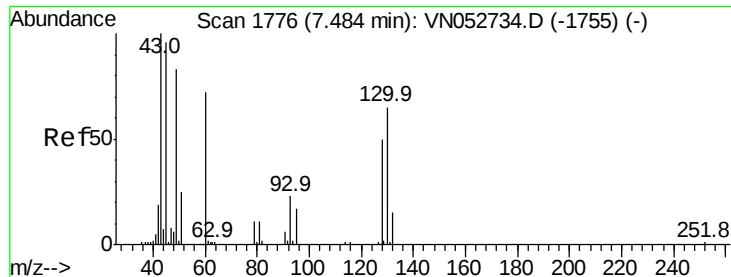
Instrument :
MSVOA_N
Client Sample Id :
VN1214WBS01

Manual Integrations
APPROVED

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Quant Time: Dec 15 03:09:26 2018
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

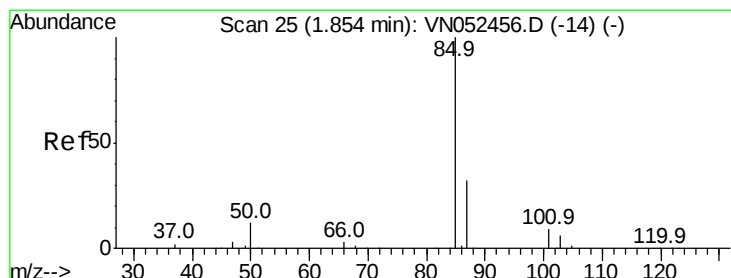
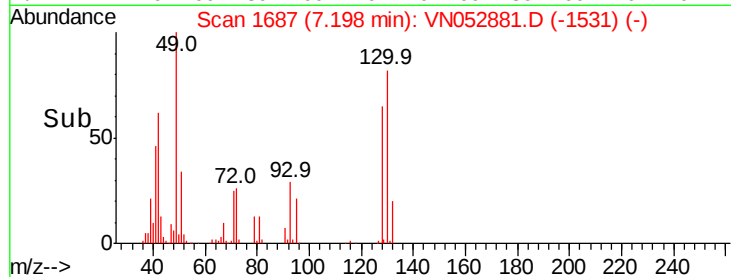
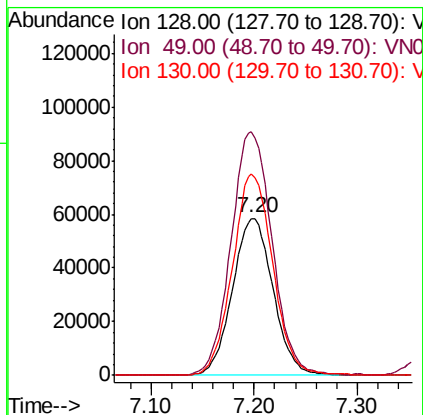
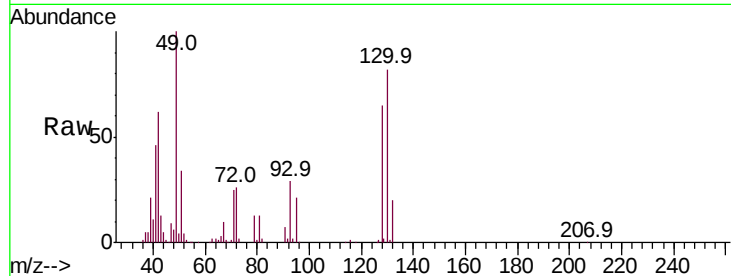
ClientSampleId :

VN1214WBS01

Tot Ion	Ratio	Lower	Upper
128	100		
49	157.2	0.0	431.8
130	128.2	0.0	317.0

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 17.783 ug/l

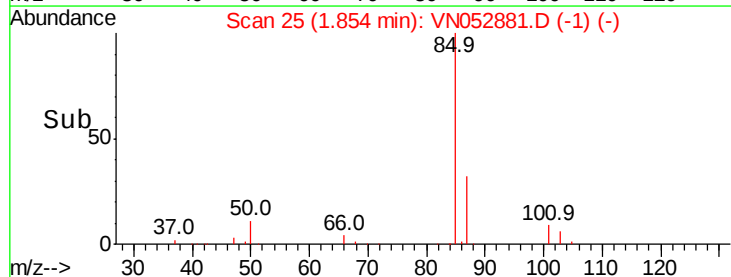
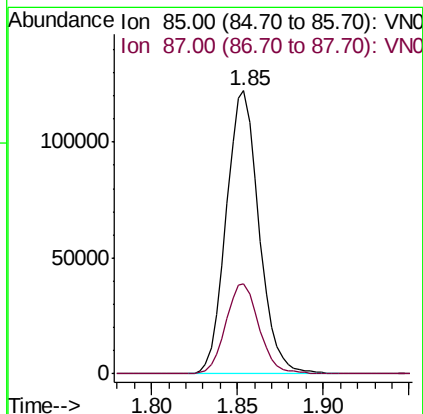
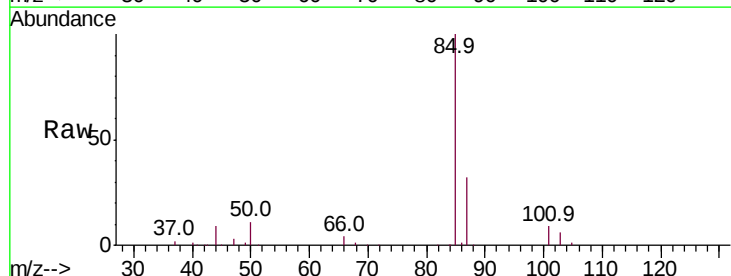
RT: 1.85 min Scan# 25

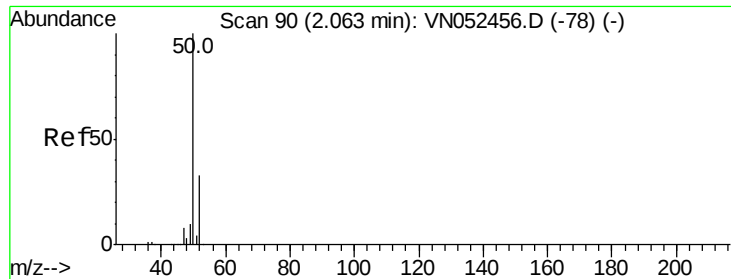
Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.9	16.1	48.3





#3

Chloromethane

Concen: 17.930 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBS01

Tot Ion: 50 Resp: 216715

Ion Ratio Lower Upper

50 100

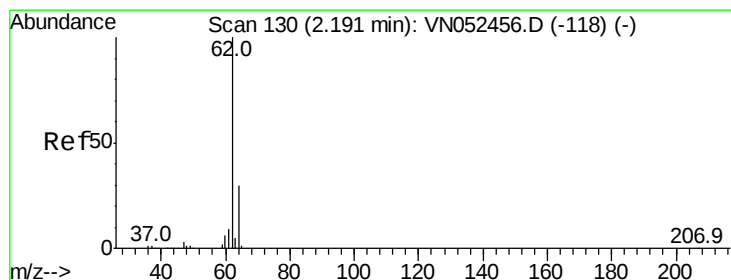
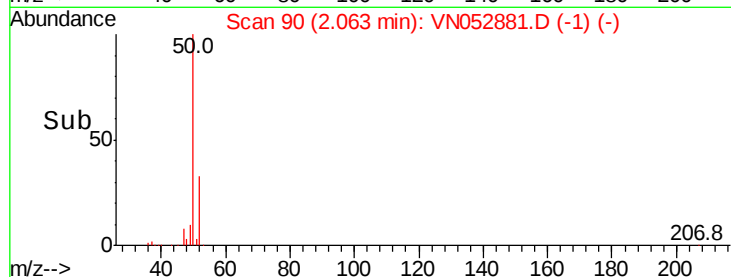
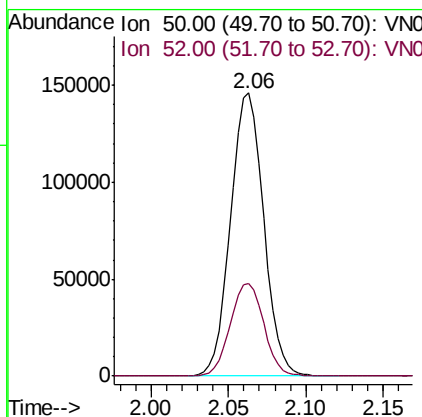
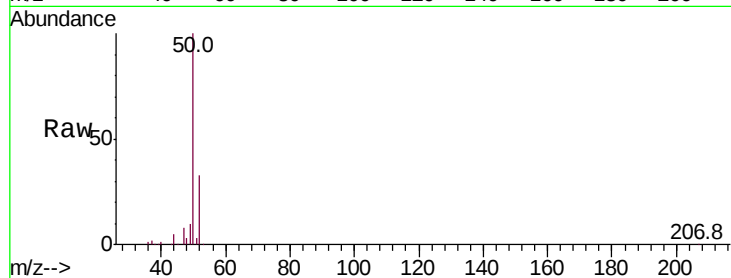
52 32.8 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 18.462 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052881.D

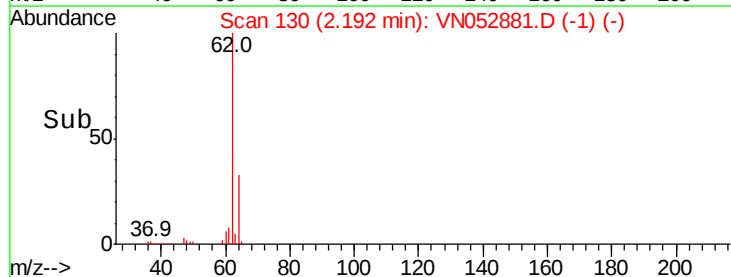
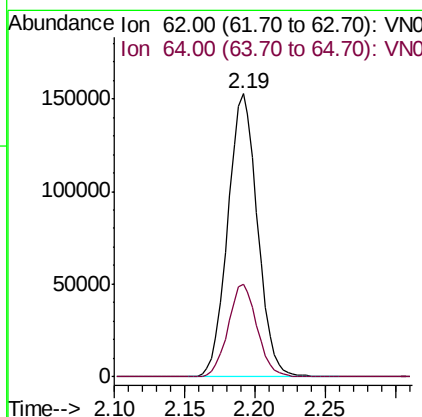
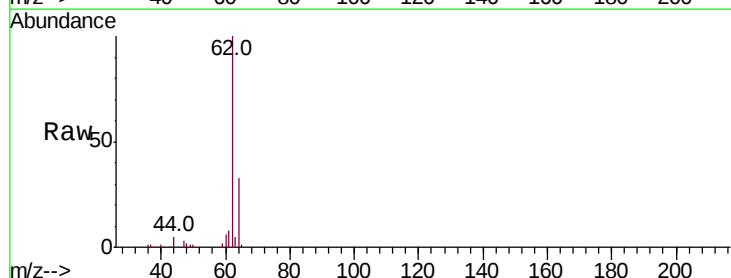
Acq: 14 Dec 2018 11:42

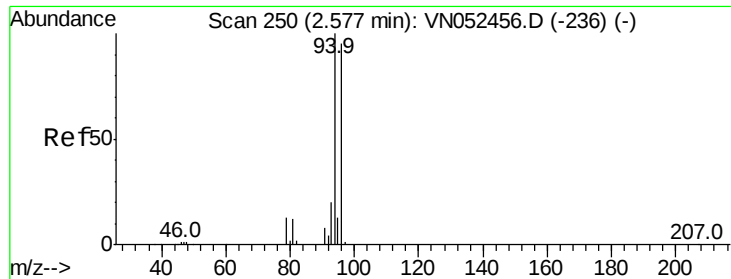
Tgt Ion: 62 Resp: 225212

Ion Ratio Lower Upper

62 100

64 32.8 24.2 36.4





#5

Bromomethane

Concen: 20.123 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

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ClientSampleId :

VN1214WBS01

Tot Ion: 94 Resp: 139967

Ion Ratio Lower Upper

94 100

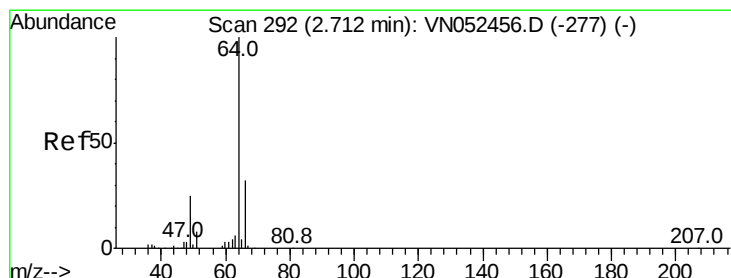
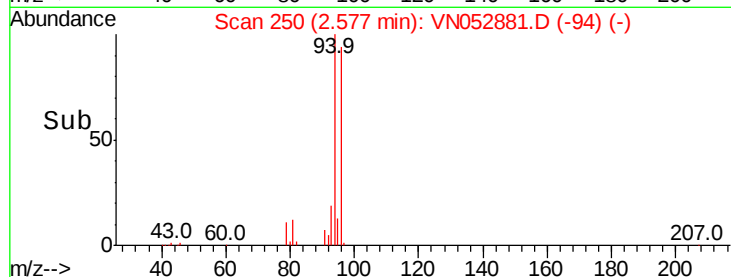
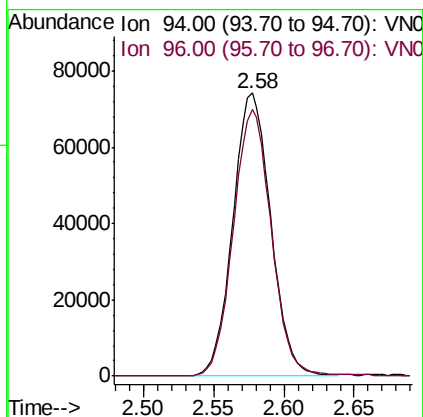
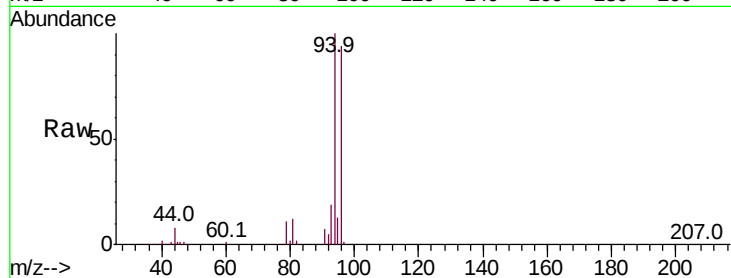
96 94.2 76.2 114.2

Manual Integrations

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#6

Chloroethane

Concen: 19.250 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052881.D

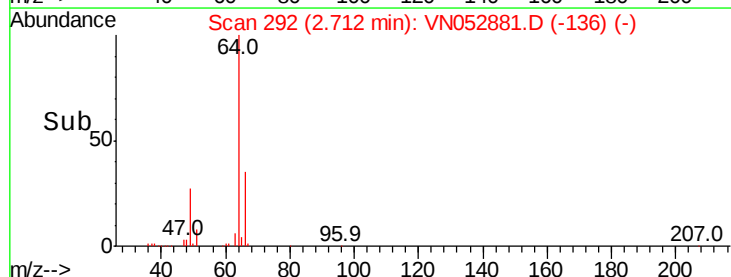
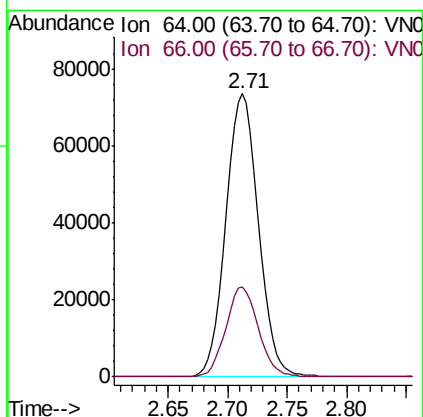
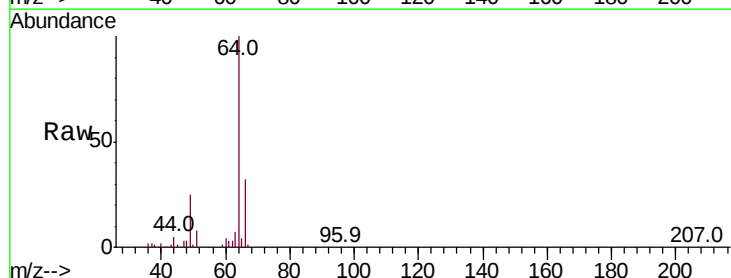
Acq: 14 Dec 2018 11:42

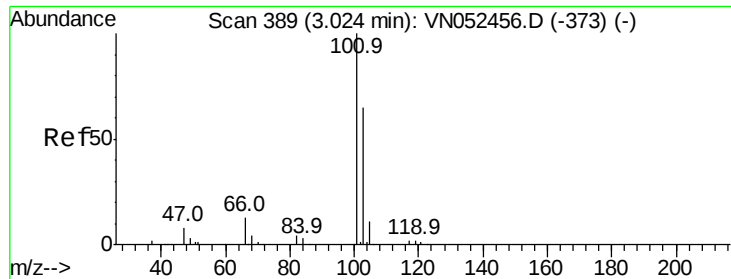
Tgt Ion: 64 Resp: 139650

Ion Ratio Lower Upper

64 100

66 32.0 25.6 38.4





#7

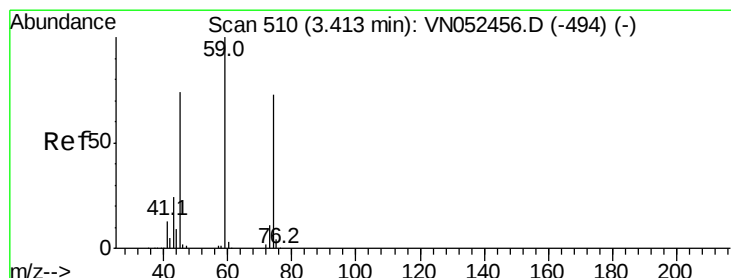
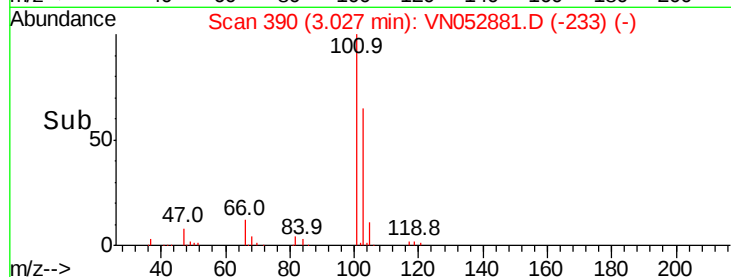
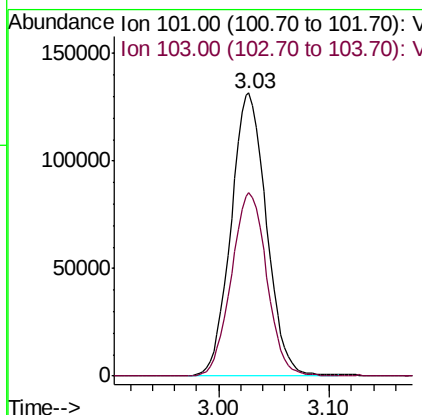
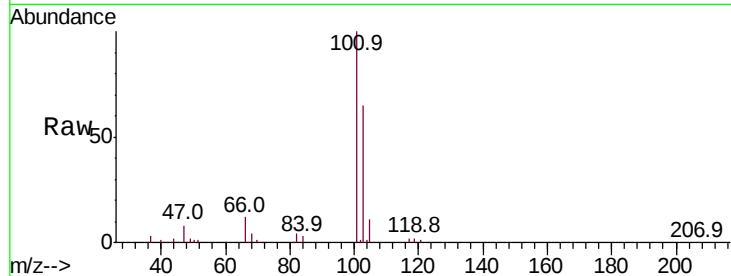
Trichlorofluoromethane
Concen: 19.475 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.8	52.1	78.1

Manual Integrations
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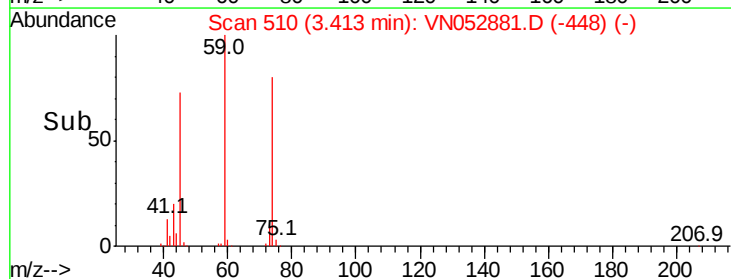
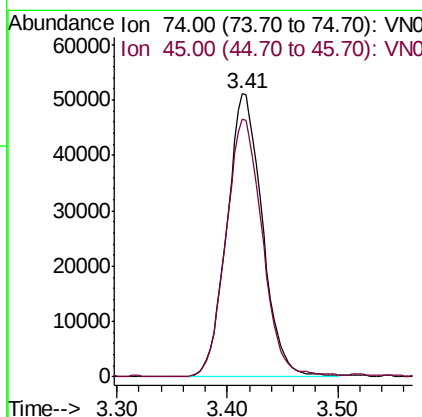
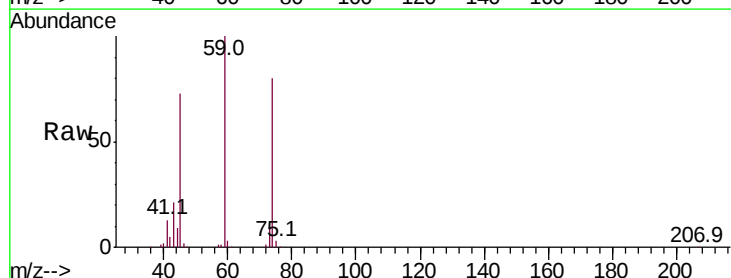
MMDadoda
12/17/2018 3:05:31 PM

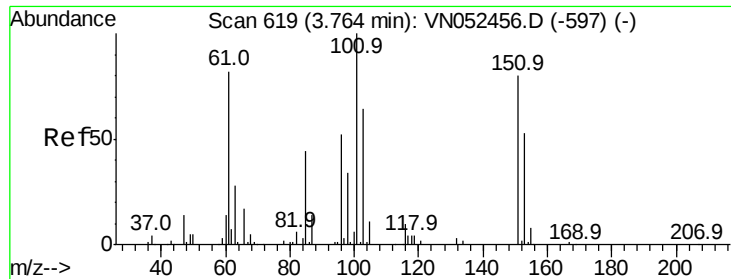


#8

Diethyl Ether
Concen: 20.490 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Lower	Upper
74	100		
45	92.5	20.6	185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.735 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

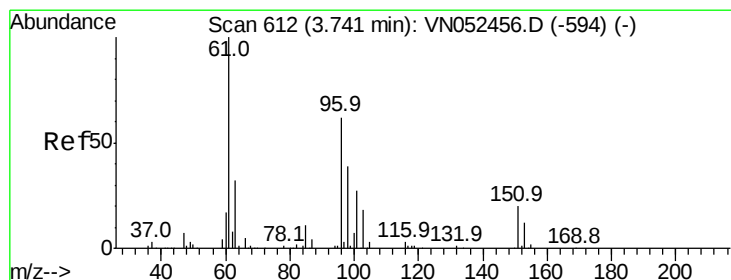
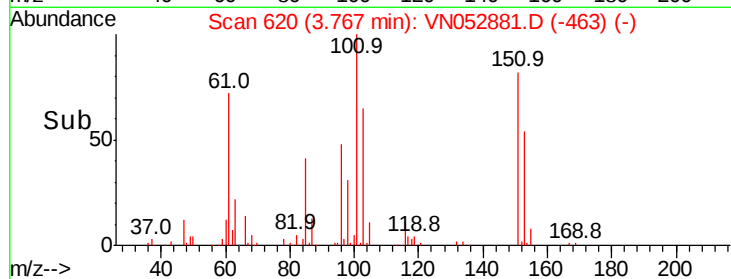
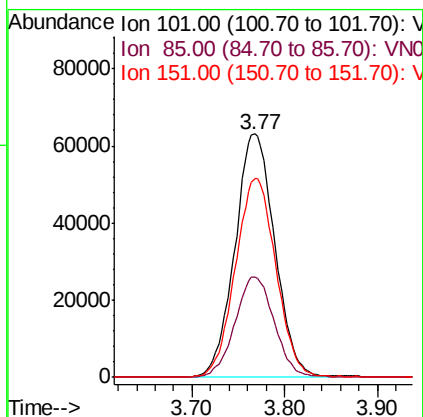
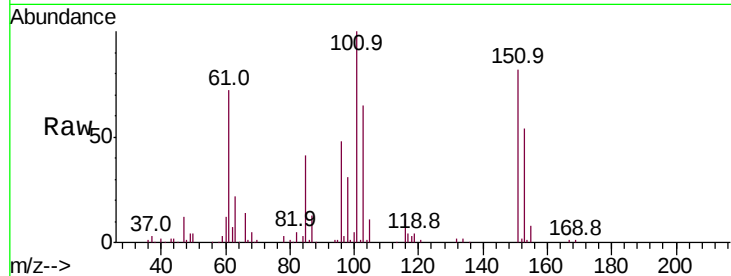
ClientSampleId :

VN1214WBS01

Tot Ion:	101	Resp:	188347
Ion Ratio	Lower	Upper	
101	100		
85	40.5	0.0	82.6
151	83.2	0.0	158.4

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#10

1,1-Dichloroethene

Concen: 20.068 ug/l

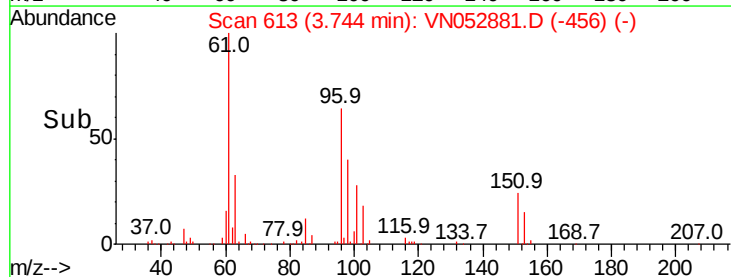
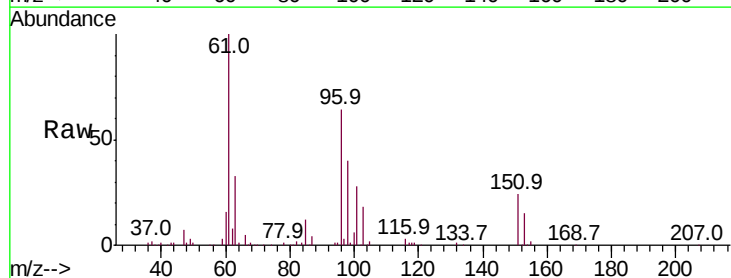
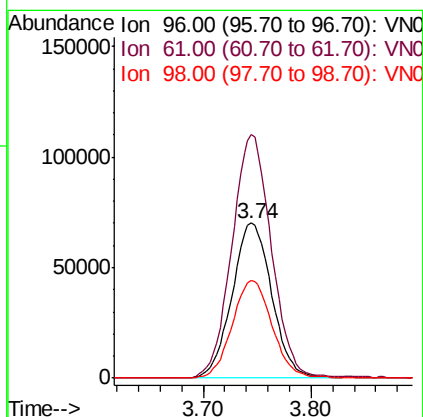
RT: 3.74 min Scan# 613

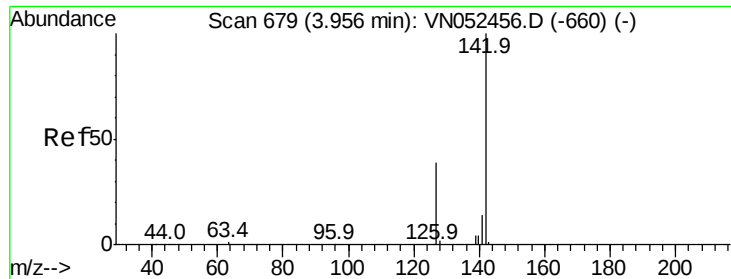
Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Tgt Ion:	96	Resp:	180079
Ion Ratio	Lower	Upper	
96	100		
61	156.8	129.4	194.2
98	62.8	50.4	75.6





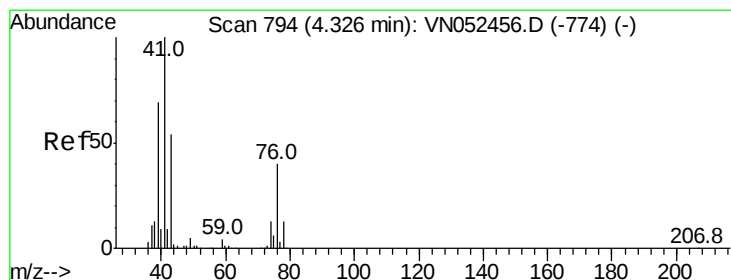
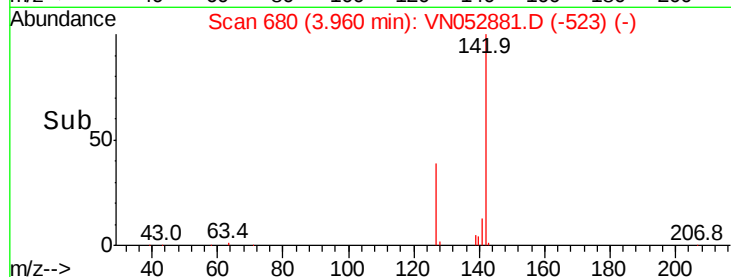
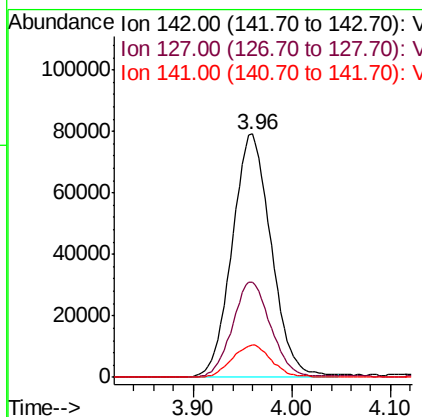
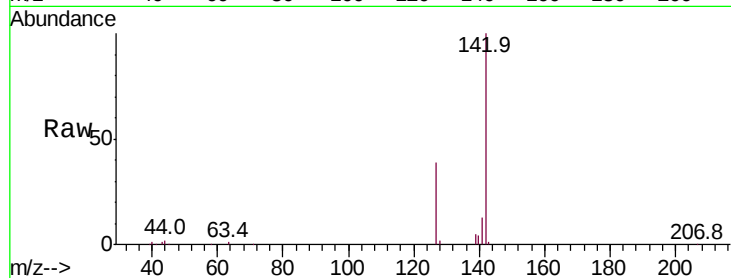
#11
Methvl Iodide
Concen: 17.501 ug/l
RT: 3.96 min Scan# 680
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBS01

Tot Ion	Ratio	Lower	Upper
142	100		
127	39.2	19.4	58.1
141	13.4	7.2	21.6

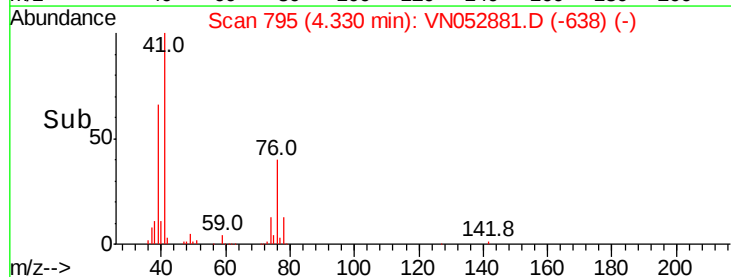
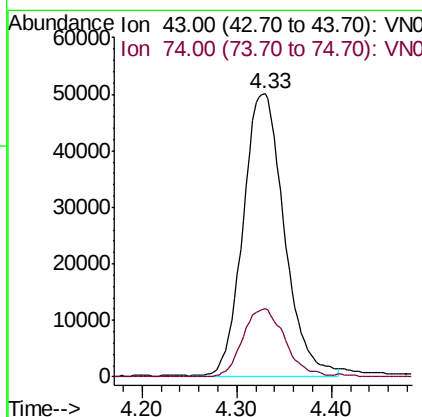
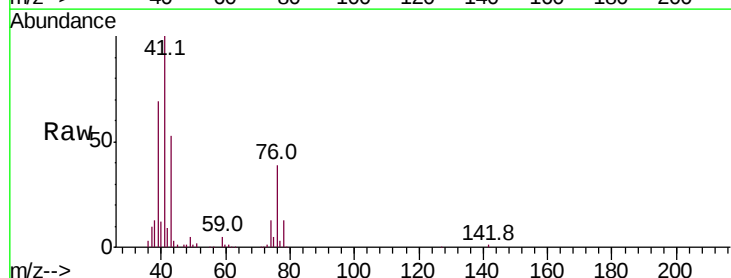
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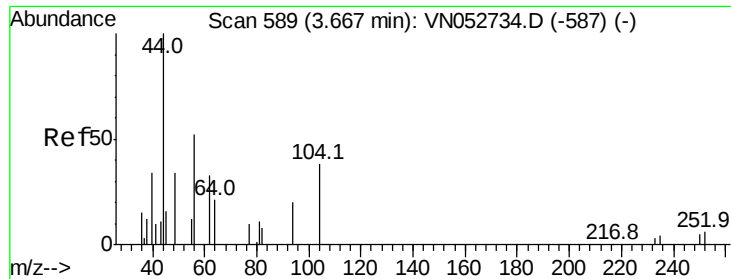
MMDadoda
12/17/2018 3:05:31 PM



#12
Methyl Acetate
Concen: 19.712 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.2	18.9	28.3





#13

Acrolein

Concen: 94.077 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBS01

Tot Ion: 56 Resp: 84257

Ion Ratio Lower Upper

56 100

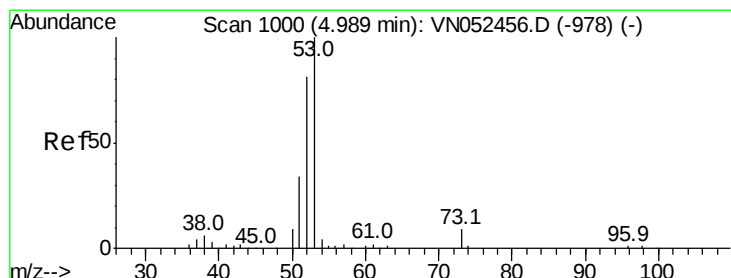
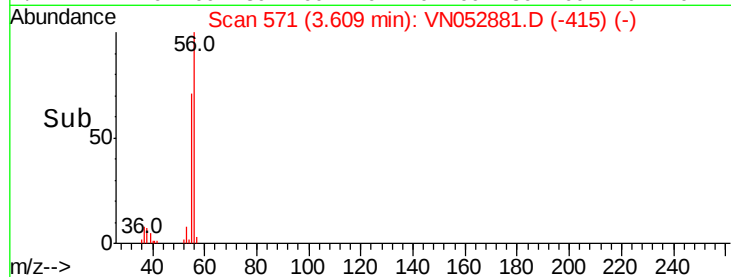
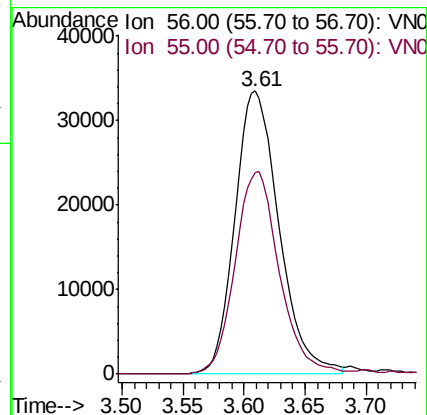
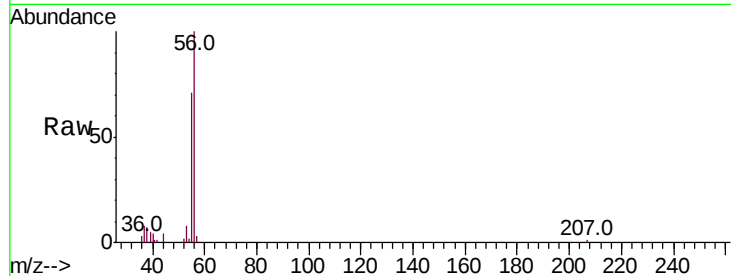
55 71.8 56.7 85.1

Manual Integrations

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#14

Acrylonitrile

Concen: 97.643 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

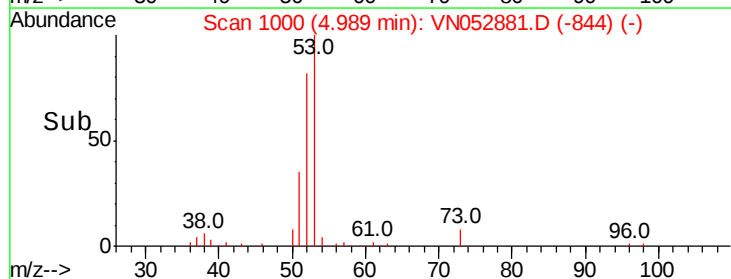
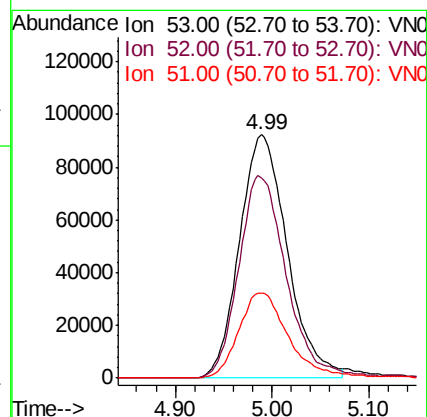
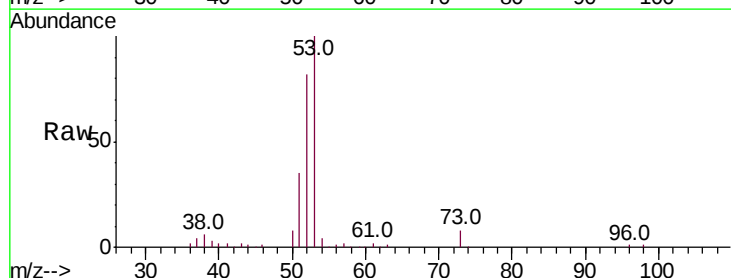
Tgt Ion: 53 Resp: 317207

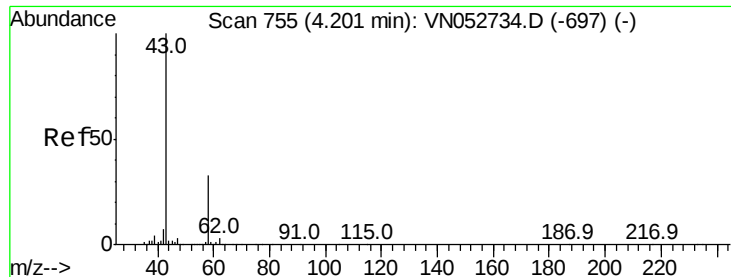
Ion Ratio Lower Upper

53 100

52 83.1 39.9 119.7

51 36.6 17.6 52.9





#15

Acetone

Concen: 91.543 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBS01

Tot Ion: 58 Resp: 77018

Ion Ratio Lower Upper

58 100

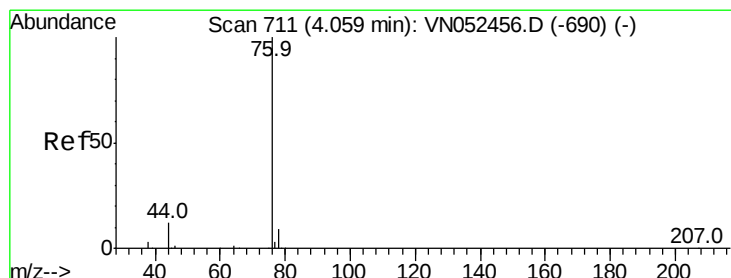
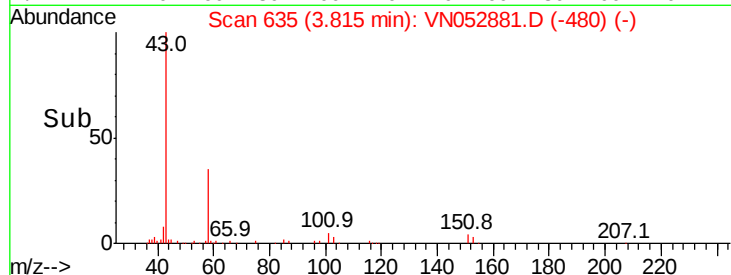
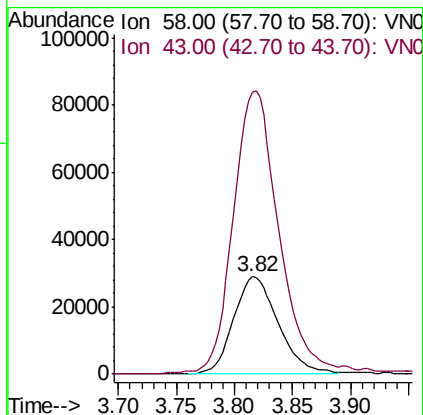
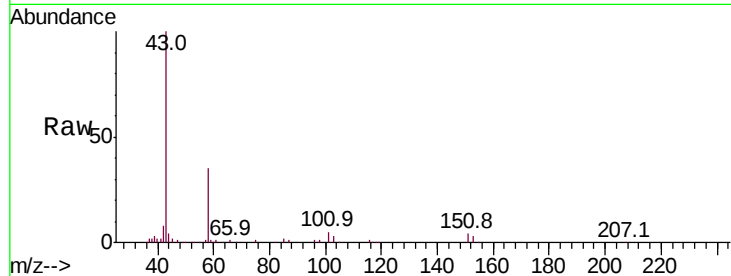
43 287.6 243.6 365.4

Manual Integrations

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#16

Carbon Disulfide

Concen: 17.222 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052881.D

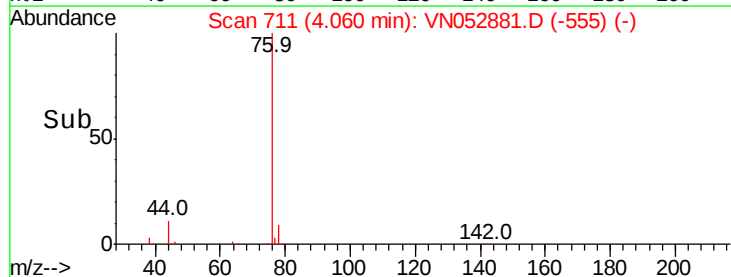
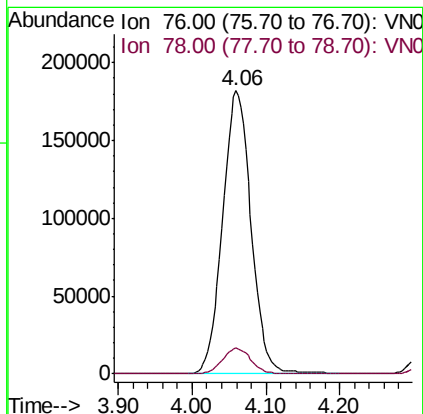
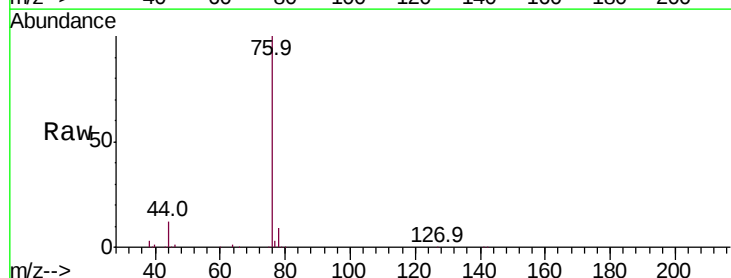
Acq: 14 Dec 2018 11:42

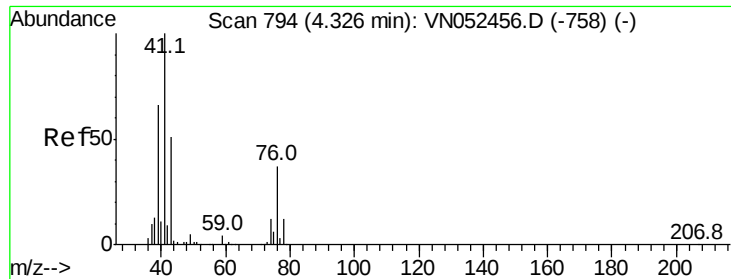
Tgt Ion: 76 Resp: 489265

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9





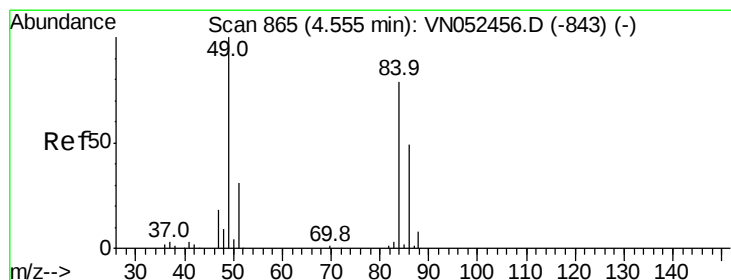
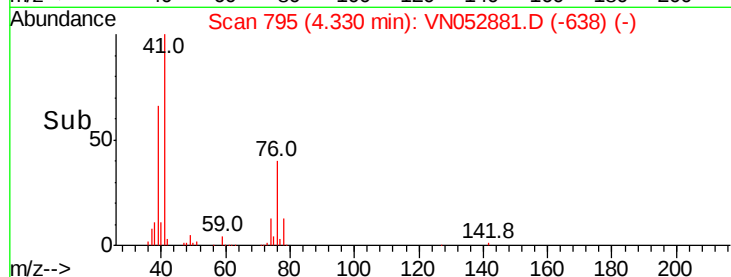
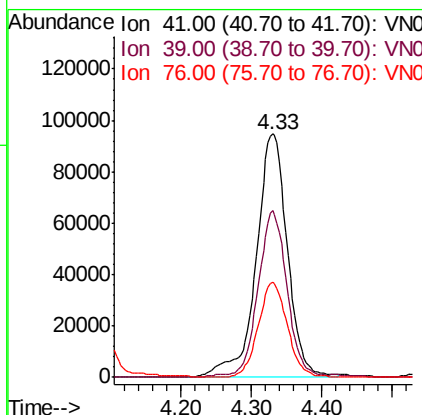
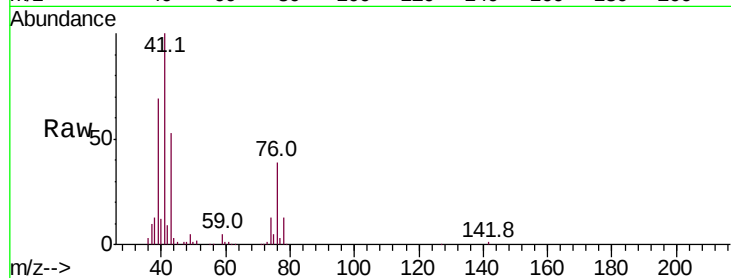
#17
Allvl chloride
Concen: 18.782 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBS01

Tot Ion	Ratio	Resp	Lower	Upper
41	100			
39	68.6	32.8	98.3	
76	38.6	18.6	55.8	

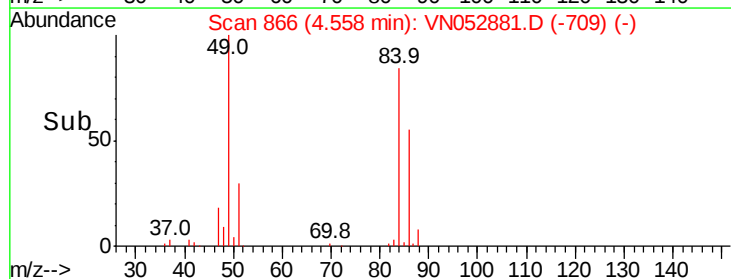
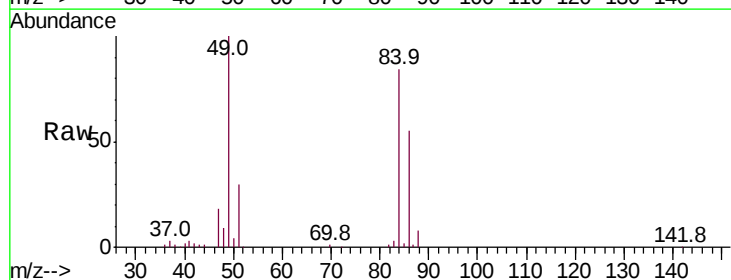
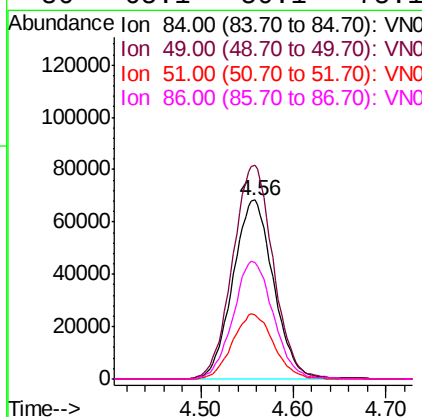
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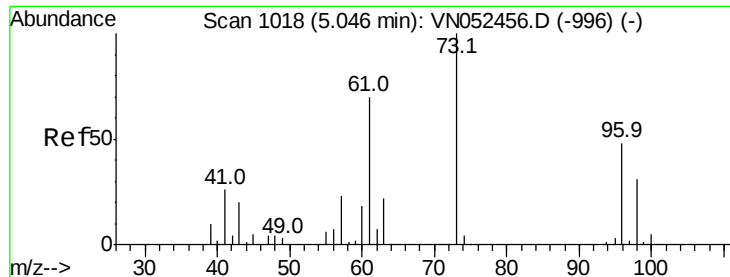
MMDadoda
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#18
Methylene Chloride
Concen: 20.025 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Resp	Lower	Upper
84	100			
49	119.1	101.4	152.0	
51	35.5	31.7	47.5	
86	65.1	50.1	75.1	





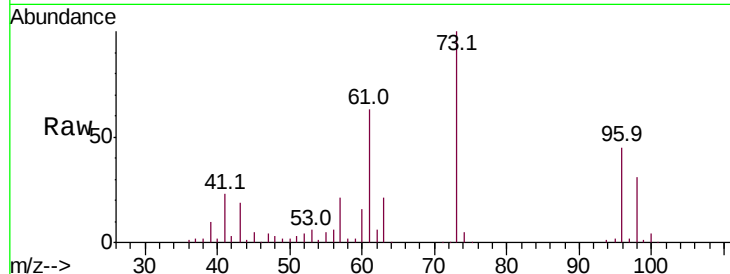
#19
trans-1,2-Dichloroethene
Concen: 19.792 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	138.1	118.2	177.4
98	67.9	51.4	77.2

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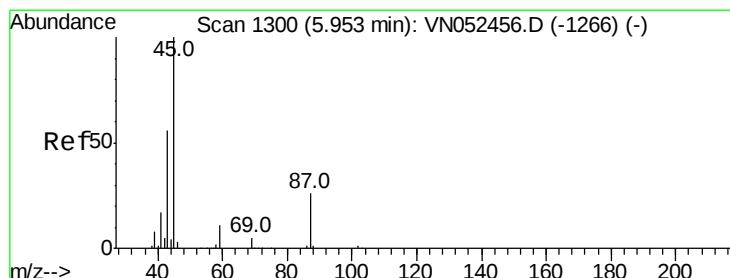
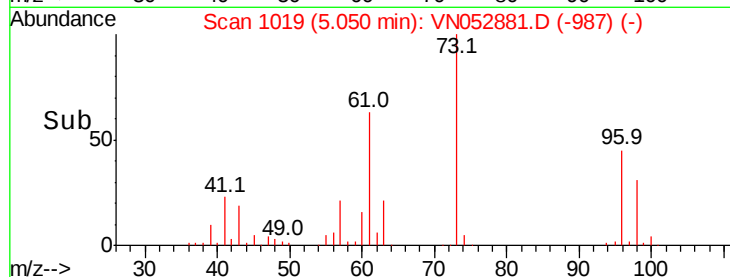
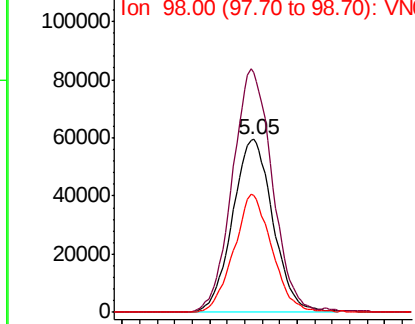


Abundance

Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO



#20
Diisopropyl ether
Concen: 19.330 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.8	47.8	71.8
87	28.2	21.3	31.9
59	11.7	8.9	13.3

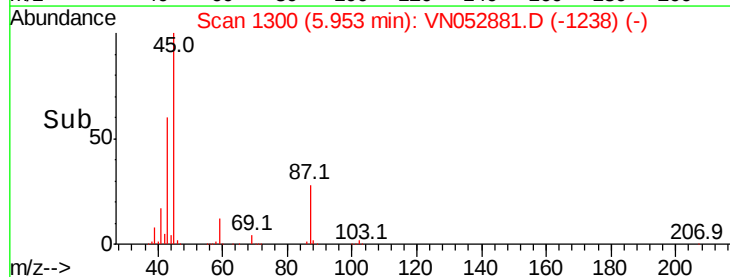
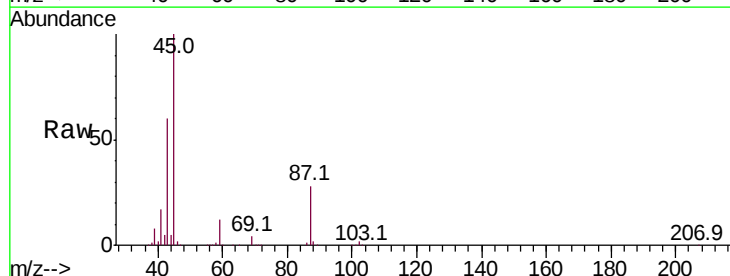
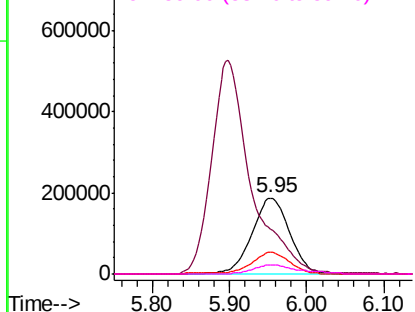
Abundance

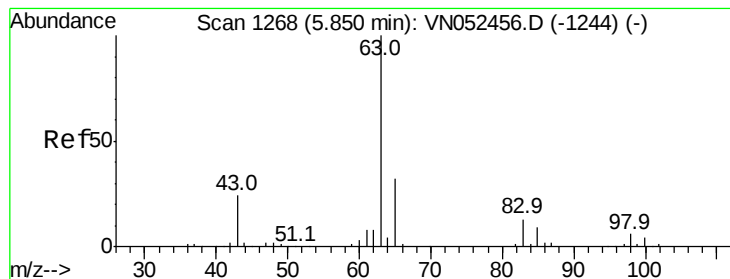
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





#21

1,1-Dichloroethane

Concen: 19.829 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

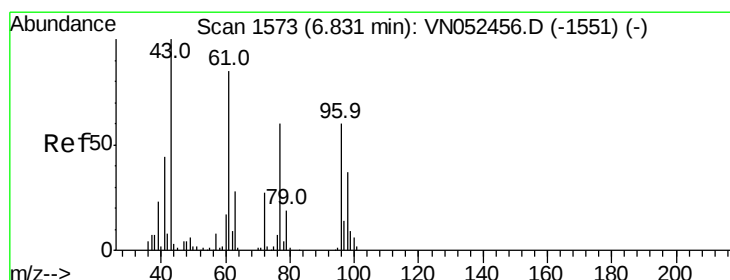
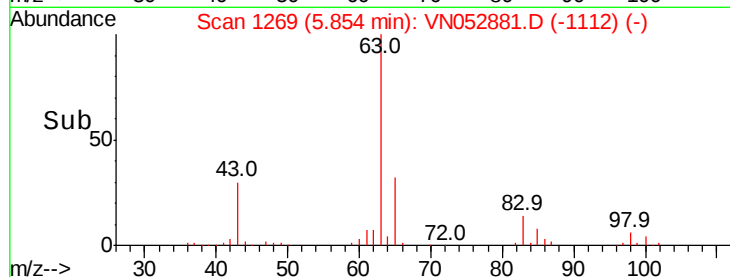
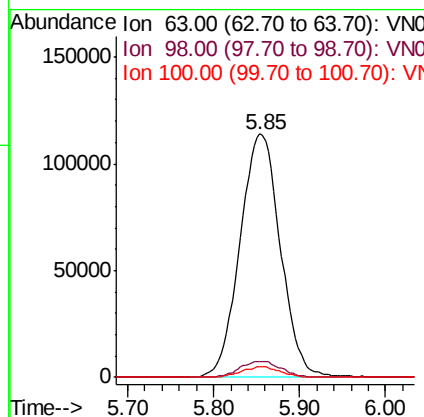
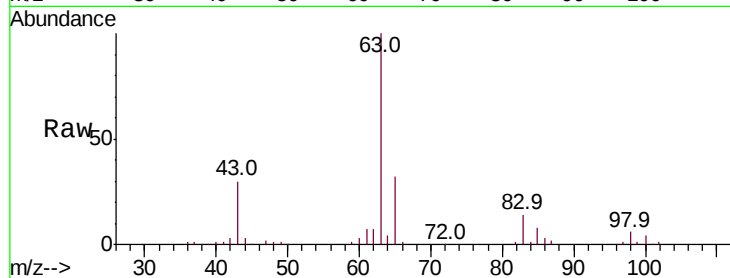
ClientSampleId :

VN1214WBS01

Tot Ion	Ratio	Resp	Lower	Upper
63	100	371686		
98	6.4		3.0	9.2
100	4.5		1.8	5.5

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#22

cis-1,2-Dichloroethene

Concen: 20.320 ug/l

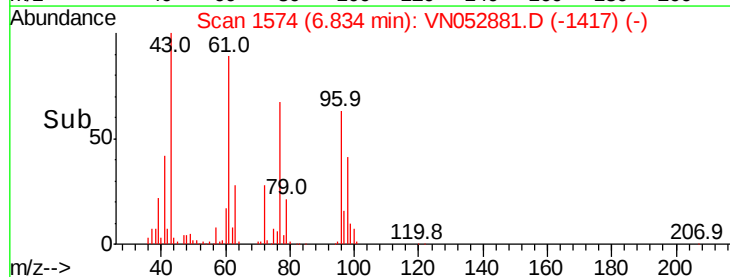
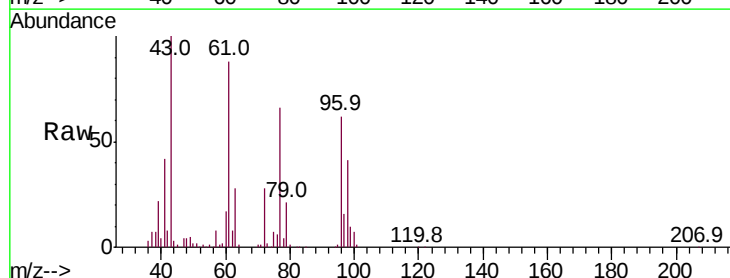
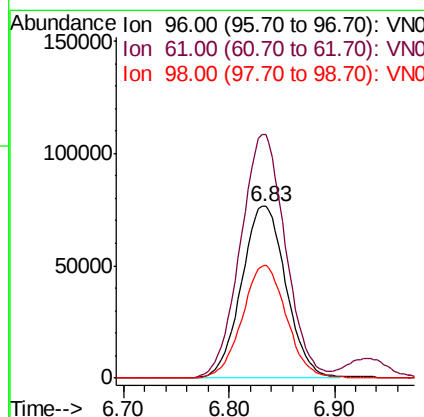
RT: 6.83 min Scan# 1574

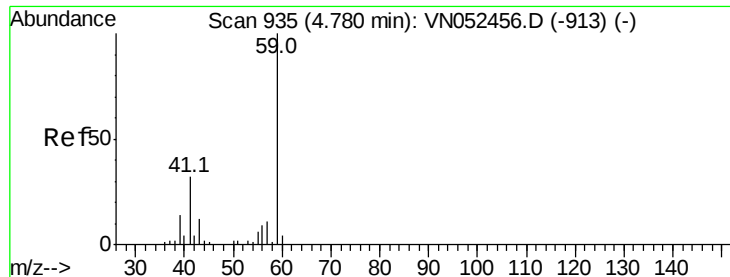
Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	224891		
61	143.4		116.7	175.1
98	65.1		50.8	76.2





#23

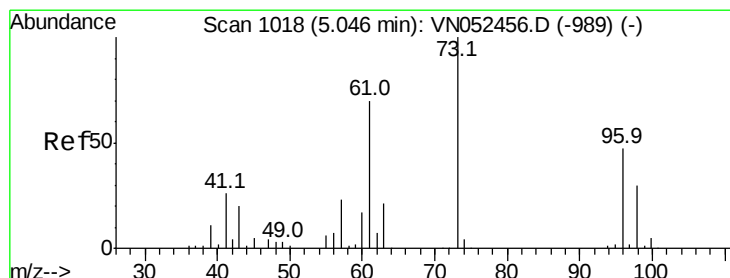
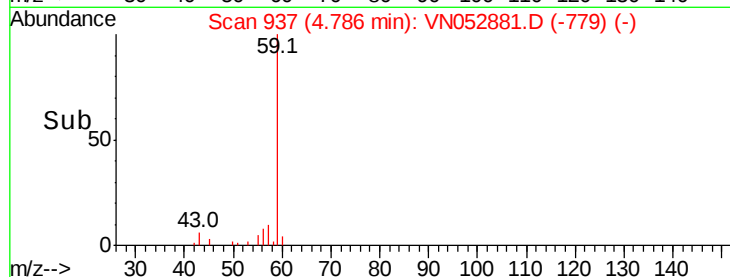
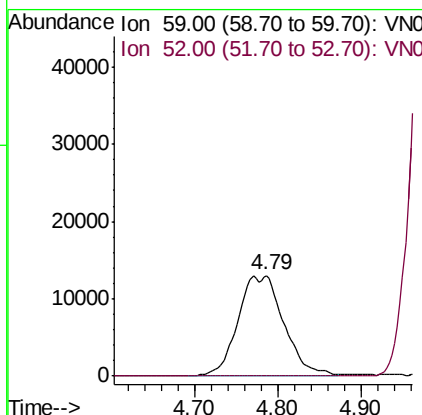
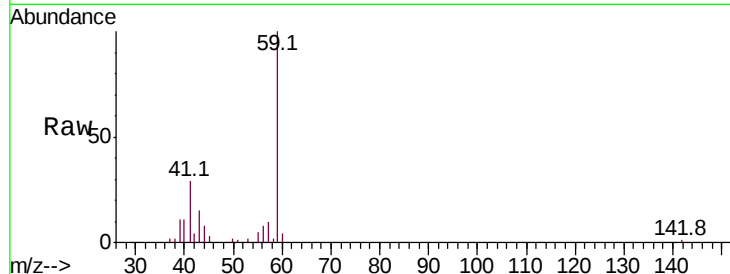
tert-Butyl Alcohol
Concen: 103.582 ug/l m
RT: 4.79 min Scan# 937
Delta R.T. 0.01 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBS01

Tot Ion: 59 Resp: 50058
Ion Ratio Lower Upper
59 100
52 0.2 0.0 0.0#

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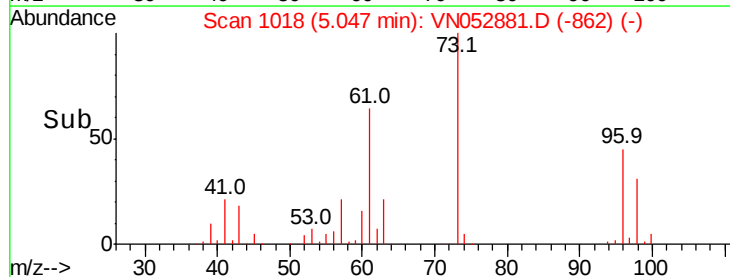
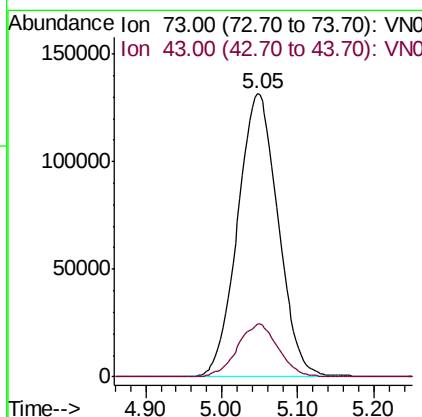
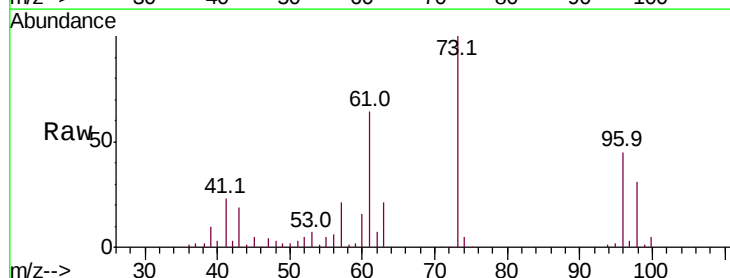
MMDadoda
12/17/2018 3:05:31 PM

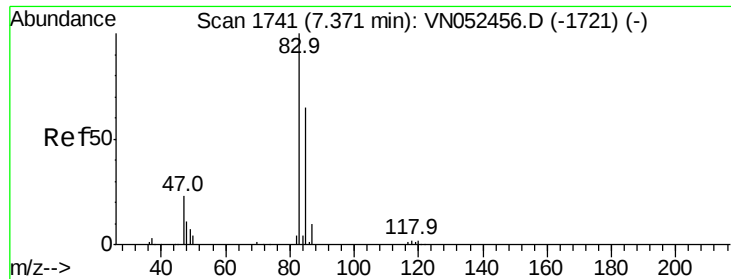


#24

Methyl tert-Butyl Ether
Concen: 20.665 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Tgt Ion: 73 Resp: 486472
Ion Ratio Lower Upper
73 100
43 18.6 15.8 23.8





#25

Chloroform

Concen: 20.155 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBS01

Tot Ion: 83 Resp: 364463

Ion Ratio Lower Upper

83 100

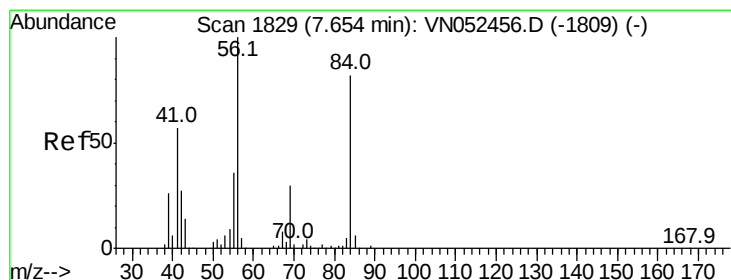
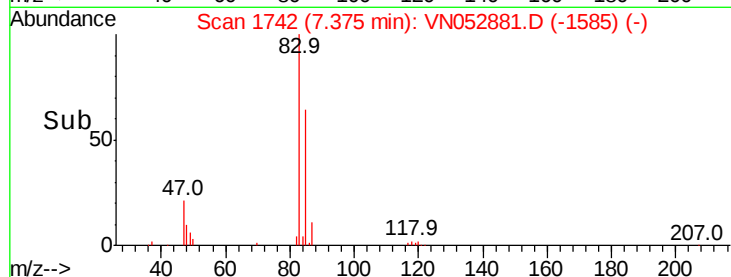
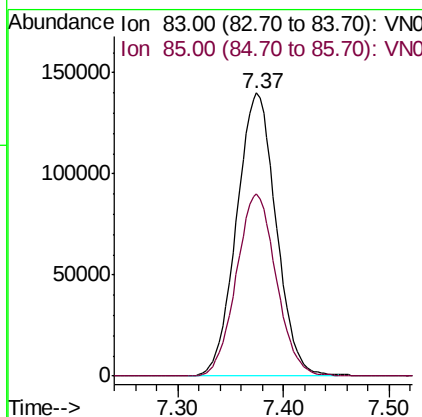
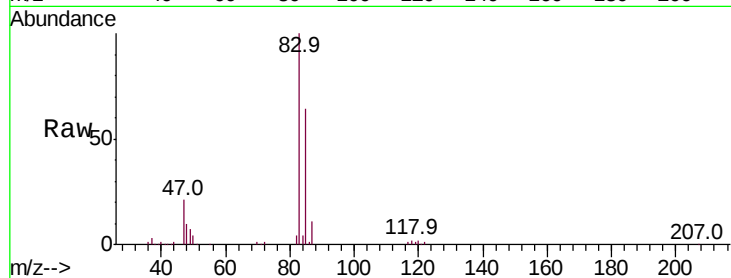
85 64.3 51.7 77.5

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#26

Cyclohexane

Concen: 18.140 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

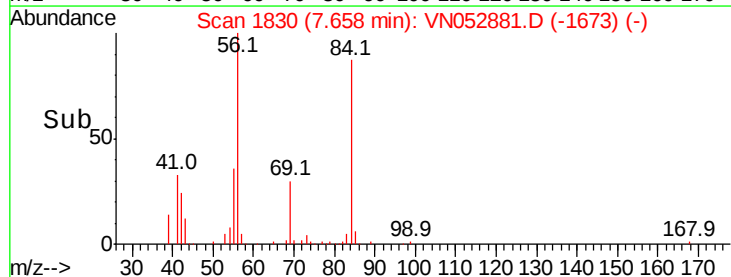
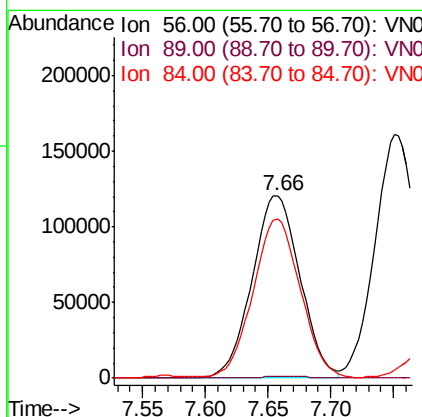
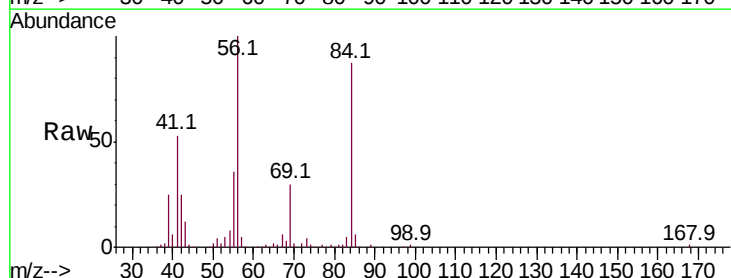
Tgt Ion: 56 Resp: 320689

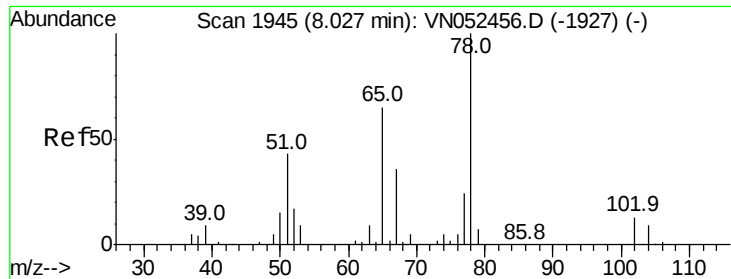
Ion Ratio Lower Upper

56 100

89 0.4 0.5 0.7#

84 86.6 66.2 99.2





#27

1,2-Dichloroethane-d4

Concen: 18.140 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBS01

Tot Ion: 65 Resp: 315225

Ion Ratio Lower Upper

65 100

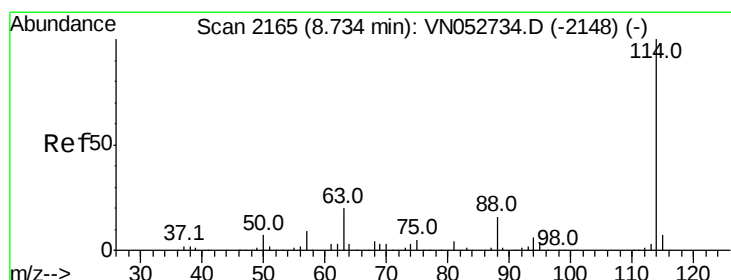
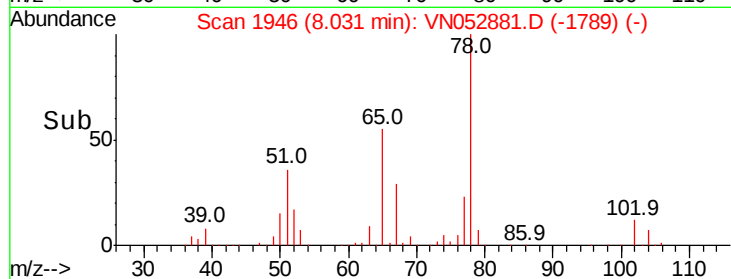
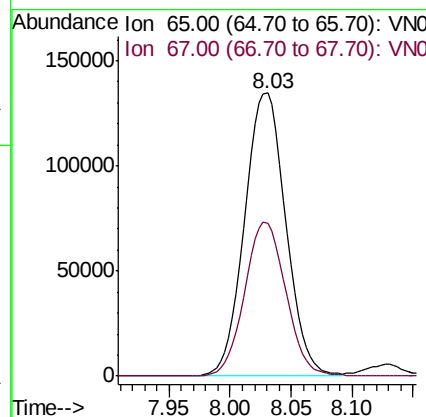
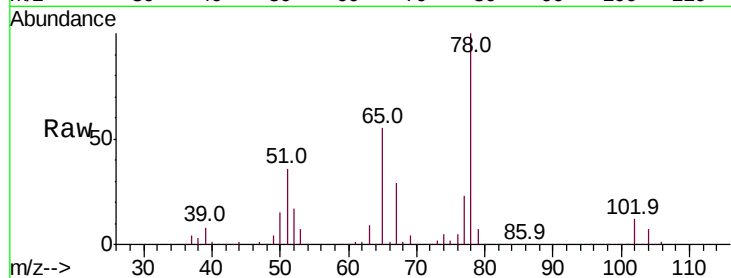
67 54.2 44.6 66.8

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#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

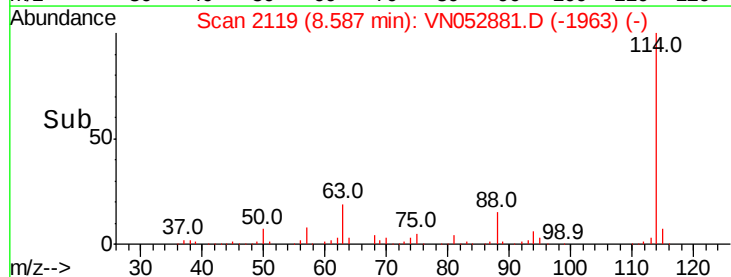
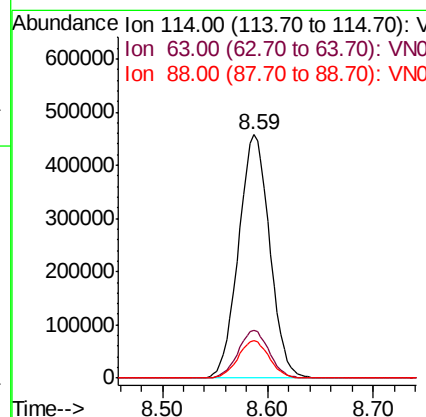
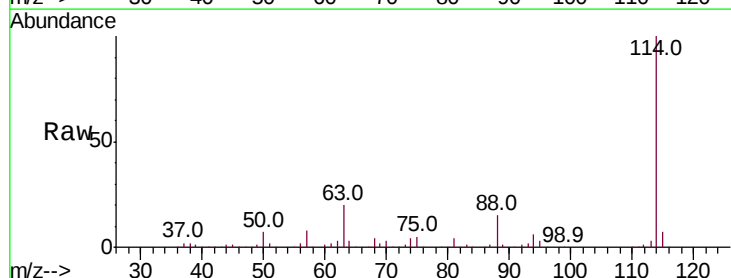
Tgt Ion: 114 Resp: 937734

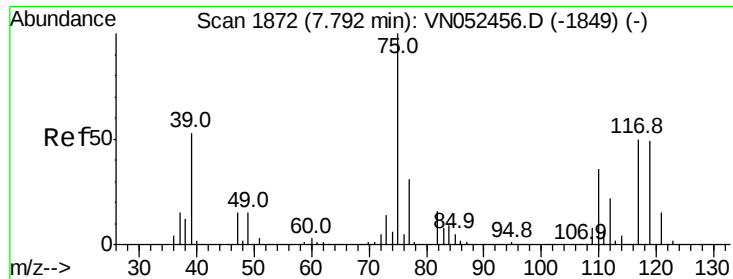
Ion Ratio Lower Upper

114 100

63 19.5 16.9 25.3

88 15.3 12.8 19.2





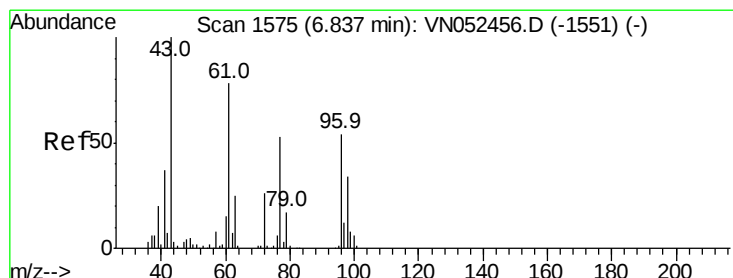
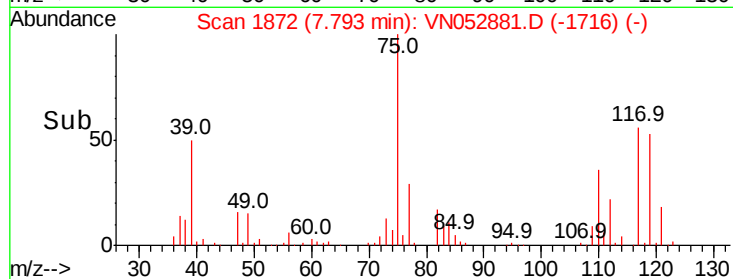
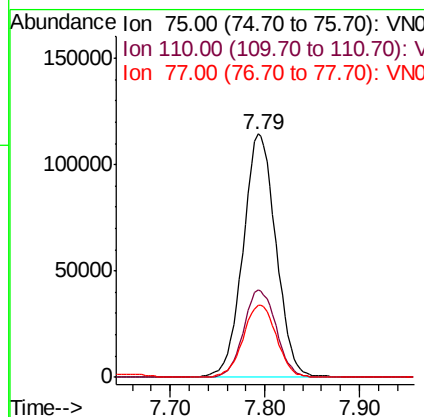
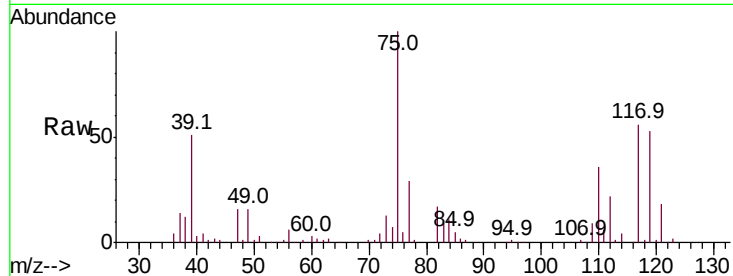
#29
 1,1-Dichloropropene
 Concen: 19.266 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN052881.D
 Acq: 14 Dec 2018 11:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBS01

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	35.6	0.0	70.2
77	30.0	0.0	62.6

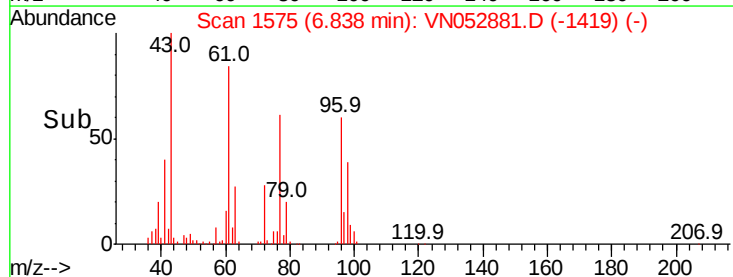
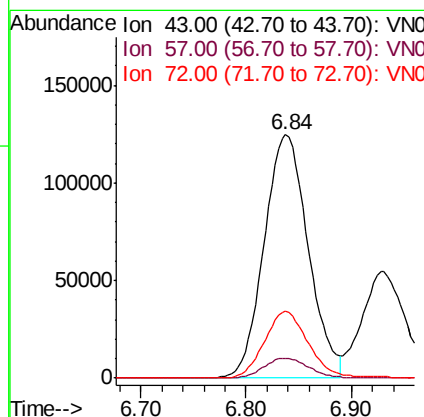
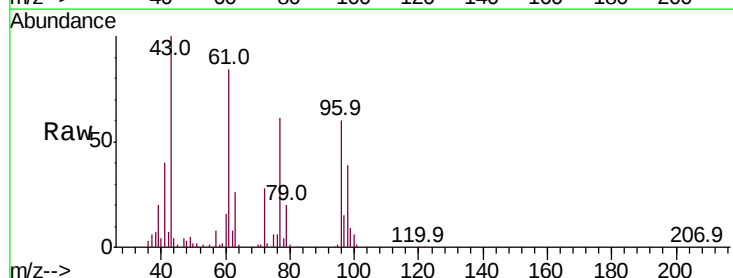
Manual Integrations
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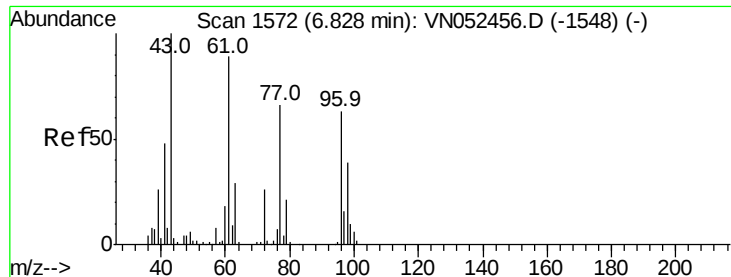
MMDadoda
 12/17/2018 3:05:31 PM



#30
 2-Butanone
 Concen: 94.209 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VN052881.D
 Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	8.5	6.2	9.4
72	27.2	21.0	31.6





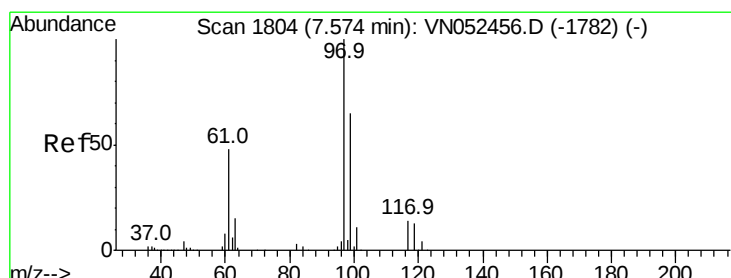
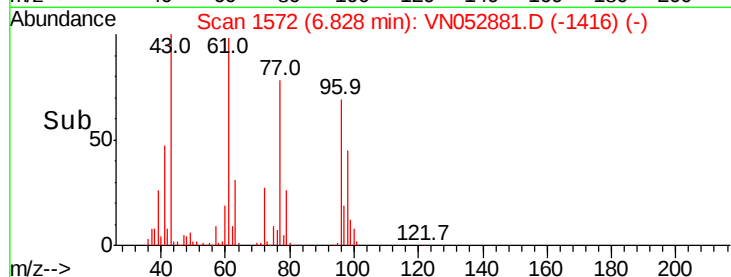
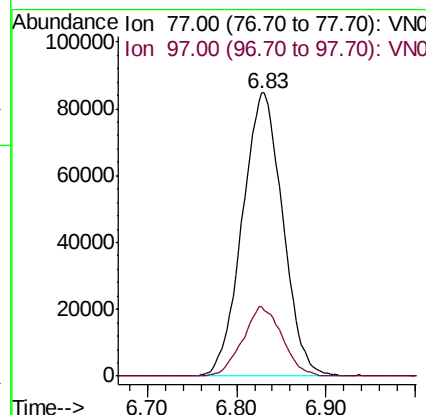
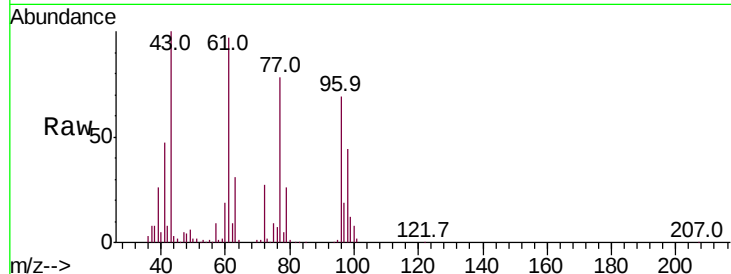
#31
 2,2-Dichloropropane
 Concen: 20.239 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN052881.D
 Acq: 14 Dec 2018 11:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBS01

Tot Ion: 77 Resp: 266819
 Ion Ratio Lower Upper
 77 100
 97 23.9 18.7 28.1

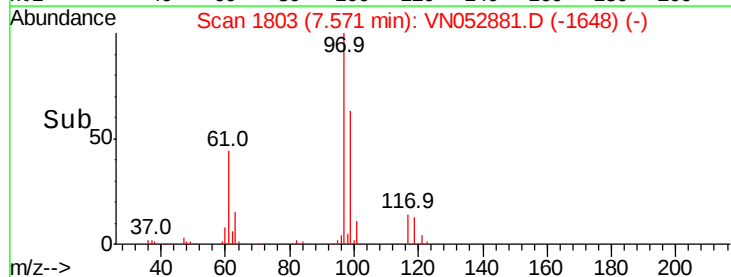
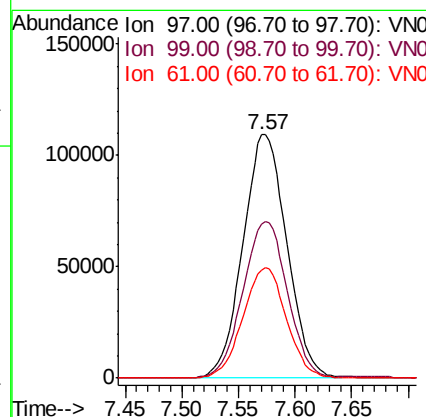
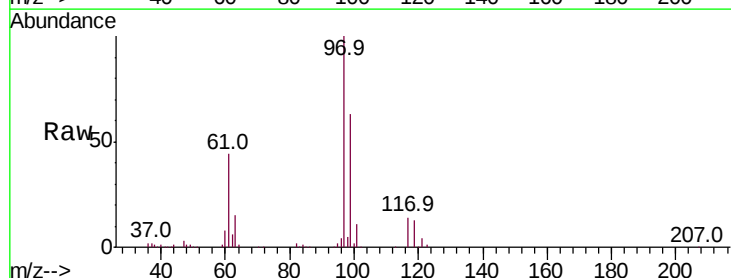
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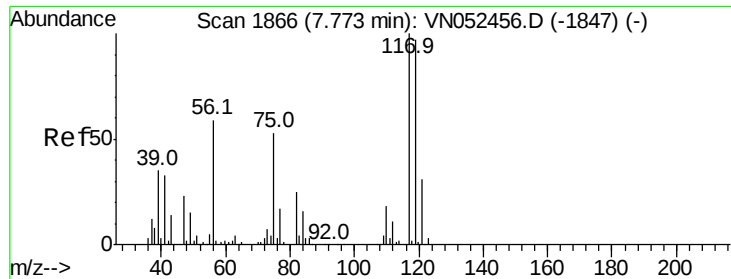
MMDadoda
 12/17/2018 3:05:31 PM



#32
 1,1,1-Trichloroethane
 Concen: 19.831 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN052881.D
 Acq: 14 Dec 2018 11:42

Tgt Ion: 97 Resp: 295493
 Ion Ratio Lower Upper
 97 100
 99 65.0 50.9 76.3
 61 44.9 38.1 57.1





#33

Carbon Tetrachloride

Concen: 19.968 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

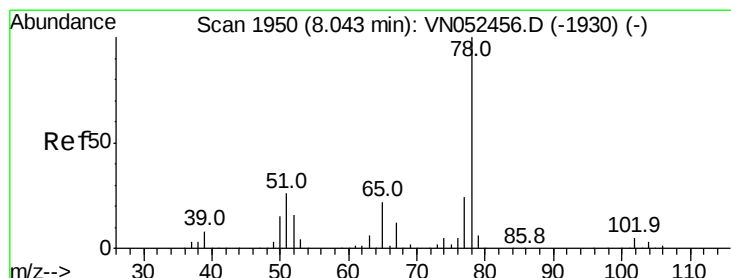
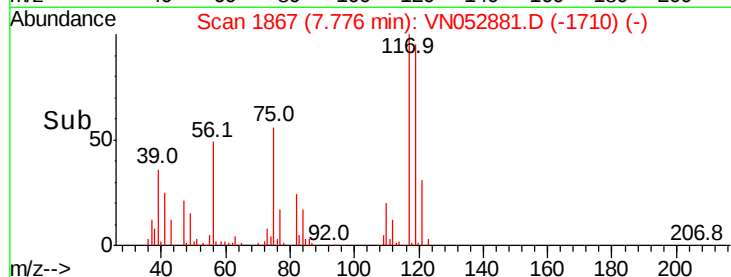
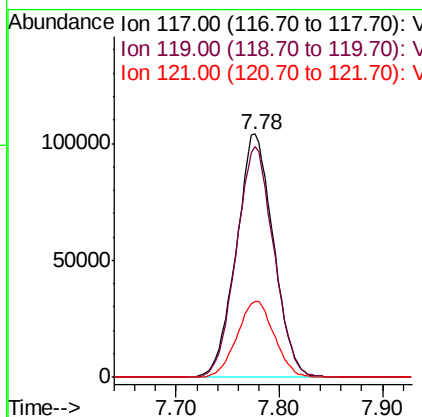
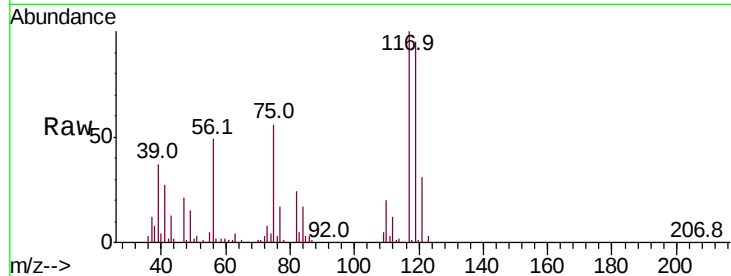
ClientSampleId :

VN1214WBS01

Tot Ion:	117	Resp:	260335
Ion	Ratio	Lower	Upper
117	100		
119	94.6	77.3	115.9
121	31.1	24.9	37.3

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#34

Benzene

Concen: 19.606 ug/l

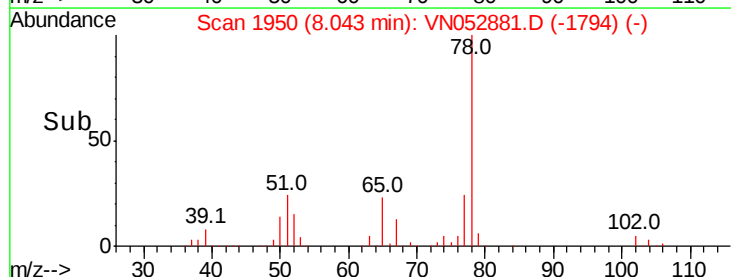
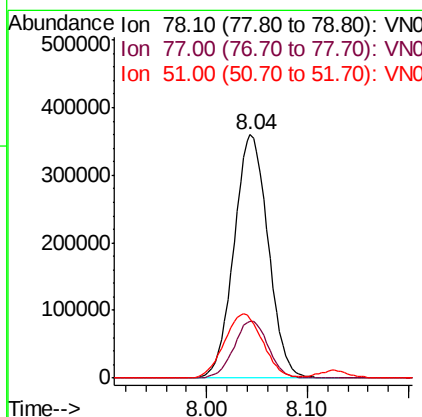
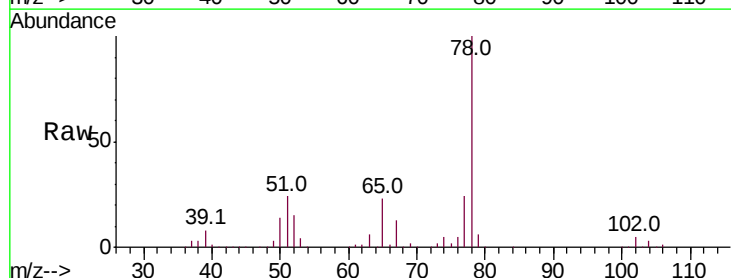
RT: 8.04 min Scan# 1950

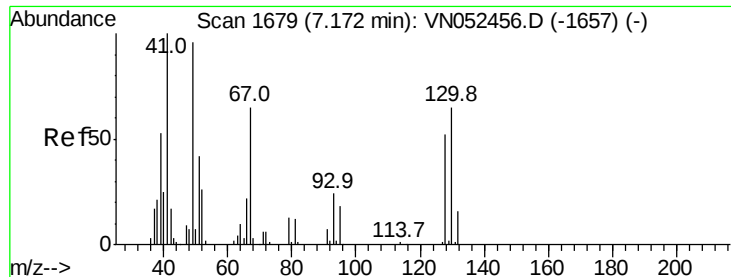
Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Tgt Ion:	78	Resp:	844108
Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6
51	24.2	20.5	30.7





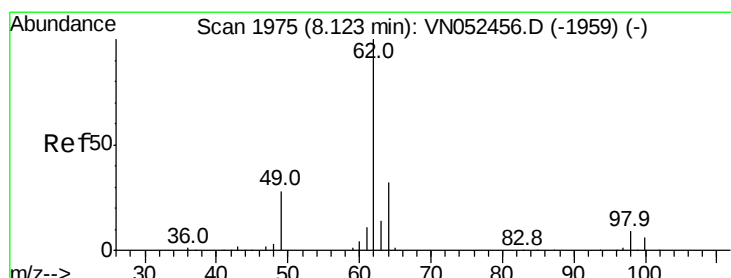
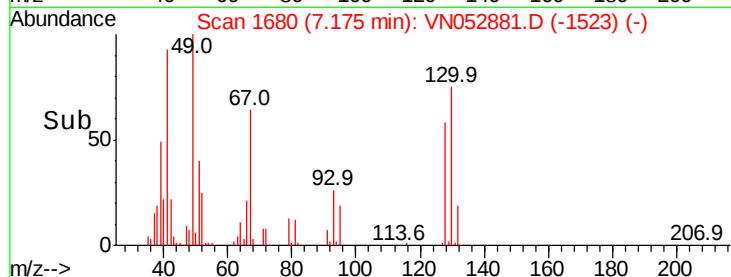
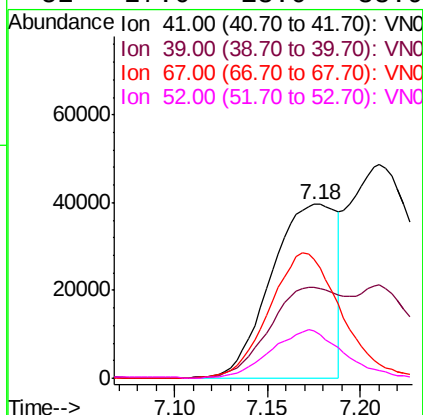
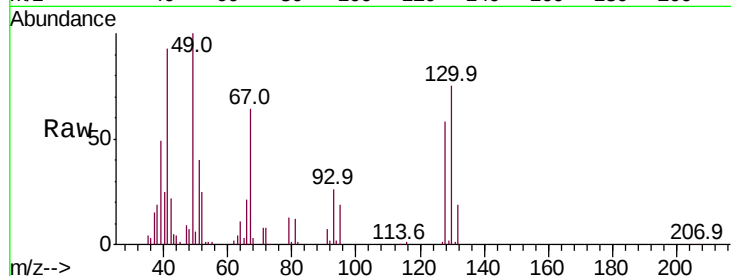
#35
Methacrylonitrile
Concen: 20.446 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	52.1	26.6	79.7
67	68.3	32.3	96.9
52	27.0	13.0	38.9

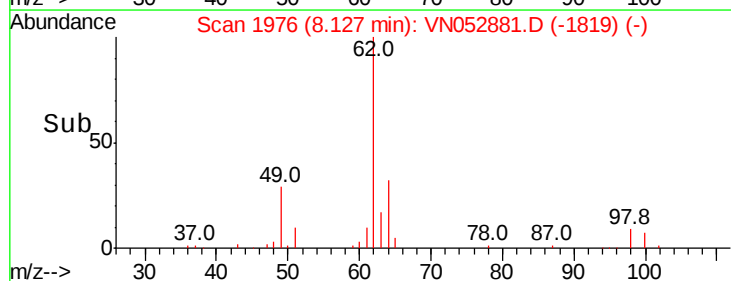
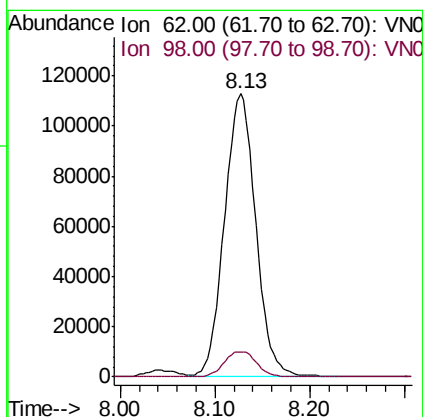
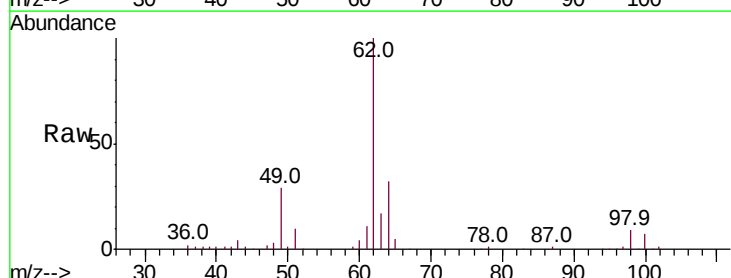
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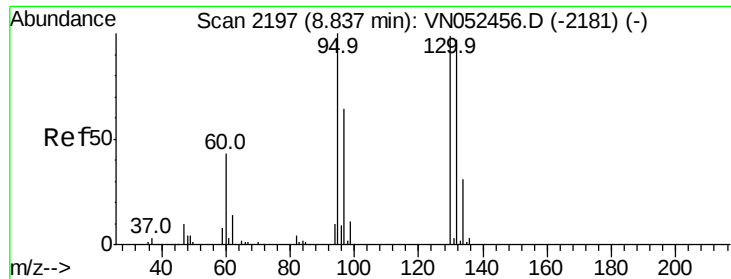
MMDadoda
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#36
1,2-Dichloroethane
Concen: 19.792 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.2	7.4	11.2





#37

Trichloroethene

Concen: 20.558 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBS01

Tot Ion:130 Resp: 224441

Ion Ratio Lower Upper

130 100

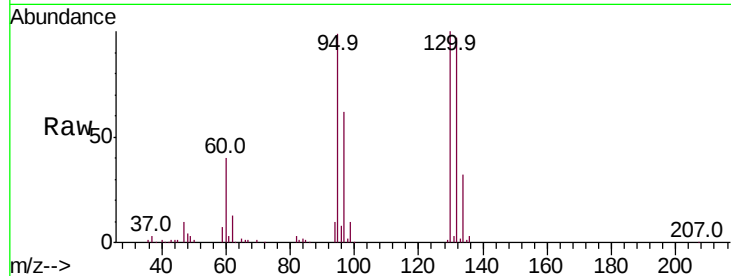
95 99.3 81.0 121.4

Manual Integrations

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

120000

100000

80000

60000

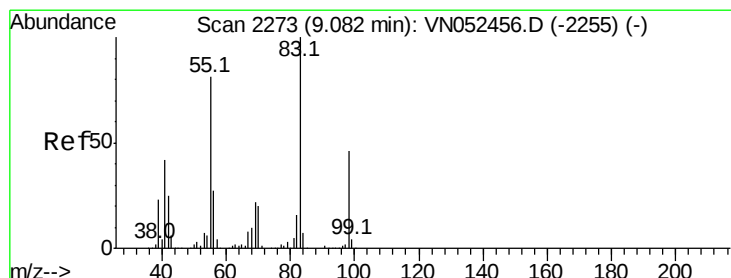
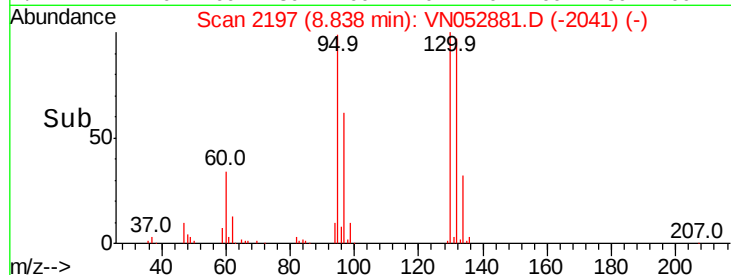
40000

20000

0

8.75 8.80 8.85 8.90

Time-->



#38

Methylcyclohexane

Concen: 18.304 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

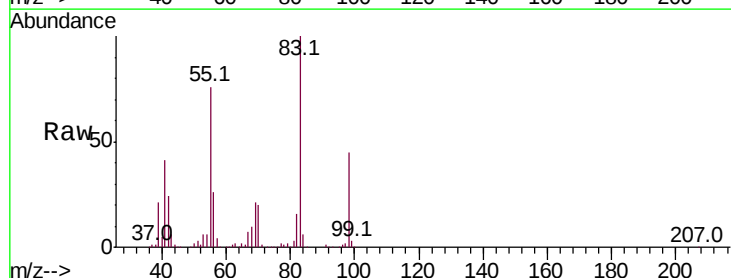
Tgt Ion: 83 Resp: 324475

Ion Ratio Lower Upper

83 100

55 75.6 39.8 119.4

98 45.7 22.9 68.5



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

200000

150000

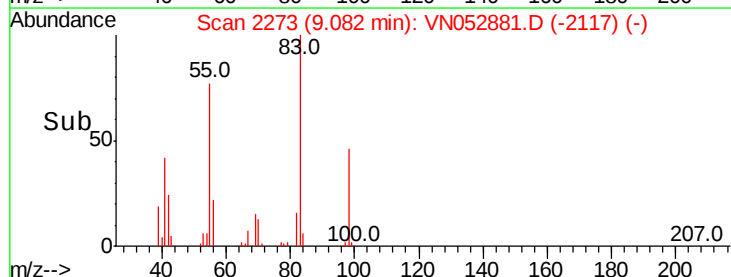
100000

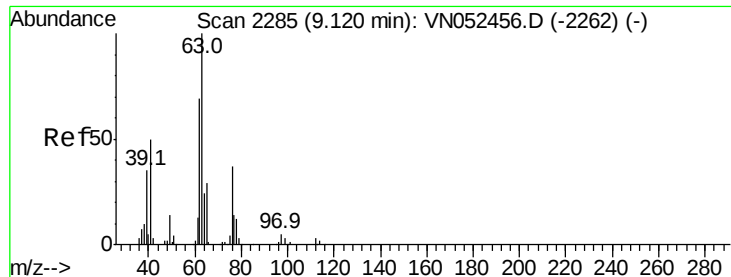
50000

0

9.00 9.05 9.10 9.15

Time-->





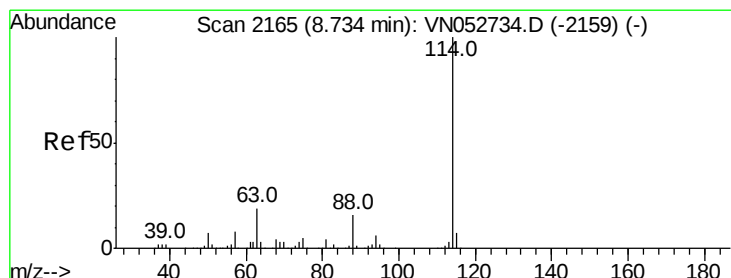
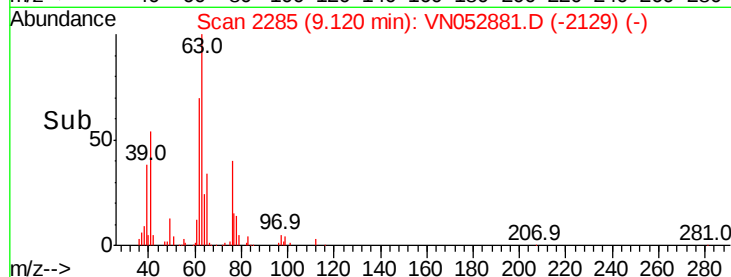
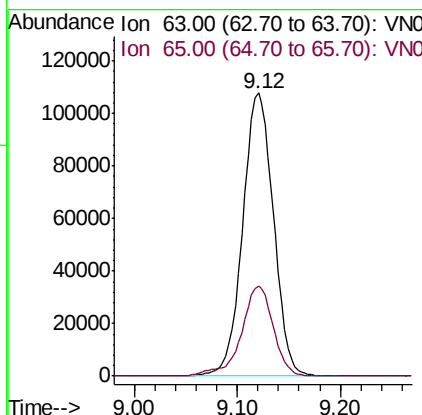
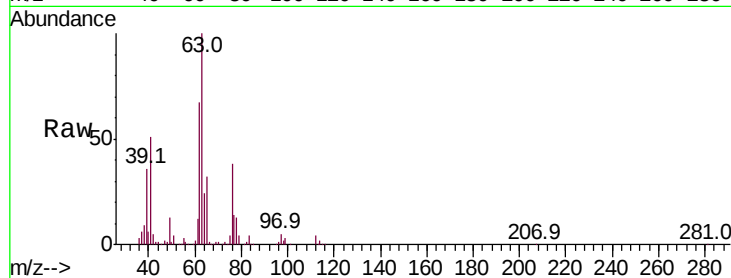
#39
 1,2-Dichloropropane
 Concen: 19.371 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052881.D
 Acq: 14 Dec 2018 11:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.8	23.6	35.4

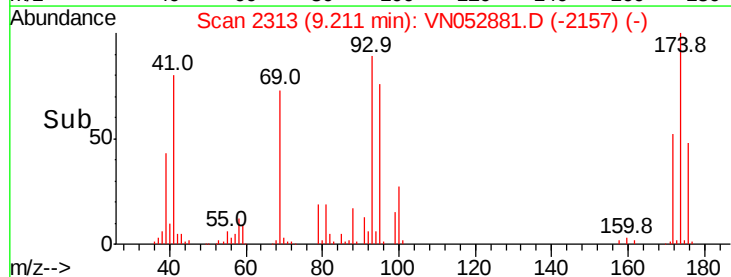
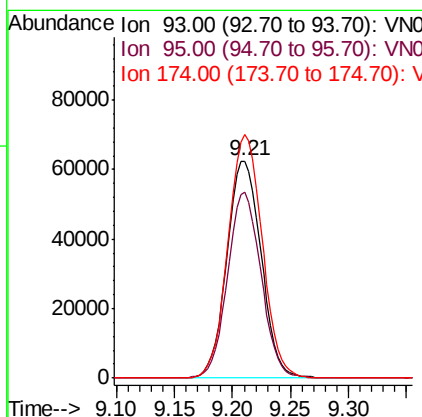
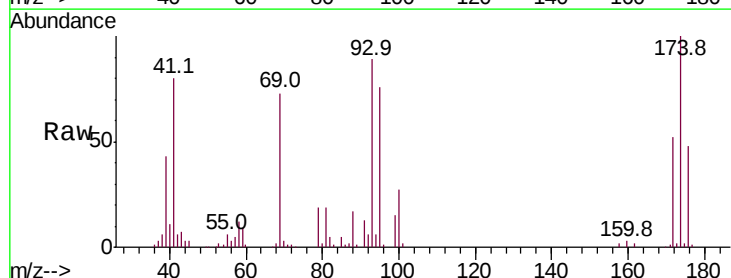
Manual Integrations
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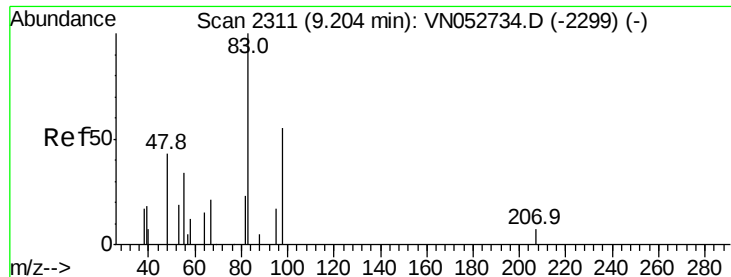
MMDadoda
 12/17/2018 3:05:31 PM



#40
 Dibromomethane
 Concen: 20.560 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052881.D
 Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.5	0.0	168.4
174	111.4	0.0	210.0





#41

Bromodichloromethane

Concen: 19.841 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

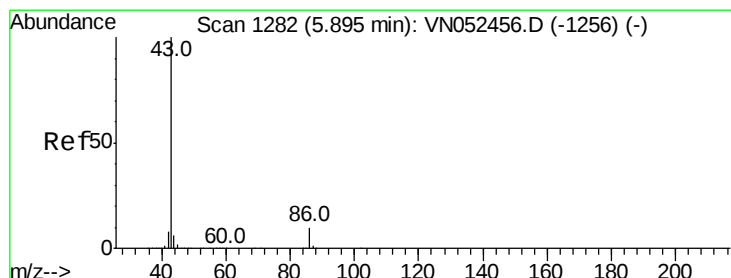
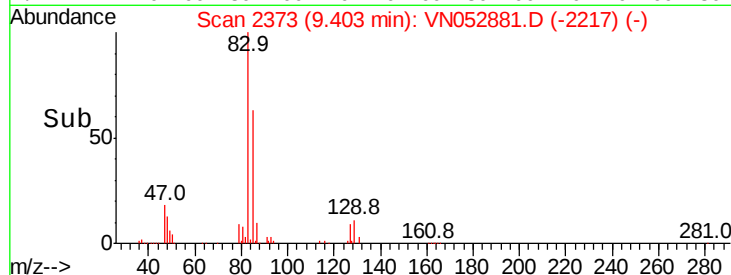
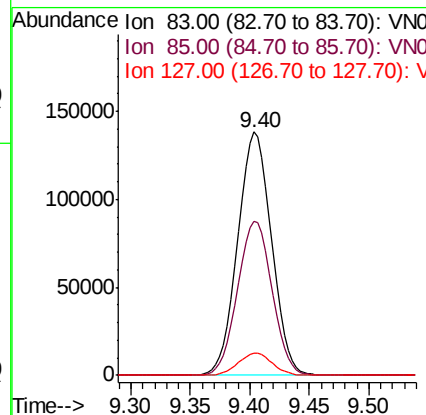
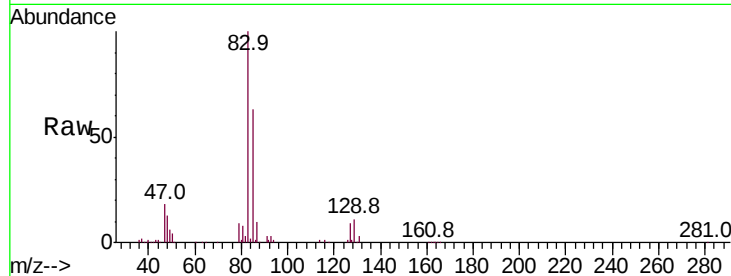
ClientSampleId :

VN1214WBS01

Tot Ion:	83	Resp:	273389
Ion Ratio	Lower	Upper	
83	100		
85	63.2	52.4	78.6
127	8.9	6.6	9.8

Manual Integrations
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12/17/2018 3:05:31 PM



#42

Vinyl Acetate

Concen: 90.320 ug/l

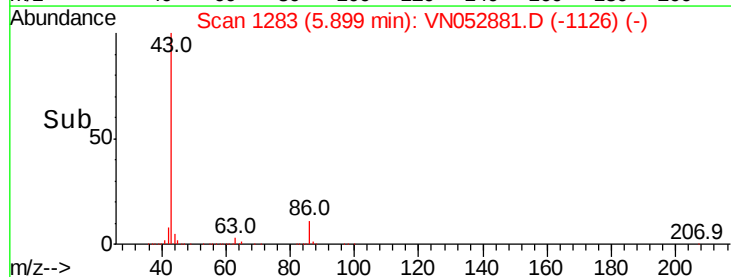
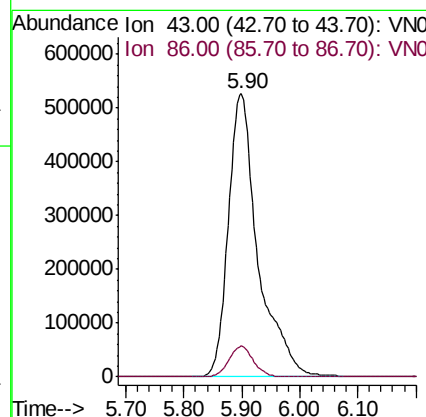
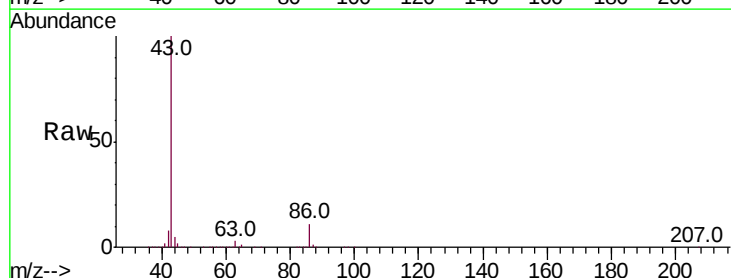
RT: 5.90 min Scan# 1283

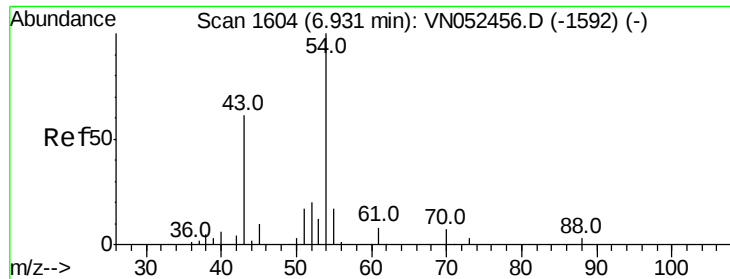
Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Tgt Ion:	43	Resp:	1872586
Ion Ratio	Lower	Upper	
43	100		
86	8.9	6.5	9.7





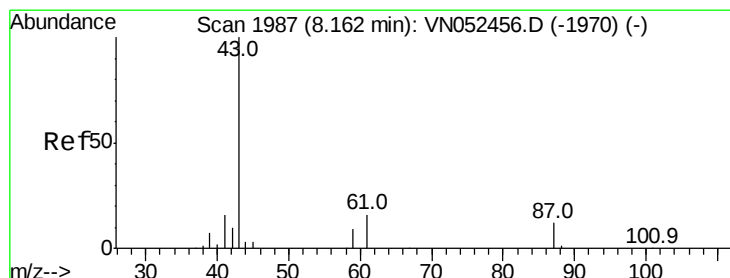
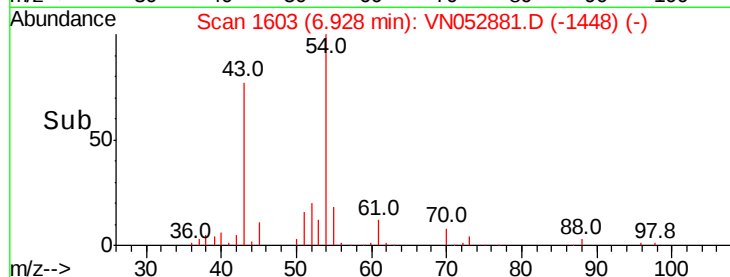
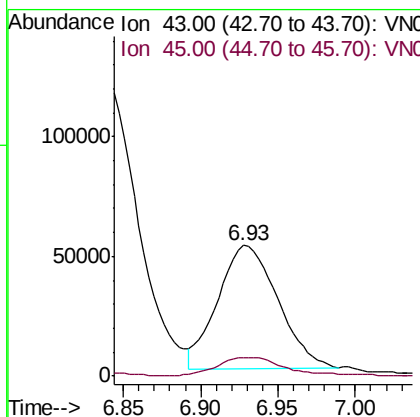
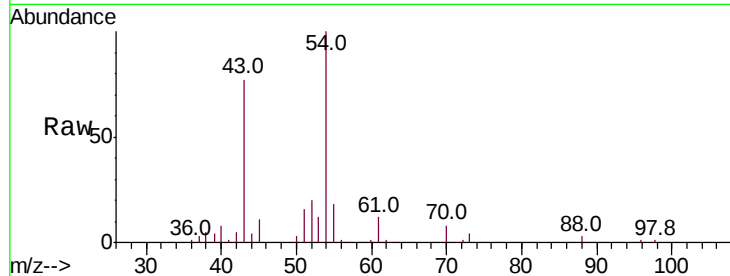
#43
Ethyl Acetate
Concen: 16.994 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBS01

Tot Ion: 43 Resp: 138471
Ion Ratio Lower Upper
43 100
45 16.5 1.0 1.6#

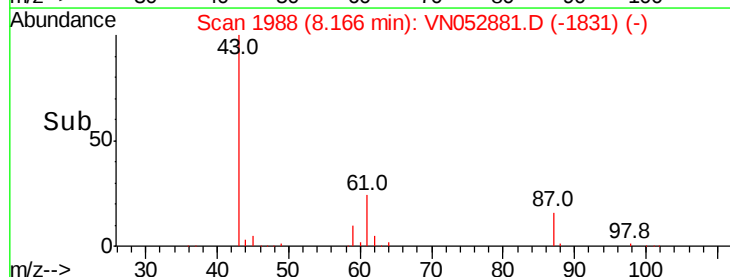
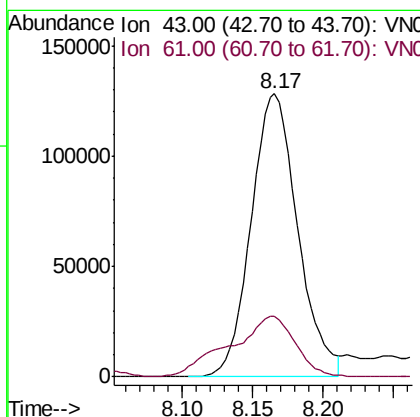
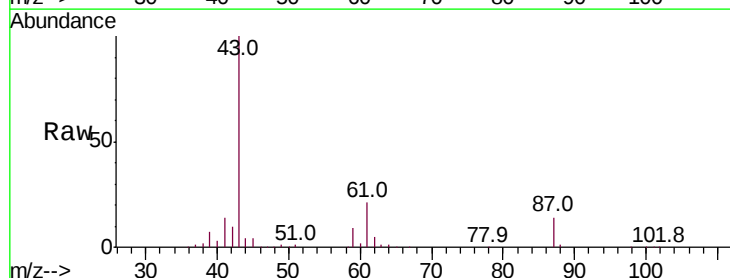
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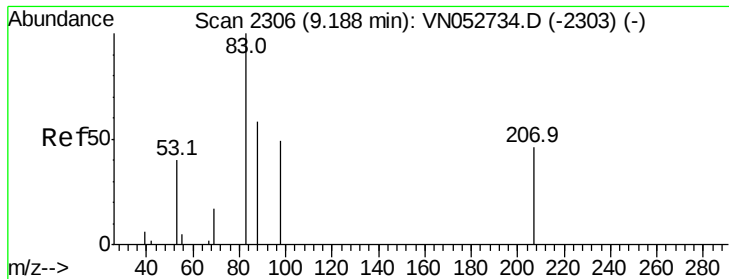
MMDadoda
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#44
Isopropyl Acetate
Concen: 20.634 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Tgt Ion: 43 Resp: 294866
Ion Ratio Lower Upper
43 100
61 29.5 16.0 24.0#





#45

1,4-Dioxane

Concen: 411.855 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

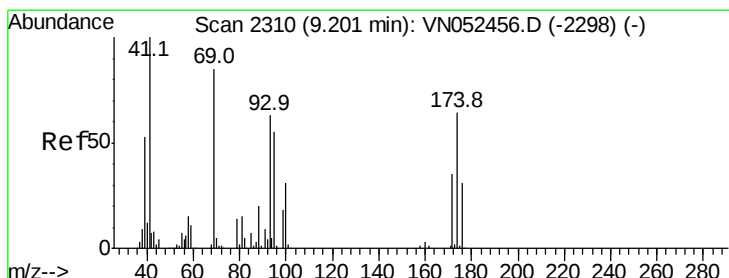
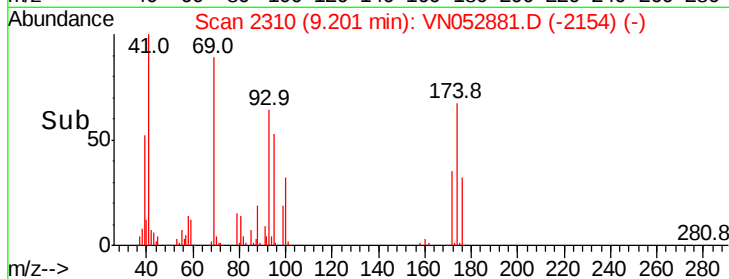
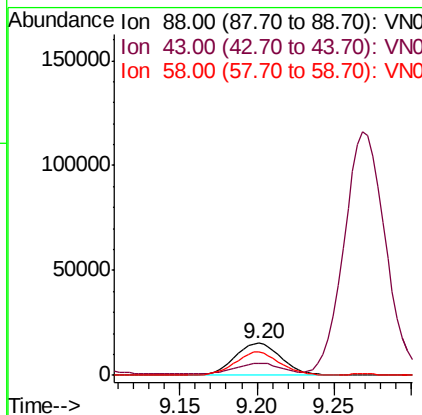
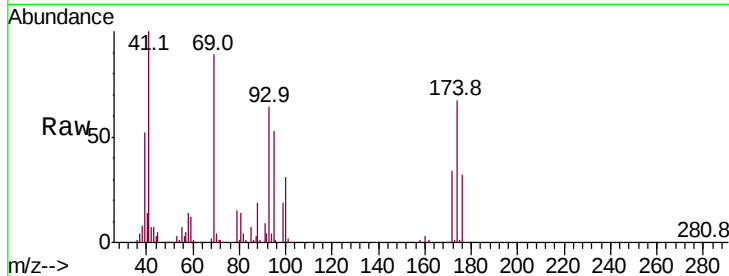
ClientSampleId :

VN1214WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.5	29.5	44.3
58	70.2	61.5	92.3

Manual Integrations
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#46

Methyl methacrylate

Concen: 19.565 ug/l

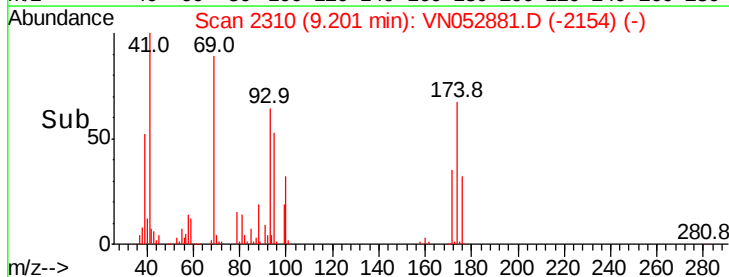
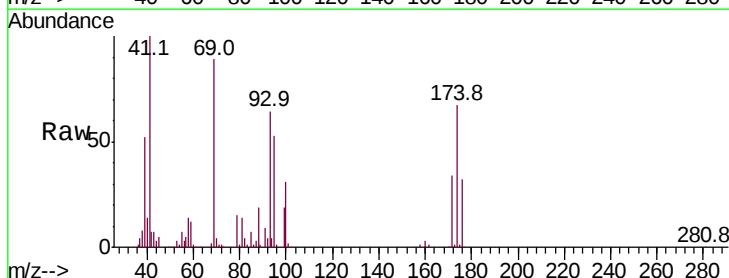
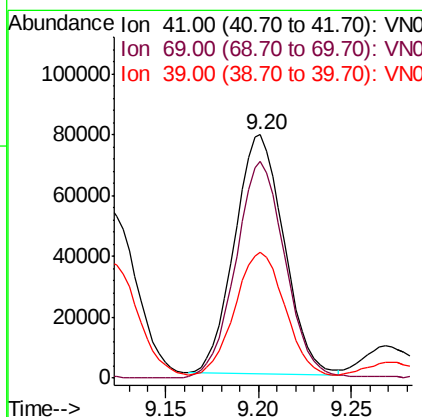
RT: 9.20 min Scan# 2310

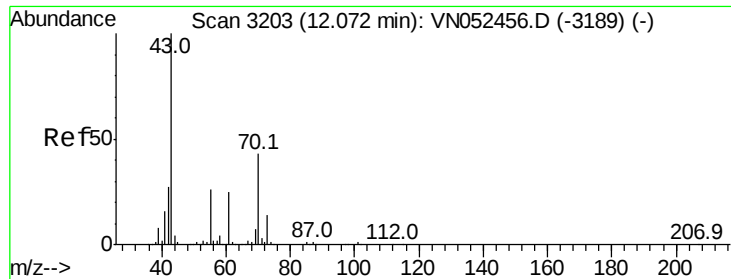
Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Lower	Upper
41	100		
69	90.3	42.5	127.6
39	51.6	26.3	78.9





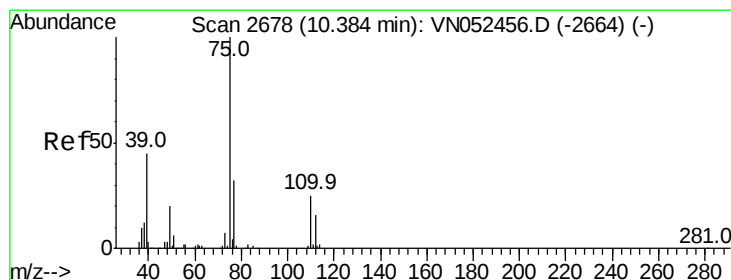
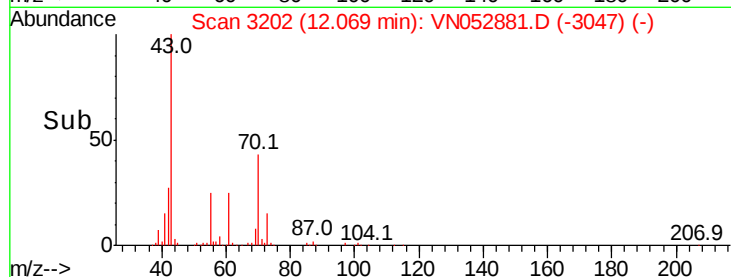
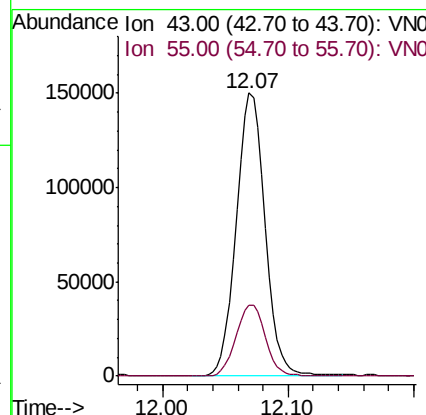
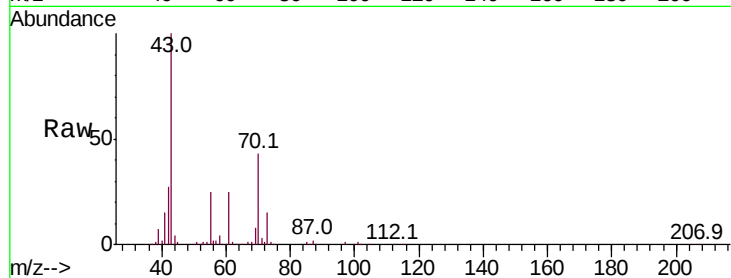
#47
n-amvl Acetate
Concen: 20.047 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBS01

Tot Ion: 43 Resp: 237525
Ion Ratio Lower Upper
43 100
55 26.0 21.1 31.7

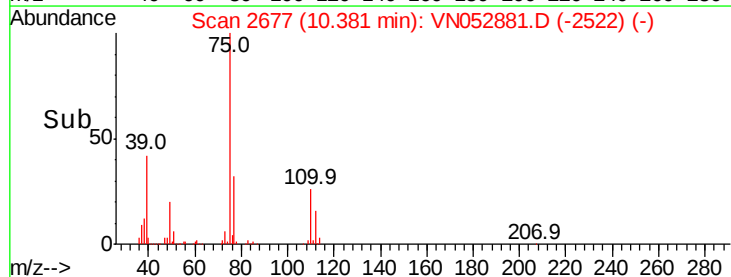
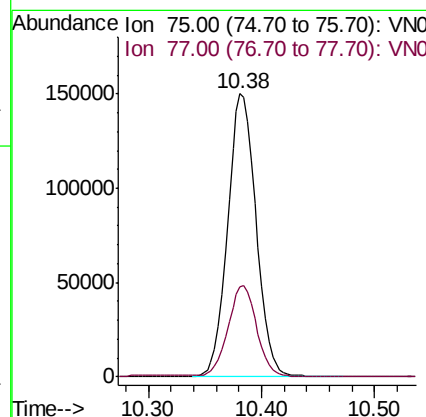
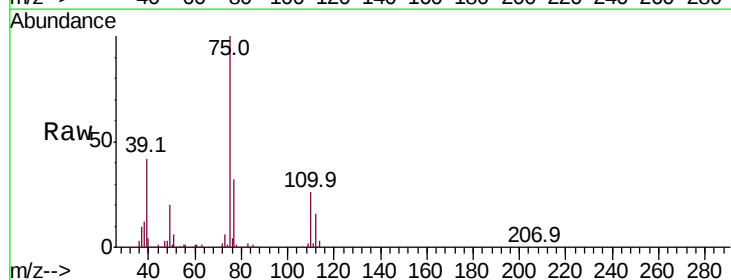
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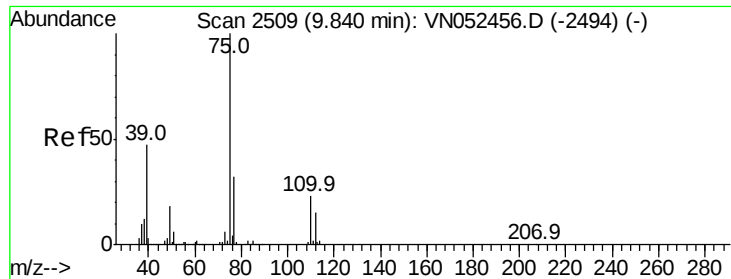
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#48
t-1,3-Dichloropropene
Concen: 19.634 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Tgt Ion: 75 Resp: 262312
Ion Ratio Lower Upper
75 100
77 31.7 25.6 38.4





#49

cis-1,3-Dichloropropene

Concen: 19.513 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

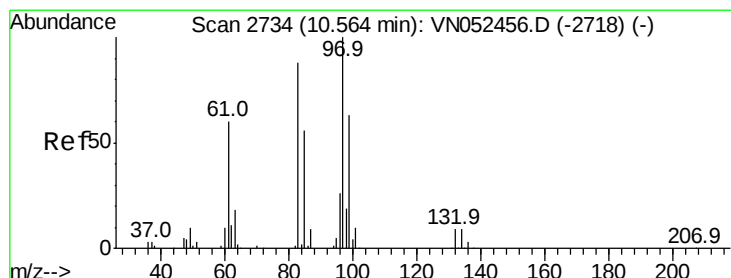
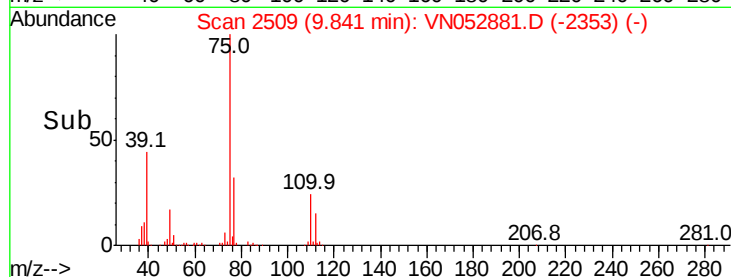
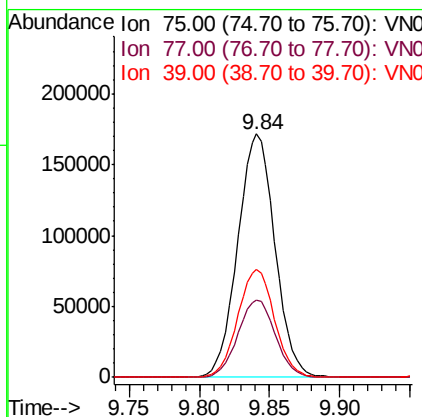
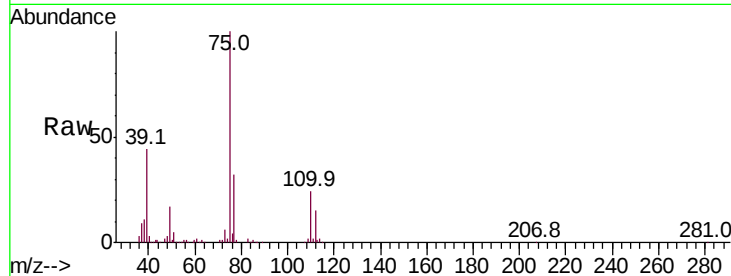
ClientSampleId :

VN1214WBS01

Tot Ion:	75	Resp:	317626
Ion Ratio	Lower	Upper	
75	100		
77	31.9	25.4	38.0
39	44.3	37.3	55.9

Manual Integrations
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#50

1,1,2-Trichloroethane

Concen: 20.878 ug/l

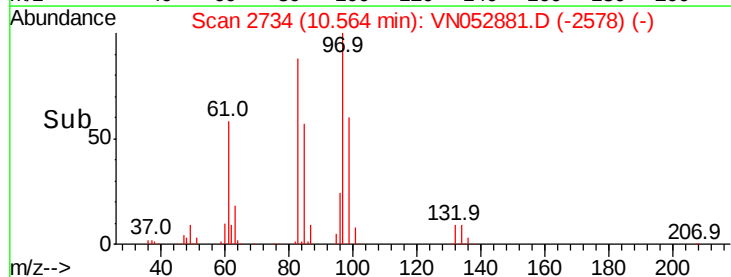
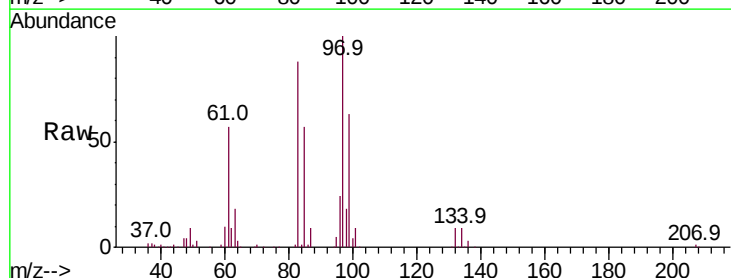
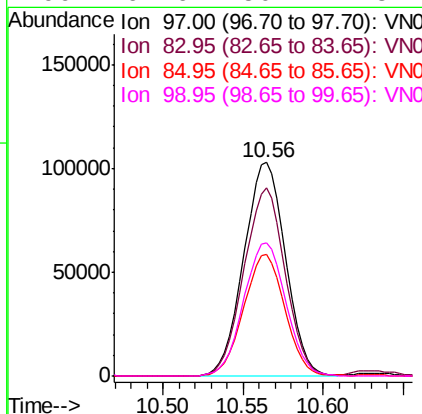
RT: 10.56 min Scan# 2734

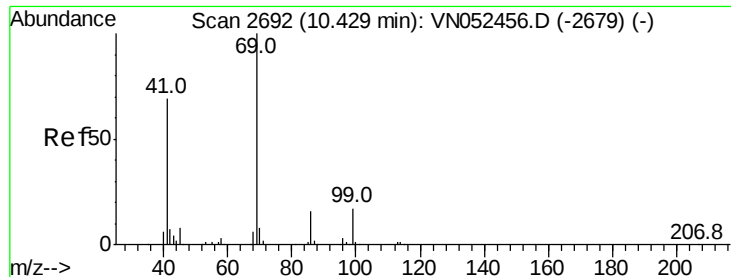
Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Tgt Ion:	97	Resp:	184568
Ion Ratio	Lower	Upper	
97	100		
83	88.0	70.4	105.6
85	56.8	45.0	67.6
99	62.6	50.2	75.2





#51

Ethyl methacrylate

Concen: 20.073 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

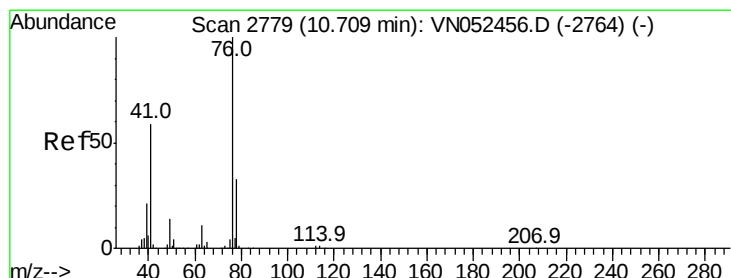
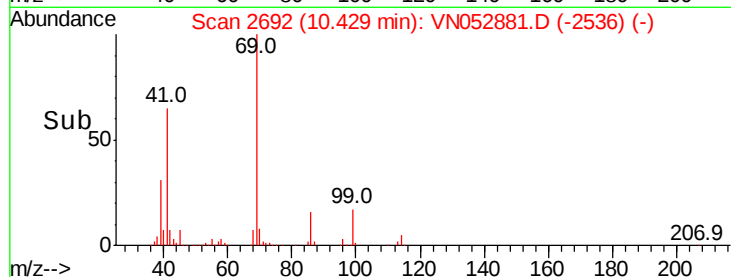
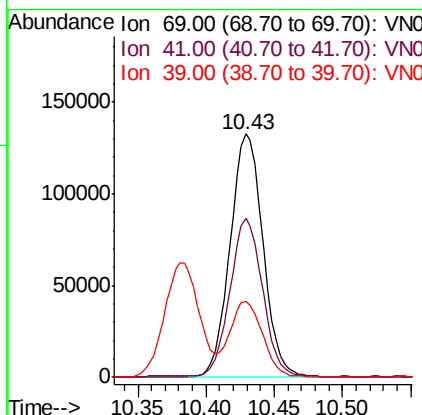
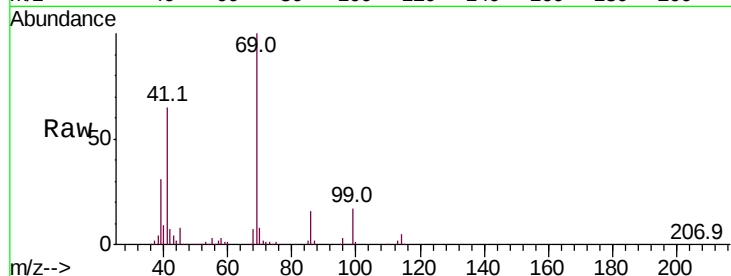
ClientSampleId :

VN1214WBS01

Tot Ion:	69	Resp:	222869
Ion Ratio	Lower	Upper	
69	100		
41	64.7	34.4	103.3
39	30.8	16.4	49.2

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#52

1,3-Dichloropropane

Concen: 20.044 ug/l

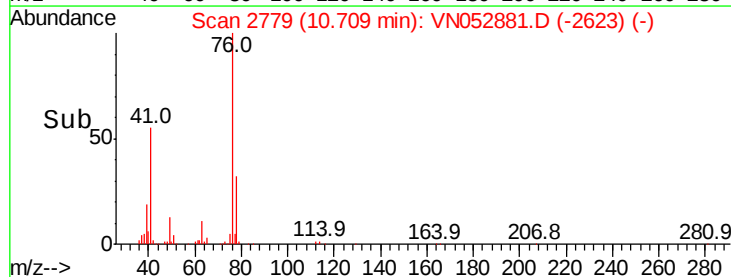
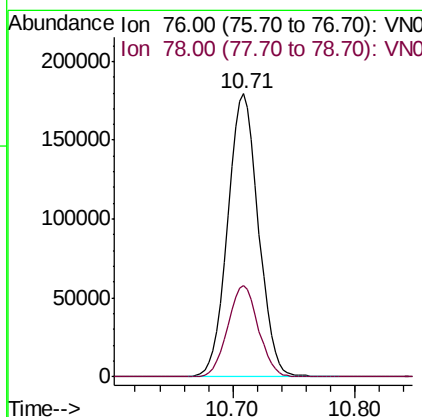
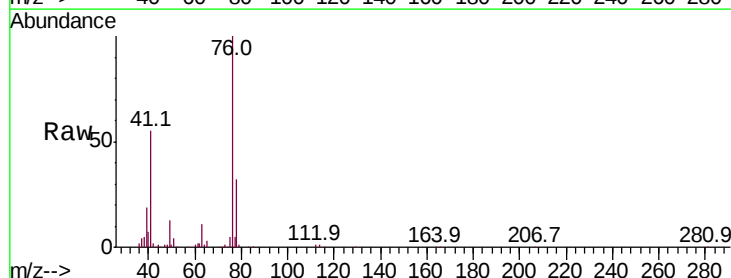
RT: 10.71 min Scan# 2779

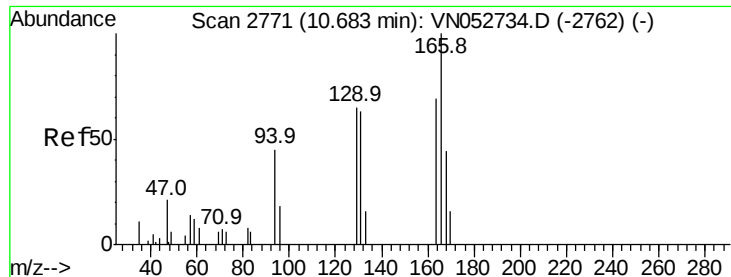
Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Tgt Ion:	76	Resp:	315409
Ion Ratio	Lower	Upper	
76	100		
78	32.3	0.0	64.8





#53

Dibromochloromethane

Concen: 20.572 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBS01

Tot Ion:129 Resp: 200224

Ion Ratio Lower Upper

129 100

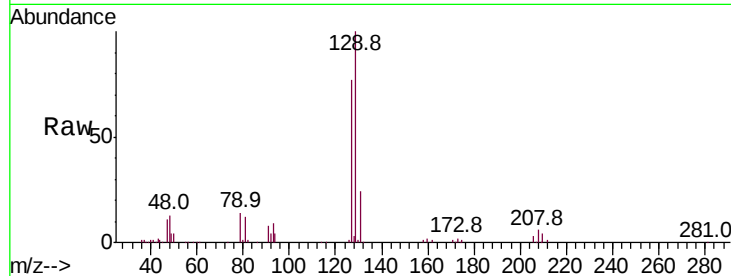
127 76.8 37.6 112.8

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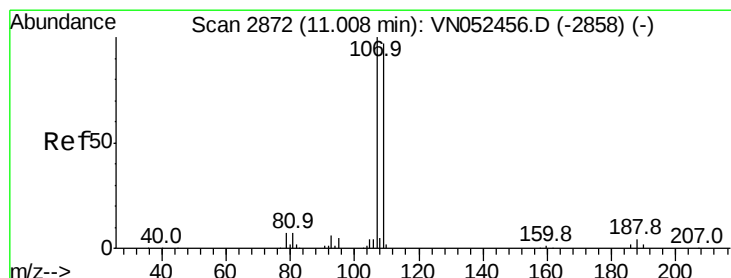
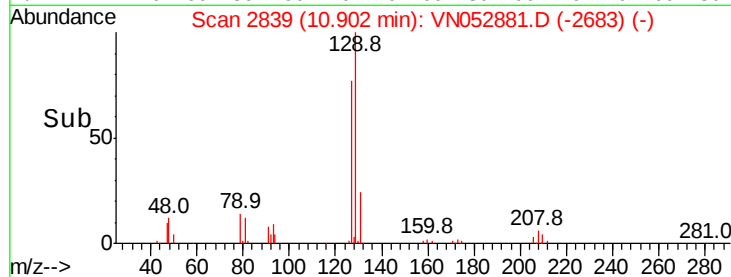
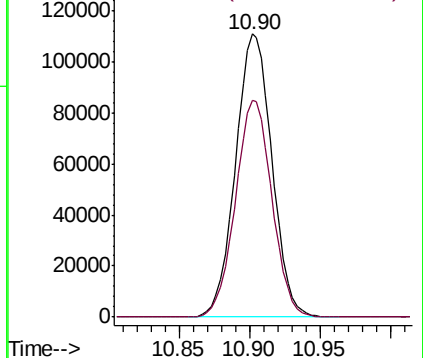
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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 20.475 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052881.D

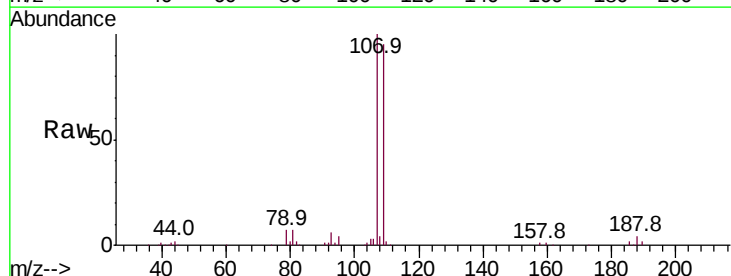
Acq: 14 Dec 2018 11:42

Tgt Ion:107 Resp: 176872

Ion Ratio Lower Upper

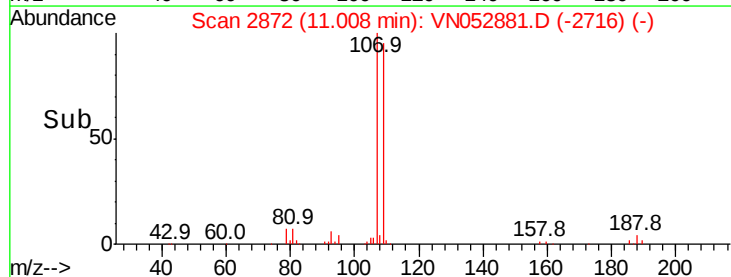
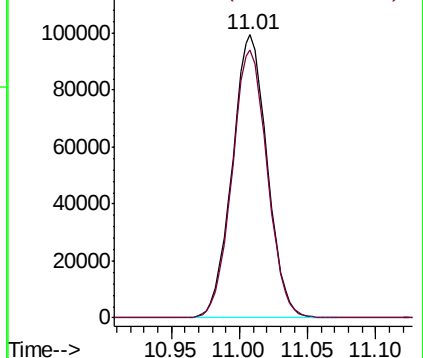
107 100

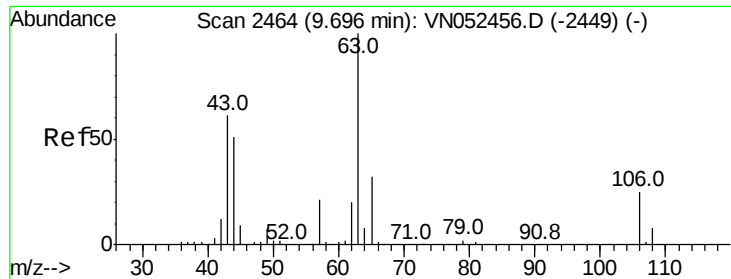
109 95.2 77.1 115.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





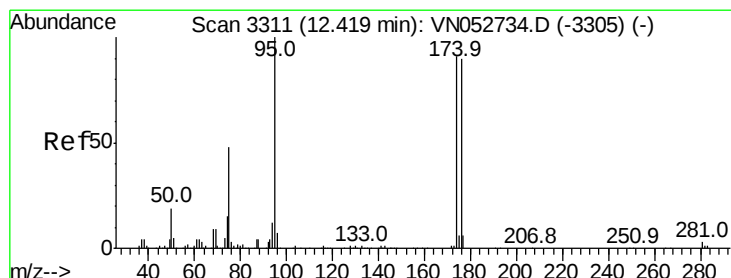
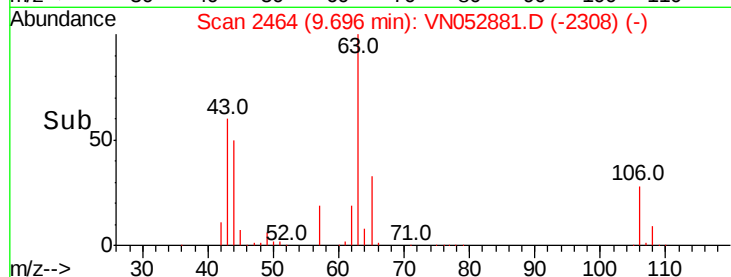
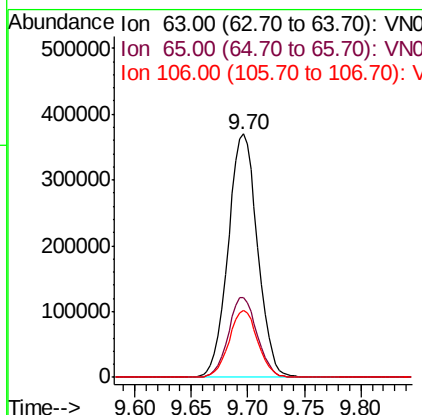
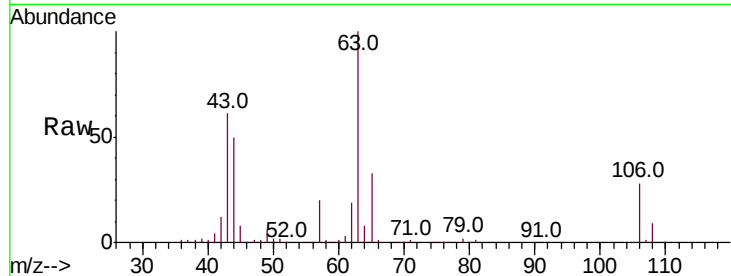
#55
2-Chloroethyl vinyl ether
Concen: 102.706 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.2	25.4	38.2
106	26.9	20.4	30.6

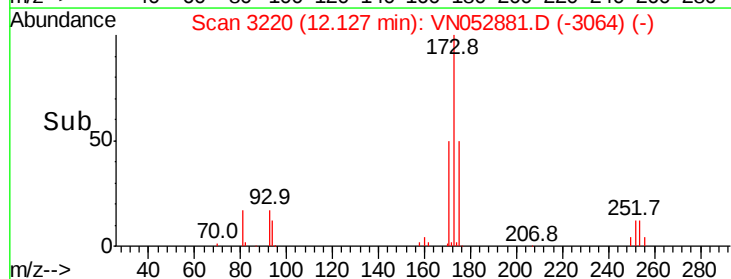
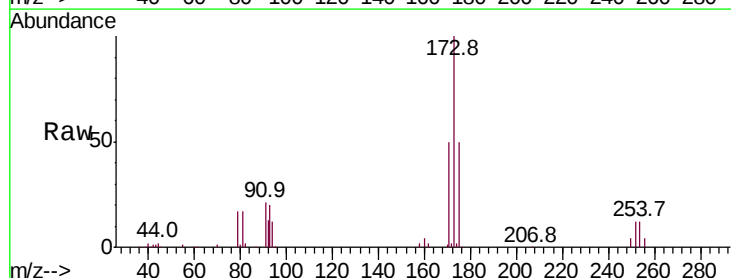
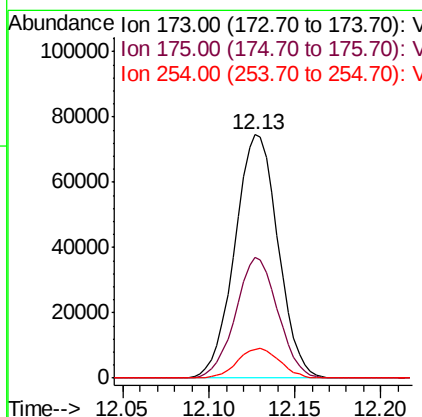
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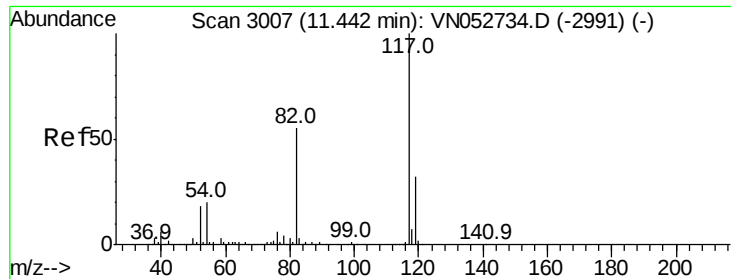
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#56
Bromoform
Concen: 20.540 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.7	58.1
254	11.9	8.4	12.6





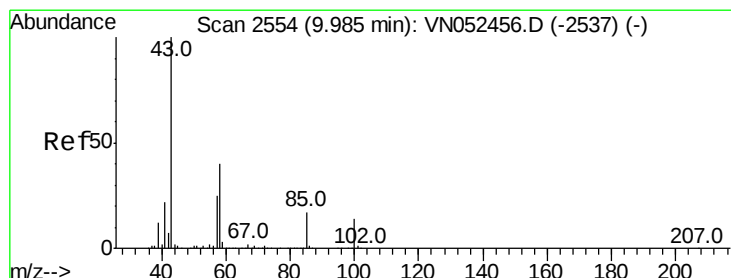
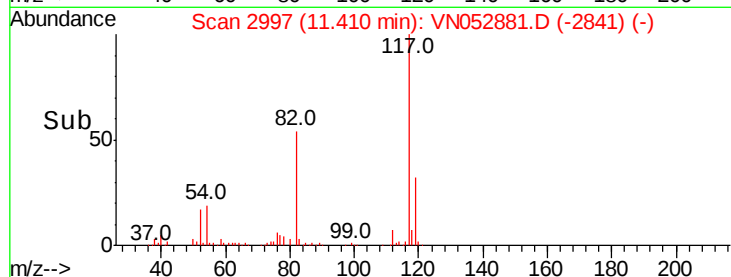
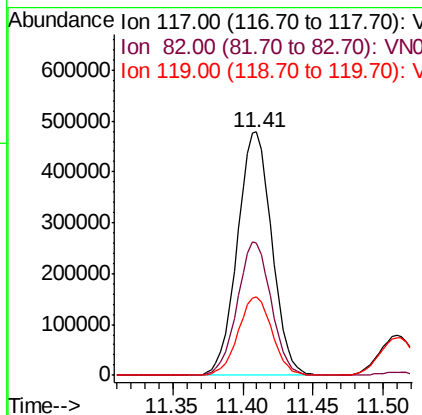
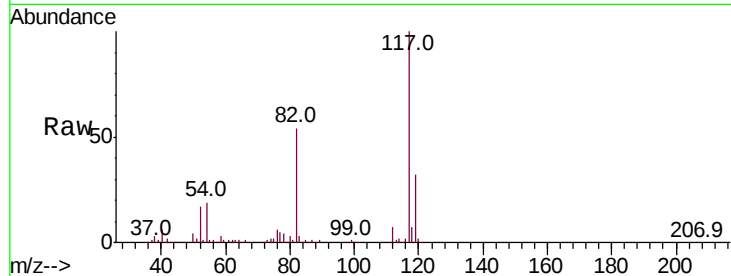
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	820144		
82	53.8		44.2	66.2
119	31.9		25.4	38.2

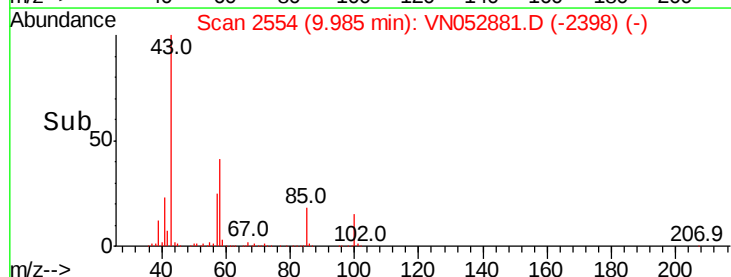
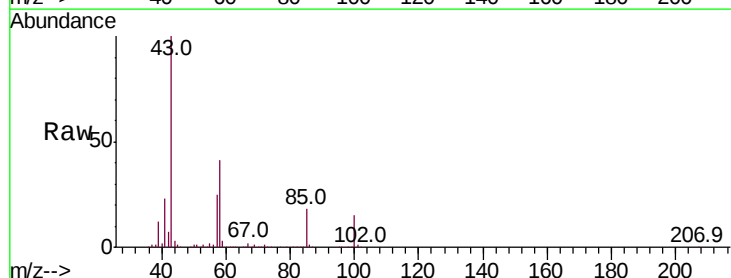
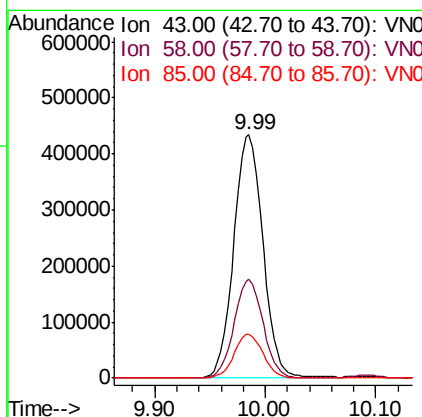
Manual Integrations
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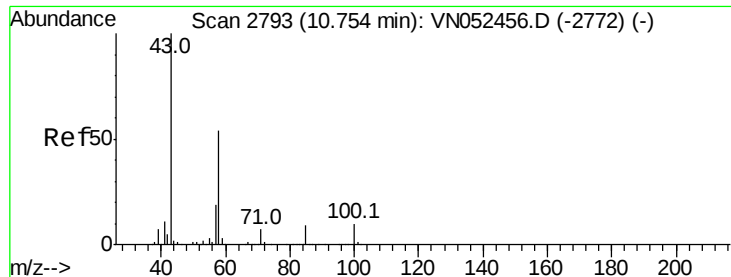
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#58
4-Methyl-2-Pentanone
Concen: 100.141 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	796231		
58	40.3		31.6	47.4
85	17.9		13.3	19.9





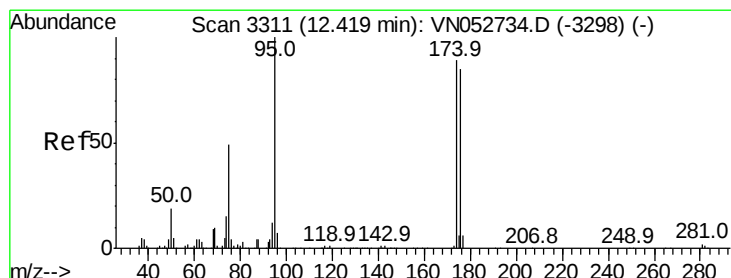
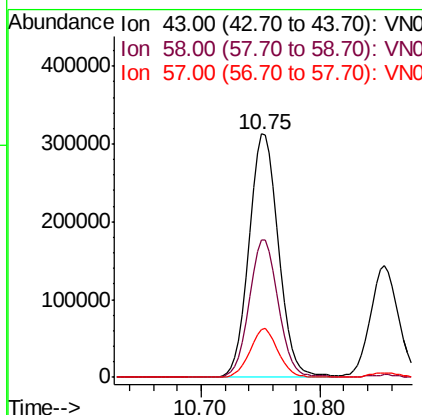
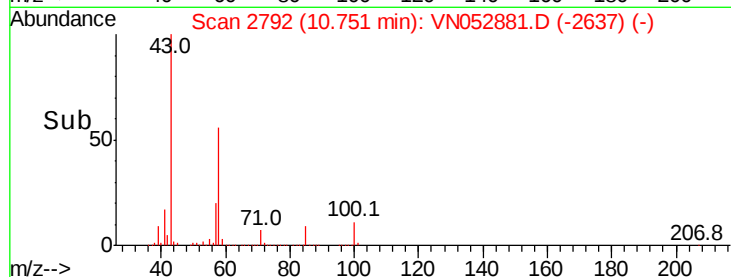
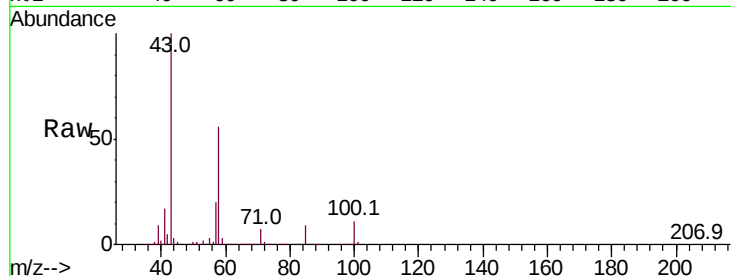
#59
2-Hexanone
Concen: 98.777 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.7	43.2	64.8
57	19.1	14.9	22.3

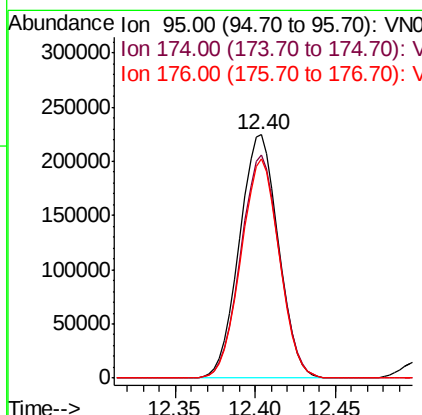
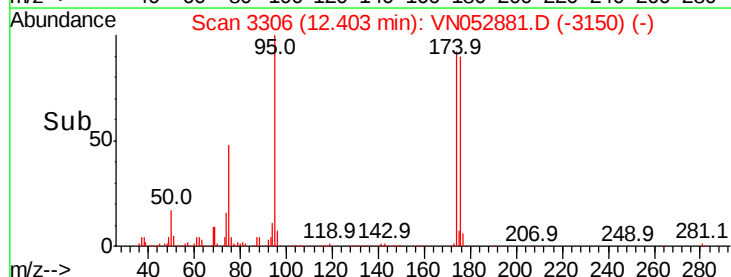
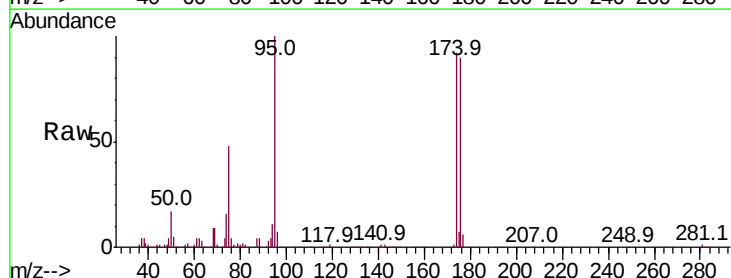
Manual Integrations
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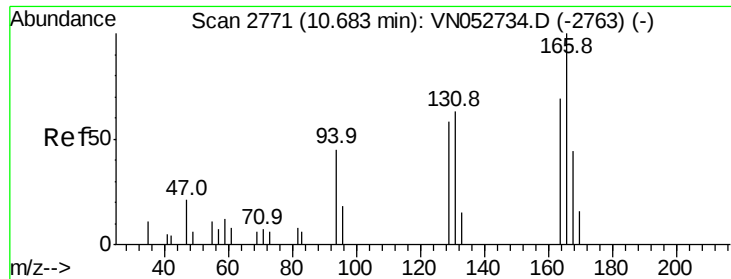
MMDadoda
12/17/2018 3:05:31 PM



#60
4-Bromofluorobenzene
Concen: 98.777 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.6	67.9	101.9
176	88.2	66.4	99.6





#61

Tetrachloroethene

Concen: 22.973 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBS01

Tot Ion:164 Resp: 232048

Ion Ratio Lower Upper

164 100

166 129.5 104.6 157.0

129 90.0 75.3 112.9

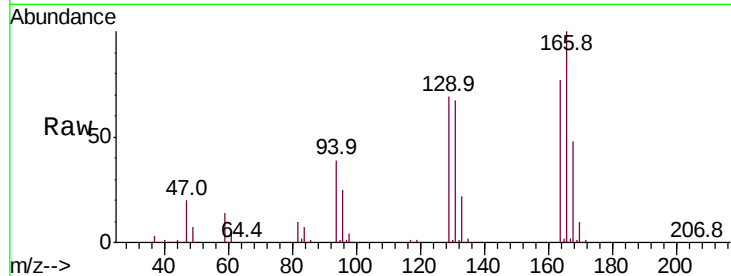
131 87.0 74.3 111.5

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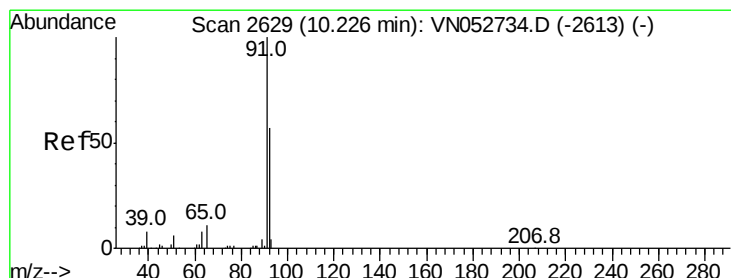
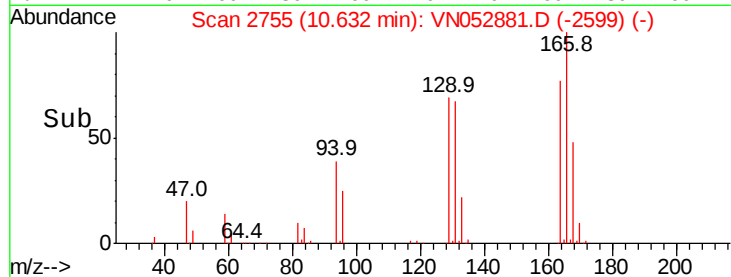
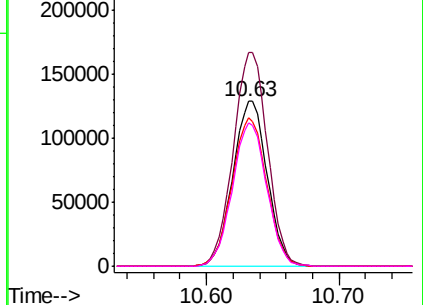


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 19.988 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052881.D

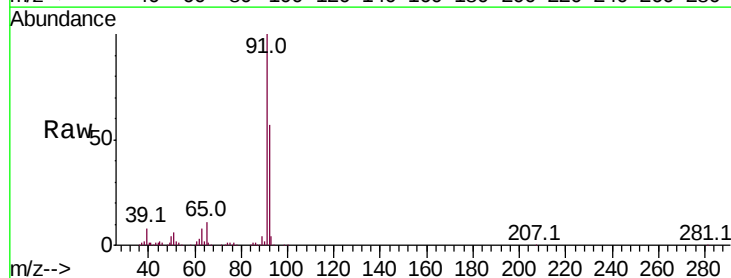
Acq: 14 Dec 2018 11:42

Tgt Ion: 91 Resp: 903688

Ion Ratio Lower Upper

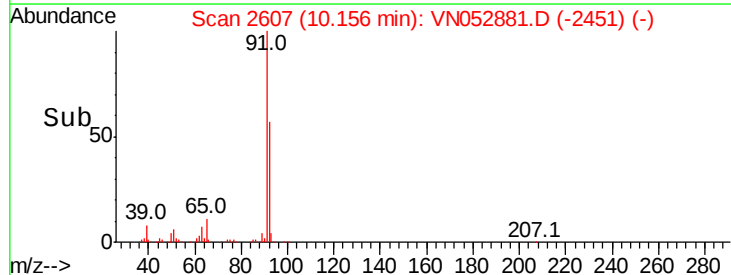
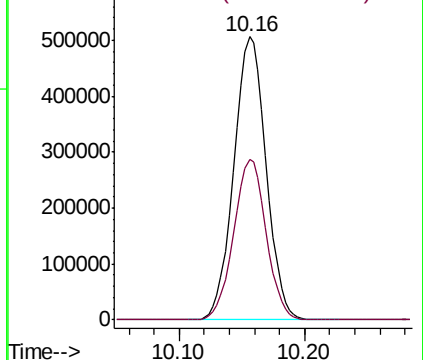
91 100

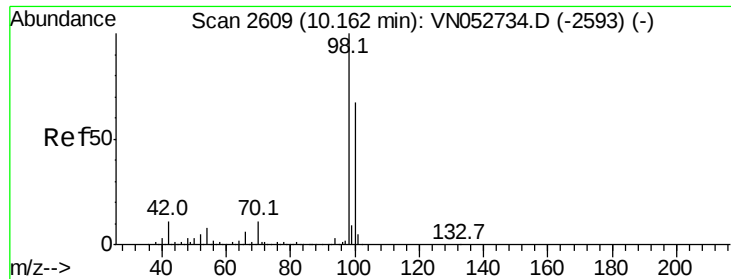
92 57.0 45.4 68.2



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 92.00 (91.70 to 92.70): VNO





#63

Toluene-d8

Concen: 19.988 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBS01

Tot Ion: 98 Resp: 1106478

Ion Ratio Lower Upper

98 100

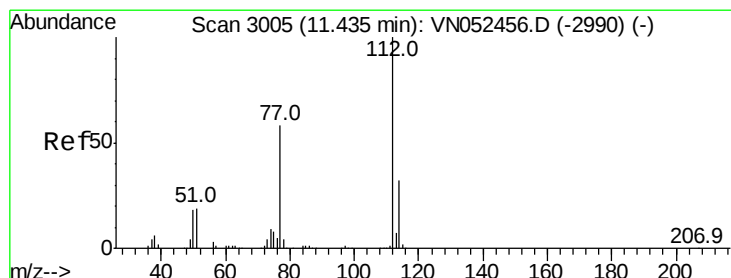
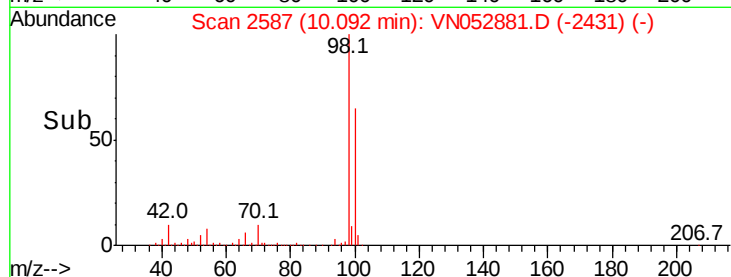
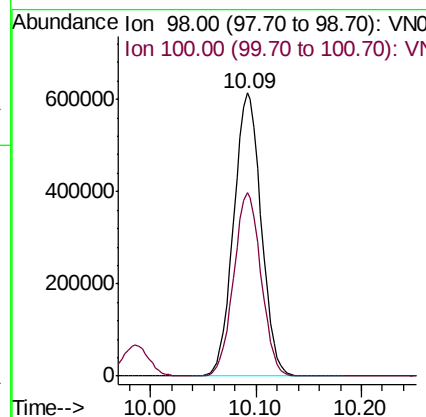
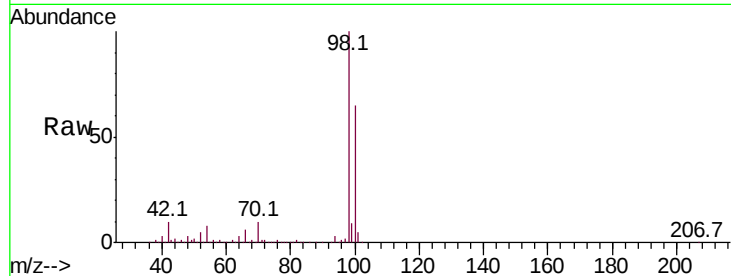
100 64.5 51.1 76.7

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#64

Chlorobenzene

Concen: 20.313 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN052881.D

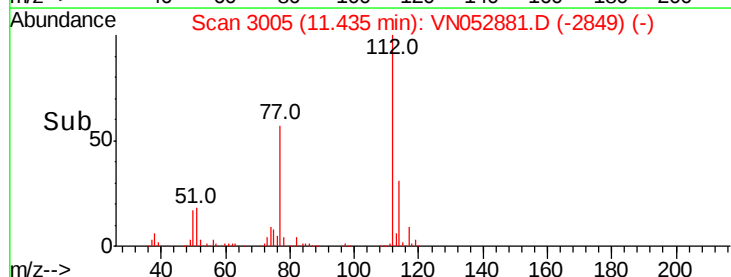
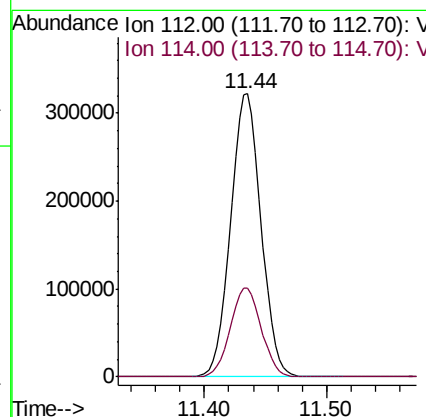
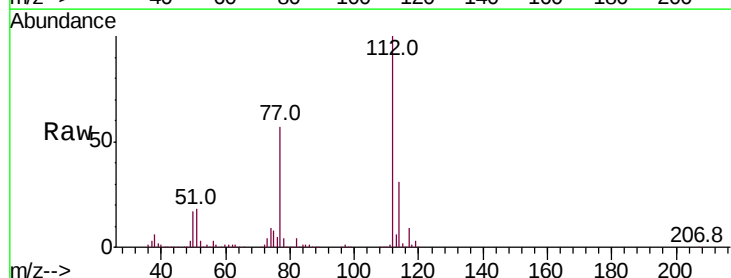
Acq: 14 Dec 2018 11:42

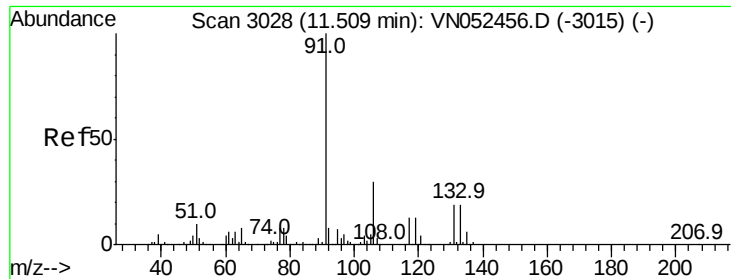
Tgt Ion: 112 Resp: 560568

Ion Ratio Lower Upper

112 100

114 31.4 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 21.045 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

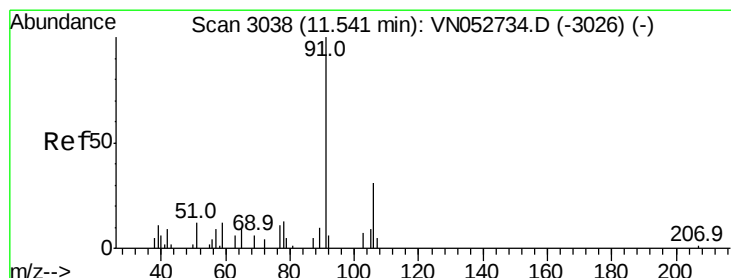
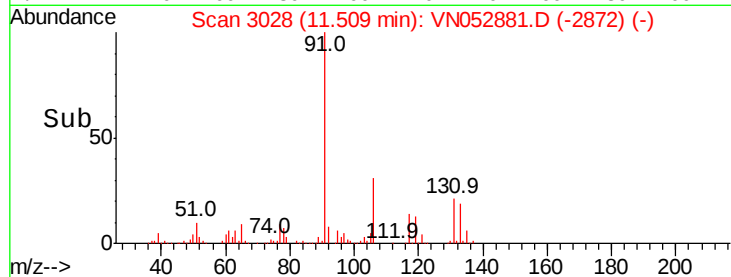
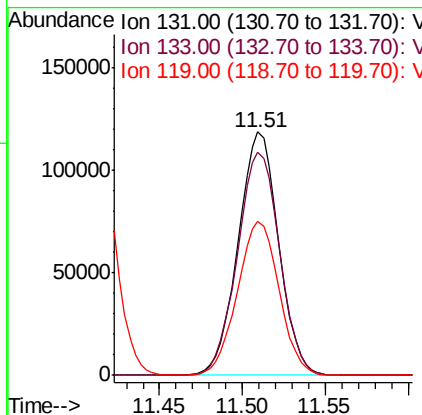
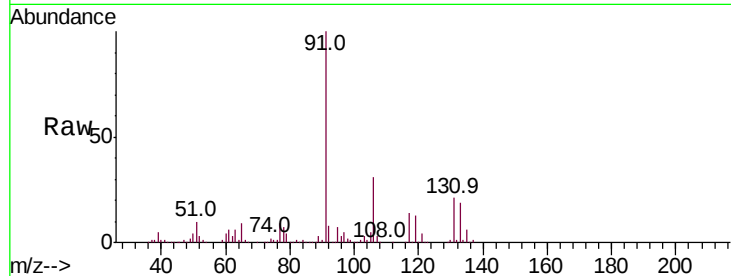
ClientSampleId :

VN1214WBS01

Tot Ion:	131	Resp:	201591
Ion Ratio	Lower	Upper	
131	100		
133	95.4	0.0	193.4
119	65.1	0.0	133.0

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#66

Ethyl Benzene

Concen: 19.853 ug/l

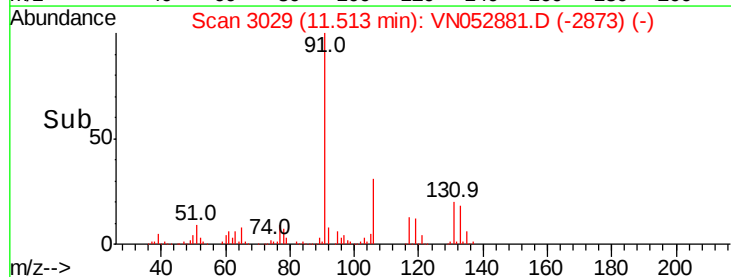
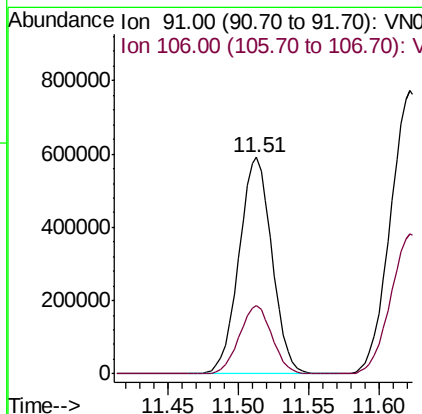
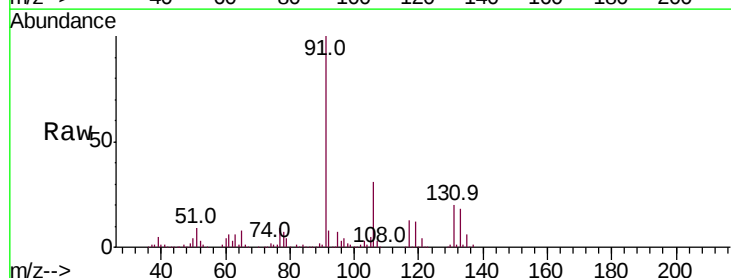
RT: 11.51 min Scan# 3029

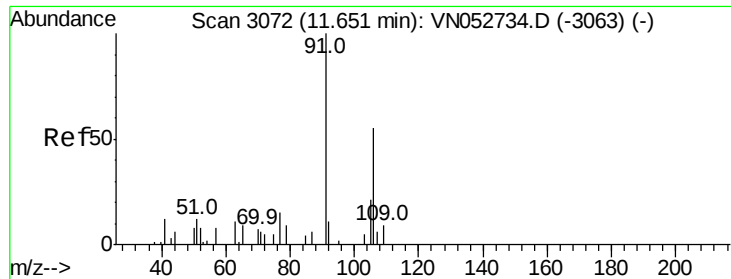
Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Tgt Ion:	91	Resp:	967404
Ion Ratio	Lower	Upper	
91	100		
106	31.5	24.3	36.5





#67

m/p-Xylenes

Concen: 40.538 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBS01

Tot Ion:106 Resp: 735921

Ion Ratio Lower Upper

106 100

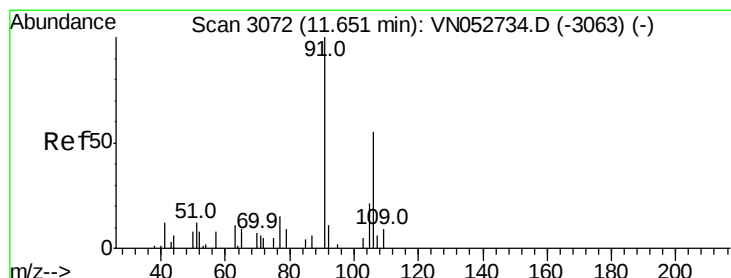
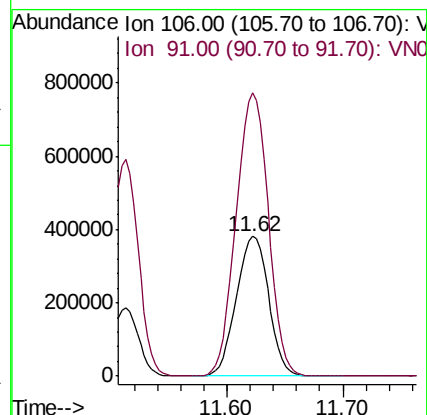
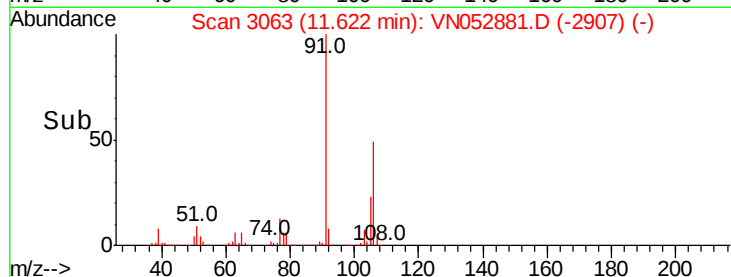
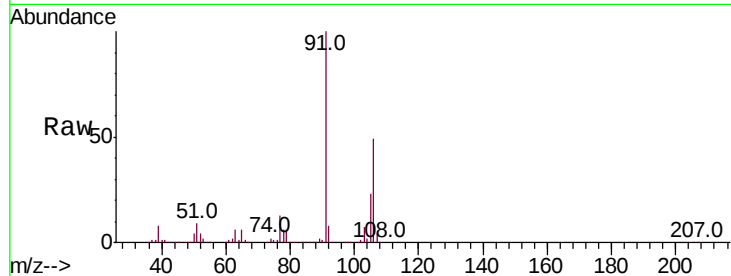
91 202.3 163.9 245.9

Manual Integrations

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#68

o-Xylene

Concen: 20.505 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. 0.00 min

Lab File: VN052881.D

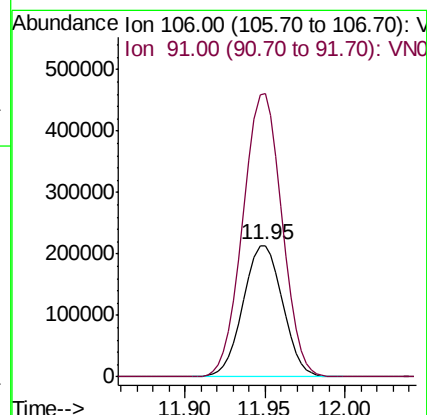
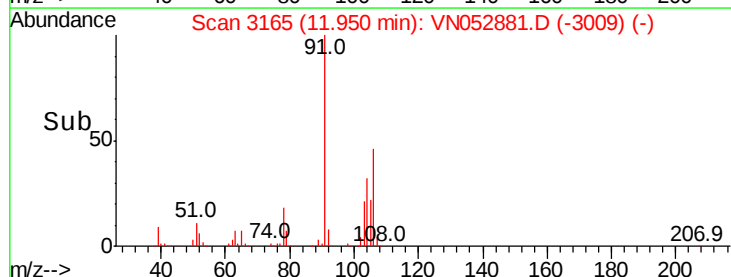
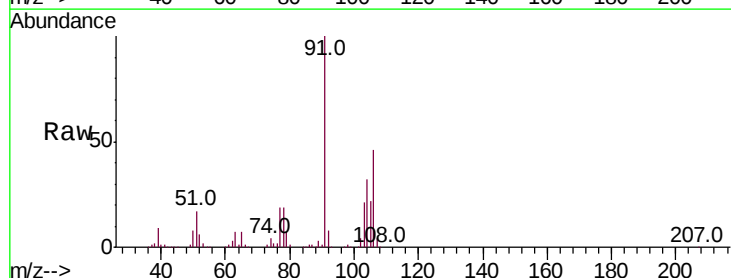
Acq: 14 Dec 2018 11:42

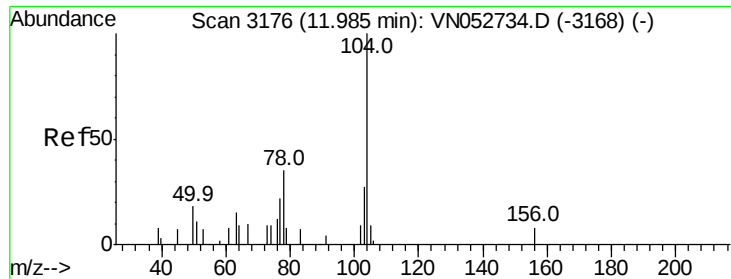
Tgt Ion:106 Resp: 361295

Ion Ratio Lower Upper

106 100

91 212.7 107.8 323.4





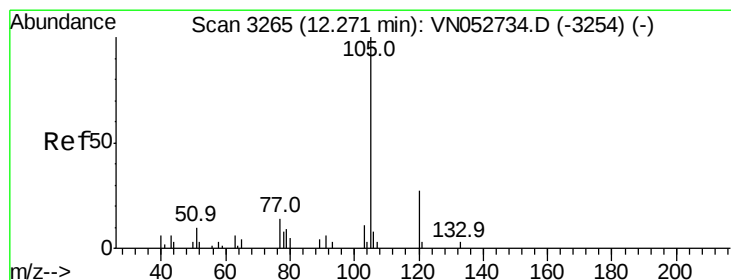
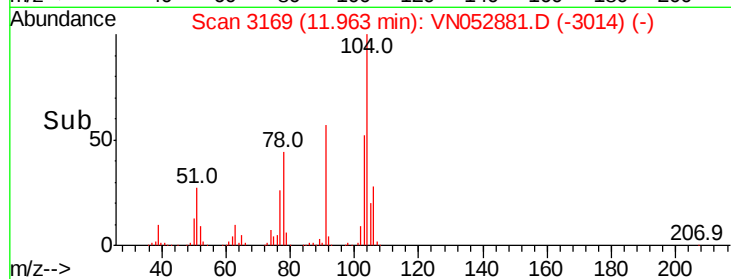
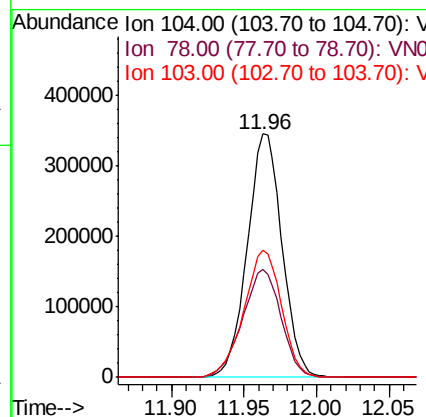
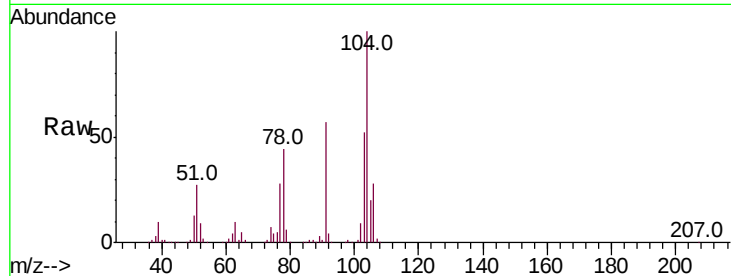
#69
Stvrene
Concen: 20.294 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.2	39.3	58.9
103	56.6	44.6	66.8

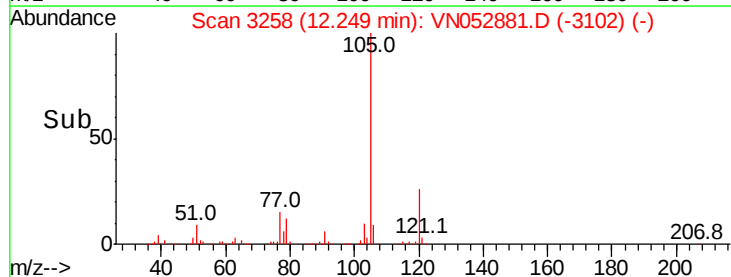
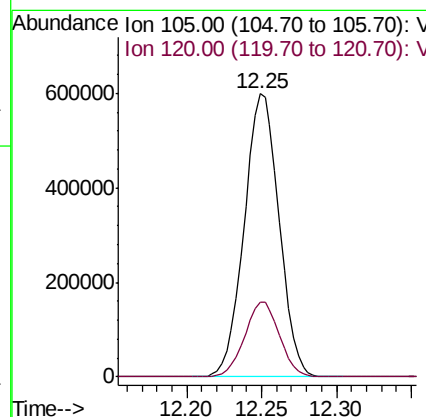
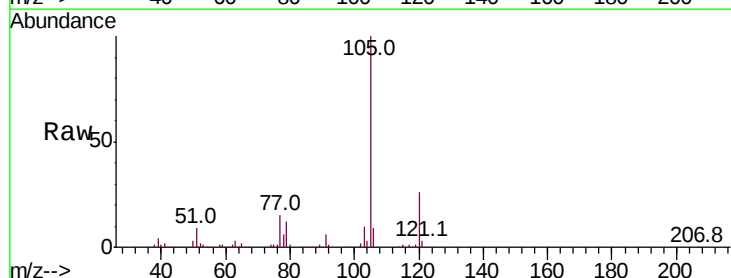
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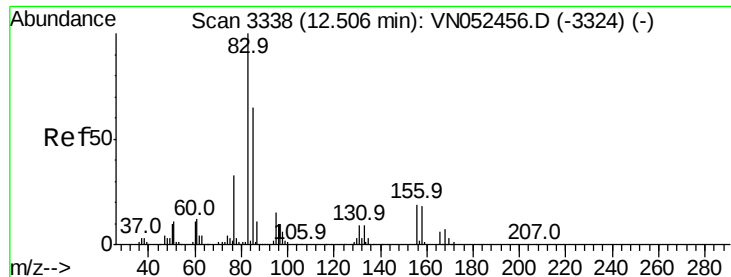
MMDadoda
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#70
Isopropylbenzene
Concen: 20.707 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.5	18.6	34.6





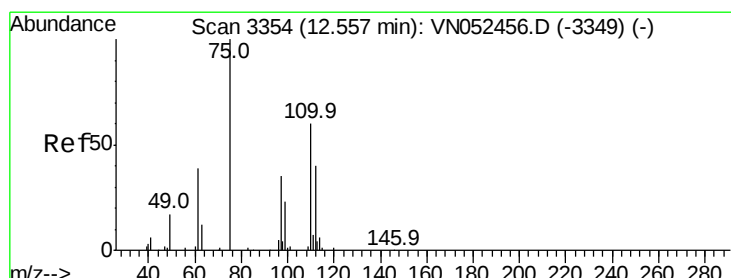
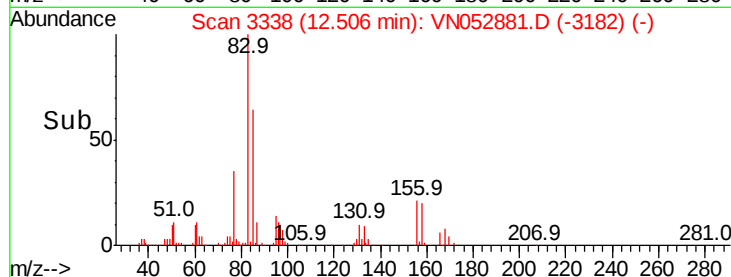
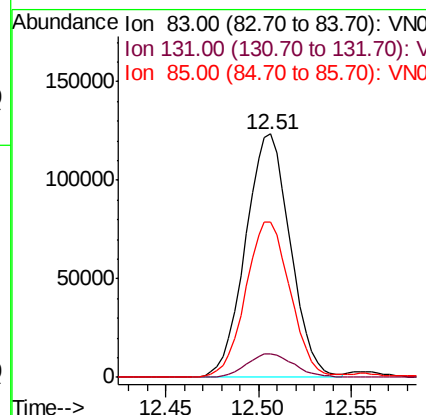
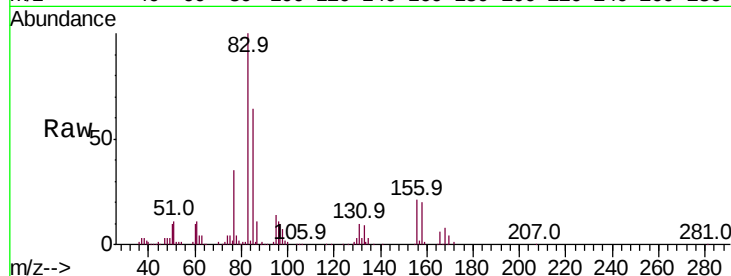
#71
 1,1,2,2-Tetrachloroethane
 Concen: 20.321 ug/l
 RT: 12.51 min Scan# 3338
 Delta R.T. 0.00 min
 Lab File: VN052881.D
 Acq: 14 Dec 2018 11:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	207237		
131	10.3	4.9	14.6	
85	63.5	32.2	96.6	

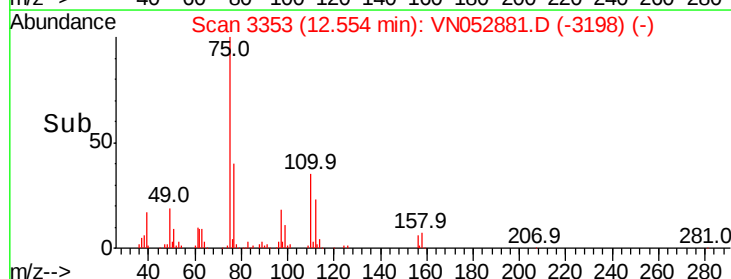
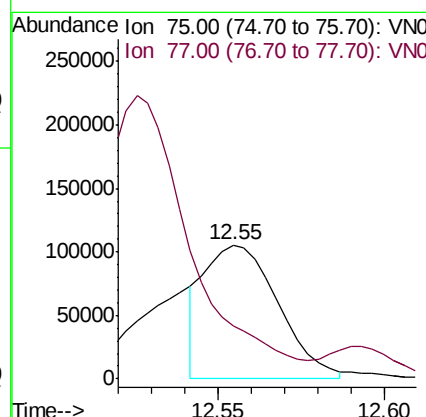
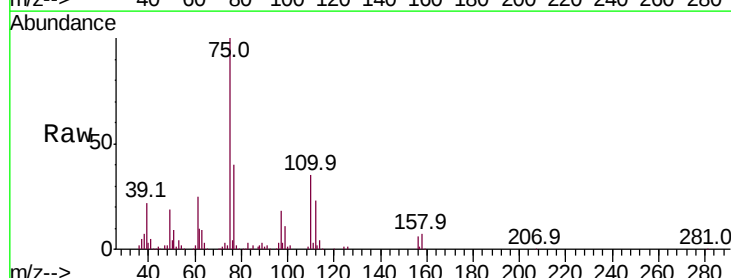
Manual Integrations
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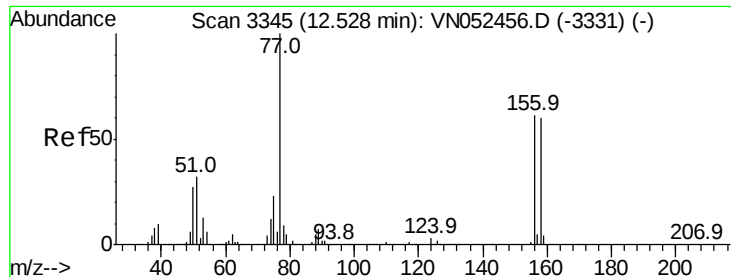
MMDadoda
 12/17/2018 3:05:31 PM



#72
 1,2,3-Trichloropropane
 Concen: 18.605 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN052881.D
 Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	162877		
77	265.8	0.0	514.8	





#73

Bromobenzene

Concen: 21.391 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

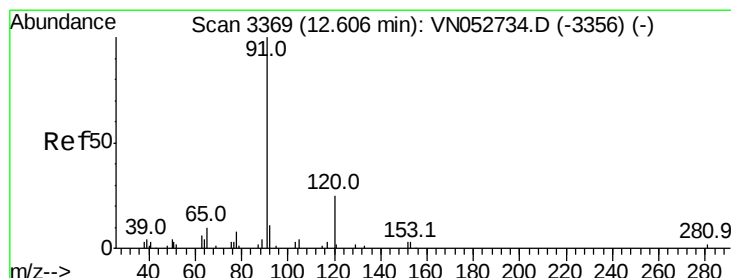
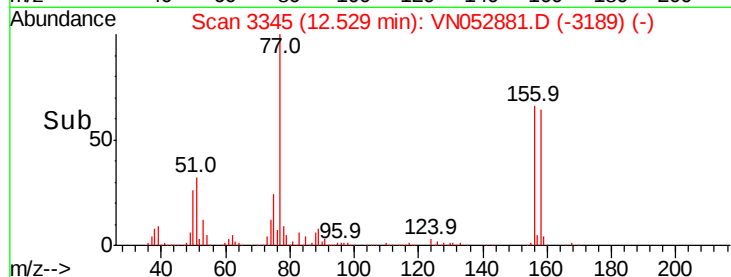
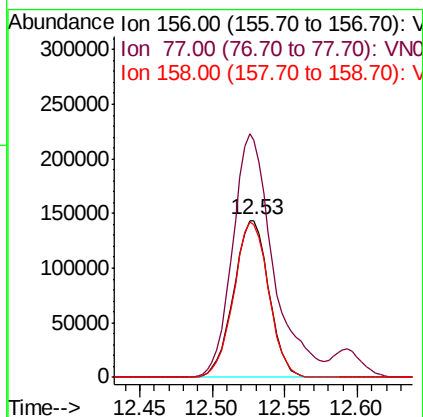
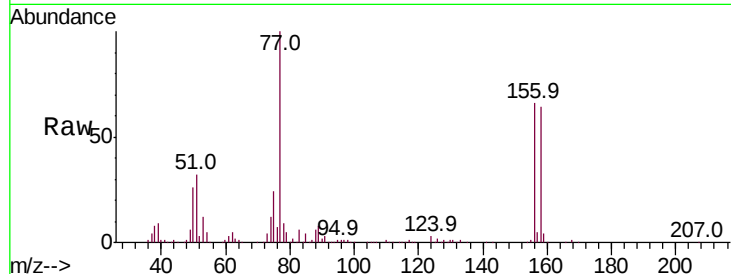
ClientSampleId :

VN1214WBS01

Tot Ion:	156	Resp:	242548
Ion Ratio	Lower	Upper	
156	100		
77	178.5	0.0	382.6
158	97.7	0.0	196.8

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#74

n-propylbenzene

Concen: 19.866 ug/l

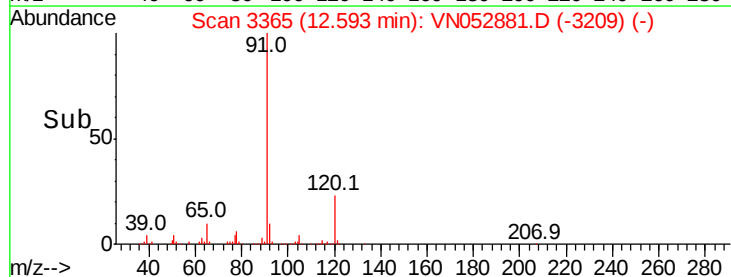
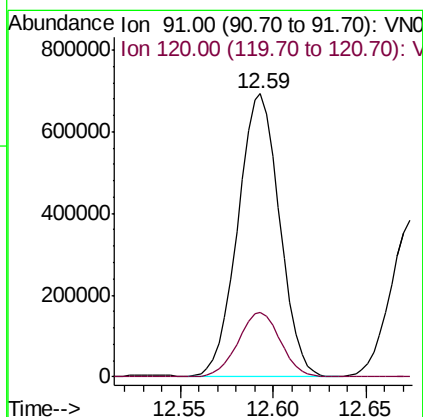
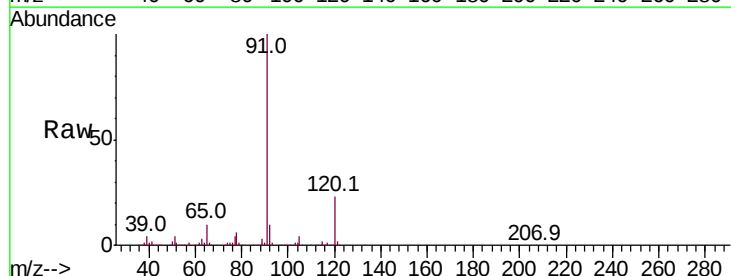
RT: 12.59 min Scan# 3365

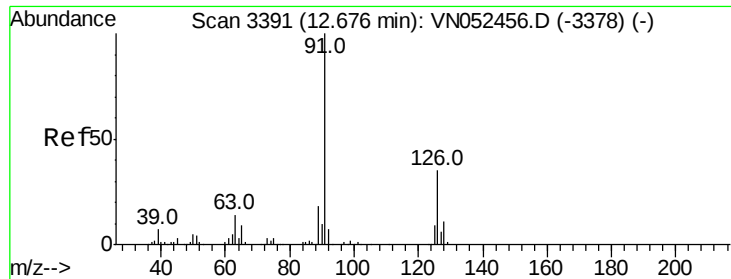
Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Tgt Ion:	91	Resp:	1085142
Ion Ratio	Lower	Upper	
91	100		
120	23.2	0.0	44.6





#75

2-Chlorotoluene

Concen: 20.482 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBS01

Tot Ion: 91 Resp: 649392

Ion Ratio Lower Upper

91 100

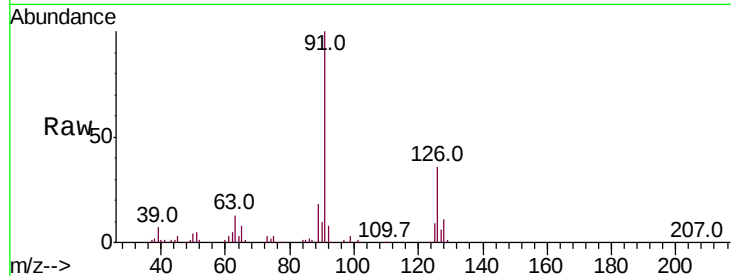
126 35.1 0.0 68.4

Manual Integrations

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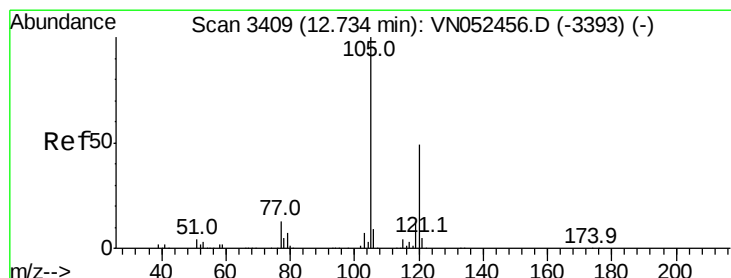
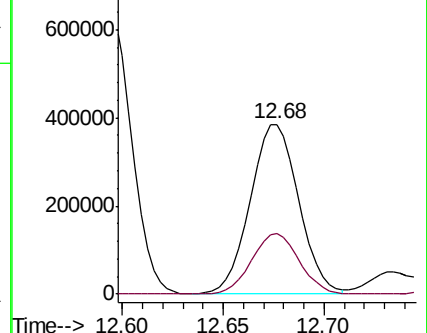
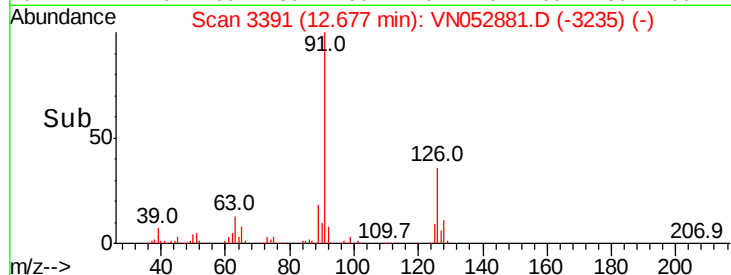
MMDadoda

12/17/2018 3:05:31 PM



Abundance Ion 91.00 (90.70 to 91.70): VN052881.D (-3235) (-)

Ion 126.00 (125.70 to 126.70): VN052881.D (-3235) (-)



#76

1,3,5-Trimethylbenzene

Concen: 20.443 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052881.D

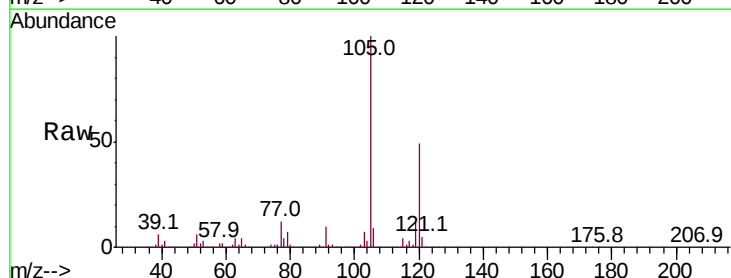
Acq: 14 Dec 2018 11:42

Tgt Ion:105 Resp: 774118

Ion Ratio Lower Upper

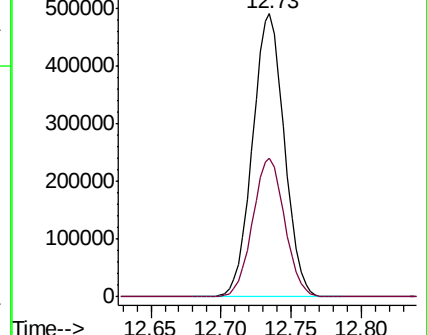
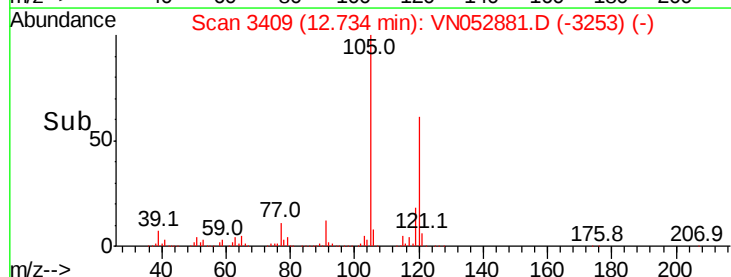
105 100

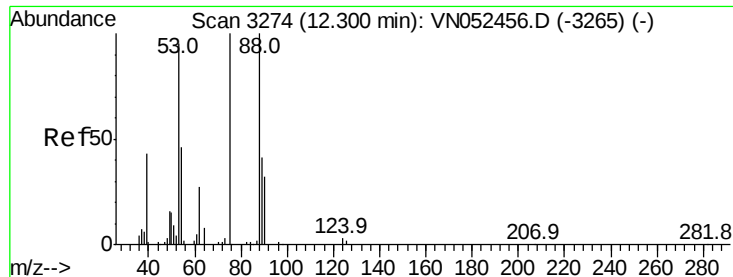
120 49.3 0.0 97.4



Abundance Ion 105.00 (104.70 to 105.70): VN052881.D (-3253) (-)

Ion 120.00 (119.70 to 120.70): VN052881.D (-3253) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 19.283 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

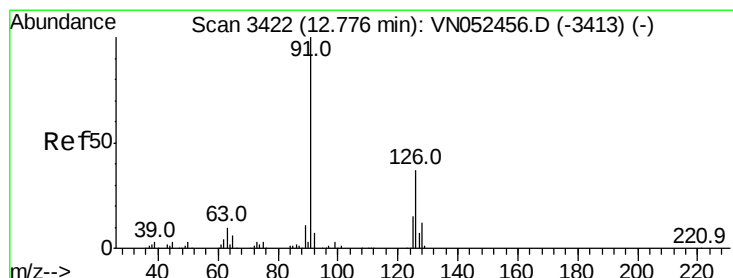
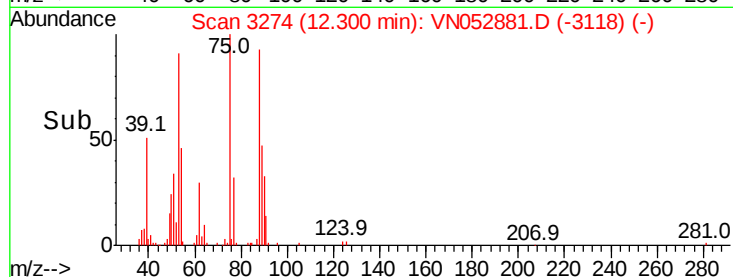
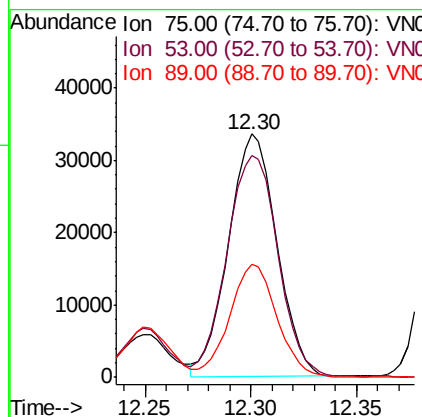
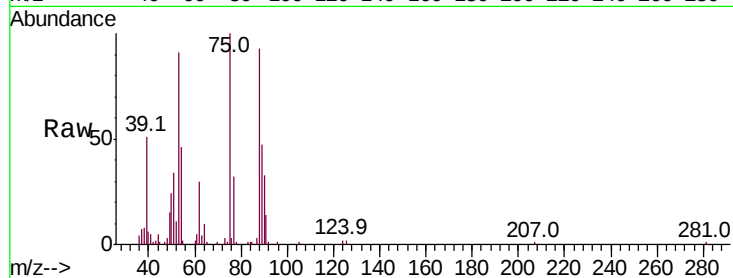
ClientSampleId :

VN1214WBS01

Tot Ion:	75	Resp:	53328
Ion Ratio	Lower	Upper	
75	100		
53	90.7	48.5	145.6
89	46.9	21.7	65.1

Manual Integrations
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#78

4-Chlorotoluene

Concen: 20.544 ug/l

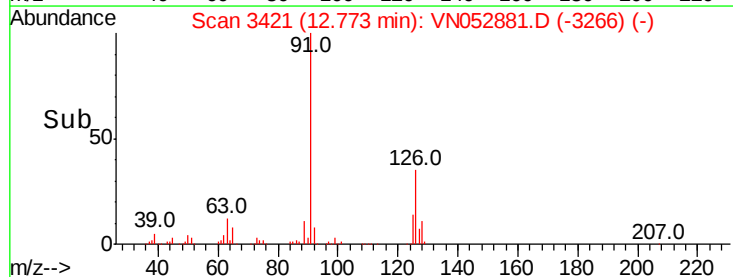
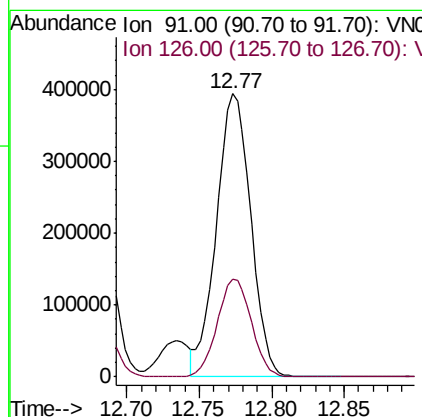
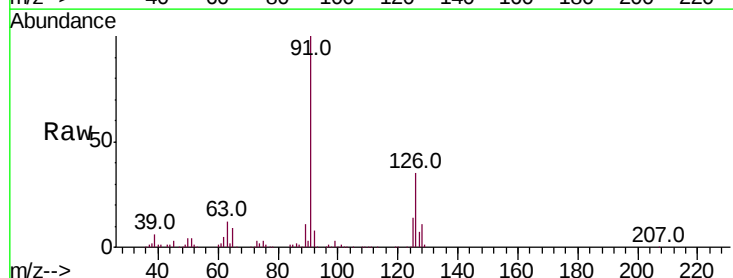
RT: 12.77 min Scan# 3421

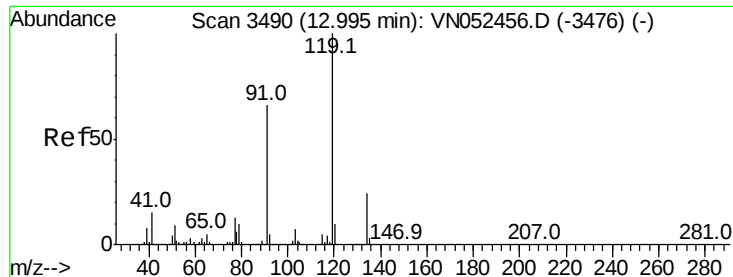
Delta R.T. -0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Tgt Ion:	91	Resp:	650490
Ion Ratio	Lower	Upper	
91	100		
126	34.5	0.0	68.2





#79

tert-butylbenzene

Concen: 20.943 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

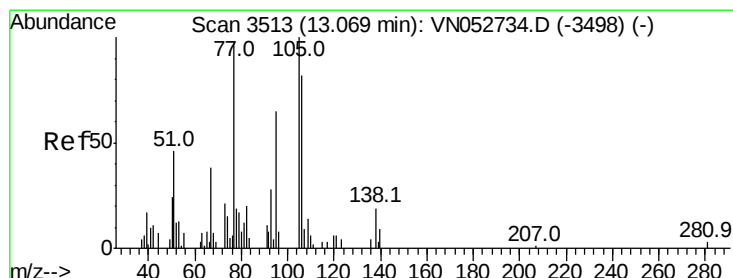
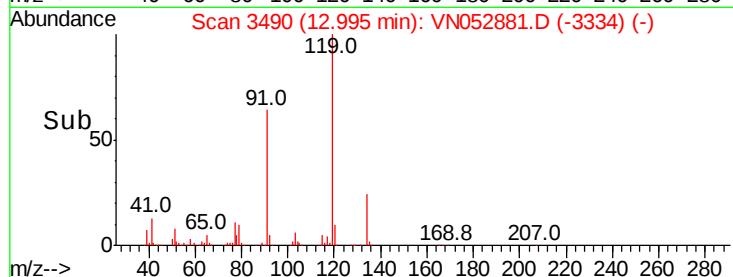
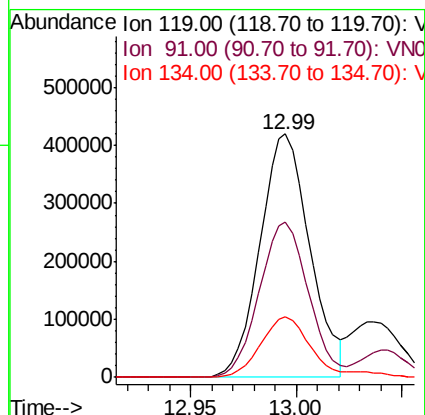
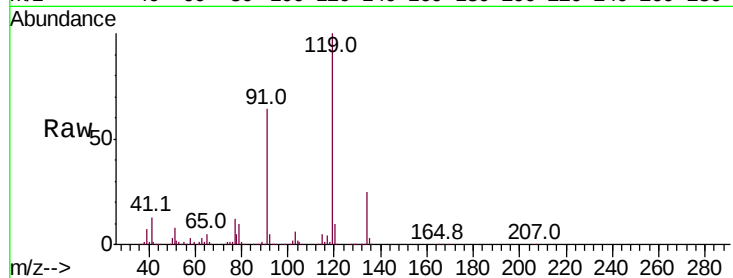
ClientSampleId :

VN1214WBS01

Tot Ion:	119	Resp:	690662
Ion Ratio	Lower	Upper	
119	100		
91	63.1	0.0	129.8
134	26.0	0.0	52.2

Manual Integrations
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#80

1,2,4-Trimethylbenzene

Concen: 20.574 ug/l

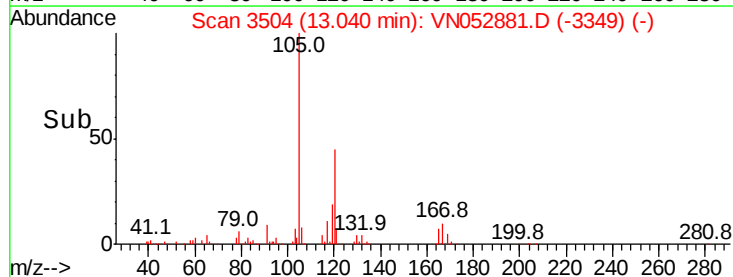
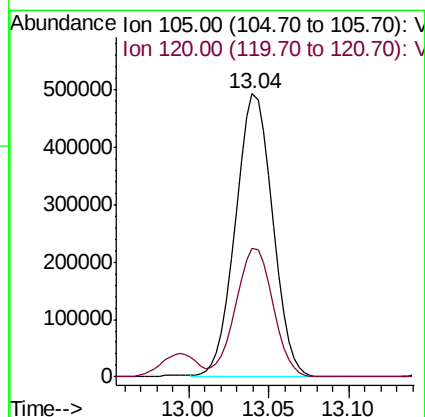
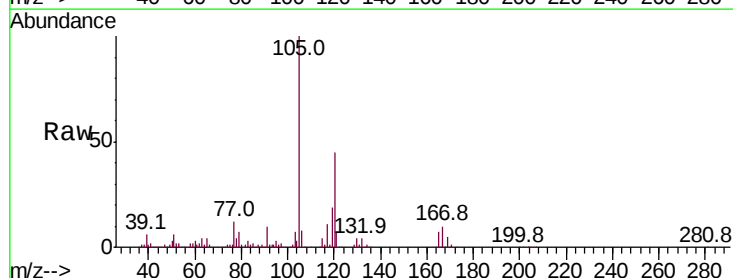
RT: 13.04 min Scan# 3504

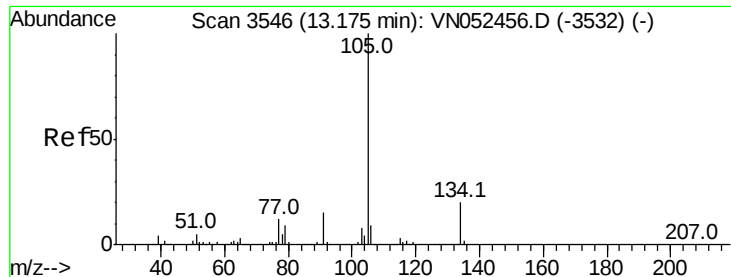
Delta R.T. -0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Tgt Ion:	105	Resp:	779556
Ion Ratio	Lower	Upper	
105	100		
120	45.8	0.0	91.0





#81

sec-Butylbenzene

Concen: 19.923 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBS01

Tot Ion:105 Resp: 915134

Ion Ratio Lower Upper

105 100

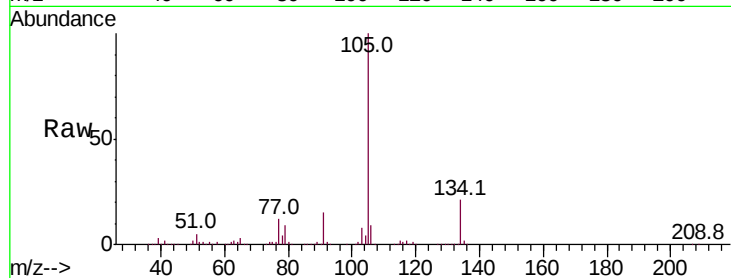
134 20.9 0.0 40.4

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

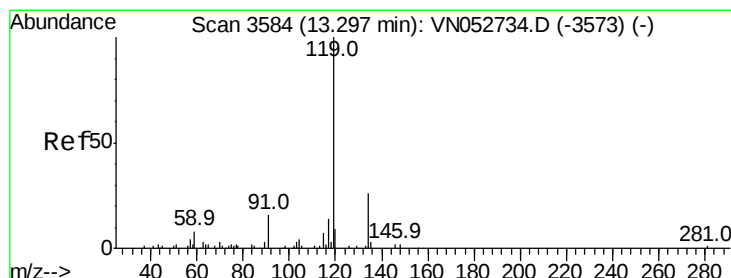
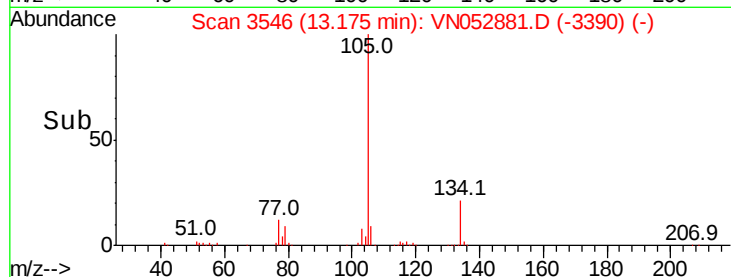
600000

400000

200000

0

Time-->



#82

p-Isopropyltoluene

Concen: 20.194 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN052881.D

Acq: 14 Dec 2018 11:42

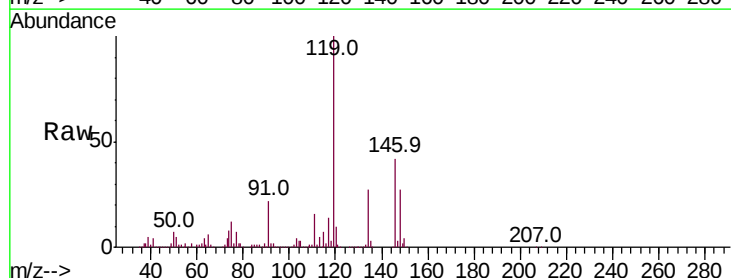
Tgt Ion:119 Resp: 789843

Ion Ratio Lower Upper

119 100

134 26.8 0.0 52.6

91 22.2 0.0 46.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

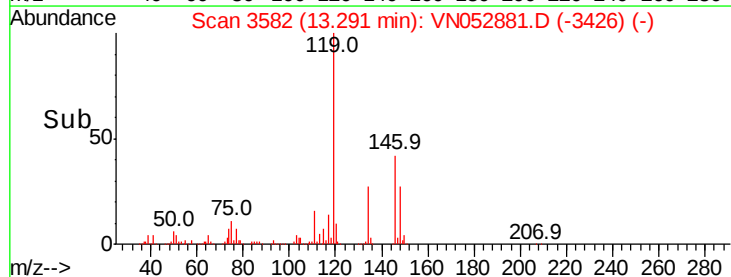
600000

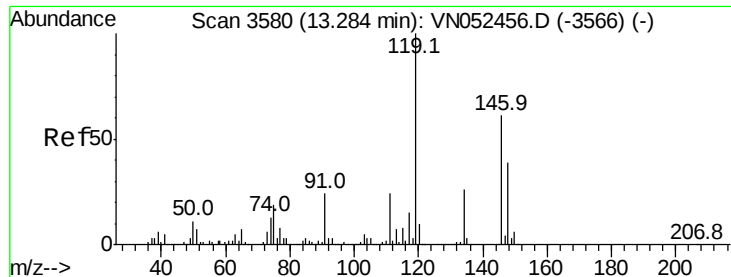
400000

200000

0

Time-->





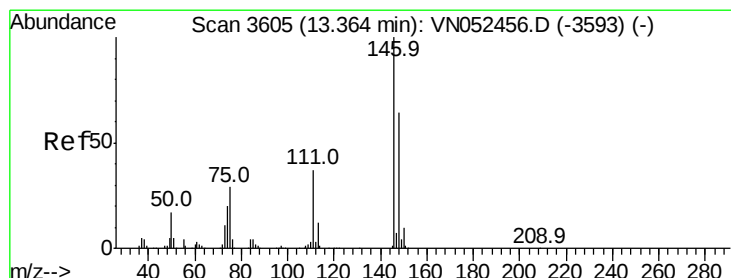
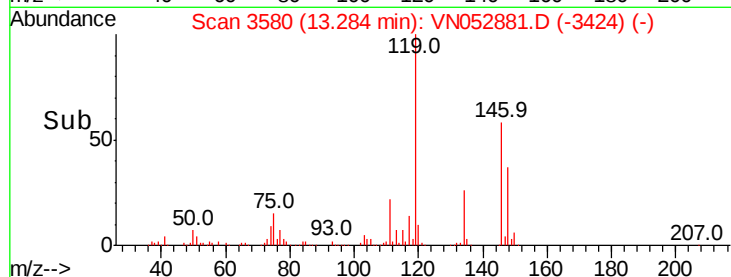
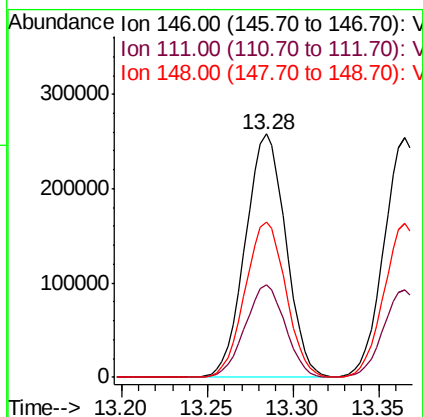
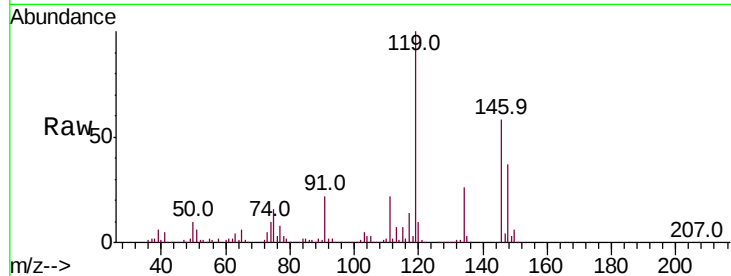
#83
 1,3-Dichlorobenzene
 Concen: 21.196 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052881.D
 Acq: 14 Dec 2018 11:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.7	59.0
148	64.1	32.3	96.8

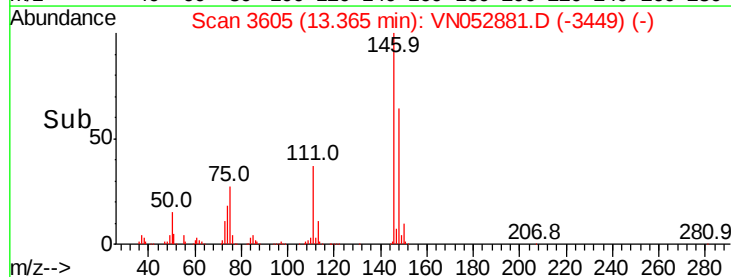
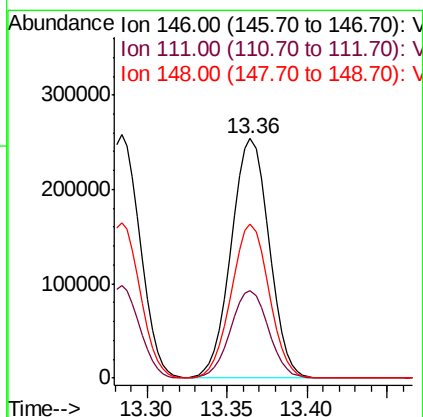
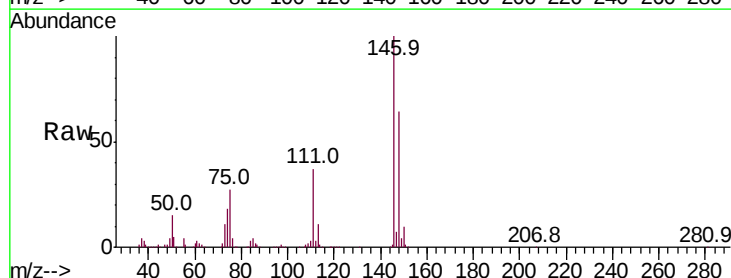
Manual Integrations
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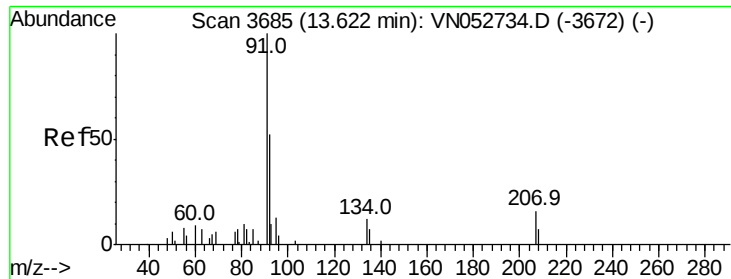
MMDadoda
 12/17/2018 3:05:31 PM



#84
 1,4-Dichlorobenzene
 Concen: 21.334 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052881.D
 Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.6	18.8	56.3
148	64.2	32.5	97.4





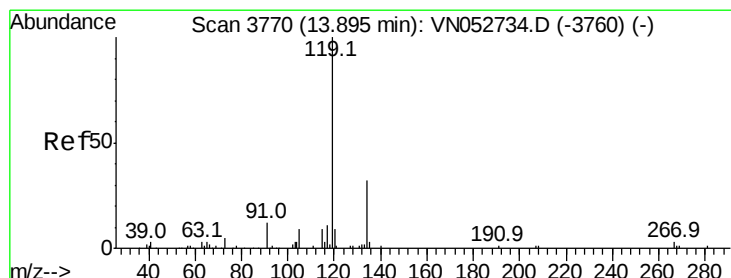
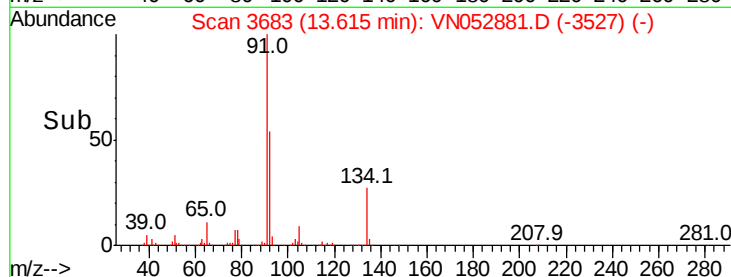
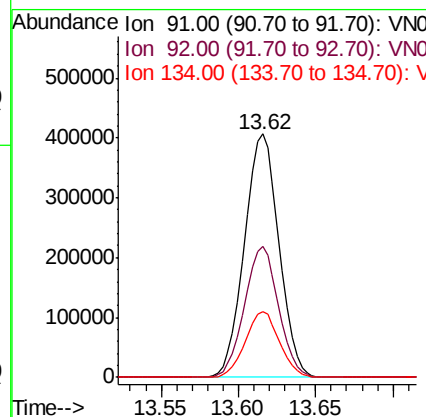
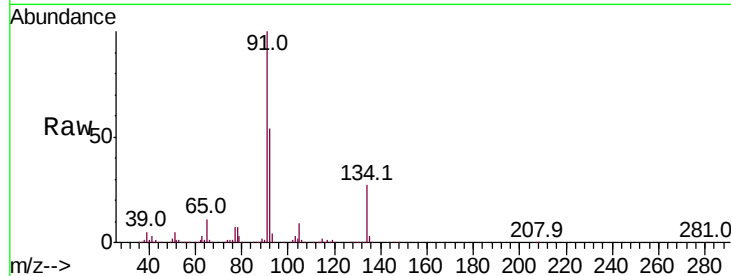
#85
n-Butylbenzene
Concen: 18.793 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	631394		
92	52.9	0.0	104.2	
134	26.6	0.0	50.6	

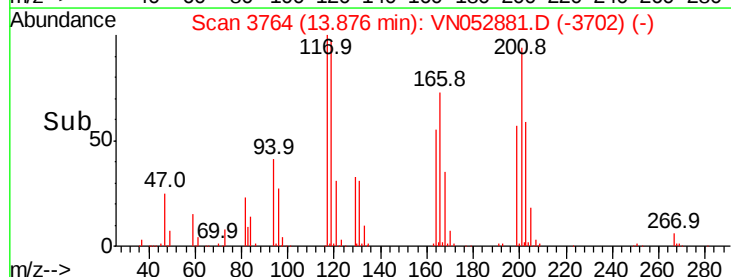
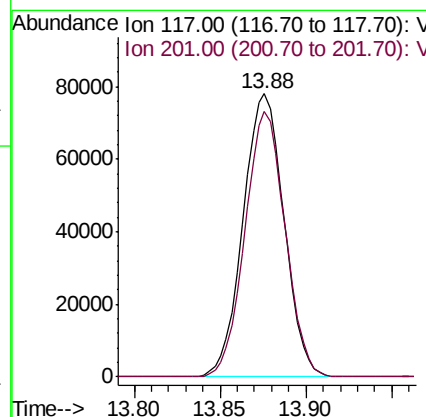
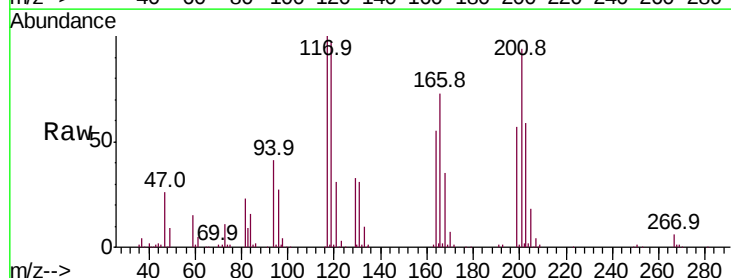
Manual Integrations
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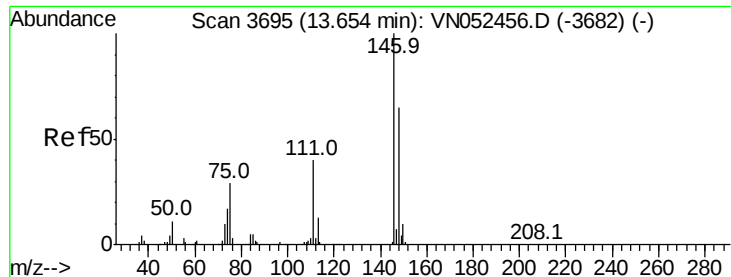
MMDadoda
12/17/2018 3:05:31 PM



#86
Hexachloroethane
Concen: 19.525 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	129397		
201	91.8	43.8	131.3	





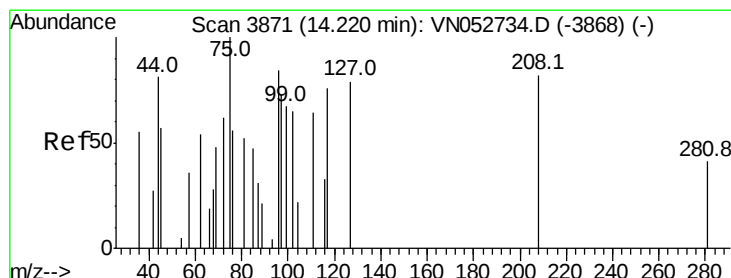
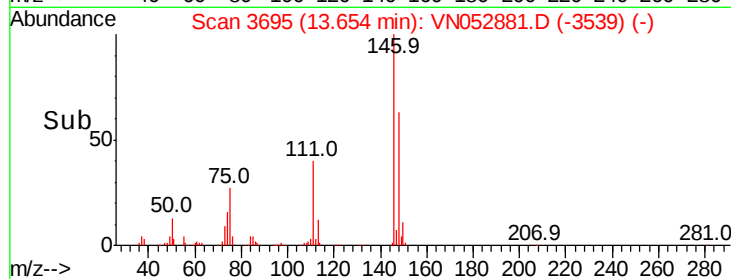
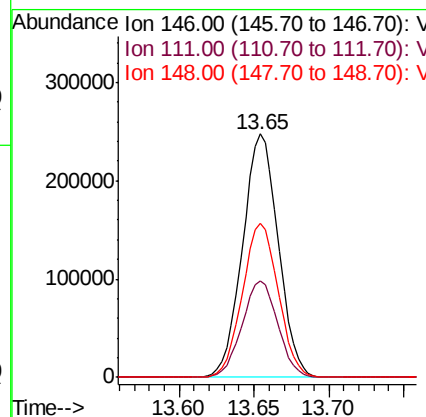
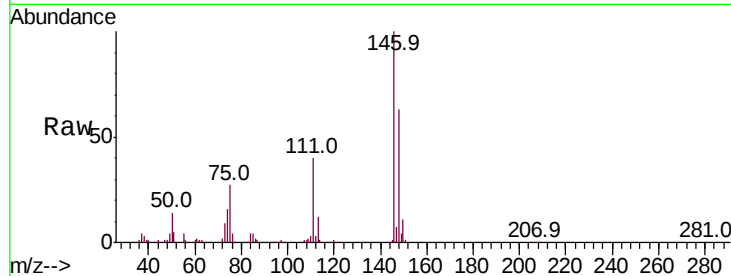
#87
 1,2-Dichlorobenzene
 Concen: 21.663 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052881.D
 Acq: 14 Dec 2018 11:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100			
111	39.5	20.3	60.8	
148	63.7	32.1	96.5	

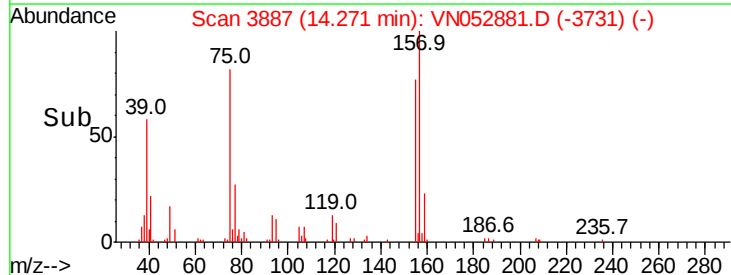
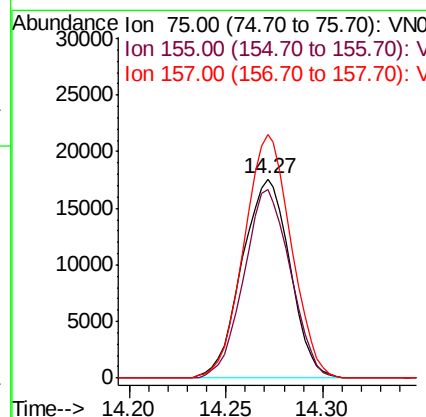
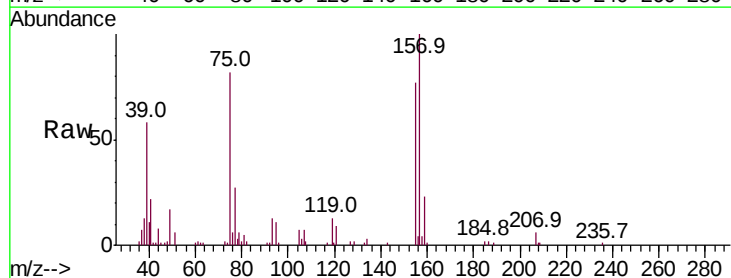
Manual Integrations
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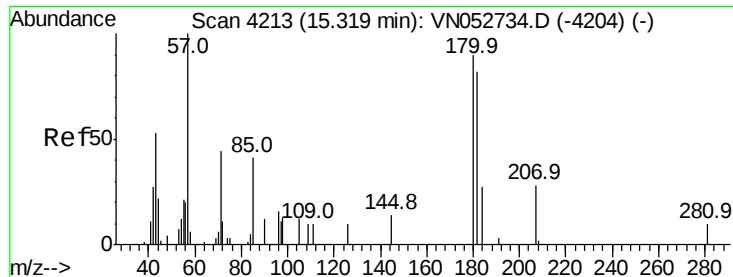
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 12/17/2018 3:05:31 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 21.245 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052881.D
 Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
155	92.0	72.2	108.2	
157	120.2	94.2	141.2	





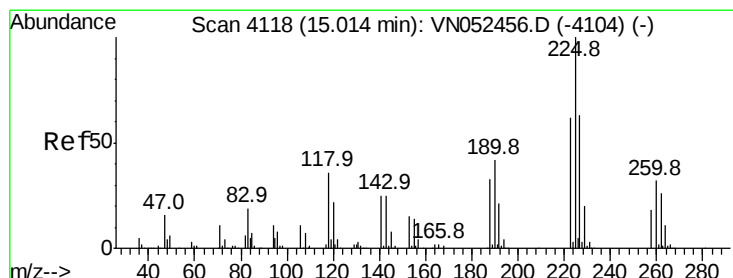
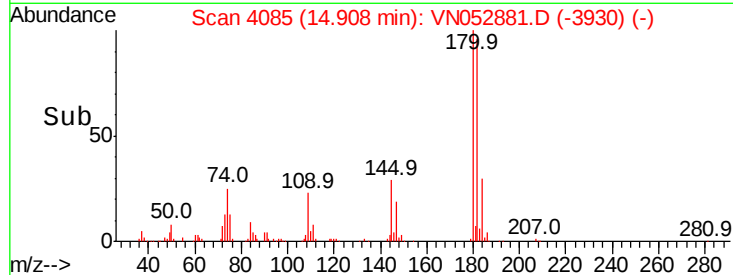
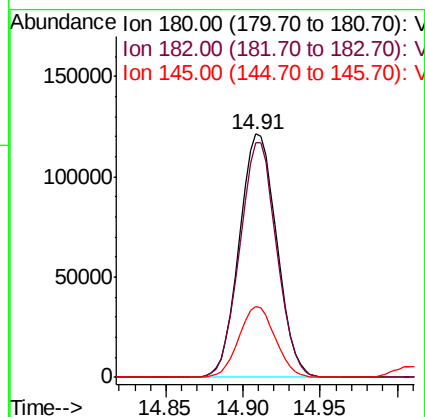
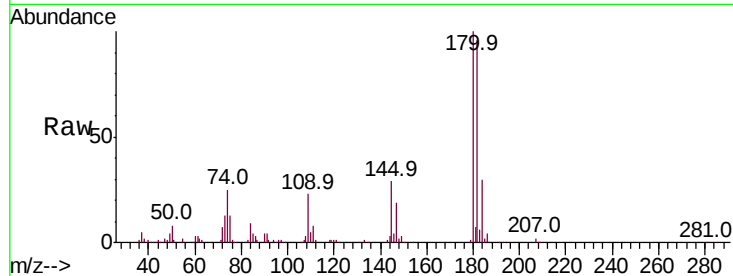
#89
1,2,4-Trichlorobenzene
Concen: 21.836 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. -0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	204161		
182	95.1	76.6	114.8	
145	28.4	23.6	35.4	

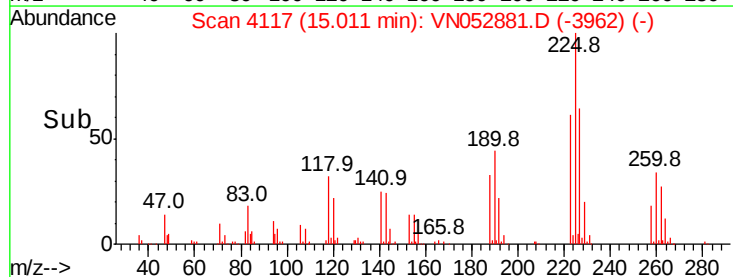
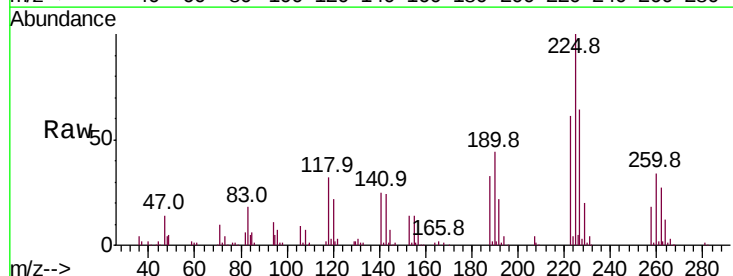
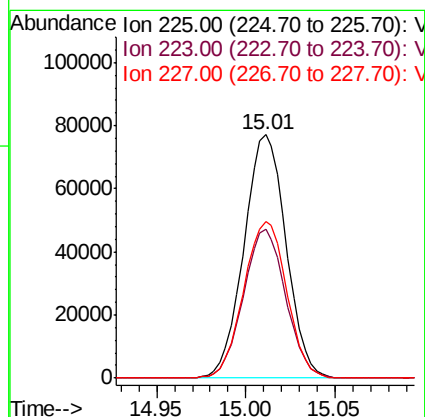
Manual Integrations
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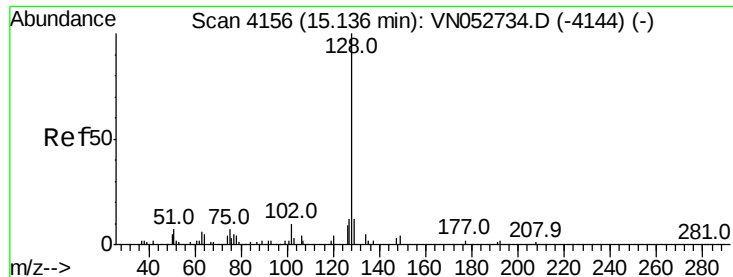
MMDadoda
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#90
Hexachlorobutadiene
Concen: 20.687 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. -0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	126882		
223	61.5	0.0	125.6	
227	65.8	0.0	127.8	





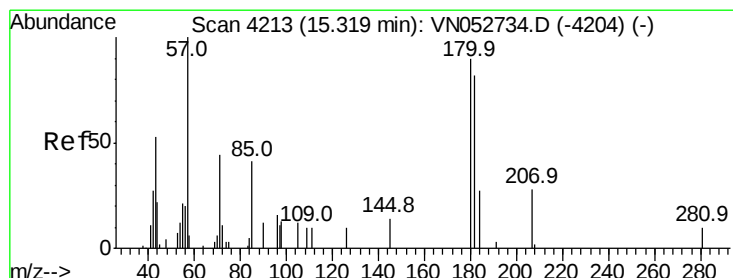
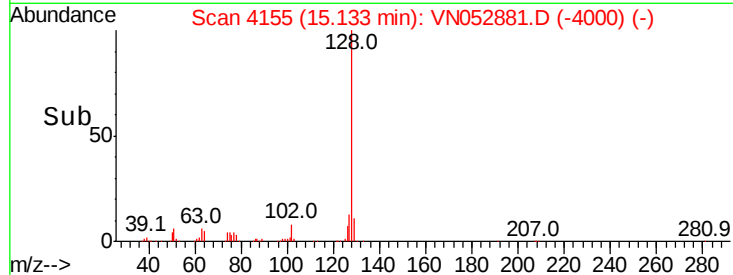
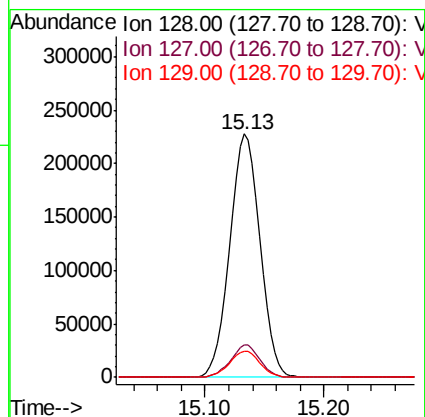
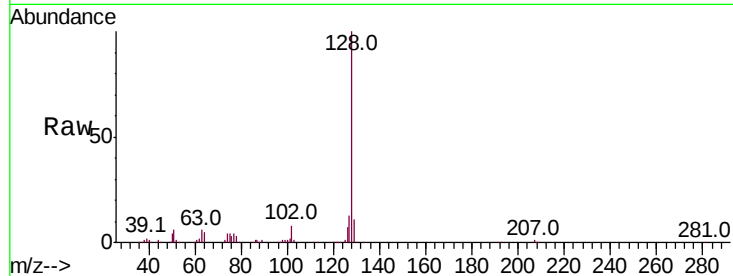
#91
Naphthalene
Concen: 21.211 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBS01

Manual Integrations
APPROVED

MMDadoda
12/17/2018 3:05:31 PM

Tot Ion	Ratio	Resp	Lower	Upper
128	100			
127	12.9	9.9	14.9	
129	11.0	8.5	12.7	



#92
1,2,3-Trichlorobenzene
Concen: 22.077 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052881.D
Acq: 14 Dec 2018 11:42

Tgt Ion	Ratio	Resp	Lower	Upper
180	100			
182	93.6	0.0	196.2	
145	29.6	0.0	62.2	

