

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
 Data File : VN052884.D
 Acq On : 14 Dec 2018 13:03
 Operator : MD\SY
 Sample : VN1214WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/17/2018 3:05:41 PM

Quant Time: Dec 15 03:12:11 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	206782	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1201959	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	1036089	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	400315	28.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.70%
60) 4-Bromofluorobenzene	12.40	95	460290	29.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.87%
63) Toluene-d8	10.09	98	1415324	29.46	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	208170	17.676	ug/l 98
3) Chloromethane	2.06	50	257978	16.517	ug/l 99
4) Vinyl Chloride	2.19	62	288961	18.331	ug/l 97
5) Bromomethane	2.58	94	167742	18.662	ug/l 99
6) Chloroethane	2.72	64	178584	19.050	ug/l 100
7) Trichlorofluoromethane	3.03	101	386844	19.884	ug/l 99
8) Diethyl Ether	3.41	74	141394	19.683	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	246756	20.008	ug/l 96
10) 1,1-Dichloroethene	3.75	96	233615	20.146	ug/l 95
11) Methyl Iodide	3.96	142	312503	19.410	ug/l 99
12) Methyl Acetate	4.33	43	202335	20.536	ug/l 100
13) Acrolein	3.61	56	13035	11.263	ug/l 96
14) Acrylonitrile	4.99	53	393206	93.665	ug/l 99
15) Acetone	3.82	58	94640	87.050	ug/l 99
16) Carbon Disulfide	4.06	76	637875	17.375	ug/l 100
17) Allyl chloride	4.33	41	356241	17.616	ug/l 98
18) Methylene Chloride	4.56	84	268455	19.995	ug/l 94
19) trans-1,2-Dichloroethene	5.05	96	250598	20.081	ug/l 94
20) Diisopropyl ether	5.95	45	839370	19.751	ug/l 97
21) 1,1-Dichloroethane	5.85	63	477522	19.714	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	294676	20.604	ug/l 97
23) tert-Butyl Alcohol	4.77	59	67880	108.696	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	634897	20.871	ug/l 97
25) Chloroform	7.37	83	481700	20.614	ug/l 100
26) Cyclohexane	7.66	56	431483	18.887	ug/l 98
29) 1,1-Dichloropropene	7.80	75	363911	19.826	ug/l 99
30) 2-Butanone	6.83	43	453978	92.431	ug/l 98
31) 2,2-Dichloropropane	6.83	77	349397	20.677	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	393486	20.602	ug/l 98
33) Carbon Tetrachloride	7.78	117	331607	19.843	ug/l 99
34) Benzene	8.04	78	1099522	19.924	ug/l 98
35) Methacrylonitrile	7.18	41	118073	19.376	ug/l 99
36) 1,2-Dichloroethane	8.13	62	331701	19.835	ug/l 99
37) Trichloroethene	8.84	130	315079	22.516	ug/l 96
38) Methylcyclohexane	9.08	83	424931	18.701	ug/l 97
39) 1,2-Dichloropropane	9.12	63	291820	19.727	ug/l 98
40) Dibromomethane	9.21	93	164103	20.529	ug/l 96

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Instrument :
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Manual Integrations
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 12/17/2018 3:05:41 PM

Quant Time: Dec 15 03:12:11 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)
41) Bromodichloromethane	9.40	83	345890	19.584	ug/l	97
42) Vinyl Acetate	5.90	43	2454295	92.355	ug/l	97
43) Ethyl Acetate	6.93	43	200326	19.181	ug/l #	69
44) Isopropyl Acetate	8.16	43	375455	20.498	ug/l #	76
45) 1,4-Dioxane	9.20	88	39701	396.205	ug/l	94
46) Methyl methacrylate	9.20	41	188789	19.851	ug/l	97
47) n-amyl Acetate	12.07	43	385547	25.387	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	332408	19.411	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	410863	19.692	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	234464	20.691	ug/l	99
51) Ethyl methacrylate	10.43	69	310539	21.820	ug/l	94
52) 1,3-Dichloropropane	10.71	76	400351	19.849	ug/l	99
53) Dibromochloromethane	10.90	129	240450	19.274	ug/l	97
54) 1,2-Dibromoethane	11.01	107	222559	20.100	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	853647	102.472	ug/l	98
56) Bromoform	12.13	173	141111	17.305	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	1066998	106.226	ug/l	98
59) 2-Hexanone	10.75	43	712315	103.812	ug/l	98
61) Tetrachloroethene	10.63	164	385787	30.232	ug/l	96
62) Toluene	10.16	91	1176000	20.589	ug/l	99
64) Chlorobenzene	11.43	112	723206	20.745	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	252952	20.903	ug/l	99
66) Ethyl Benzene	11.51	91	1260175	20.471	ug/l	98
67) m/p-Xylenes	11.62	106	945031	41.207	ug/l	98
68) o-Xylene	11.95	106	455953	20.483	ug/l	98
69) Styrene	11.96	104	738255	20.548	ug/l	99
70) Isopropylbenzene	12.25	105	1232500	20.810	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	211923	16.449	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	213955m	19.346	ug/l	
73) Bromobenzene	12.53	156	299031	20.876	ug/l	94
74) n-propylbenzene	12.59	91	1386414	20.091	ug/l	98
75) 2-Chlorotoluene	12.68	91	806238	20.129	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	988268	20.659	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	61876	17.711	ug/l	98
78) 4-Chlorotoluene	12.77	91	1017078	25.427	ug/l	88
79) tert-butylbenzene	12.99	119	876315	21.035	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	983460	20.546	ug/l	100
81) sec-Butylbenzene	13.17	105	1163872	20.057	ug/l	100
82) p-Isopropyltoluene	13.29	119	991127	20.059	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	506650	20.111	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	501647	20.610	ug/l	99
85) n-Butylbenzene	13.62	91	819731	19.313	ug/l	99
86) Hexachloroethane	13.88	117	133928	15.997	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	474468	19.791	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	32623	18.077	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	273168	23.128	ug/l	99
90) Hexachlorobutadiene	15.01	225	148739	19.197	ug/l	98
91) Naphthalene	15.13	128	610145	25.580	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	247027	22.695	ug/l	97

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 9 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Manual Integrations
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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

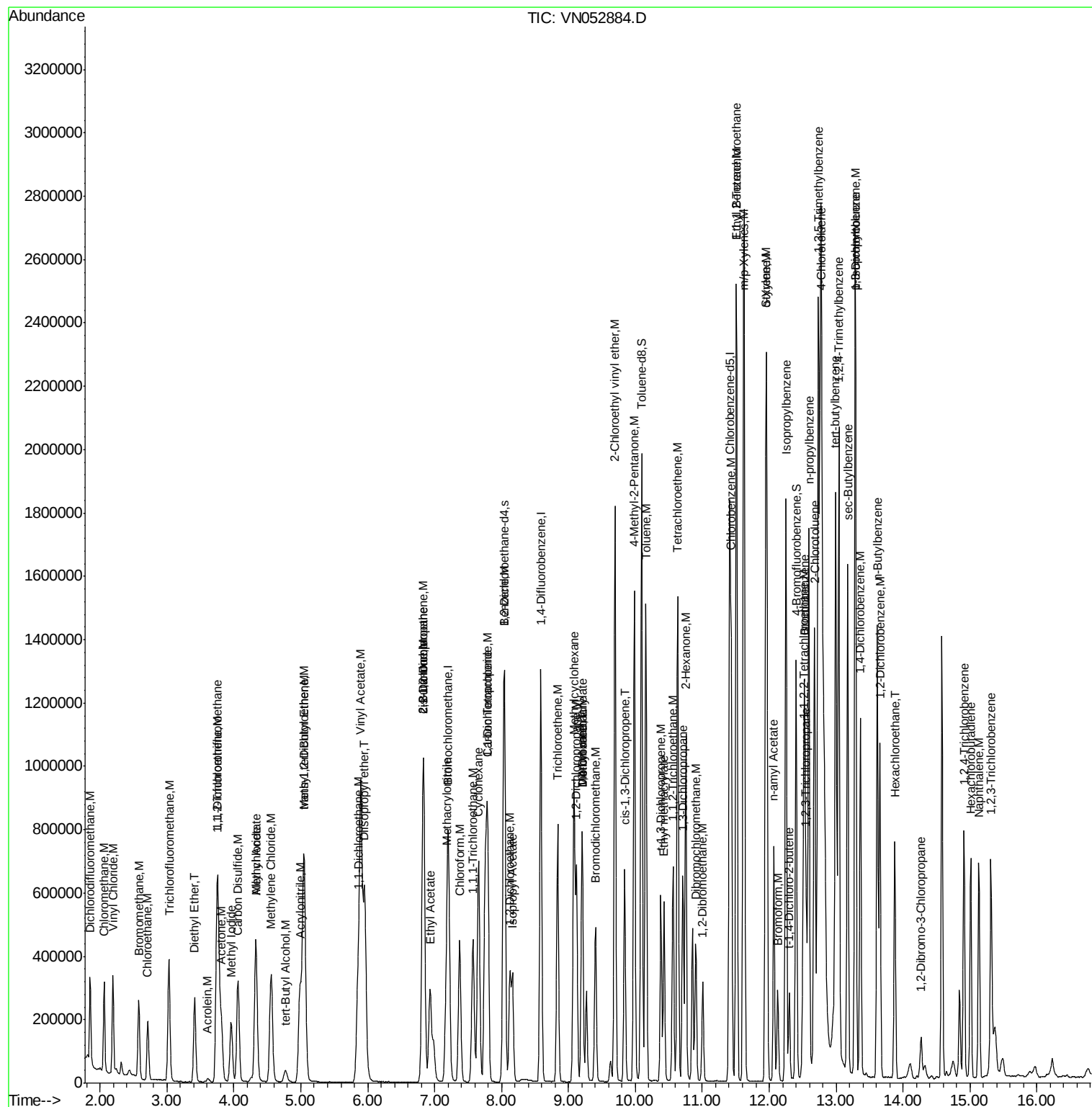
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Data File : VN052884.D
Acq On : 14 Dec 2018 13:03
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Sample : VN1214WBSD01
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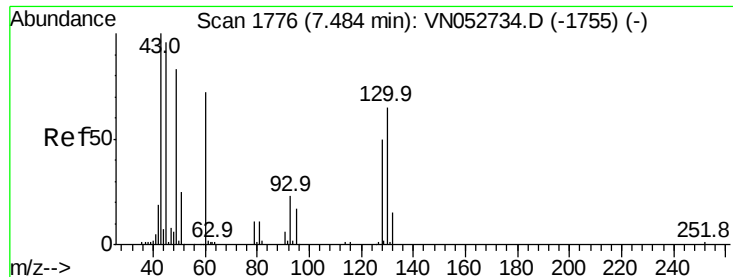
Instrument :
MSVOA_N
Client Sample Id :
VN1214WBSD01

Manual Integrations
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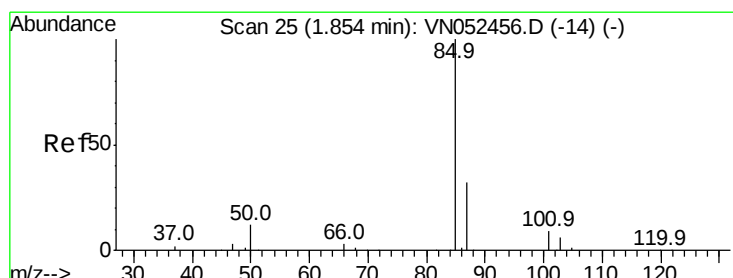
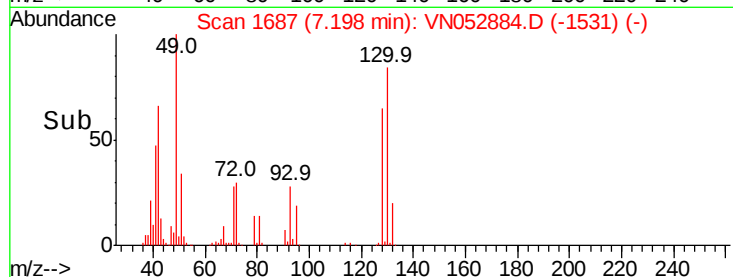
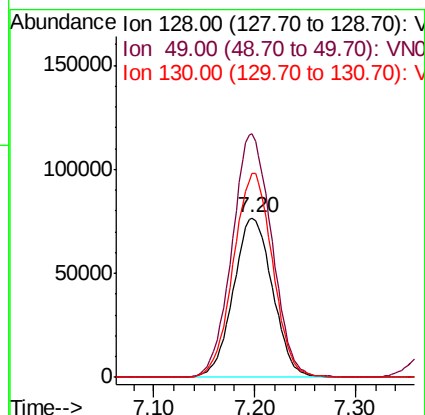
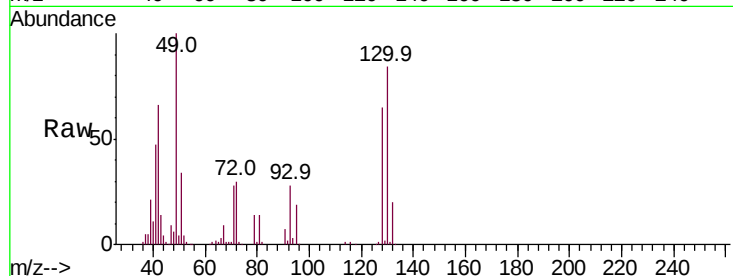
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
49	155.0	0.0	431.8
130	128.4	0.0	317.0

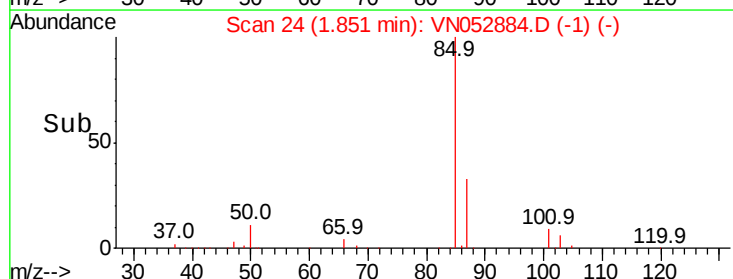
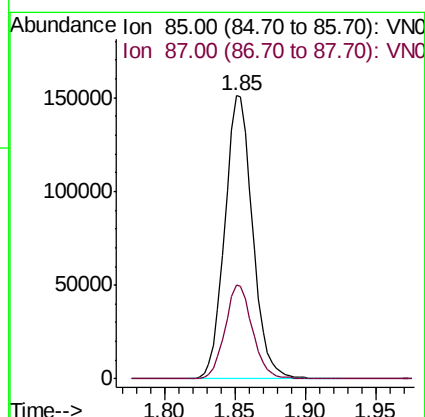
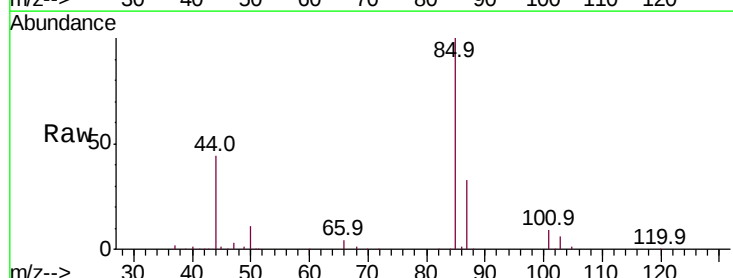
Manual Integrations
APPROVED

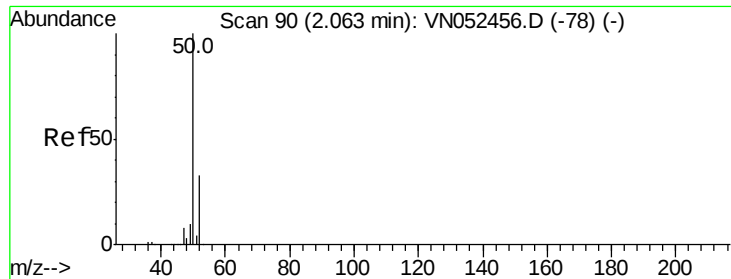
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#2
Dichlorodifluoromethane
Concen: 17.676 ug/l
RT: 1.85 min Scan# 24
Delta R.T. -0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.1	48.3





#3

Chloromethane

Concen: 16.517 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBSD01

Tot Ion: 50 Resp: 257978

Ion Ratio Lower Upper

50 100

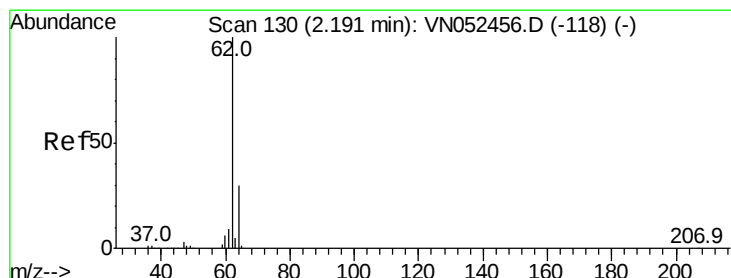
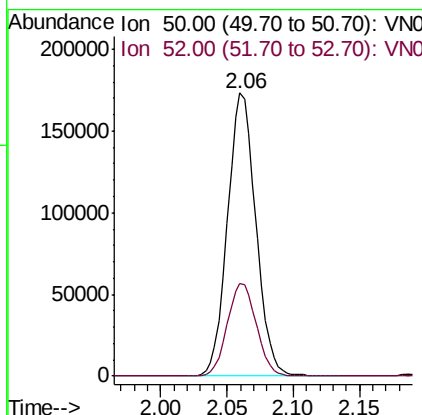
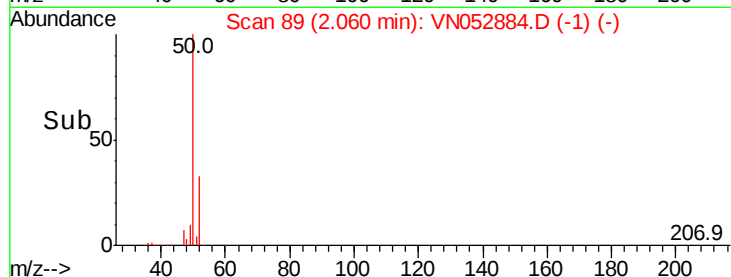
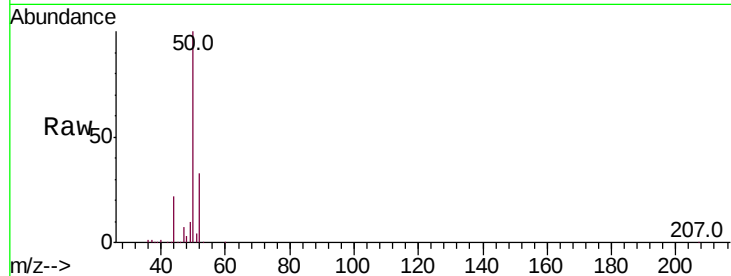
52 32.8 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 18.331 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052884.D

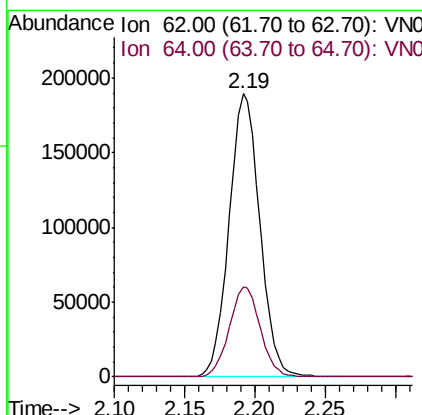
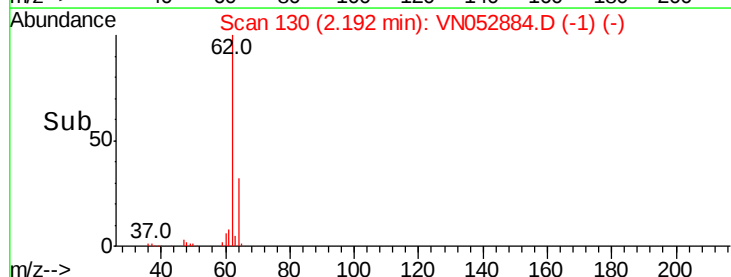
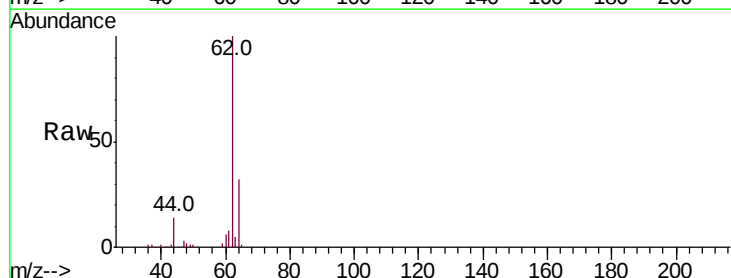
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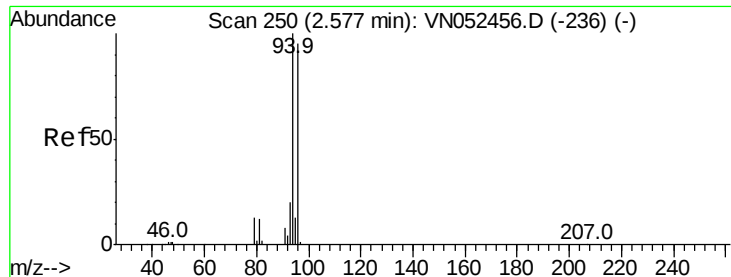
Tgt Ion: 62 Resp: 288961

Ion Ratio Lower Upper

62 100

64 31.9 24.2 36.4





#5

Bromomethane

Concen: 18.662 ug/l

RT: 2.58 min Scan# 251

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBSD01

Tot Ion: 94 Resp: 167742

Ion Ratio Lower Upper

94 100

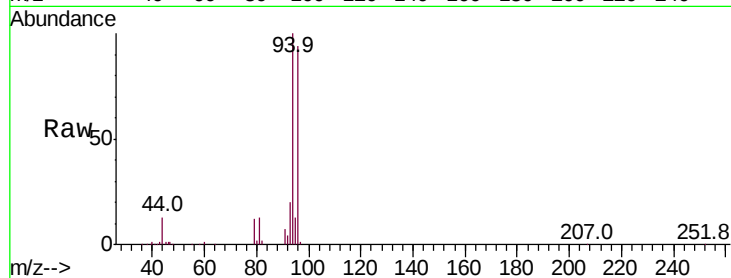
96 94.4 76.2 114.2

Manual Integrations

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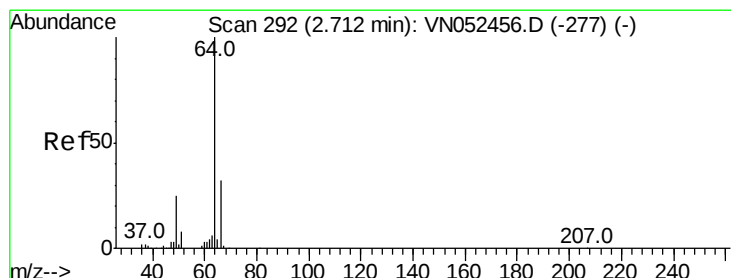
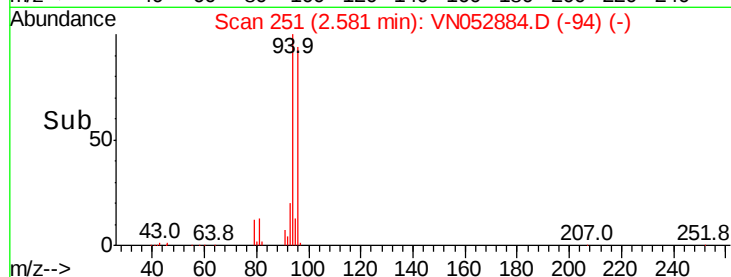
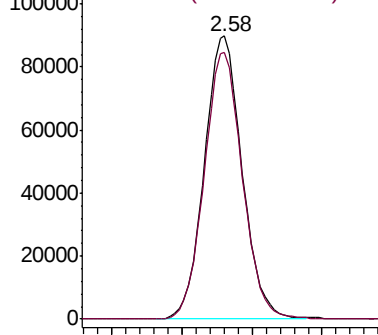
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 19.050 ug/l

RT: 2.72 min Scan# 293

Delta R.T. 0.00 min

Lab File: VN052884.D

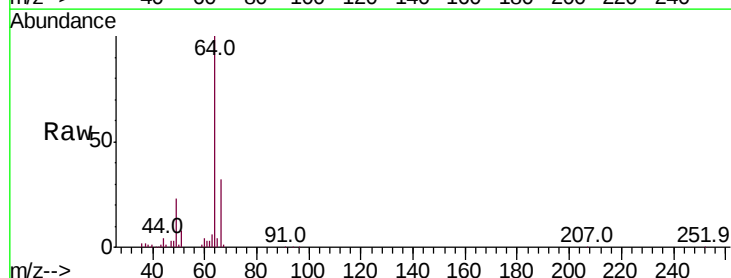
Acq: 14 Dec 2018 13:03

Tgt Ion: 64 Resp: 178584

Ion Ratio Lower Upper

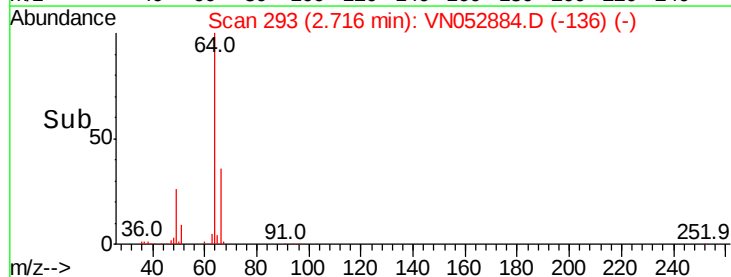
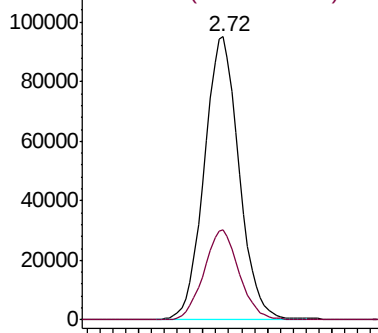
64 100

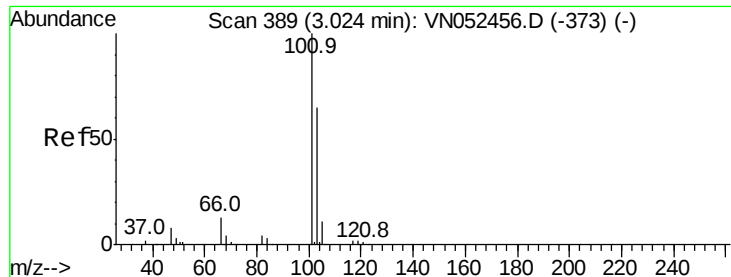
66 31.8 25.6 38.4



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

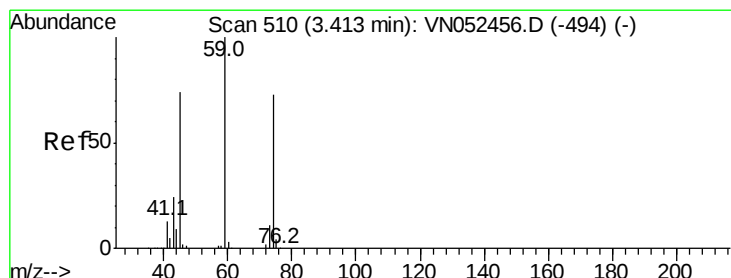
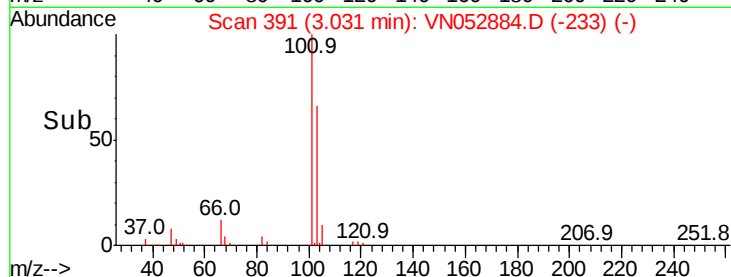
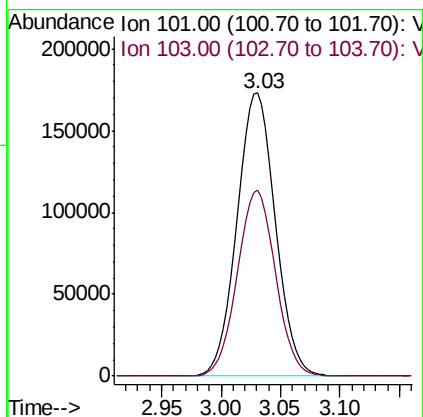
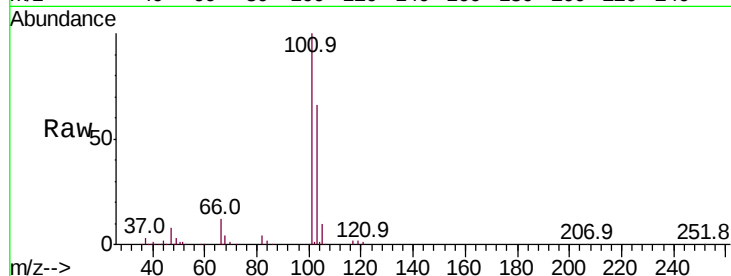
Trichlorofluoromethane
 Concen: 19.884 ug/l
 RT: 3.03 min Scan# 391
 Delta R.T. 0.01 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.6	52.1	78.1

Manual Integrations
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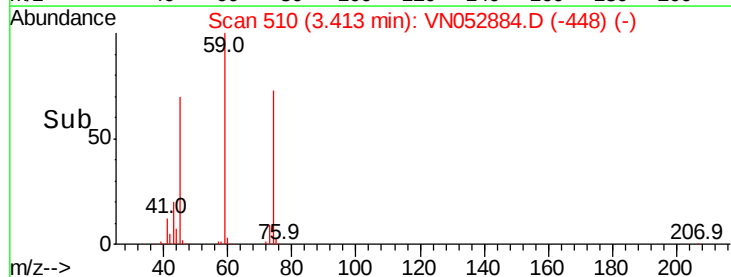
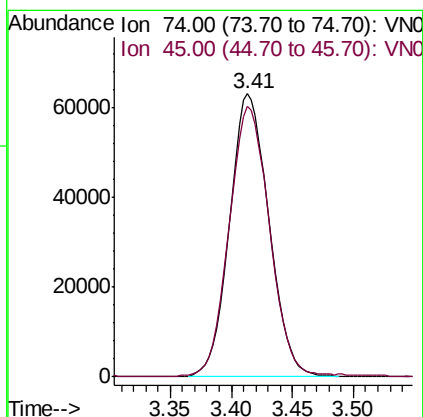
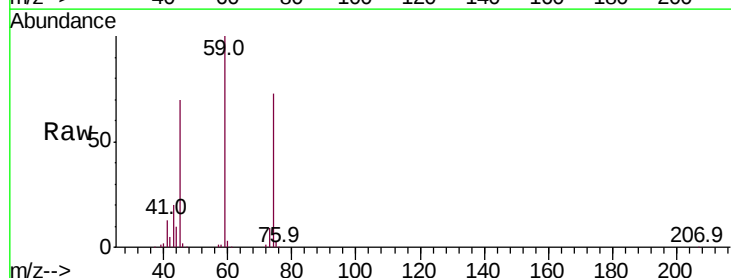
MMDadoda
 12/17/2018 3:05:41 PM

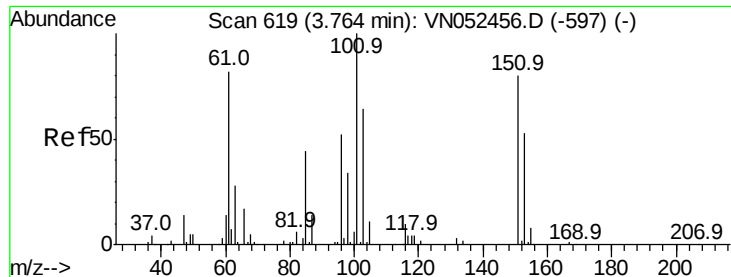


#8

Diethyl Ether
 Concen: 19.683 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.4	20.6	185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.008 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

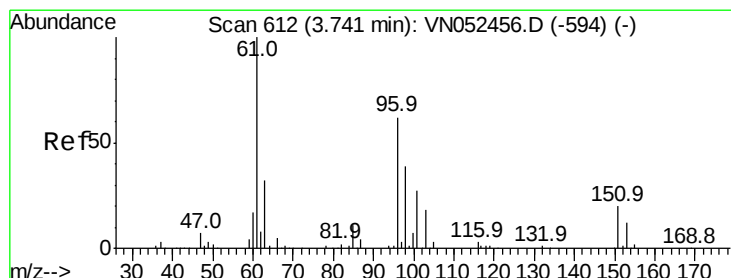
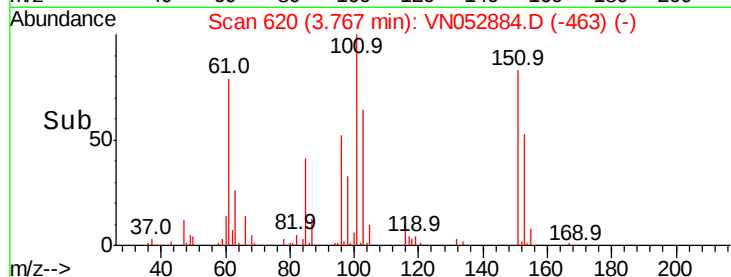
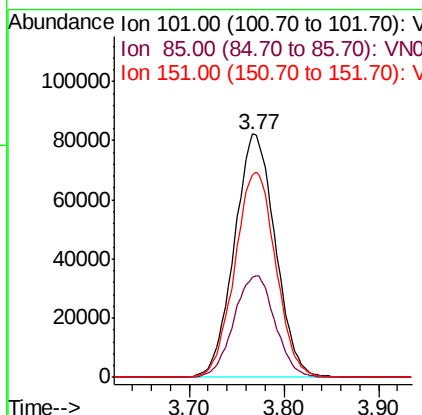
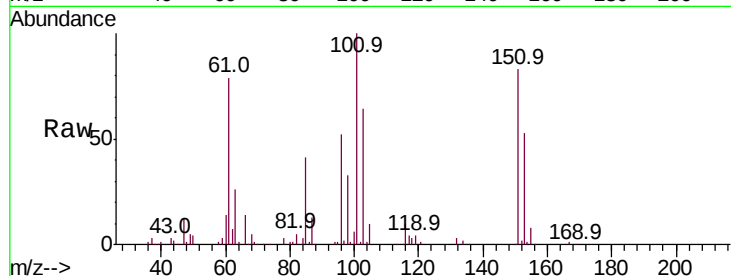
ClientSampleId :

VN1214WBSD01

Tot Ion:	101	Resp:	246756
Ion Ratio	Lower	Upper	
101	100		
85	42.1	0.0	82.6
151	84.4	0.0	158.4

Manual Integrations
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#10

1,1-Dichloroethene

Concen: 20.146 ug/l

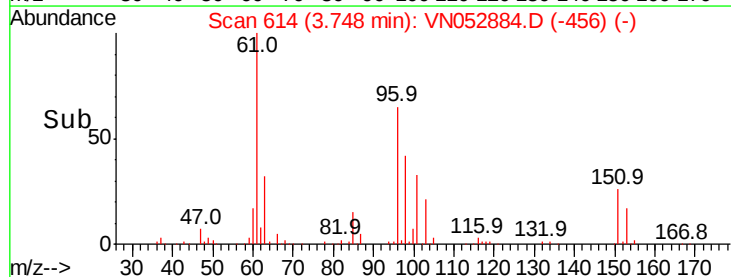
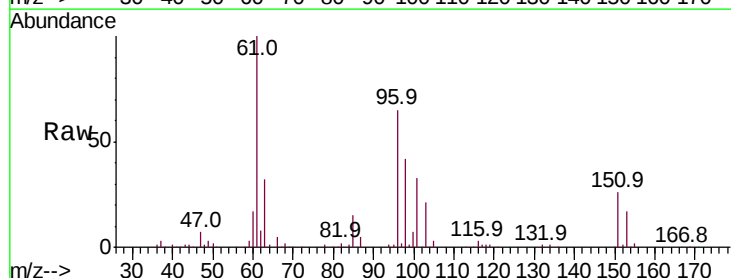
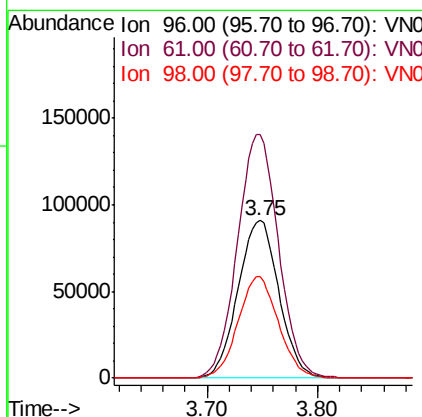
RT: 3.75 min Scan# 614

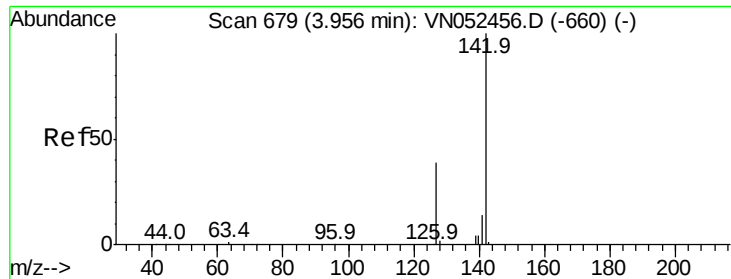
Delta R.T. 0.01 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Tgt Ion:	96	Resp:	233615
Ion Ratio	Lower	Upper	
96	100		
61	154.5	129.4	194.2
98	64.6	50.4	75.6





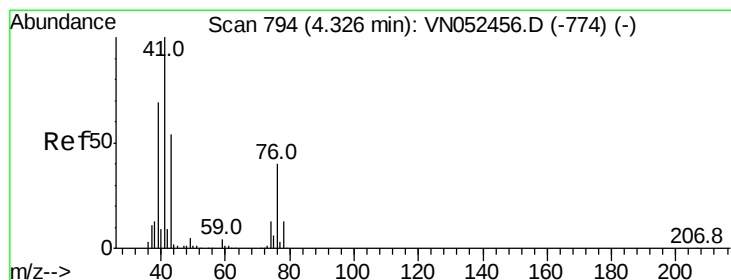
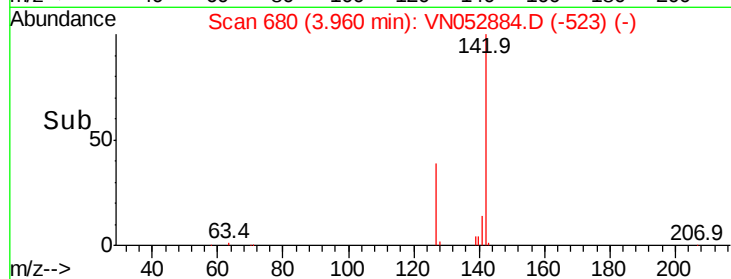
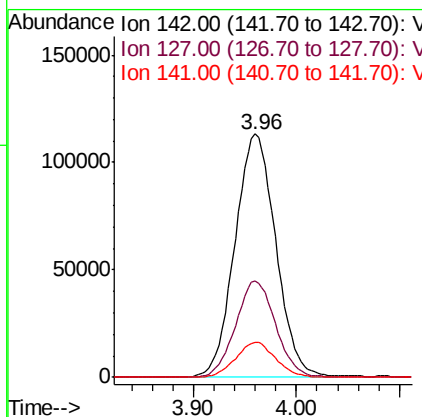
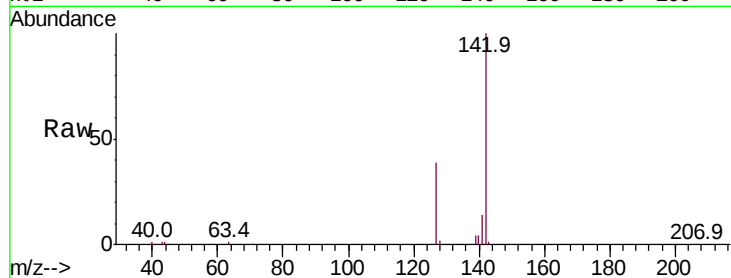
#11
Methyl Iodide
Concen: 19.410 ug/l
RT: 3.96 min Scan# 680
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion	Ratio	Lower	Upper
142	100		
127	39.4	19.4	58.1
141	14.2	7.2	21.6

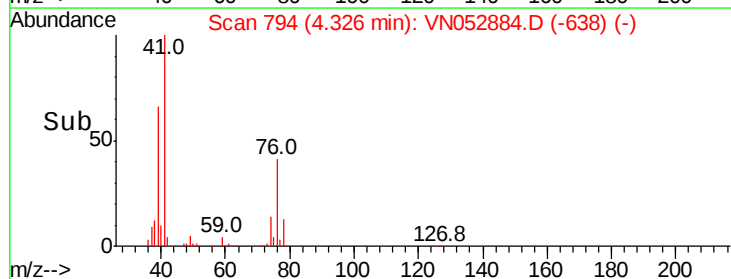
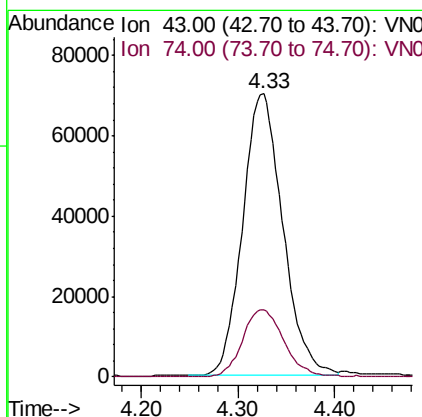
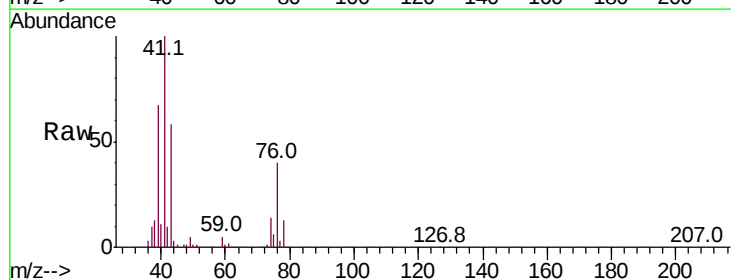
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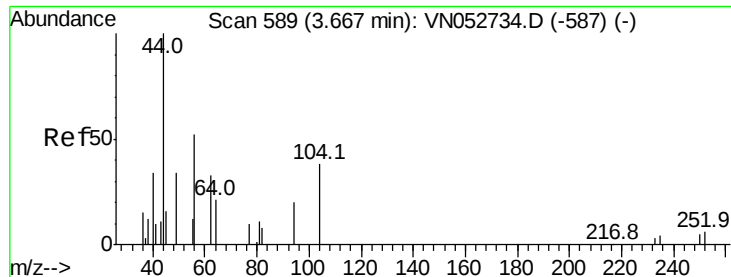
MMDadoda
12/17/2018 3:05:41 PM



#12
Methyl Acetate
Concen: 20.536 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.8	18.9	28.3





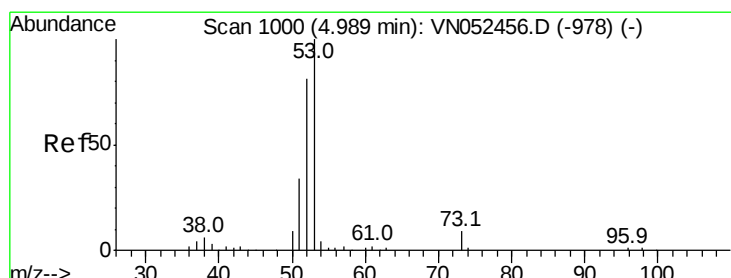
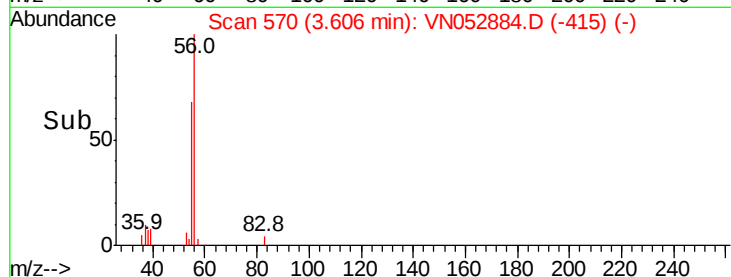
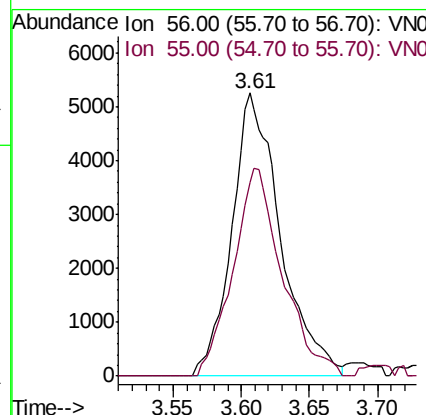
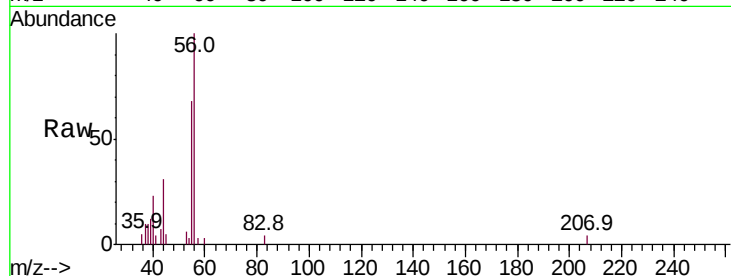
#13
Acrolein
Concen: 11.263 ug/l
RT: 3.61 min Scan# 570
Delta R.T. -0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion: 56 Resp: 13035
Ion Ratio Lower Upper
56 100
55 73.8 56.7 85.1

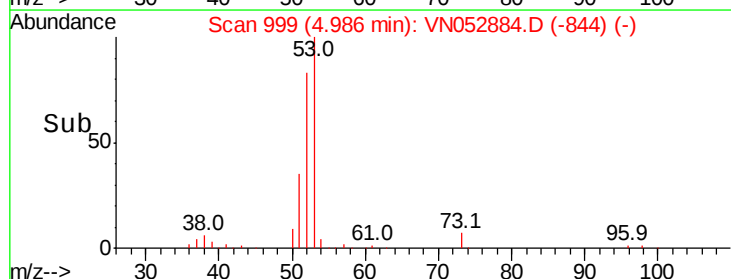
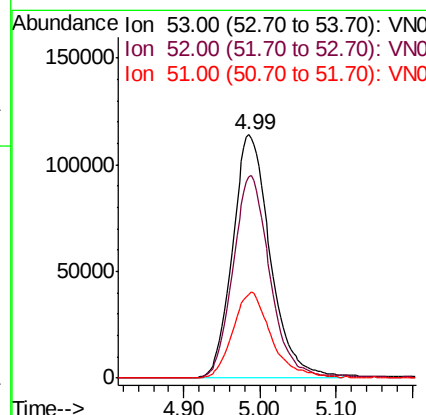
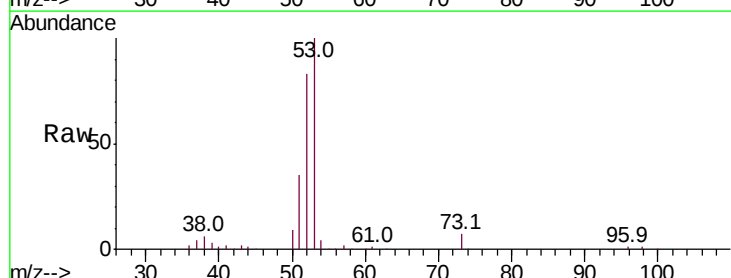
Manual Integrations
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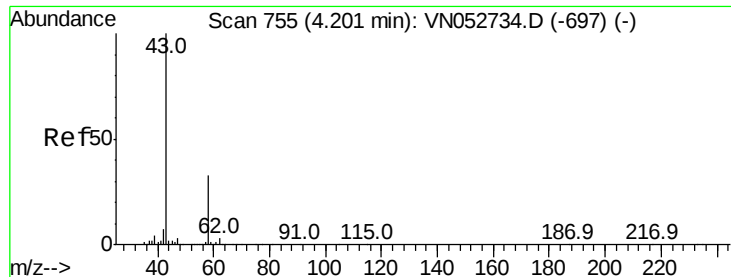
MMDadoda
12/17/2018 3:05:41 PM



#14
Acrylonitrile
Concen: 93.665 ug/l
RT: 4.99 min Scan# 999
Delta R.T. -0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Tgt Ion: 53 Resp: 393206
Ion Ratio Lower Upper
53 100
52 81.1 39.9 119.7
51 35.7 17.6 52.9





#15

Acetone

Concen: 87.050 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBSD01

Tot Ion: 58 Resp: 94640

Ion Ratio Lower Upper

58 100

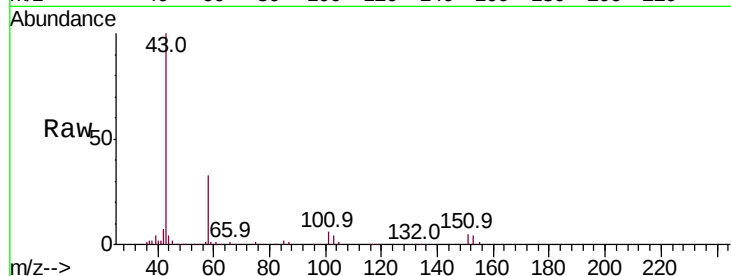
43 303.2 243.6 365.4

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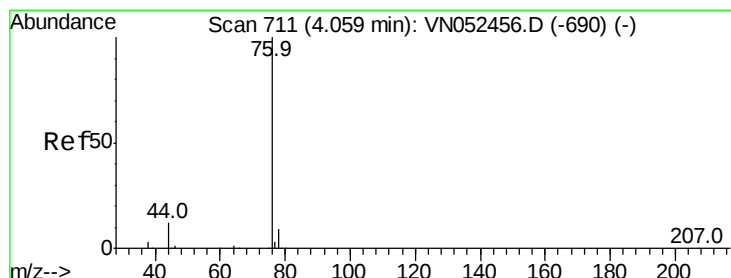
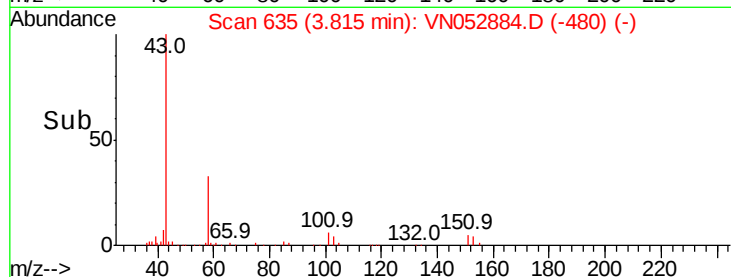
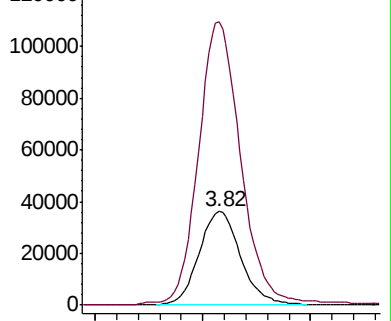
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Abundance Ion 58.00 (57.70 to 58.70): VN052884.D (-635) (-)

Ion 43.00 (42.70 to 43.70): VN052884.D (-635) (-)



#16

Carbon Disulfide

Concen: 17.375 ug/l

RT: 4.06 min Scan# 712

Delta R.T. 0.00 min

Lab File: VN052884.D

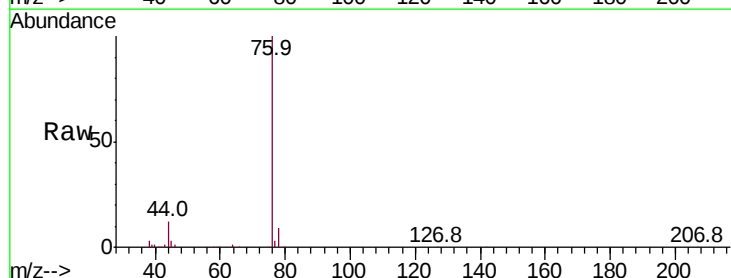
Acq: 14 Dec 2018 13:03

Tgt Ion: 76 Resp: 637875

Ion Ratio Lower Upper

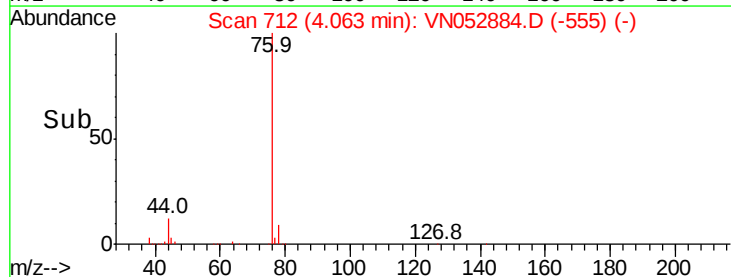
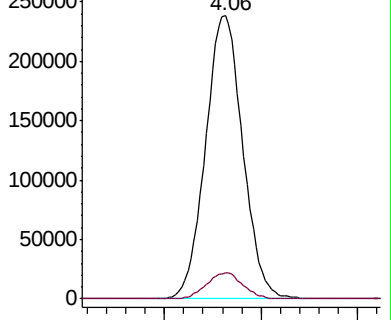
76 100

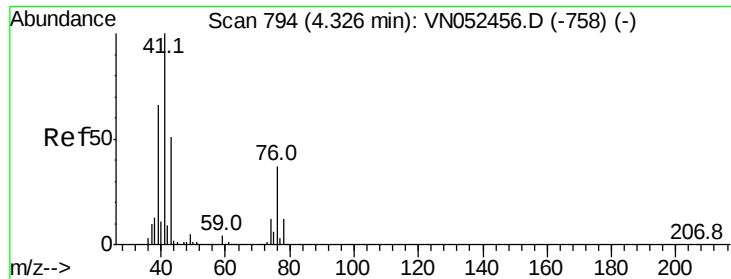
78 9.2 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN052884.D (-712) (-)

Ion 78.00 (77.70 to 78.70): VN052884.D (-712) (-)





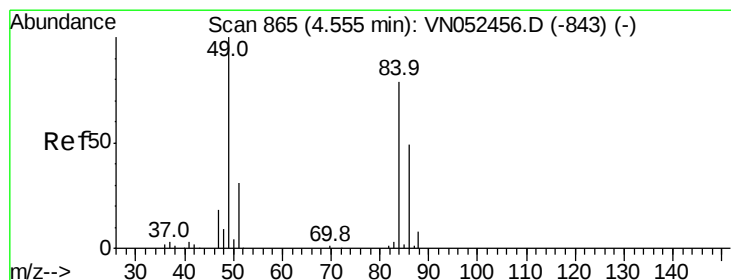
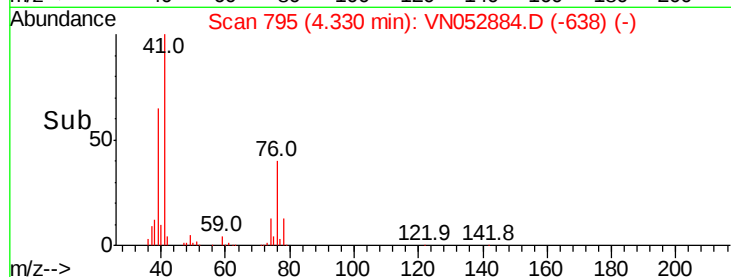
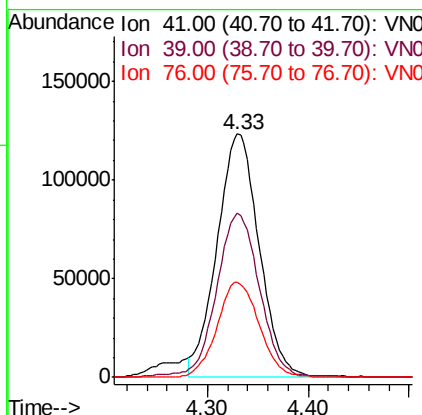
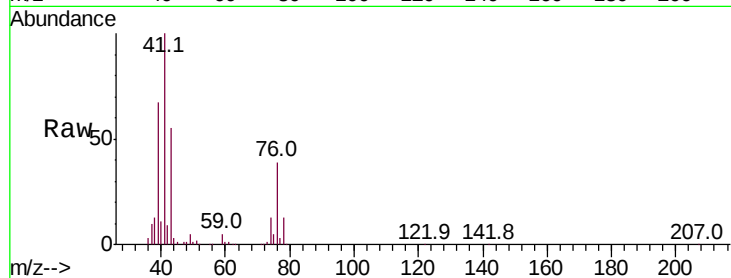
#17
Allvl chloride
Concen: 17.616 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion:	41	Resp:	356241
Ion	Ratio	Lower	Upper
41	100		
39	67.1	32.8	98.3
76	39.0	18.6	55.8

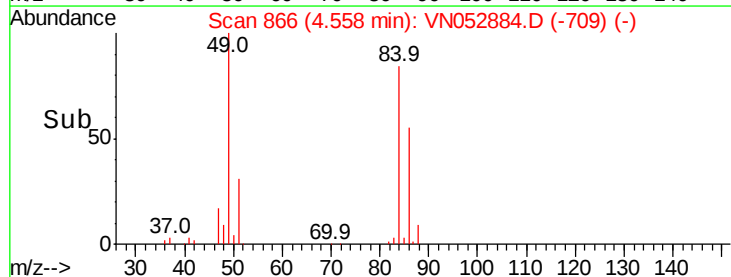
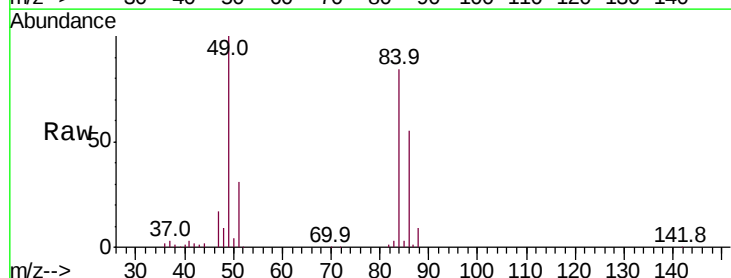
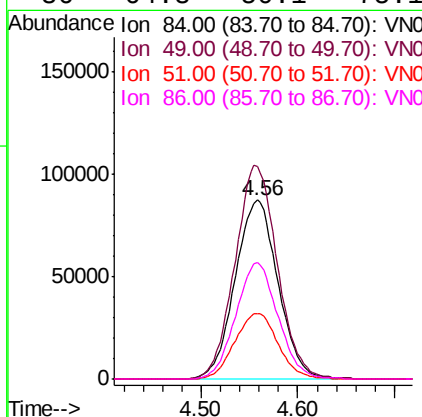
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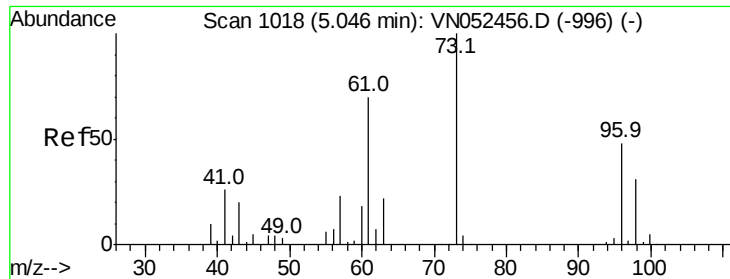
MMDadoda
12/17/2018 3:05:41 PM



#18
Methylene Chloride
Concen: 19.995 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Tgt Ion:	84	Resp:	268455
Ion	Ratio	Lower	Upper
84	100		
49	118.4	101.4	152.0
51	36.8	31.7	47.5
86	64.8	50.1	75.1





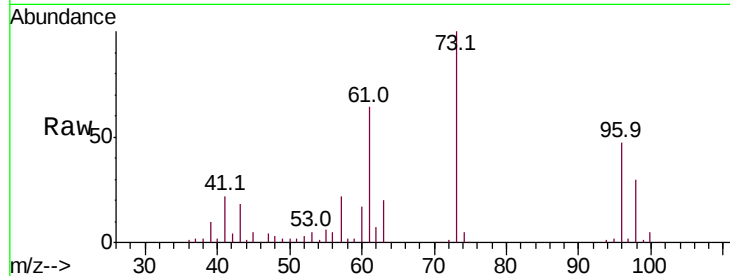
#19
trans-1,2-Dichloroethene
Concen: 20.081 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.3	118.2	177.4
98	64.4	51.4	77.2

Manual Integrations
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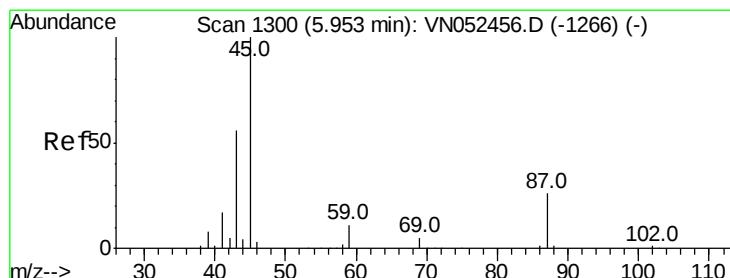
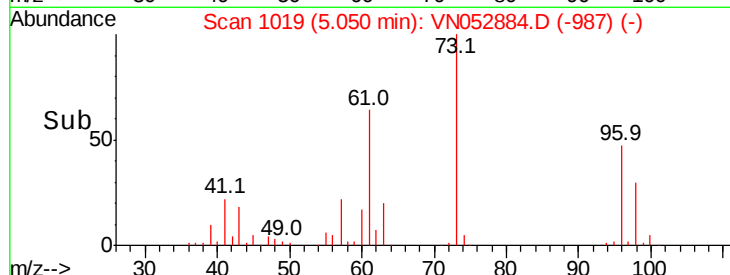
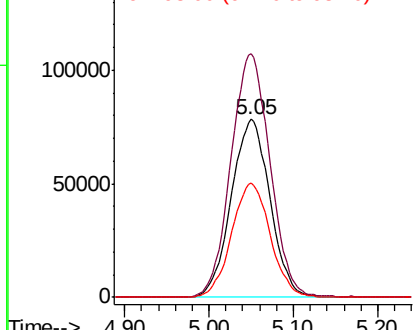


Abundance

Ion 96.00 (95.70 to 96.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

Ion 98.00 (97.70 to 98.70): VNC



#20
Diisopropyl ether
Concen: 19.751 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.6	47.8	71.8
87	27.5	21.3	31.9
59	12.0	8.9	13.3

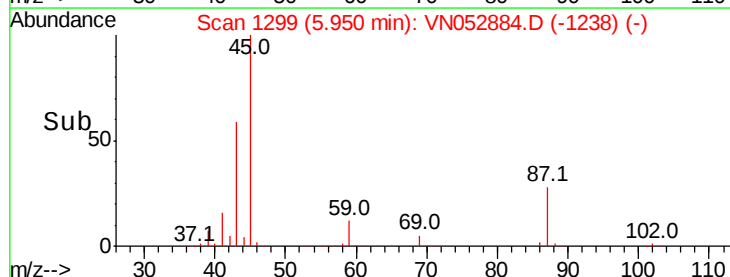
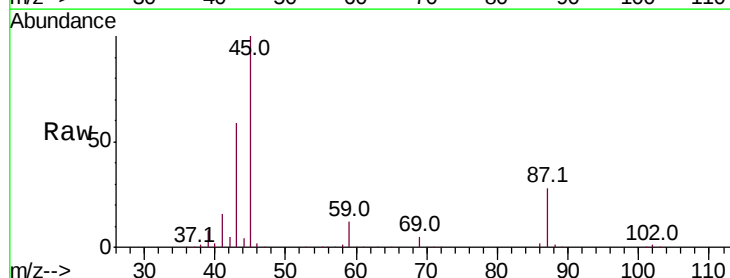
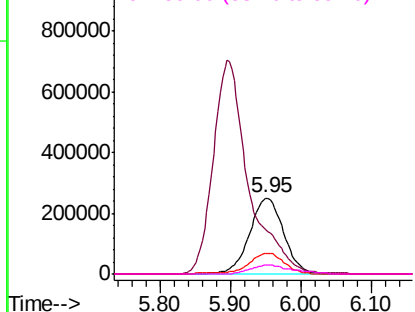
Abundance

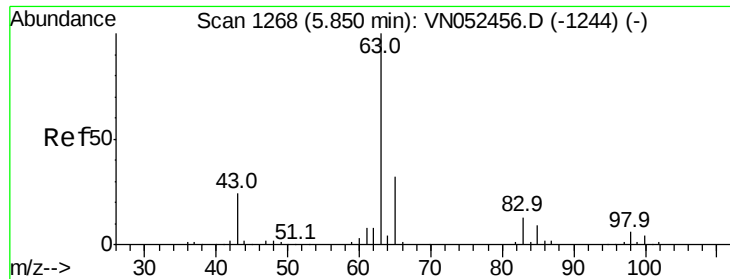
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





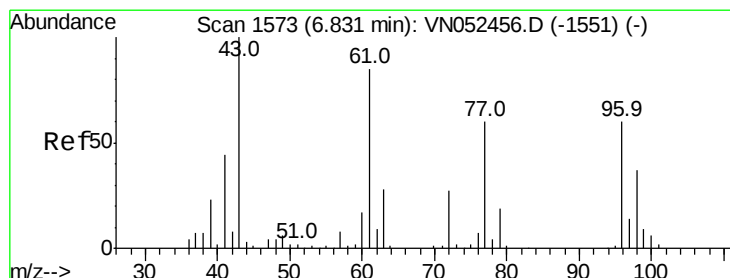
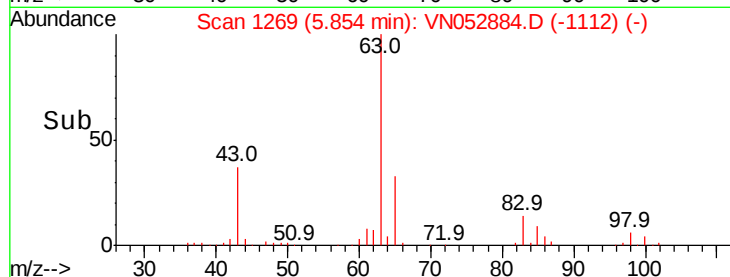
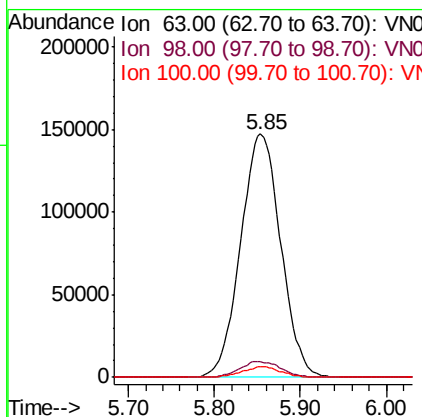
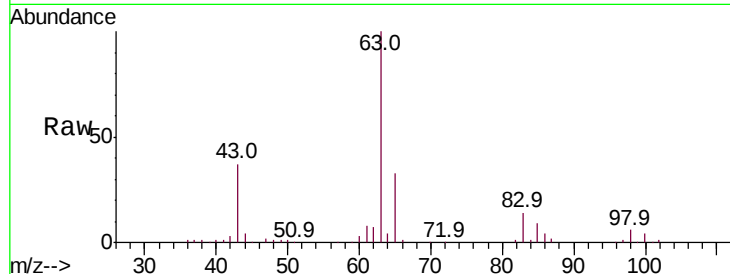
#21
 1,1-Dichloroethane
 Concen: 19.714 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
63	100	477522		
98	6.2		3.0	9.2
100	4.5		1.8	5.5

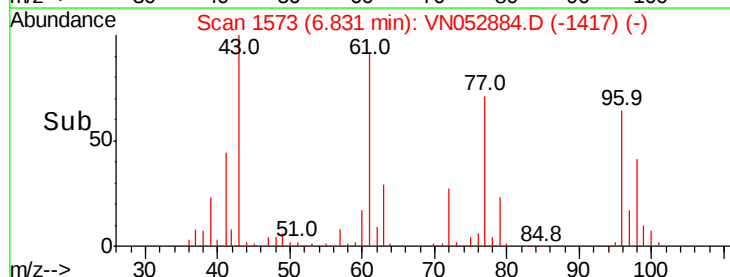
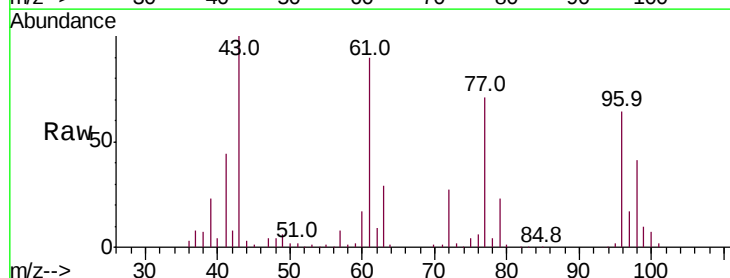
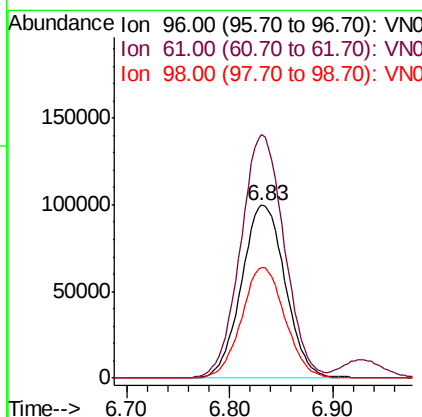
Manual Integrations
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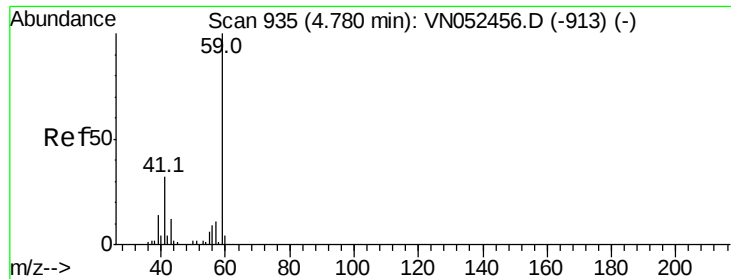
MMDadoda
 12/17/2018 3:05:41 PM



#22
 cis-1,2-Dichloroethene
 Concen: 20.604 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	294676		
61	140.7		116.7	175.1
98	63.4		50.8	76.2





#23

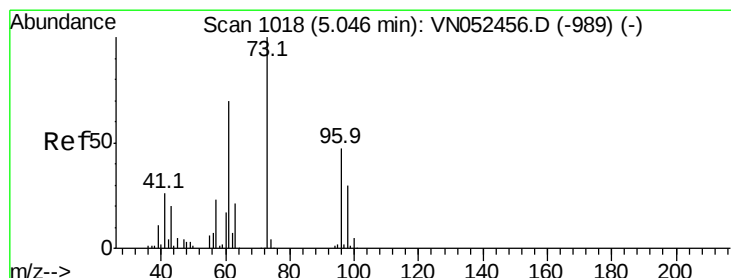
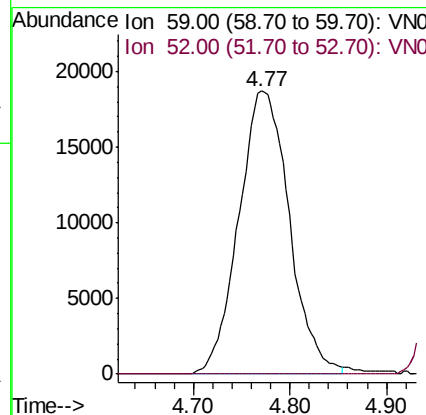
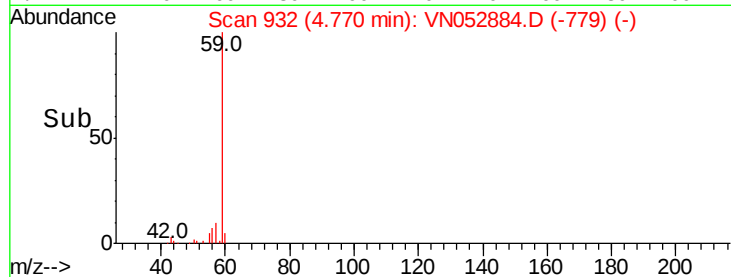
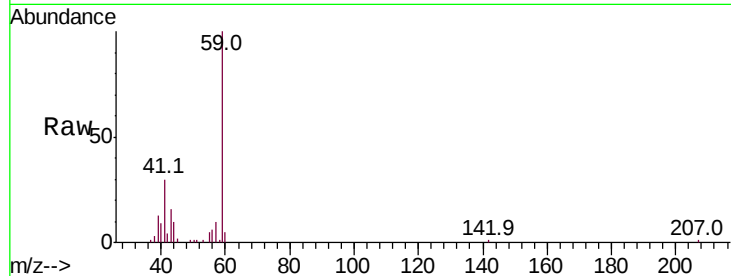
tert-Butyl Alcohol
 Concen: 108.696 ug/l
 RT: 4.77 min Scan# 932
 Delta R.T. -0.01 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBSD01

Tot Ion	59	Ratio	Lower	Upper
59	100			
52	0.4		0.0	0.0#

Manual Integrations
 APPROVED

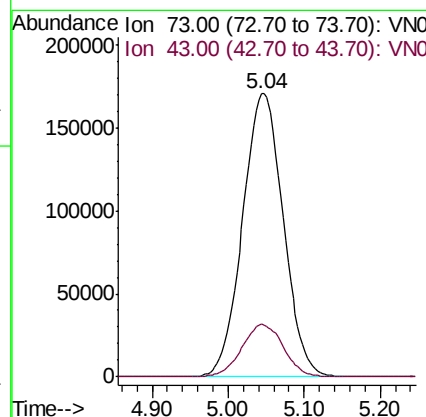
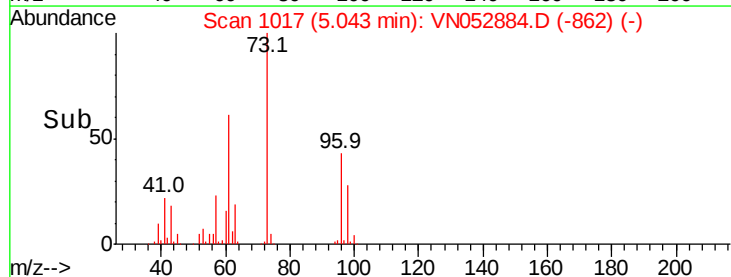
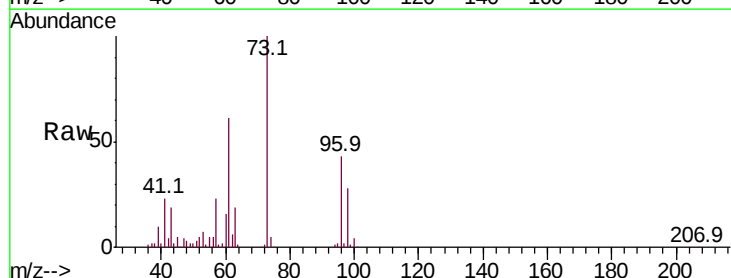
MMDadoda
 12/17/2018 3:05:41 PM

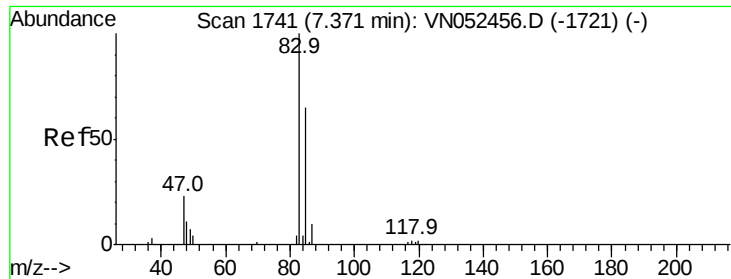


#24

Methyl tert-Butyl Ether
 Concen: 20.871 ug/l
 RT: 5.04 min Scan# 1017
 Delta R.T. -0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Tgt Ion	73	Ratio	Lower	Upper
73	100			
43	18.6		15.8	23.8





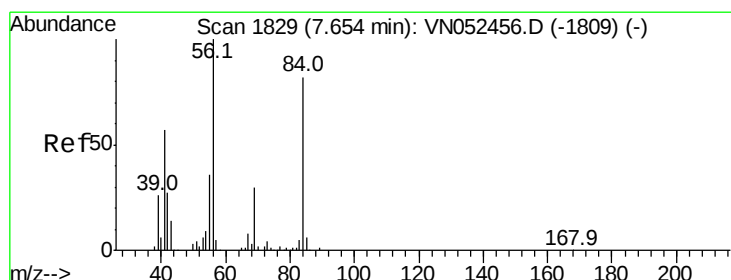
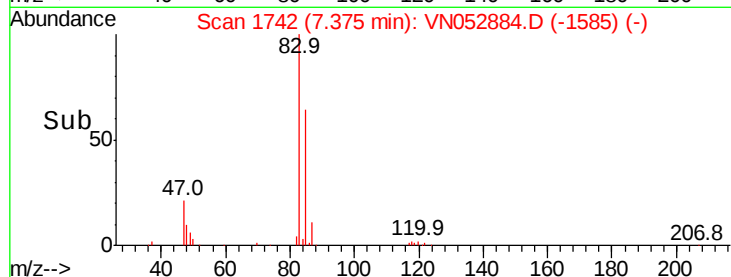
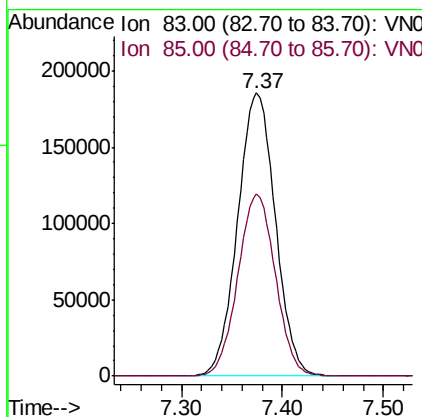
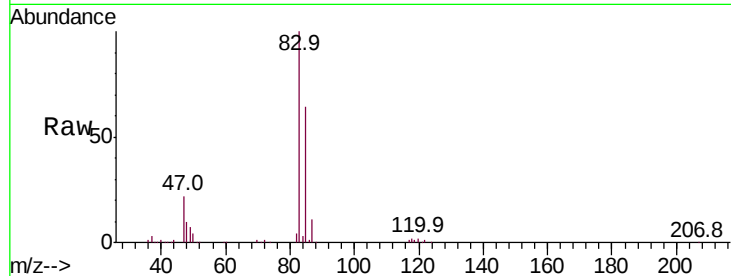
#25
Chloroform
Concen: 20.614 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion: 83 Resp: 481700
Ion Ratio Lower Upper
83 100
85 64.3 51.7 77.5

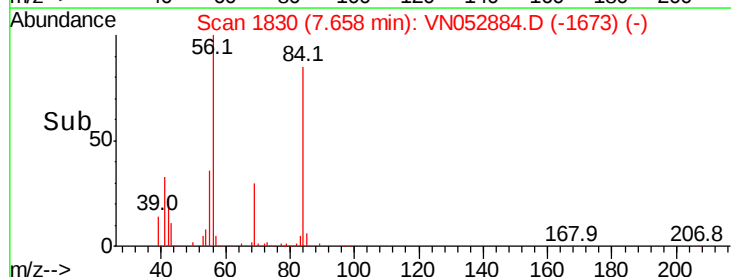
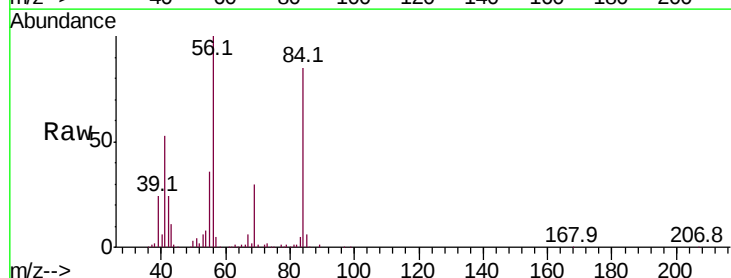
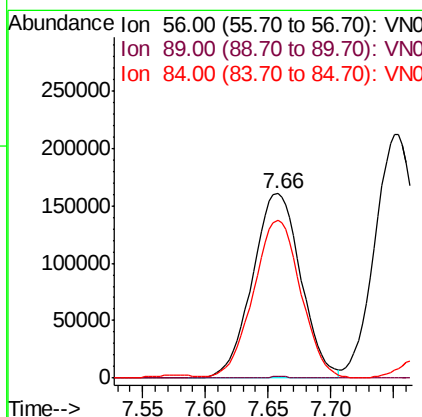
Manual Integrations
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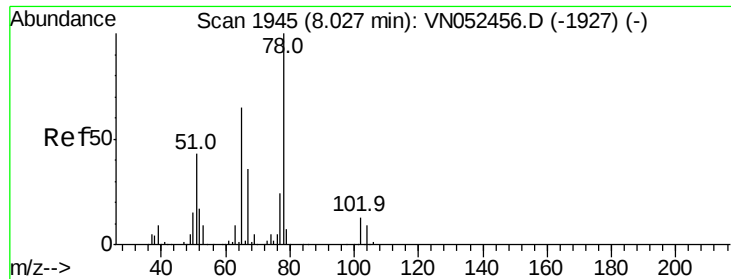
MMDadoda
12/17/2018 3:05:41 PM



#26
Cyclohexane
Concen: 18.887 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Tgt Ion: 56 Resp: 431483
Ion Ratio Lower Upper
56 100
89 0.5 0.5 0.7
84 84.1 66.2 99.2





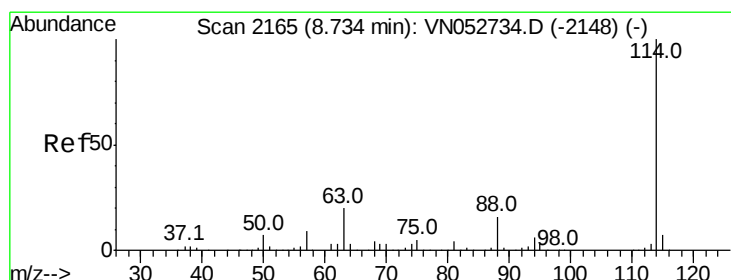
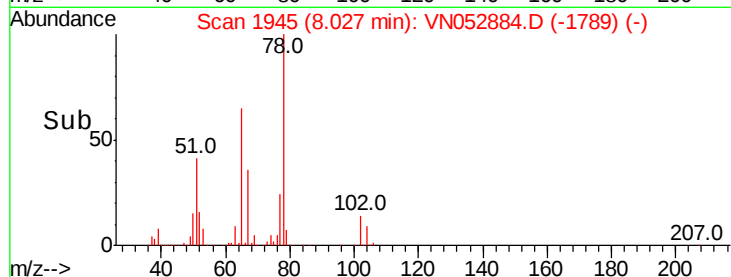
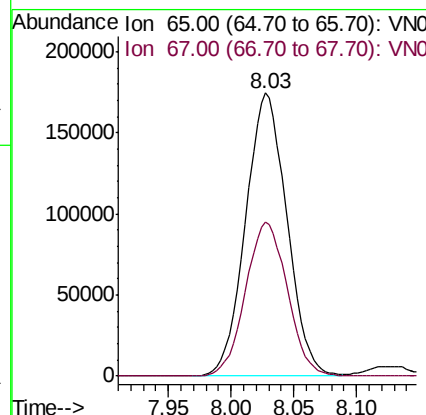
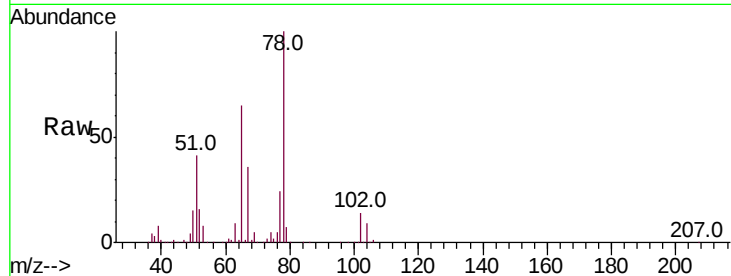
#27
 1,2-Dichloroethane-d4
 Concen: 18.887 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBSD01

Tot Ion: 65 Resp: 400315
 Ion Ratio Lower Upper
 65 100
 67 55.0 44.6 66.8

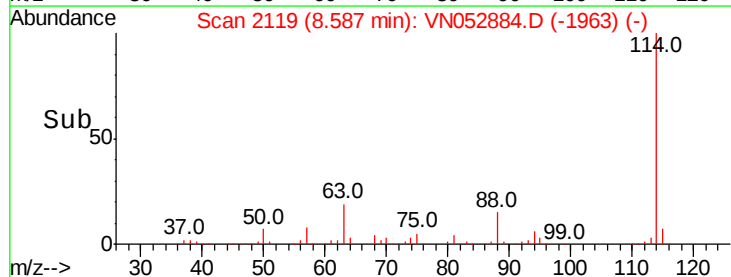
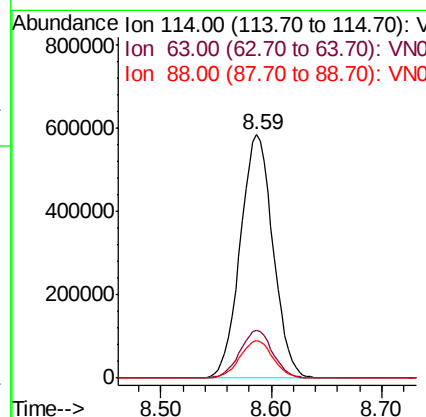
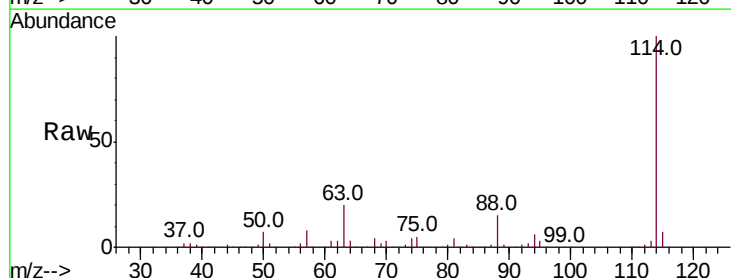
Manual Integrations
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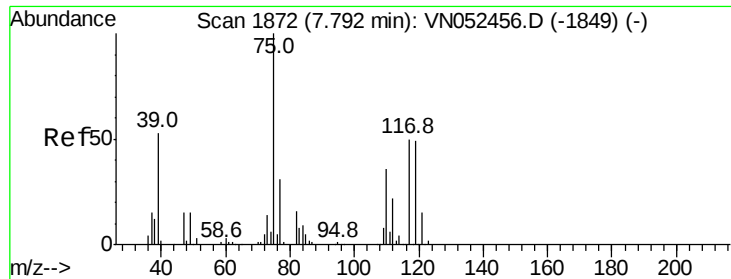
MMDadoda
 12/17/2018 3:05:41 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Tgt Ion: 114 Resp: 1201959
 Ion Ratio Lower Upper
 114 100
 63 19.7 16.9 25.3
 88 15.5 12.8 19.2





#29

1,1-Dichloropropene

Concen: 19.826 ug/l

RT: 7.80 min Scan# 1873

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

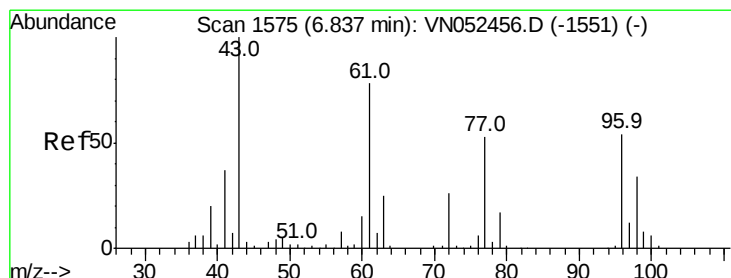
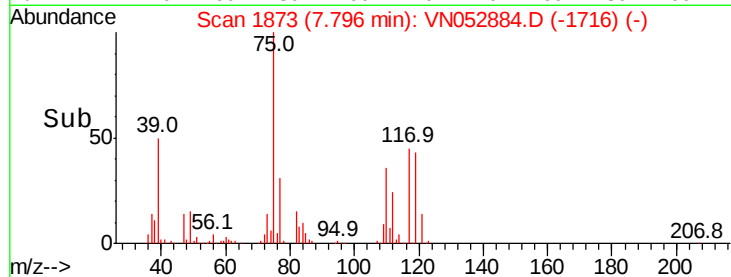
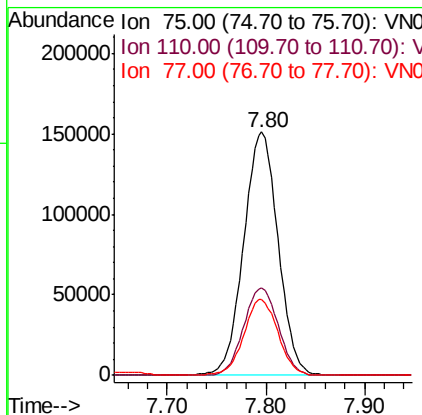
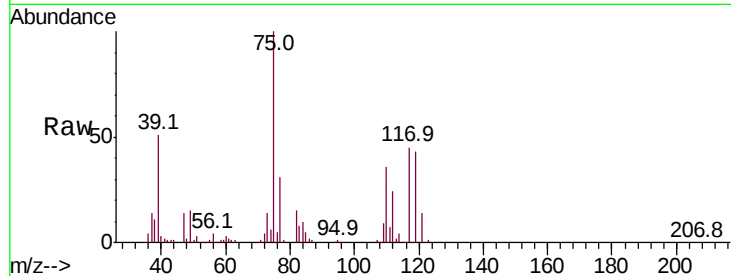
ClientSampleId :

VN1214WBSD01

Tot Ion:	75	Resp:	363911
Ion Ratio	Lower	Upper	
75	100		
110	36.0	0.0	70.2
77	31.1	0.0	62.6

Manual Integrations
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12/17/2018 3:05:41 PM



#30

2-Butanone

Concen: 92.431 ug/l

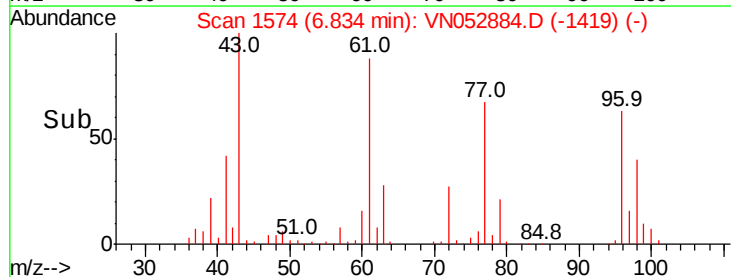
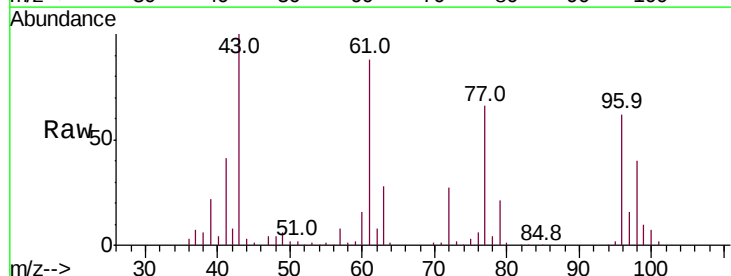
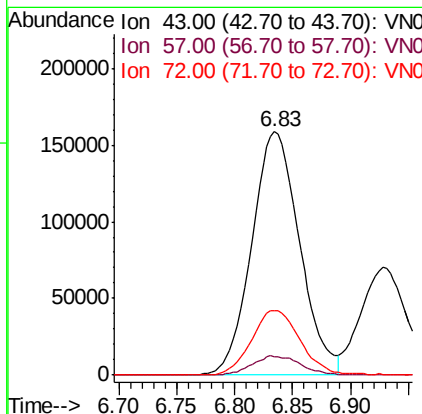
RT: 6.83 min Scan# 1574

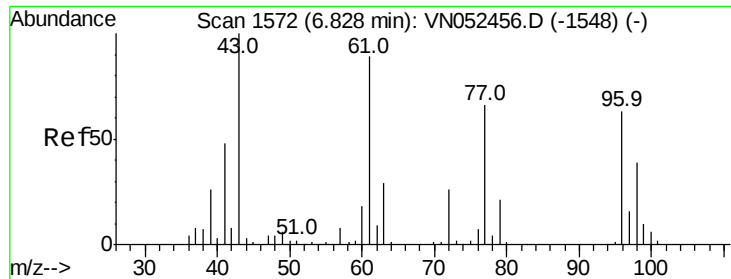
Delta R.T. -0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Tgt Ion:	43	Resp:	453978
Ion Ratio	Lower	Upper	
43	100		
57	8.1	6.2	9.4
72	27.3	21.0	31.6





#31

2,2-Dichloropropane

Concen: 20.677 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBSD01

Tot Ion: 77 Resp: 349397

Ion Ratio Lower Upper

77 100

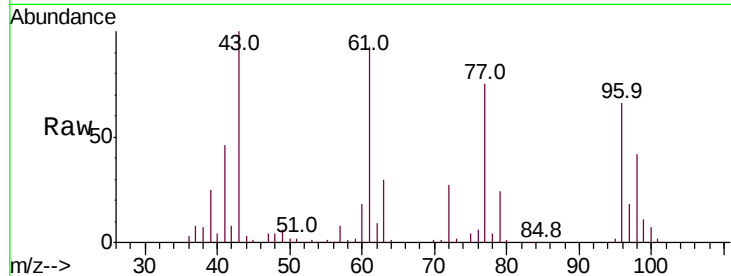
97 23.6 18.7 28.1

Manual Integrations

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Abundance Ion 77.00 (76.70 to 77.70): VN0

Ion 97.00 (96.70 to 97.70): VN0

6.83

120000

100000

80000

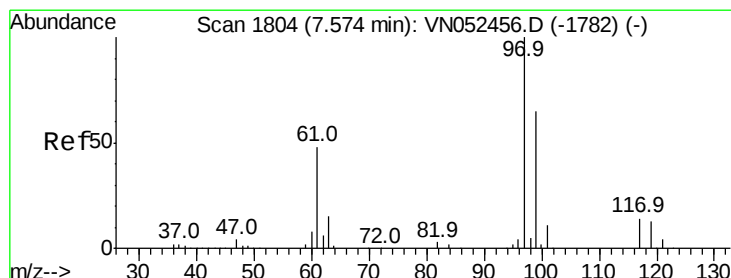
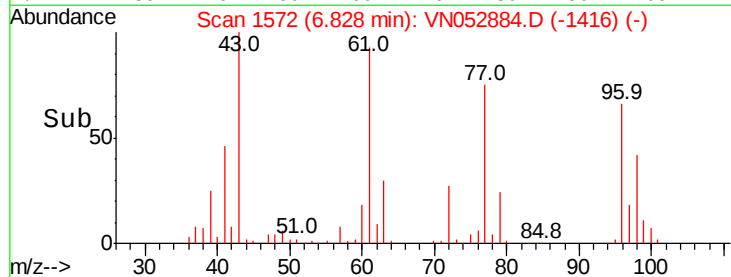
60000

40000

20000

0

Time-->



#32

1,1,1-Trichloroethane

Concen: 20.602 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

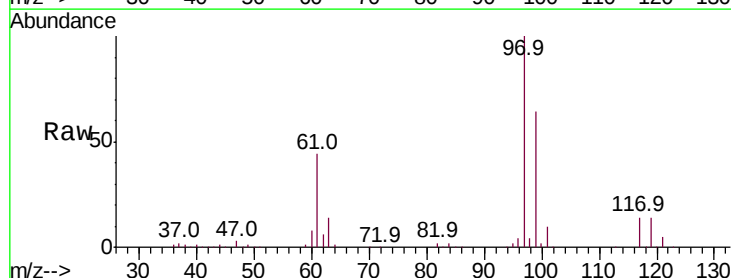
Tgt Ion: 97 Resp: 393486

Ion Ratio Lower Upper

97 100

99 64.2 50.9 76.3

61 44.6 38.1 57.1



Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 99.00 (98.70 to 99.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

200000

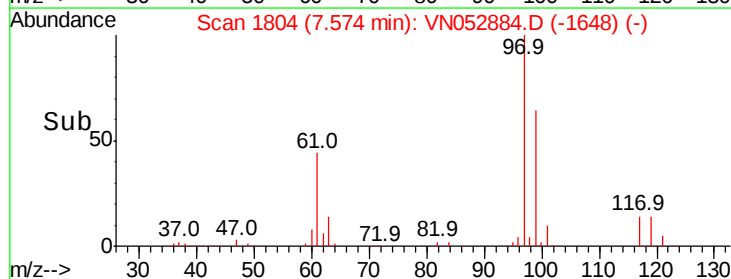
150000

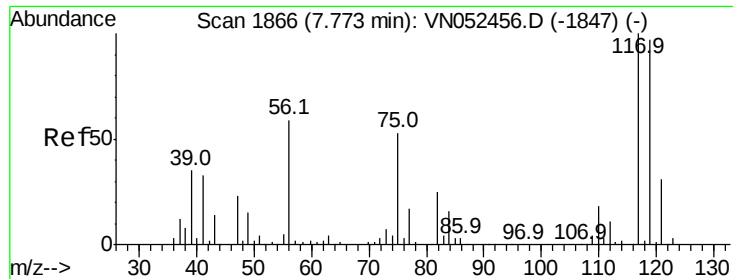
100000

50000

0

Time-->





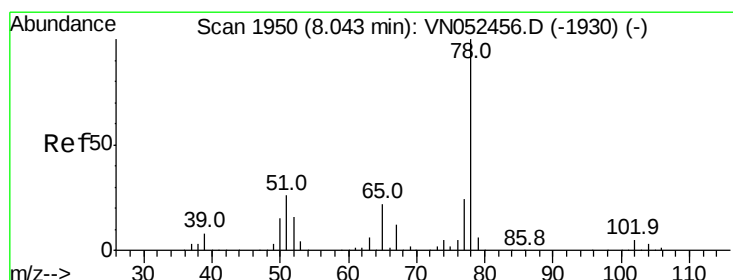
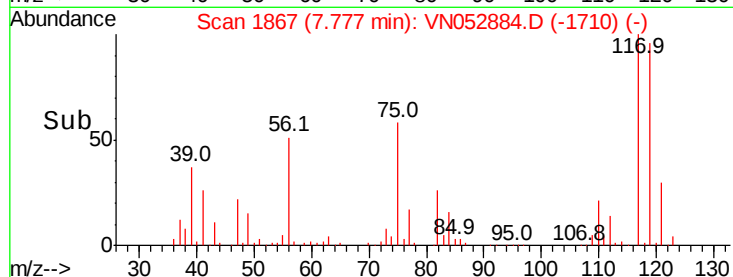
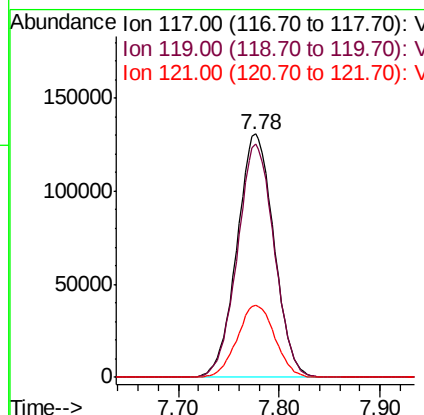
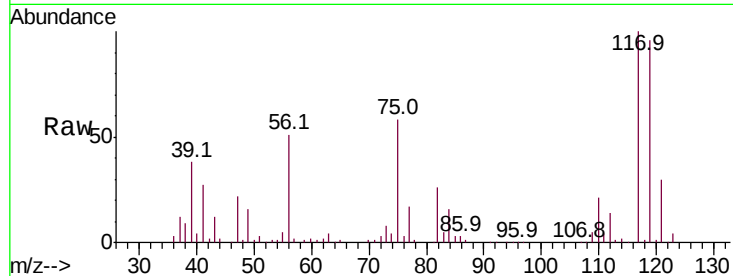
#33
Carbon Tetrachloride
Concen: 19.843 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.7	77.3	115.9
121	29.5	24.9	37.3

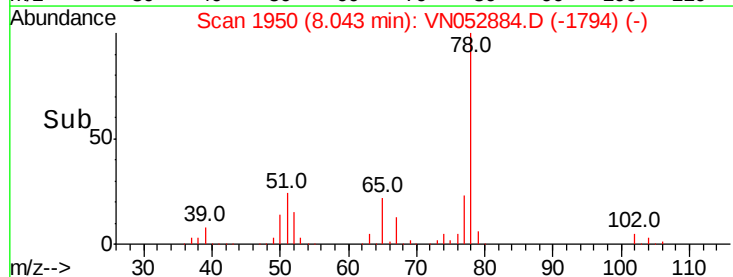
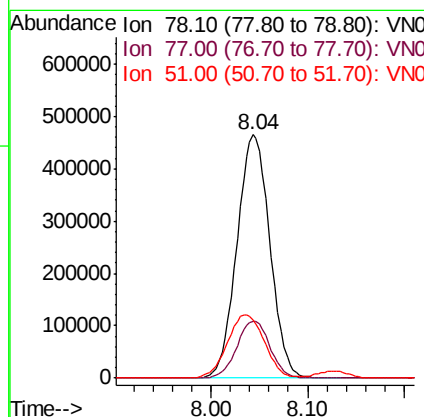
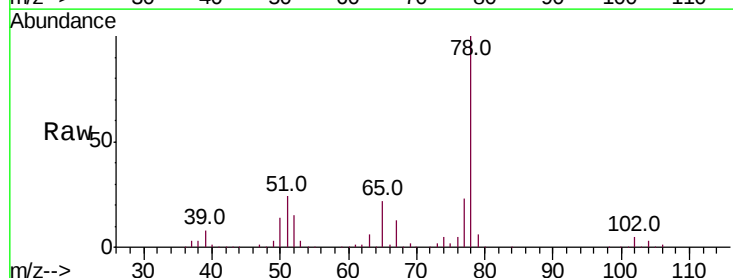
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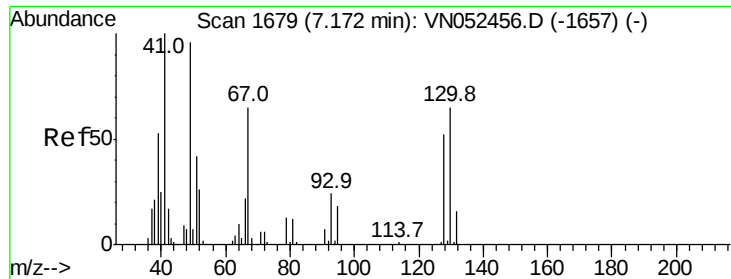
MMDadoda
12/17/2018 3:05:41 PM



#34
Benzene
Concen: 19.924 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.6
51	23.7	20.5	30.7





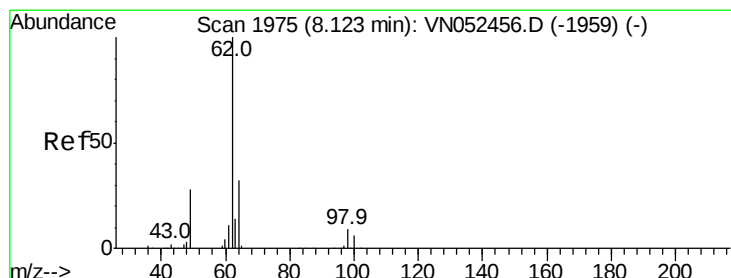
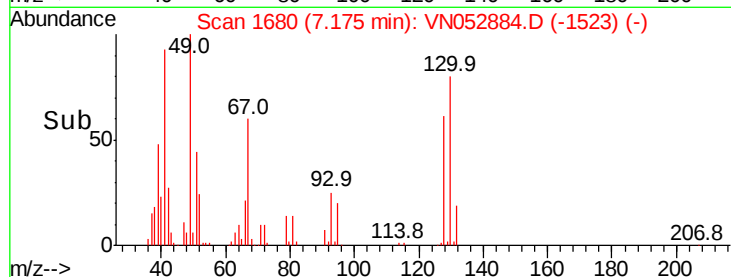
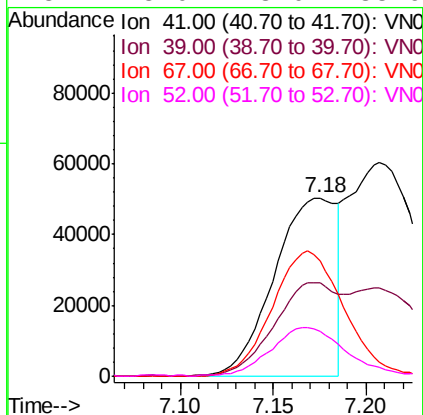
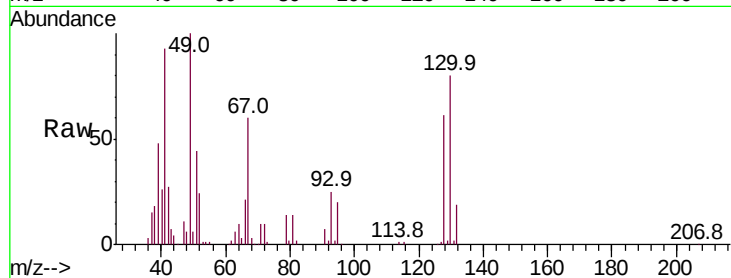
#35
Methacrylonitrile
Concen: 19.376 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion	41	Resp	118073
Ion Ratio	100	Lower	Upper
41	100		
39	51.8	26.6	79.7
67	64.5	32.3	96.9
52	25.0	13.0	38.9

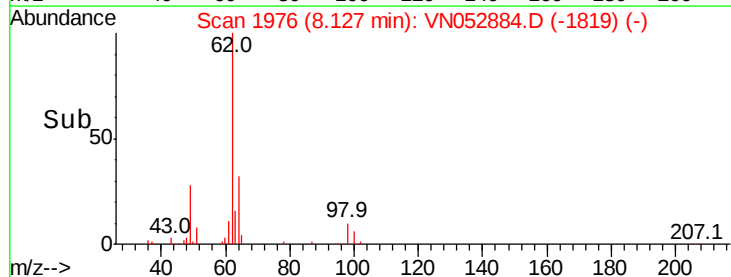
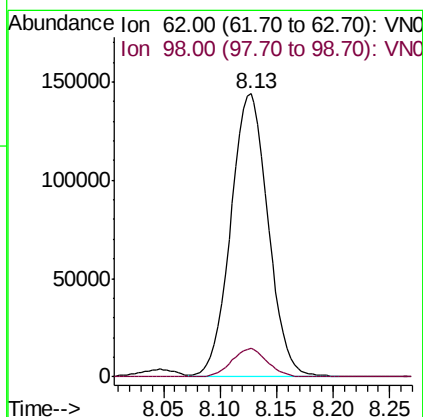
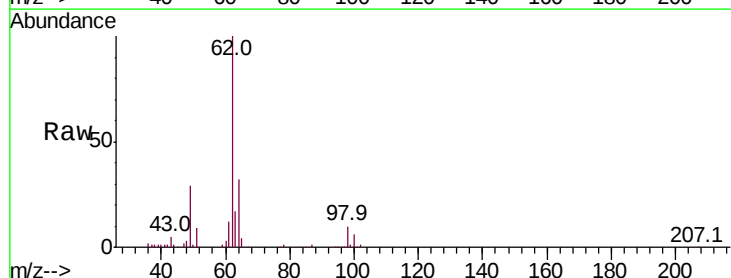
Manual Integrations
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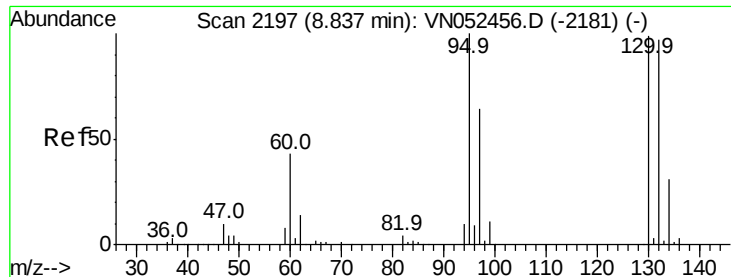
MMDadoda
12/17/2018 3:05:41 PM



#36
1,2-Dichloroethane
Concen: 19.835 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Tgt Ion	62	Resp	331701
Ion Ratio	100	Lower	Upper
62	100		
98	9.5	7.4	11.2





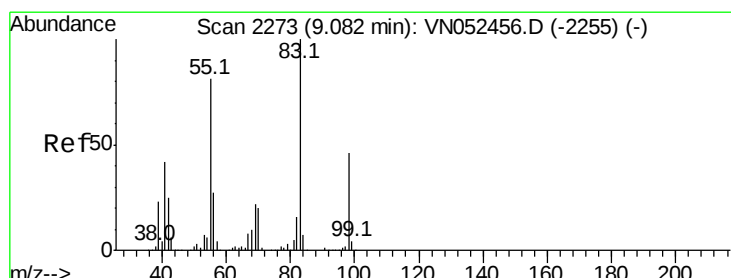
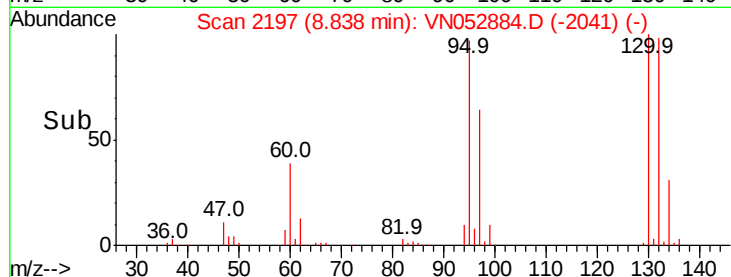
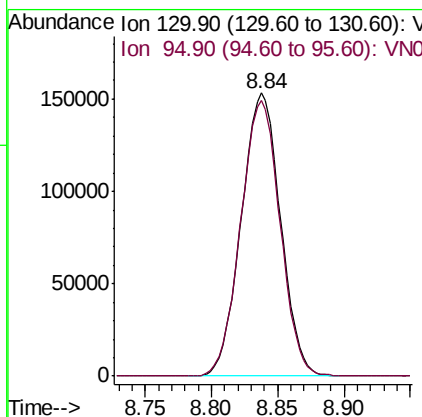
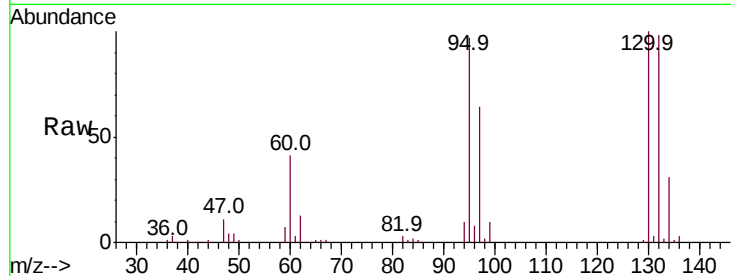
#37
 Trichloroethene
 Concen: 22.516 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBSD01

Tot Ion:130 Resp: 315079
 Ion Ratio Lower Upper
 130 100
 95 97.3 81.0 121.4

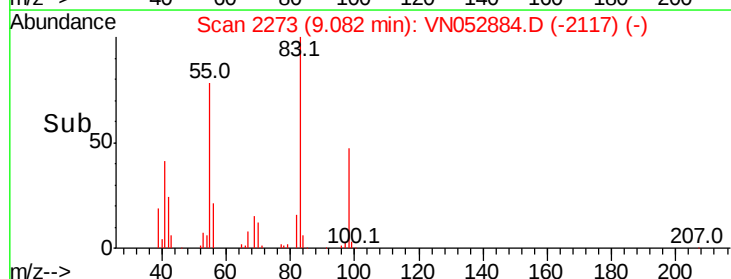
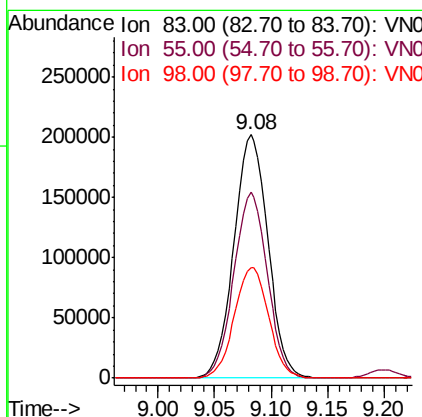
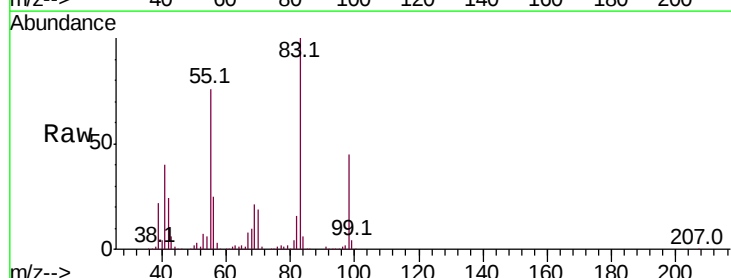
Manual Integrations
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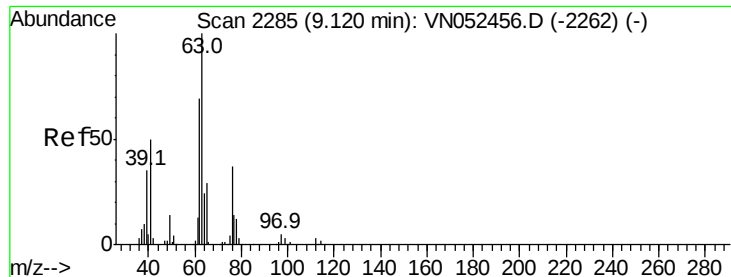
MMDadoda
 12/17/2018 3:05:41 PM



#38
 Methylcyclohexane
 Concen: 18.701 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Tgt Ion: 83 Resp: 424931
 Ion Ratio Lower Upper
 83 100
 55 75.1 39.8 119.4
 98 45.9 22.9 68.5





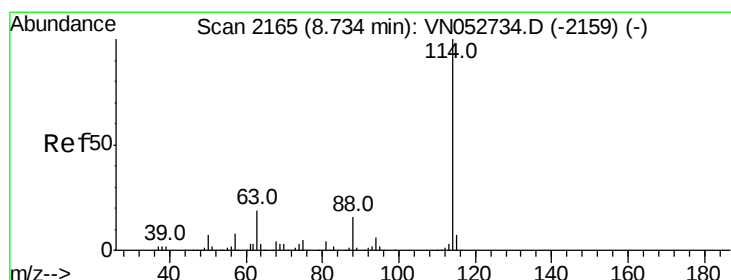
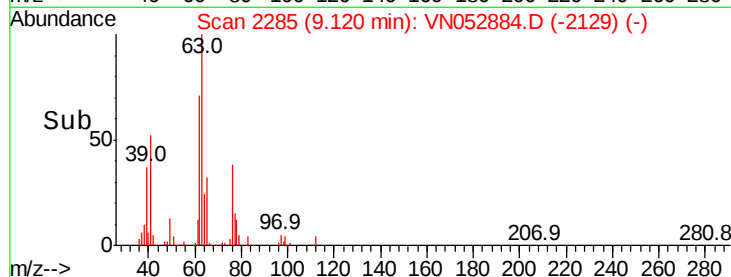
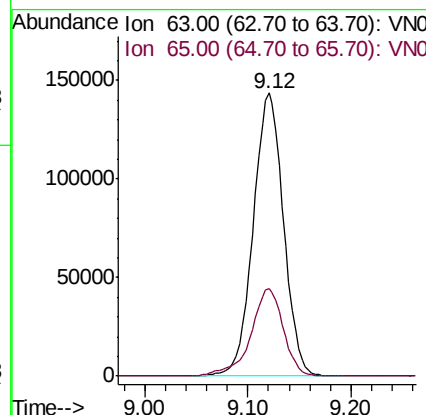
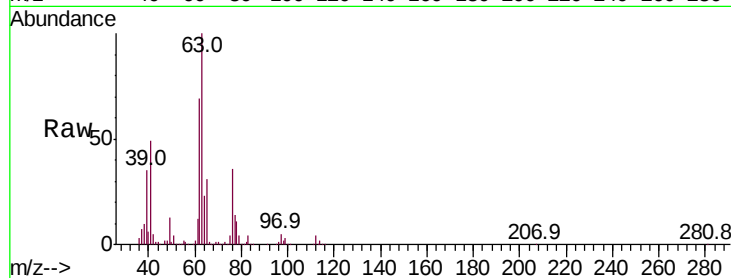
#39
 1,2-Dichloropropane
 Concen: 19.727 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.7	23.6	35.4

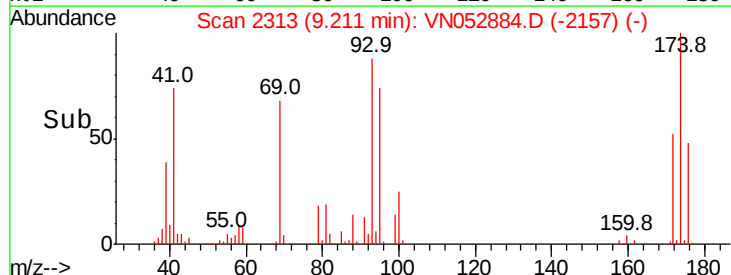
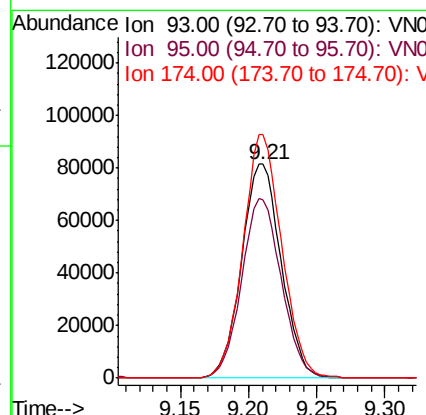
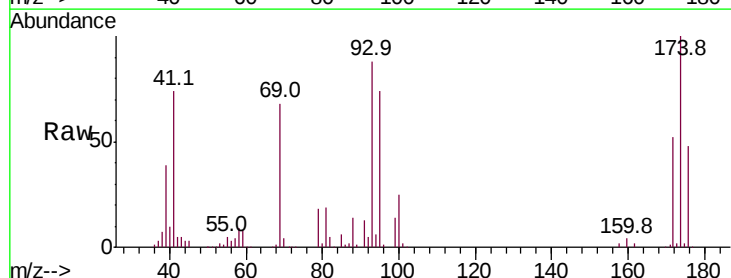
Manual Integrations
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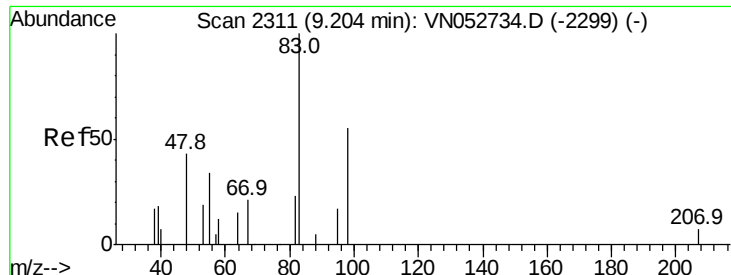
MMDadoda
 12/17/2018 3:05:41 PM



#40
 Dibromomethane
 Concen: 20.529 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.4	0.0	168.4
174	111.9	0.0	210.0





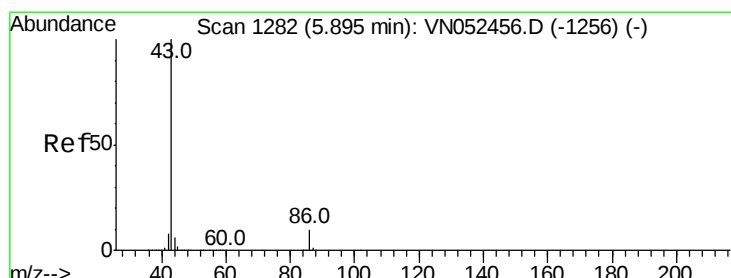
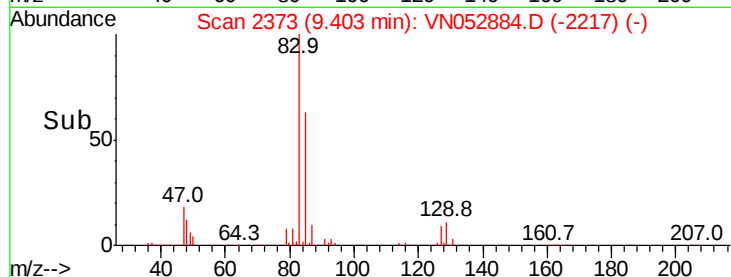
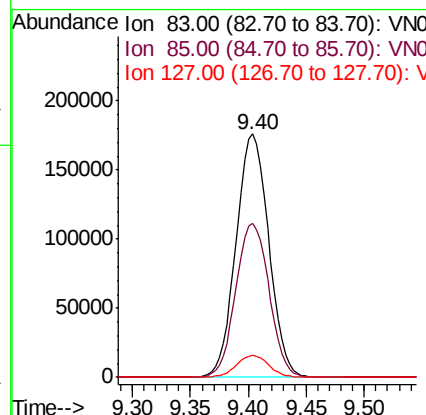
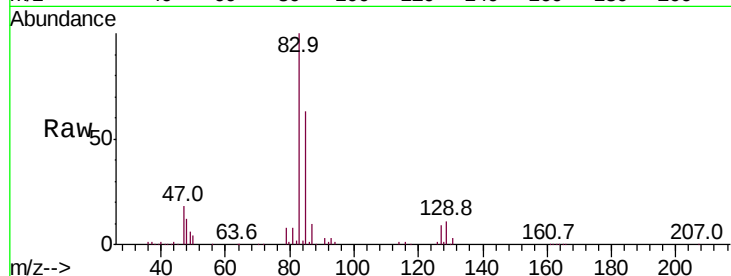
#41
Bromodichloromethane
Concen: 19.584 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion	83	85	127	Ratio	Lower	Upper
83	100					
85	63.1	52.4	78.6			
127	8.9	6.6	9.8			

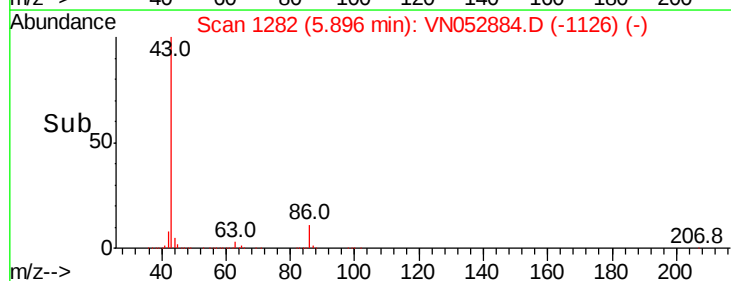
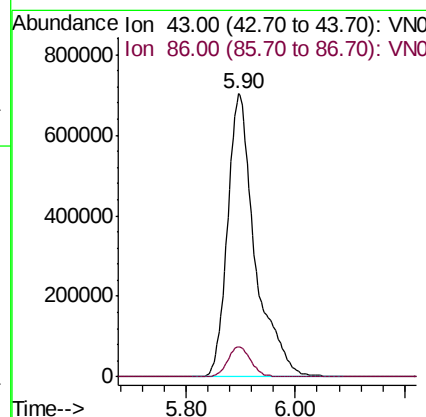
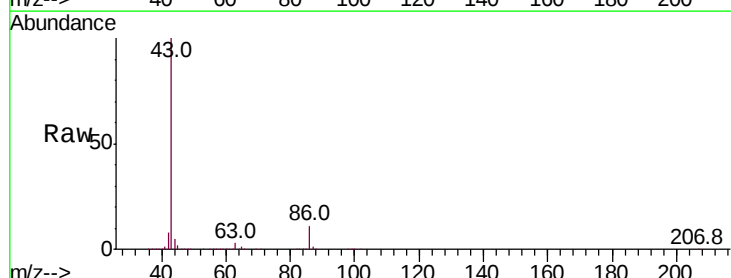
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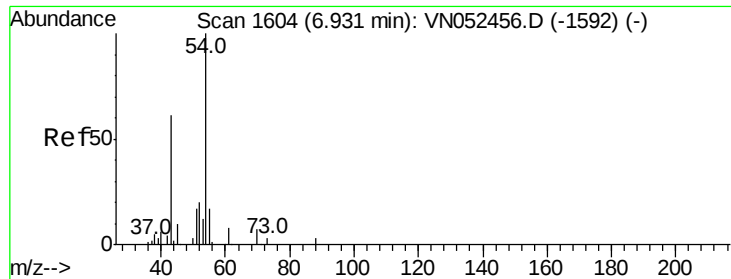
MMDadoda
12/17/2018 3:05:41 PM



#42
Vinyl Acetate
Concen: 92.355 ug/l
RT: 5.90 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Tgt Ion	43	86	Ratio	Lower	Upper
43	100				
86	9.0	6.5	9.7		





#43

Ethyl Acetate

Concen: 19.181 ug/l

RT: 6.93 min Scan# 1603

Delta R.T. -0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBSD01

Tot Ion: 43 Resp: 200326

Ion Ratio Lower Upper

43 100

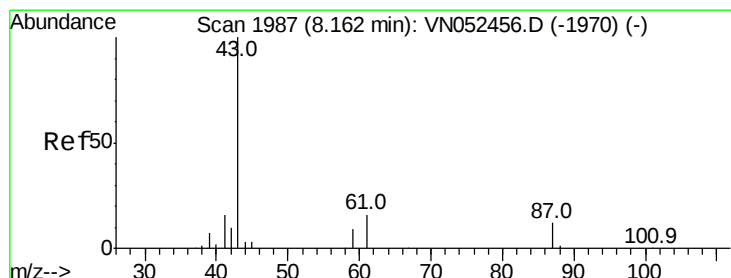
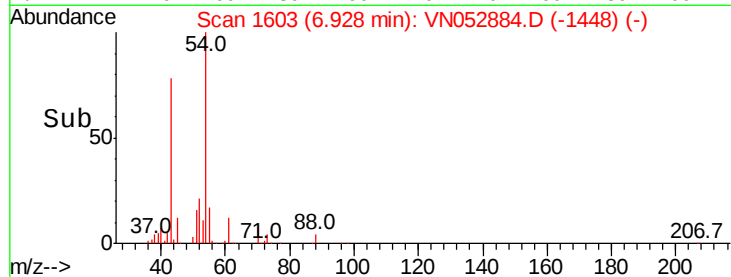
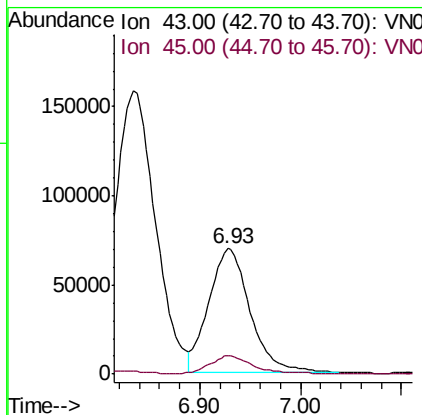
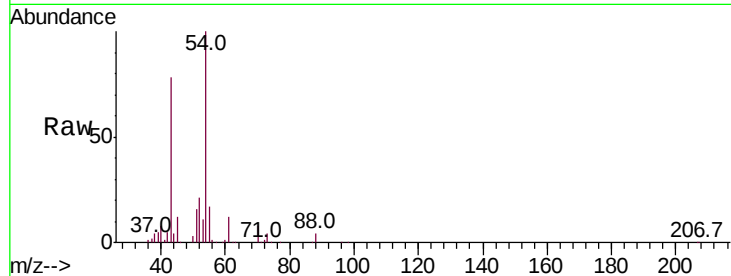
45 13.7 1.0 1.6#

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#44

Isopropyl Acetate

Concen: 20.498 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN052884.D

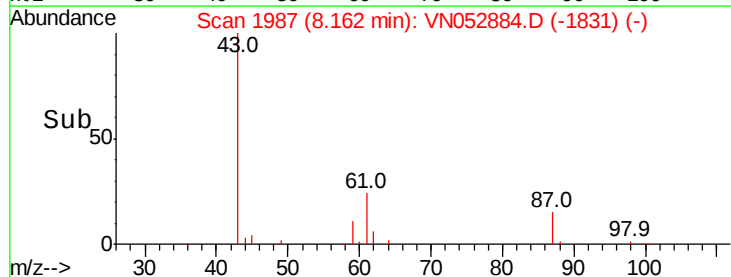
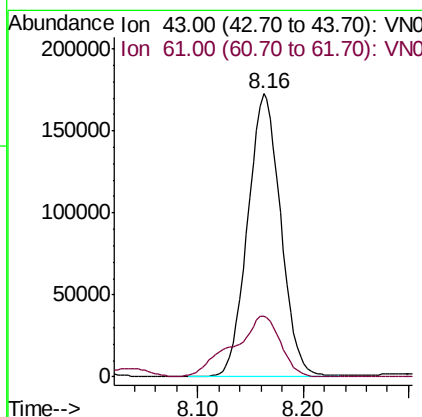
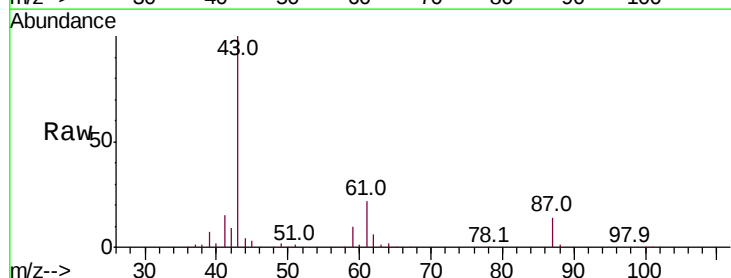
Acq: 14 Dec 2018 13:03

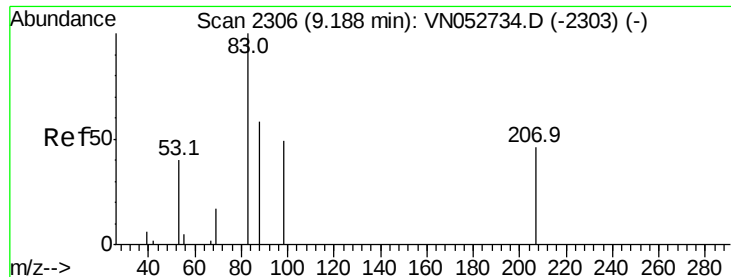
Tgt Ion: 43 Resp: 375455

Ion Ratio Lower Upper

43 100

61 30.9 16.0 24.0#





#45

1,4-Dioxane

Concen: 396.205 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

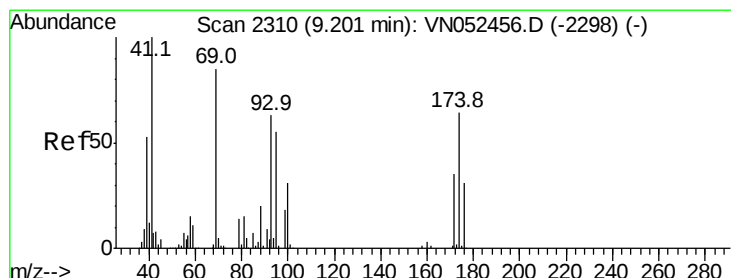
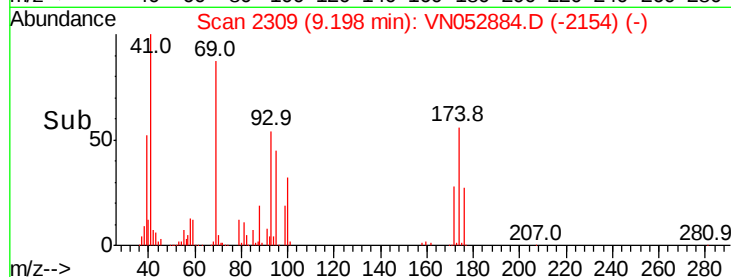
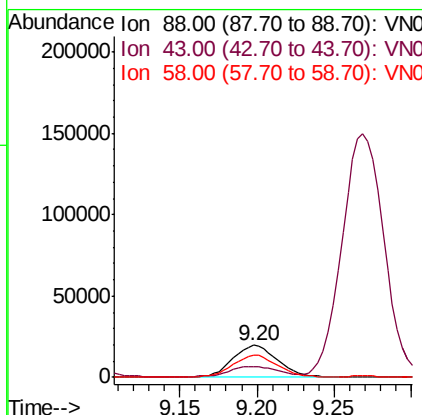
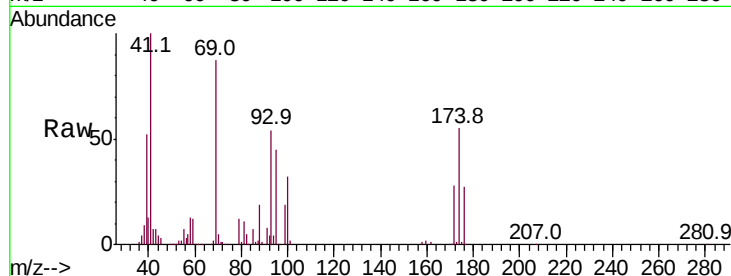
ClientSampleId :

VN1214WBSD01

Tot Ion:	88	Resp:	39701
Ion Ratio	Lower	Upper	
88	100		
43	35.3	29.5	44.3
58	70.1	61.5	92.3

Manual Integrations
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#46

Methyl methacrylate

Concen: 19.851 ug/l

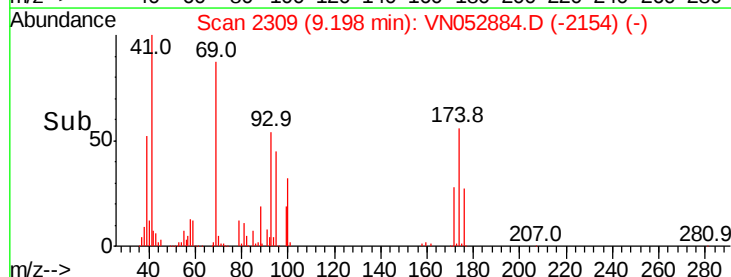
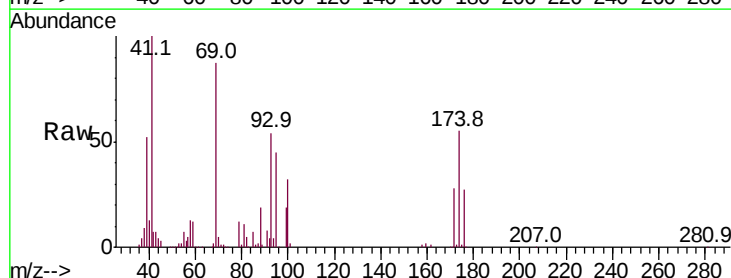
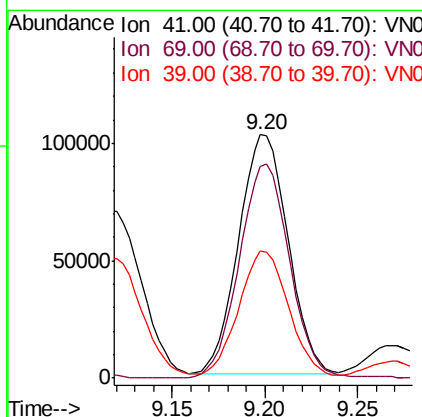
RT: 9.20 min Scan# 2309

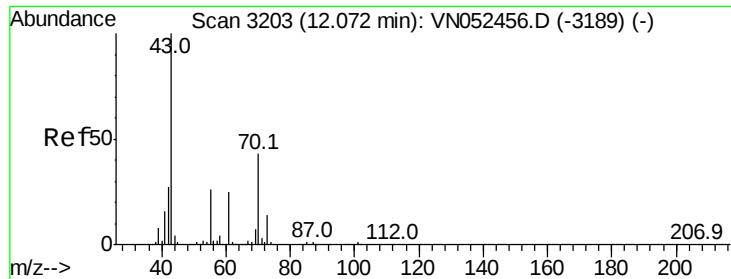
Delta R.T. -0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Tgt Ion:	41	Resp:	188789
Ion Ratio	Lower	Upper	
41	100		
69	88.5	42.5	127.6
39	52.0	26.3	78.9





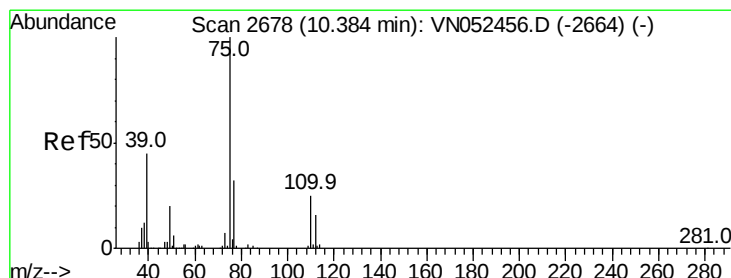
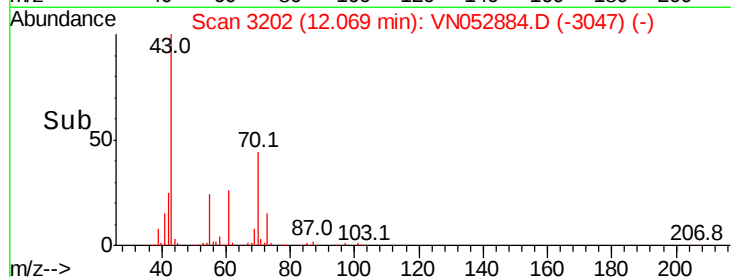
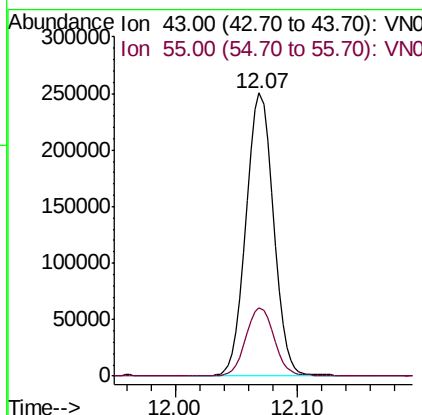
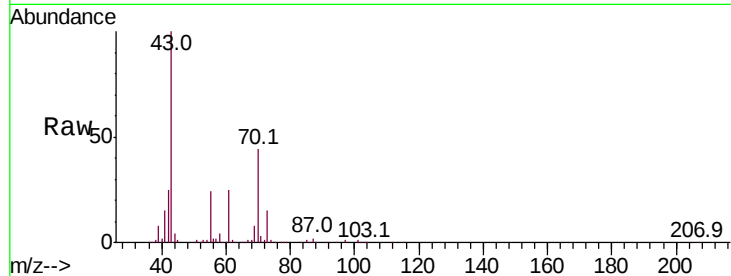
#47
n-amvl Acetate
Concen: 25.387 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion: 43 Resp: 385547
Ion Ratio Lower Upper
43 100
55 25.0 21.1 31.7

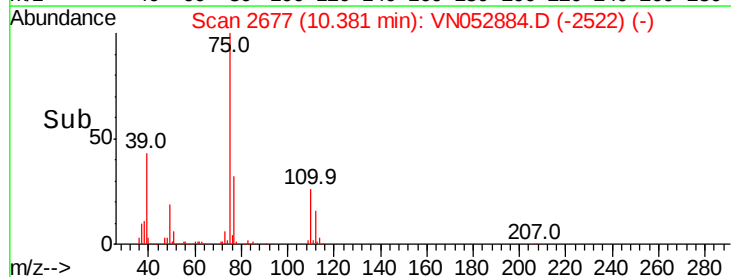
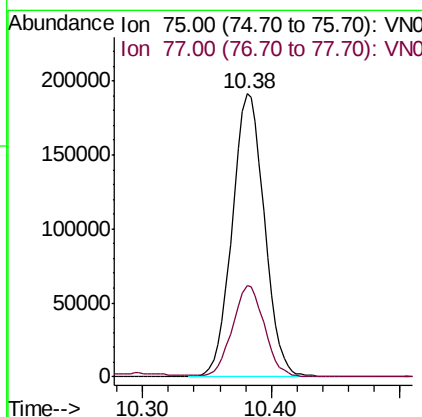
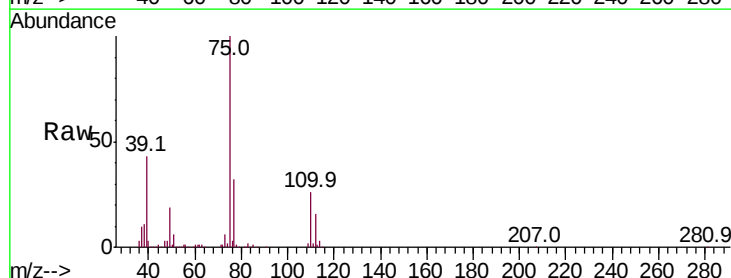
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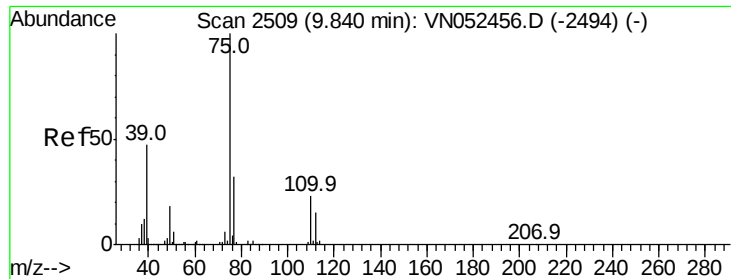
MMDadoda
12/17/2018 3:05:41 PM



#48
t-1,3-Dichloropropene
Concen: 19.411 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Tgt Ion: 75 Resp: 332408
Ion Ratio Lower Upper
75 100
77 31.9 25.6 38.4





#49

cis-1,3-Dichloropropene

Concen: 19.692 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN052884.D

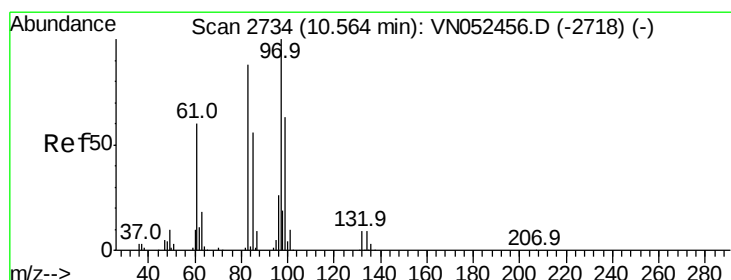
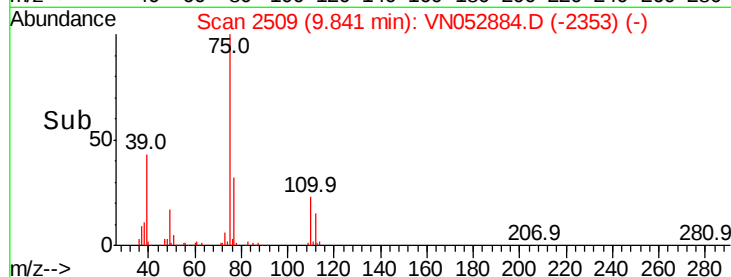
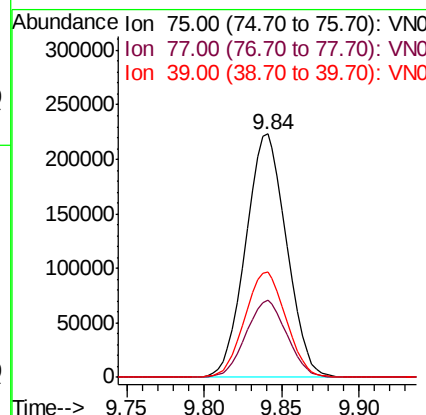
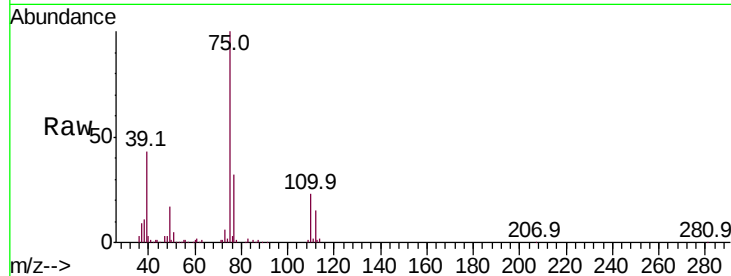
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.0
39	42.9	37.3	55.9

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#50

1,1,2-Trichloroethane

Concen: 20.691 ug/l

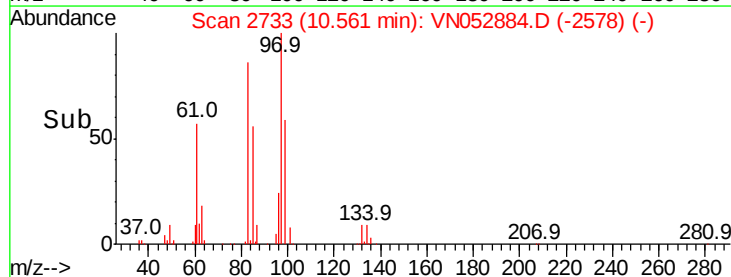
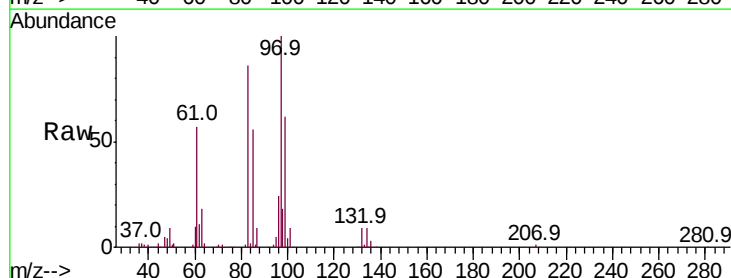
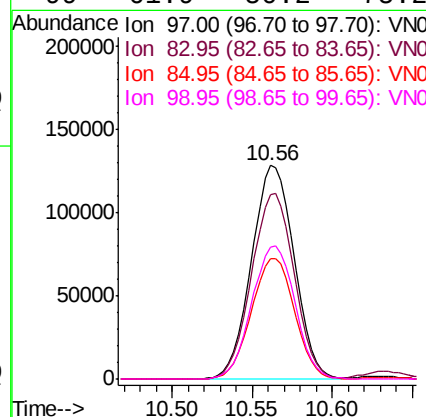
RT: 10.56 min Scan# 2733

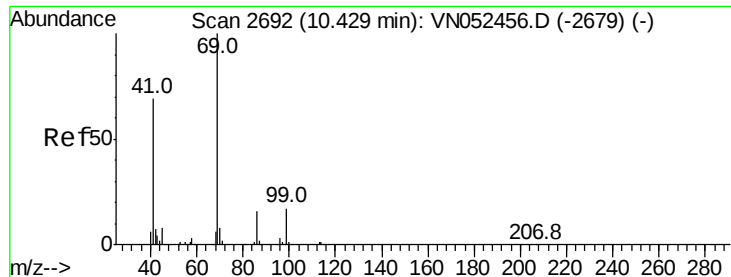
Delta R.T. -0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.3	70.4	105.6
85	56.5	45.0	67.6
99	61.9	50.2	75.2





#51

Ethyl methacrylate

Concen: 21.820 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

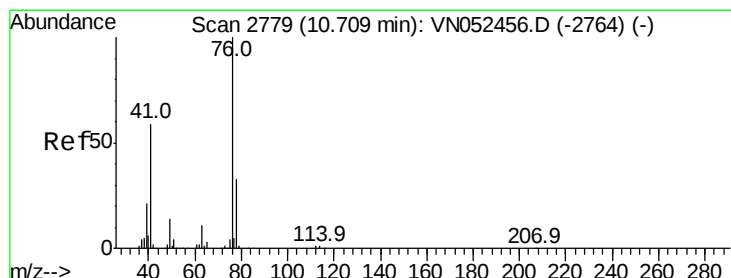
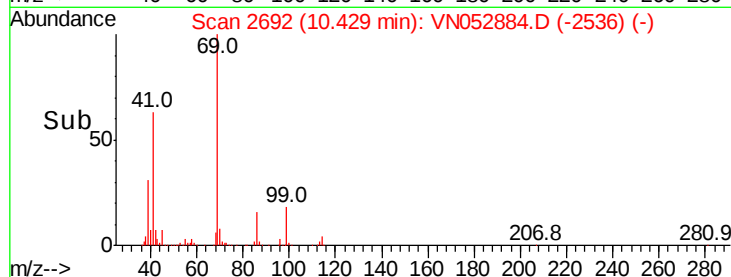
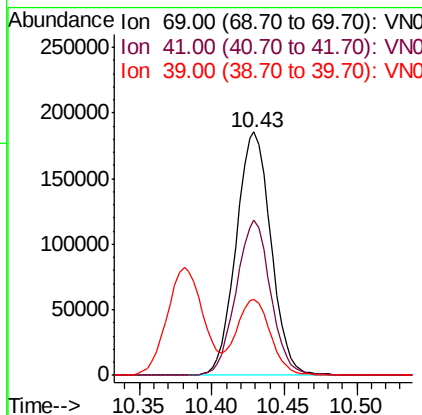
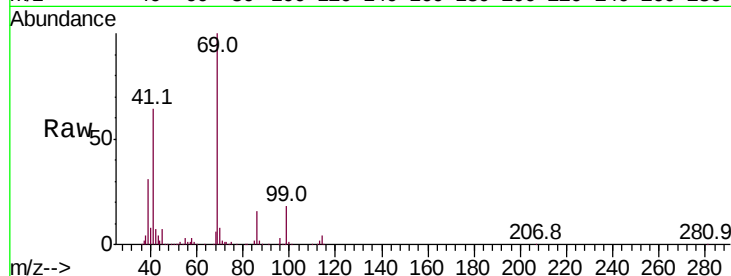
ClientSampleId :

VN1214WBSD01

Tot Ion:	69	Resp:	310539
Ion	Ratio	Lower	Upper
69	100		
41	63.3	34.4	103.3
39	31.1	16.4	49.2

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 19.849 ug/l

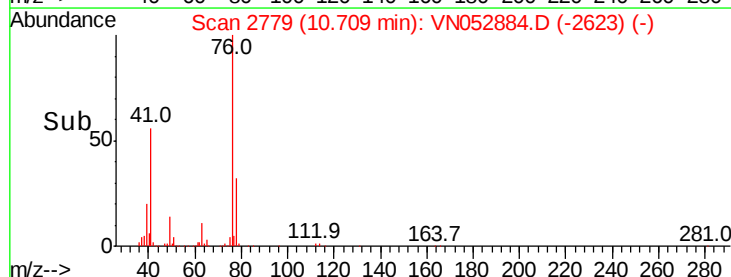
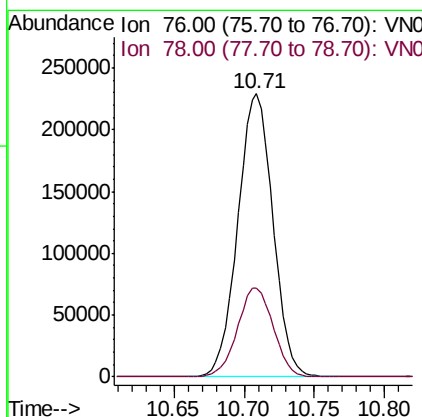
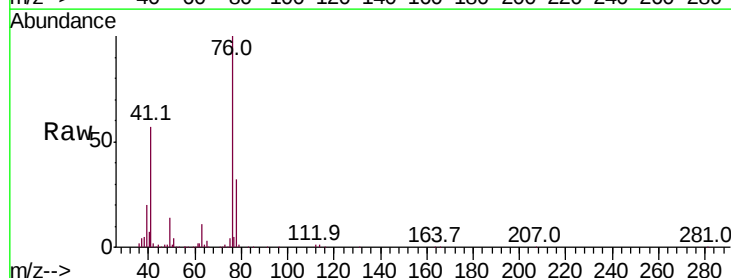
RT: 10.71 min Scan# 2779

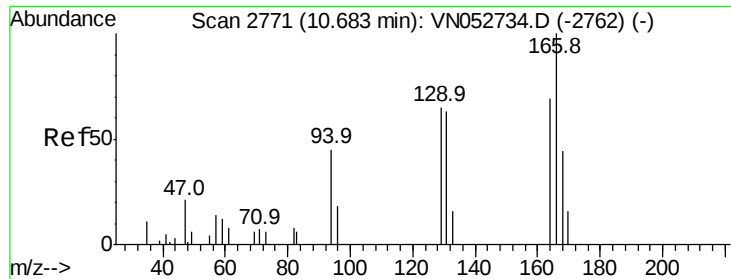
Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Tgt Ion:	76	Resp:	400351
Ion	Ratio	Lower	Upper
76	100		
78	32.1	0.0	64.8





#53

Dibromochloromethane

Concen: 19.274 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBSD01

Tot Ion:129 Resp: 240450

Ion Ratio Lower Upper

129 100

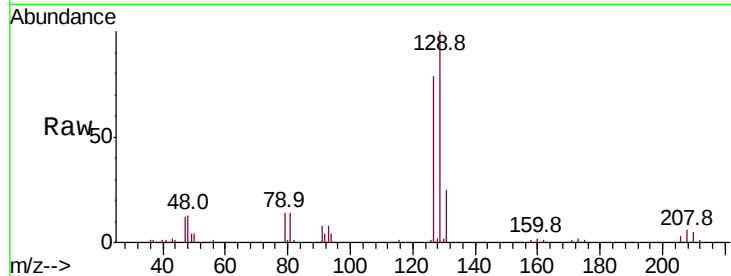
127 78.1 37.6 112.8

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.90

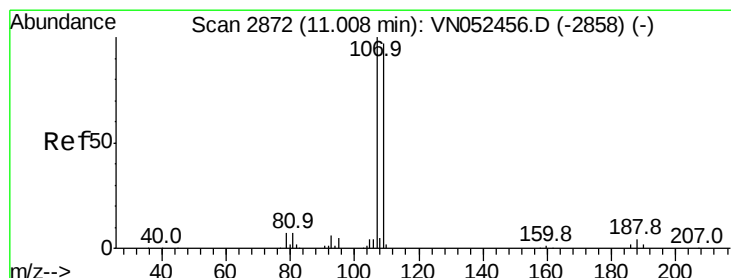
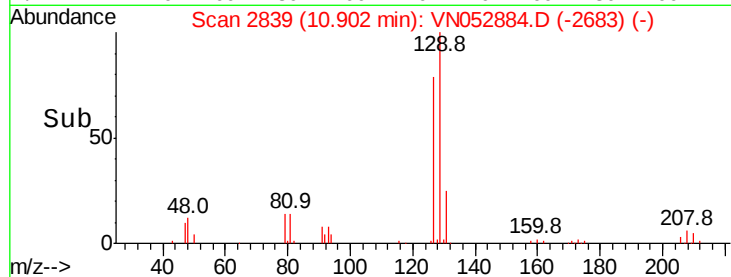
150000

100000

50000

0

Time-->



#54

1,2-Dibromoethane

Concen: 20.100 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052884.D

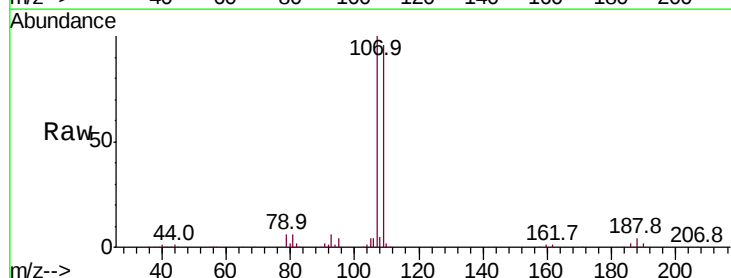
Acq: 14 Dec 2018 13:03

Tgt Ion:107 Resp: 222559

Ion Ratio Lower Upper

107 100

109 95.9 77.1 115.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

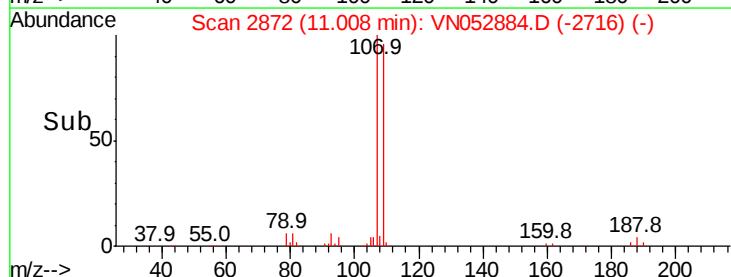
11.01

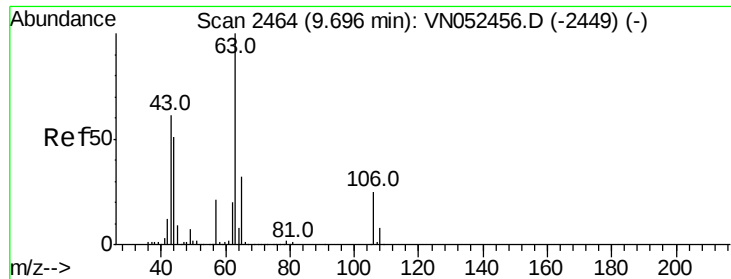
100000

50000

0

Time-->





#55

2-Chloroethyl vinyl ether

Concen: 102.472 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

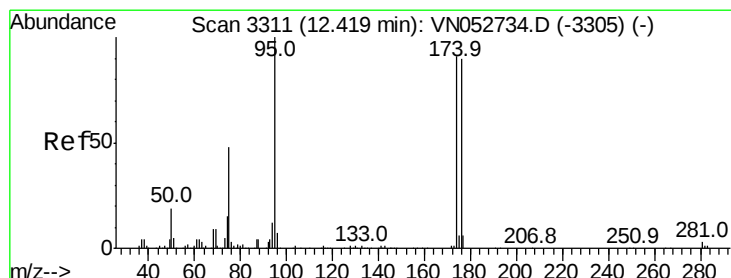
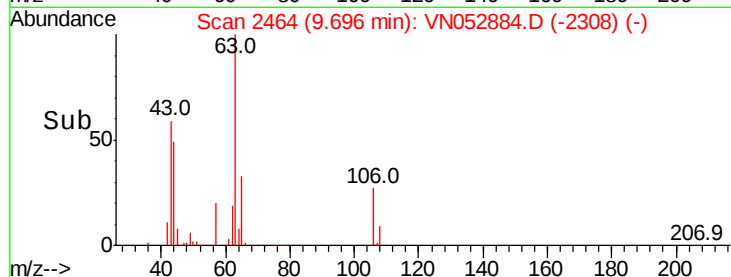
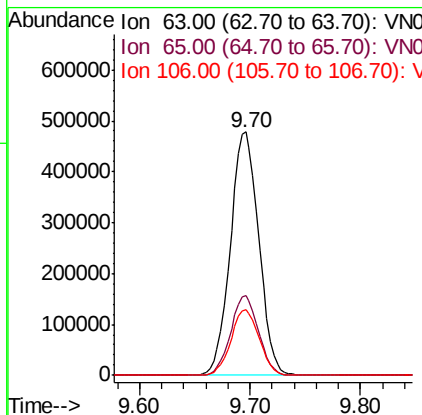
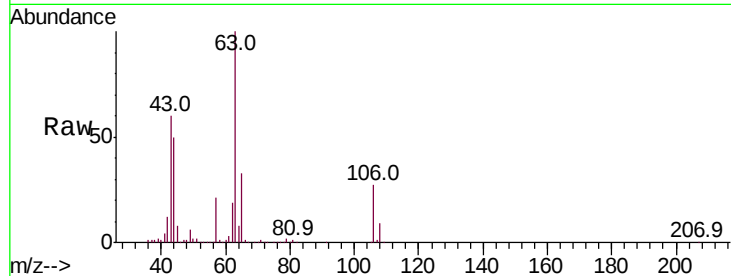
ClientSampleId :

VN1214WBSD01

Tot Ion:	63	Resp:	853647
Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.4	38.2
106	26.9	20.4	30.6

Manual Integrations
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#56

Bromoform

Concen: 17.305 ug/l

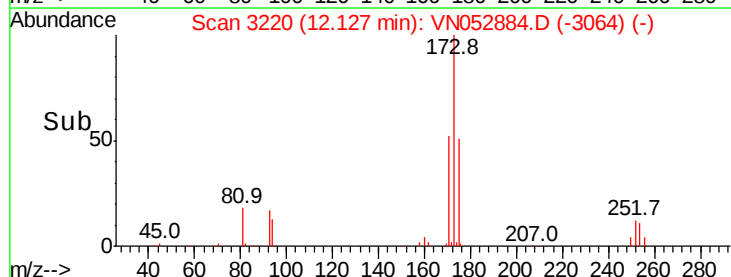
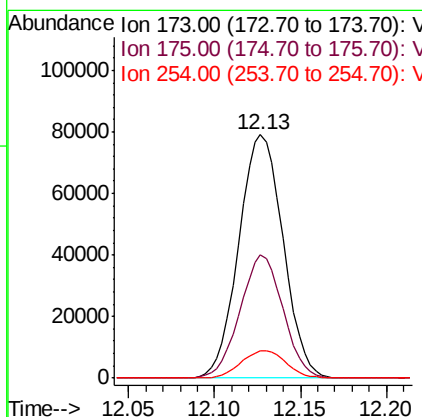
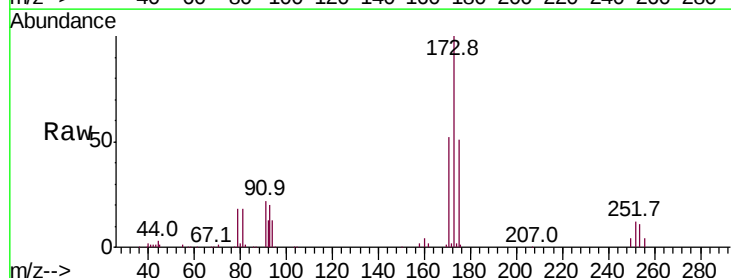
RT: 12.13 min Scan# 3220

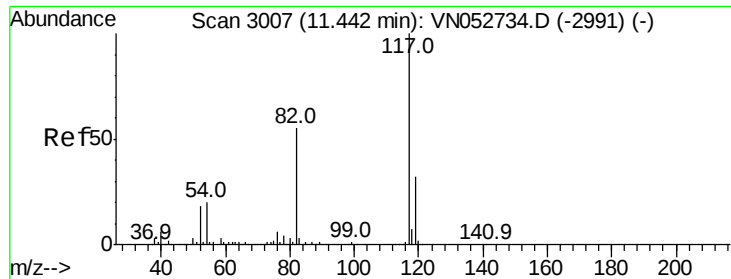
Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Tgt Ion:	173	Resp:	141111
Ion	Ratio	Lower	Upper
173	100		
175	49.1	38.7	58.1
254	11.4	8.4	12.6





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBSD01

Tot Ion:117 Resp: 1036089

Ion Ratio Lower Upper

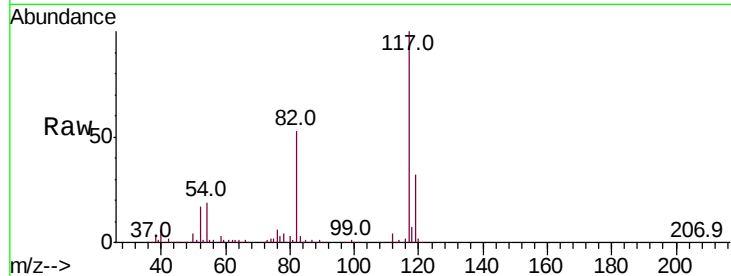
117 100

82 53.3 44.2 66.2

119 32.1 25.4 38.2

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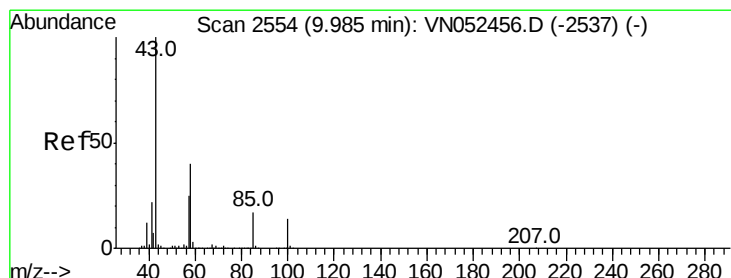
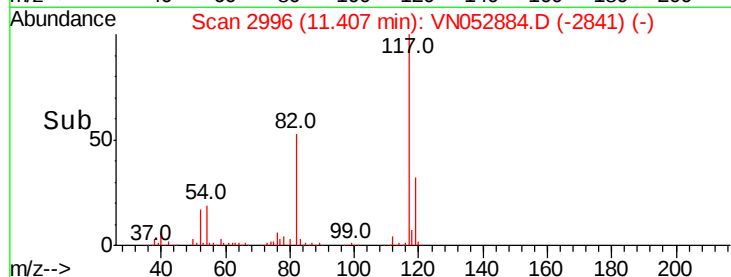
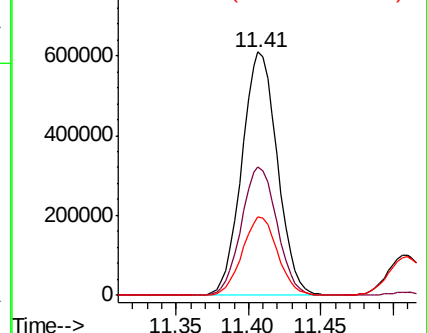
MMDadoda
12/17/2018 3:05:41 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VN

Ion 119.00 (118.70 to 119.70): V



#58

4-Methyl-2-Pentanone

Concen: 106.226 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

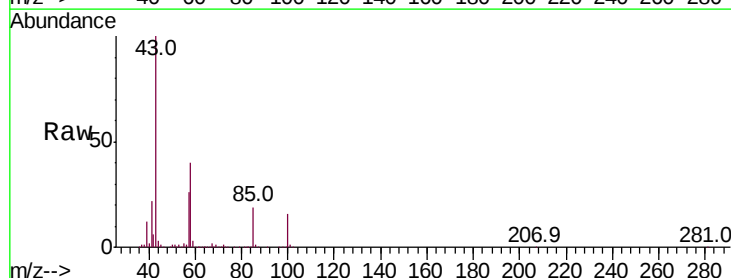
Tgt Ion: 43 Resp: 1066998

Ion Ratio Lower Upper

43 100

58 40.5 31.6 47.4

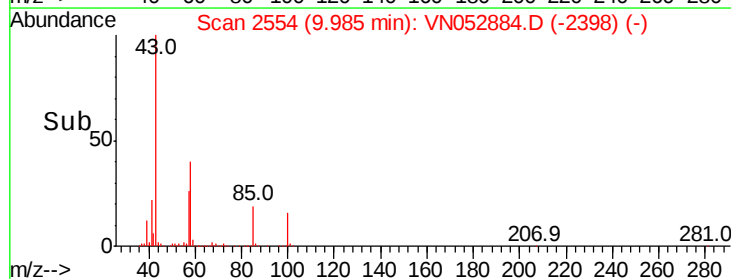
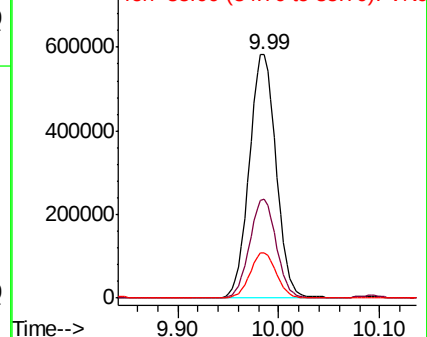
85 18.2 13.3 19.9

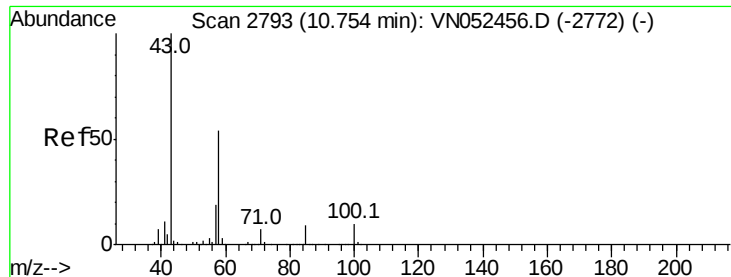


Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

Ion 85.00 (84.70 to 85.70): VN





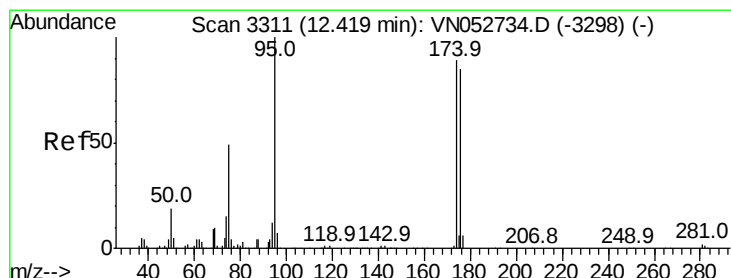
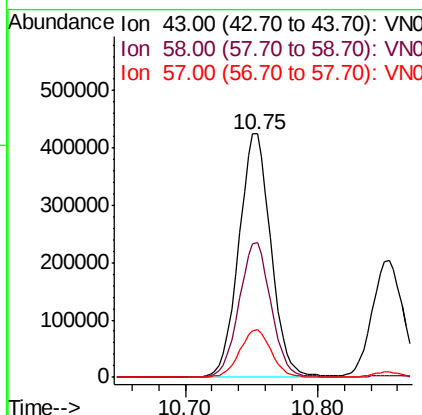
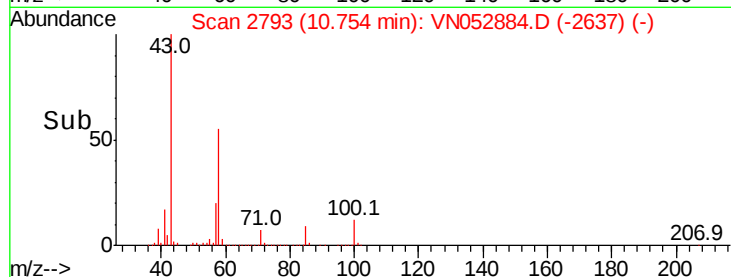
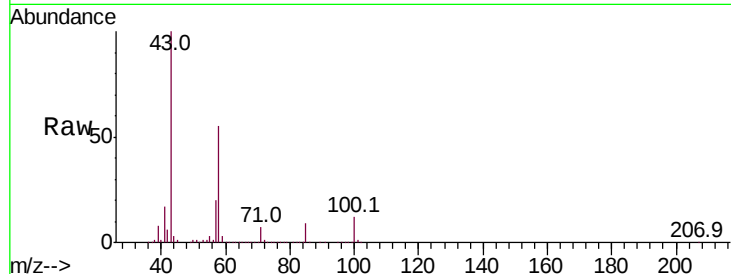
#59
2-Hexanone
Concen: 103.812 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.4	43.2	64.8
57	19.3	14.9	22.3

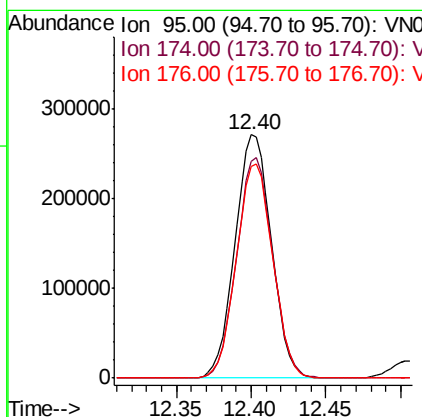
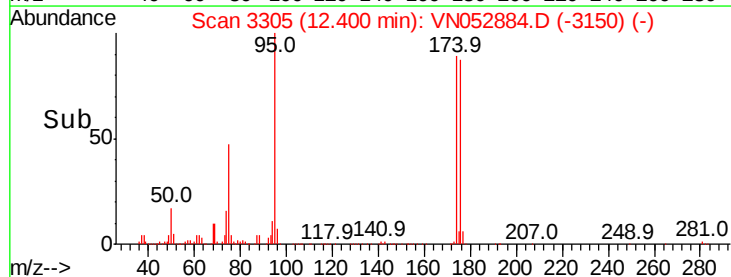
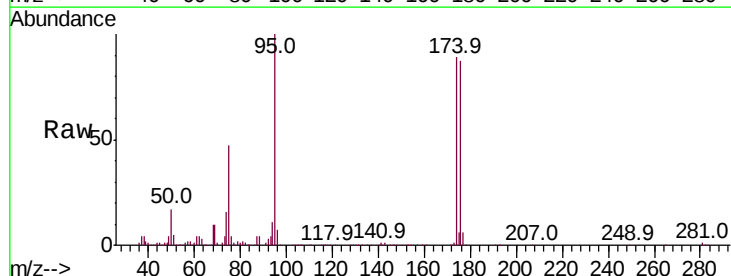
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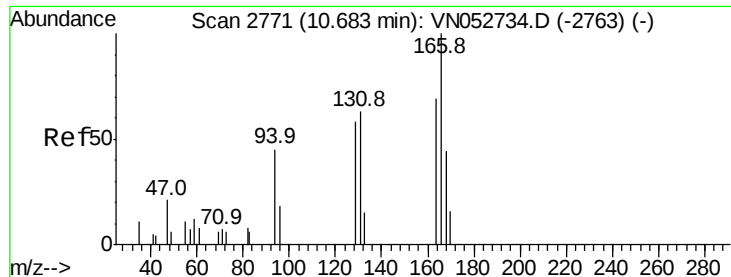
MMDadoda
12/17/2018 3:05:41 PM



#60
4-Bromofluorobenzene
Concen: 103.812 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.6	67.9	101.9
176	88.0	66.4	99.6





#61

Tetrachloroethene

Concen: 30.232 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBSD01

Tot Ion:164 Resp: 385787

Ion Ratio Lower Upper

164 100

166 127.0 104.6 157.0

129 90.5 75.3 112.9

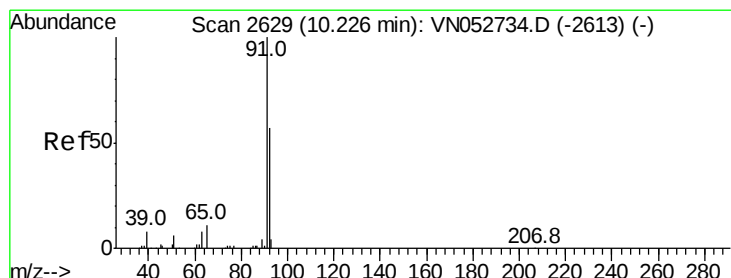
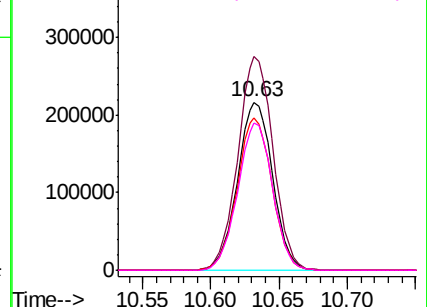
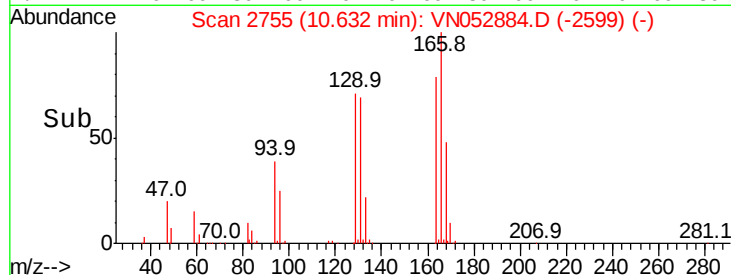
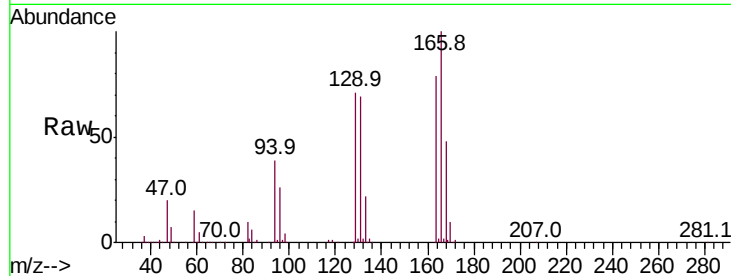
131 87.2 74.3 111.5

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#62

Toluene

Concen: 20.589 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052884.D

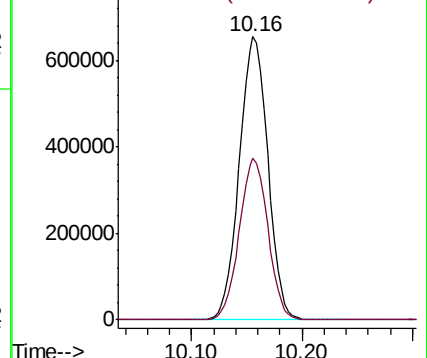
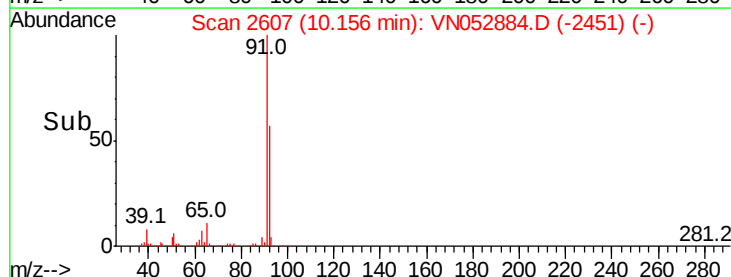
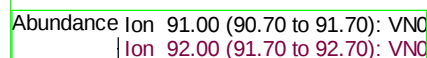
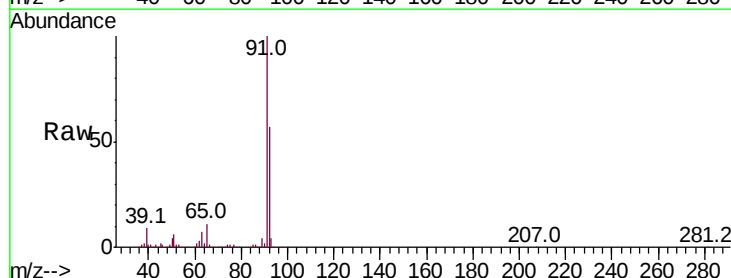
Acq: 14 Dec 2018 13:03

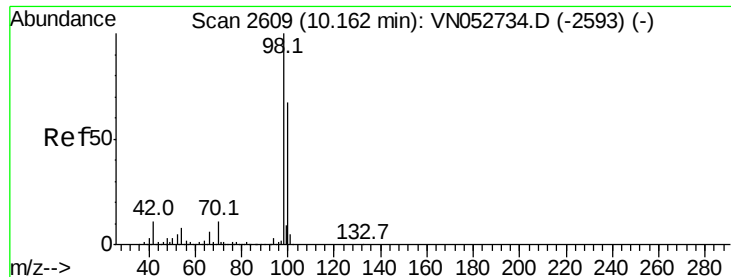
Tgt Ion: 91 Resp: 1176000

Ion Ratio Lower Upper

91 100

92 57.4 45.4 68.2





#63

Toluene-d8

Concen: 20.589 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBSD01

Tot Ion: 98 Resp: 1415324

Ion Ratio Lower Upper

98 100

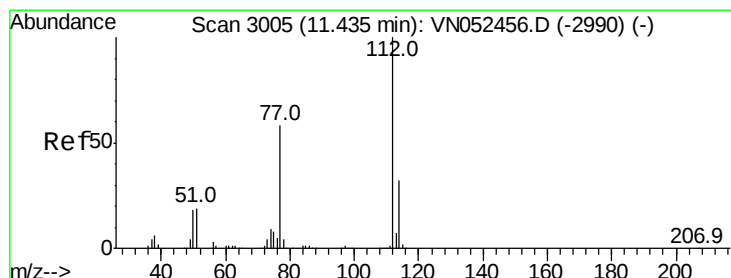
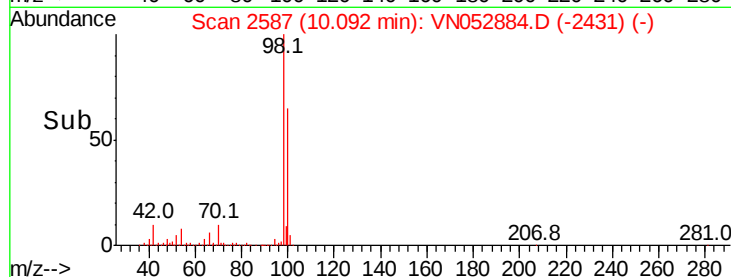
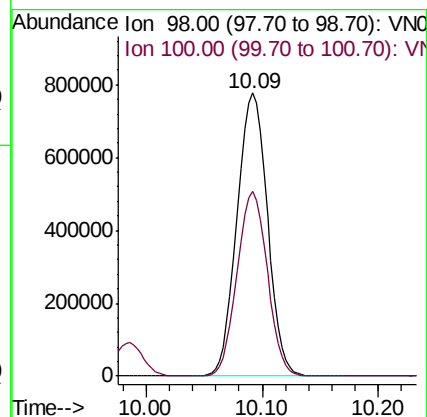
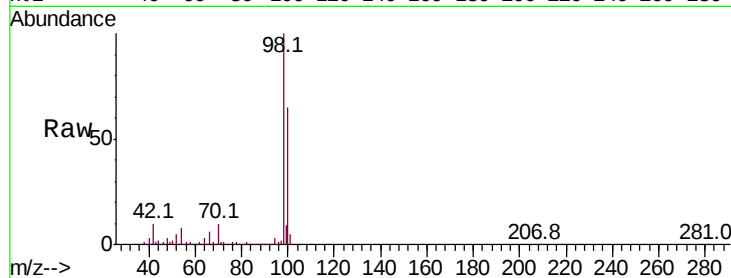
100 64.7 51.1 76.7

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#64

Chlorobenzene

Concen: 20.745 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN052884.D

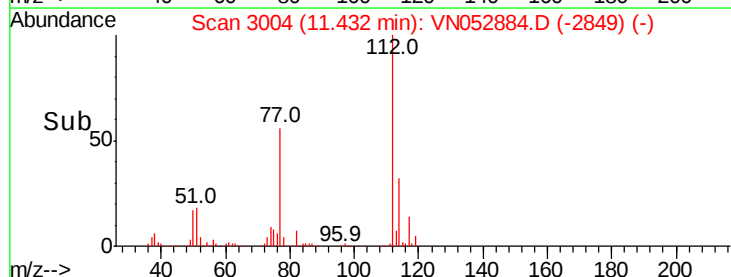
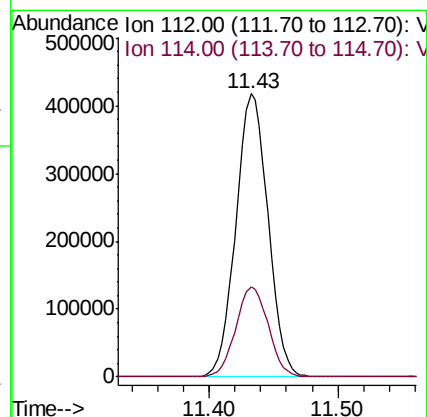
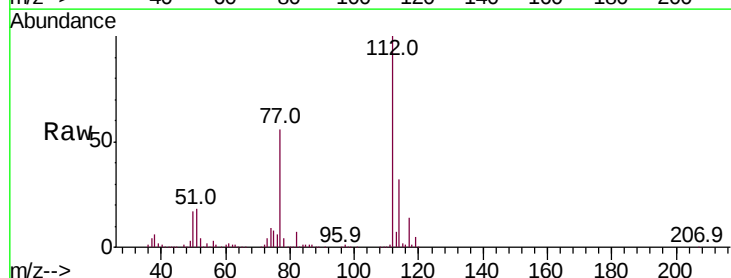
Acq: 14 Dec 2018 13:03

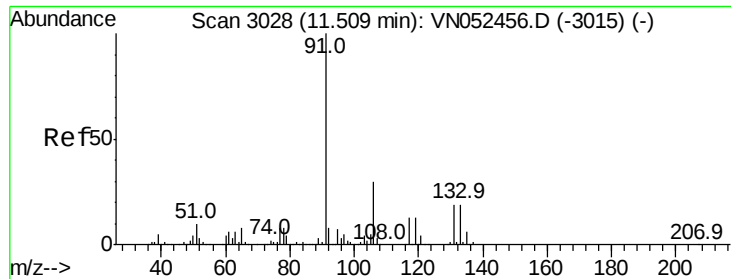
Tgt Ion: 112 Resp: 723206

Ion Ratio Lower Upper

112 100

114 31.7 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 20.903 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

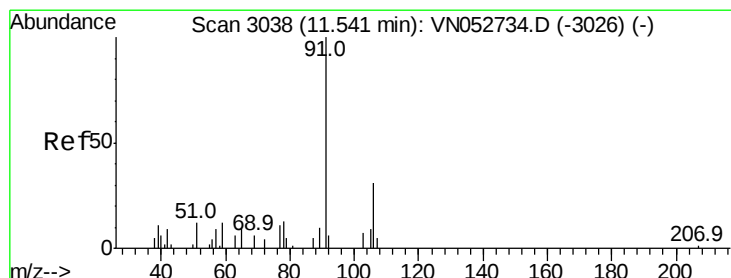
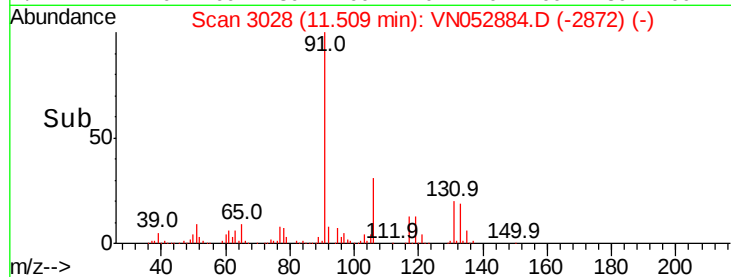
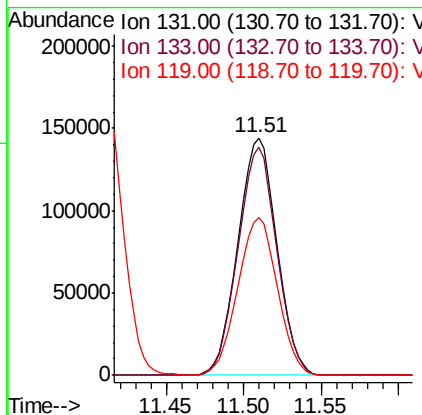
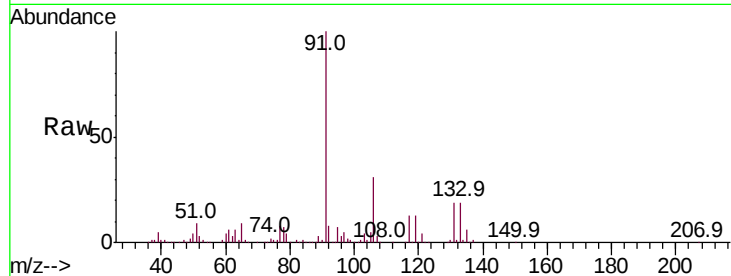
ClientSampleId :

VN1214WBSD01

Tot Ion:	131	Resp:	252952
Ion Ratio	Lower	Upper	
131	100		
133	95.6	0.0	193.4
119	67.6	0.0	133.0

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#66

Ethyl Benzene

Concen: 20.471 ug/l

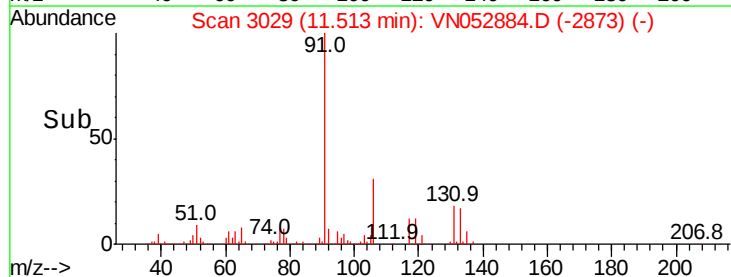
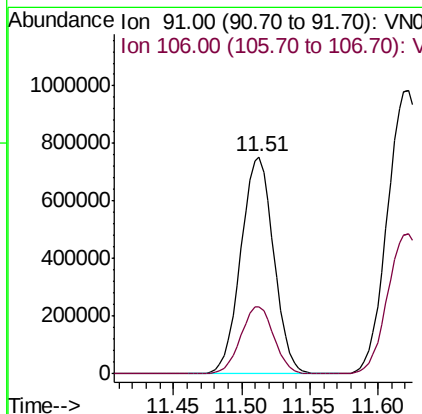
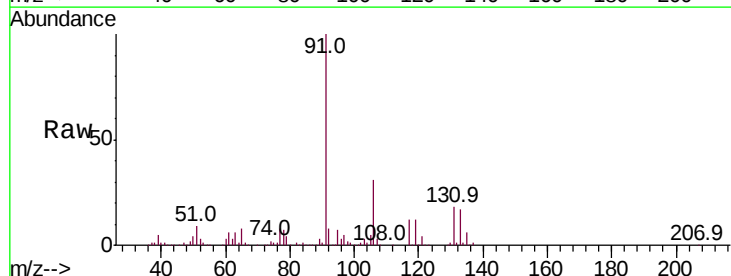
RT: 11.51 min Scan# 3029

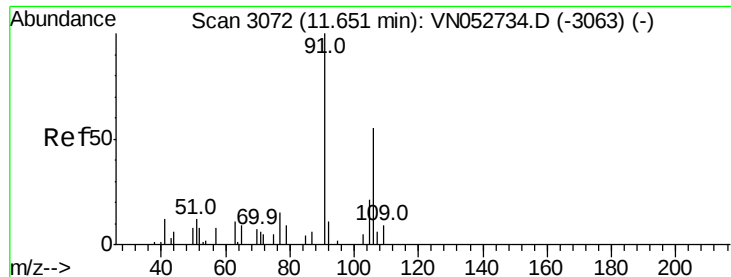
Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Tgt Ion:	91	Resp:	1260175
Ion Ratio	Lower	Upper	
91	100		
106	31.2	24.3	36.5





#67

m/p-Xylenes

Concen: 41.207 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBSD01

Tot Ion:106 Resp: 945031

Ion Ratio Lower Upper

106 100

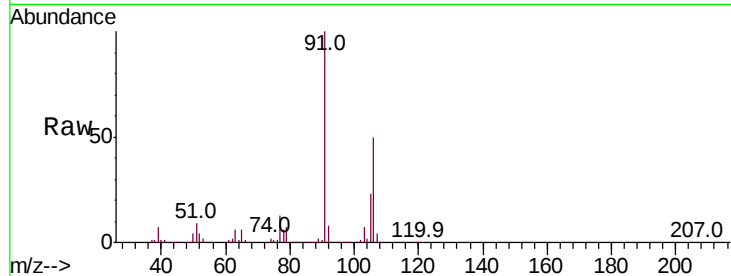
91 201.6 163.9 245.9

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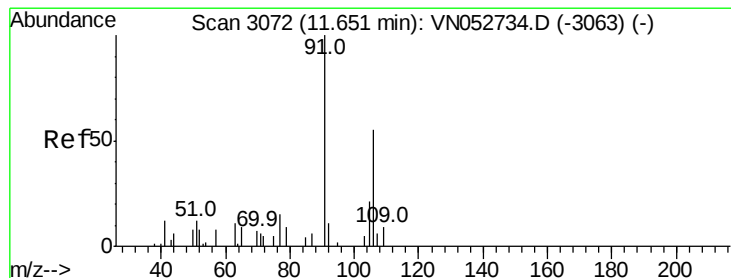
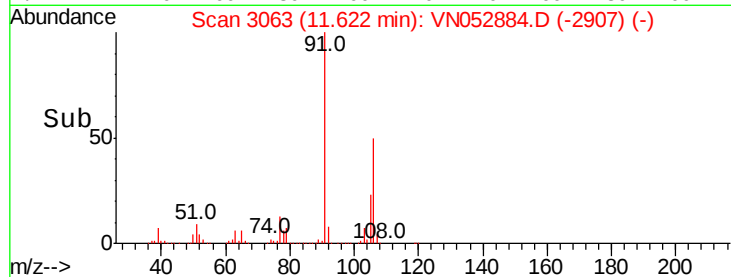
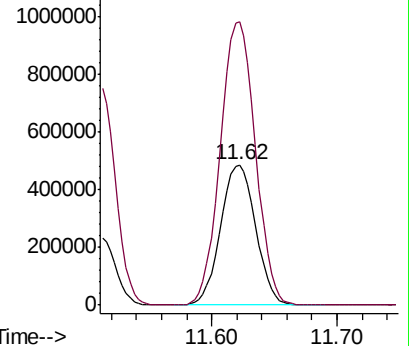
MMDadoda

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#68

o-Xylene

Concen: 20.483 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. 0.00 min

Lab File: VN052884.D

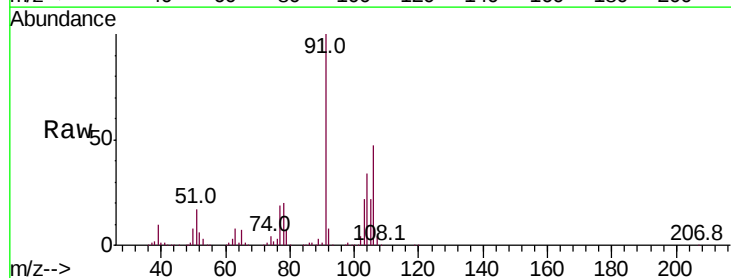
Acq: 14 Dec 2018 13:03

Tgt Ion:106 Resp: 455953

Ion Ratio Lower Upper

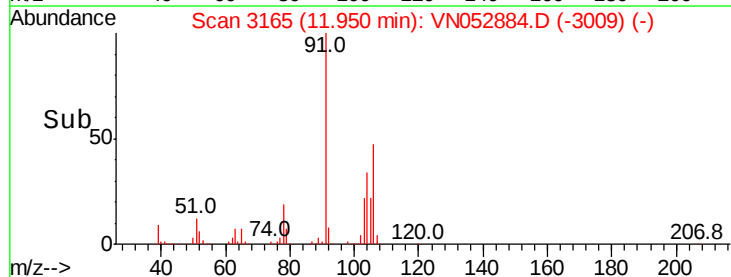
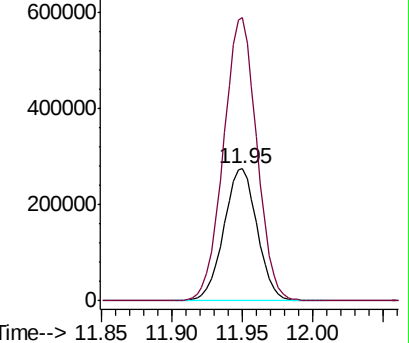
106 100

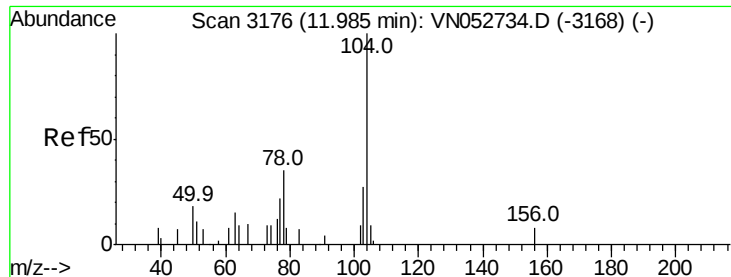
91 213.1 107.8 323.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





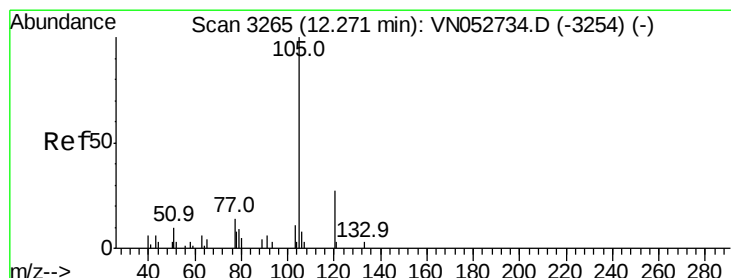
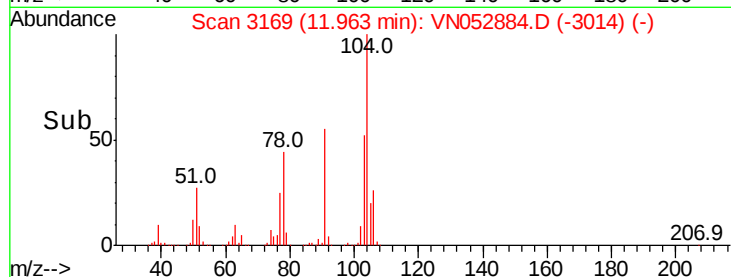
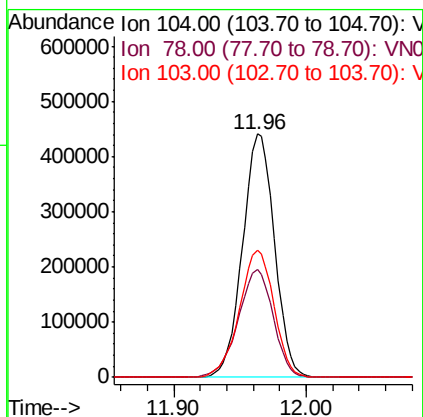
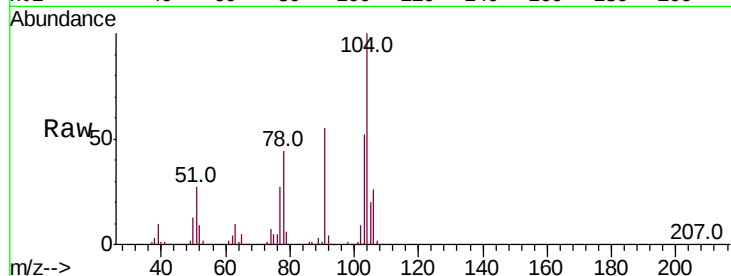
#69
Stvrene
Concen: 20.548 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion	Ratio	Lower	Upper
104	100		
78	48.5	39.3	58.9
103	56.3	44.6	66.8

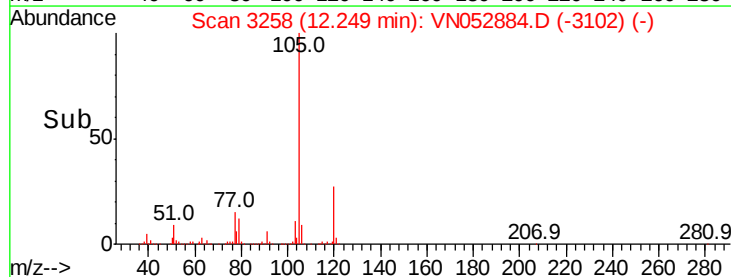
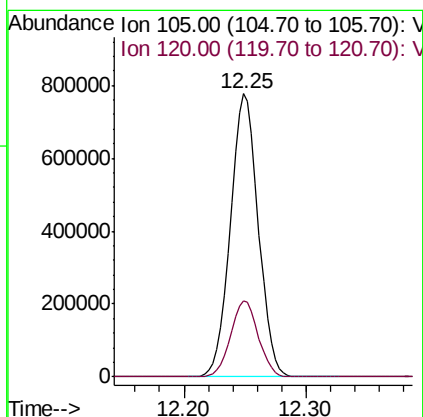
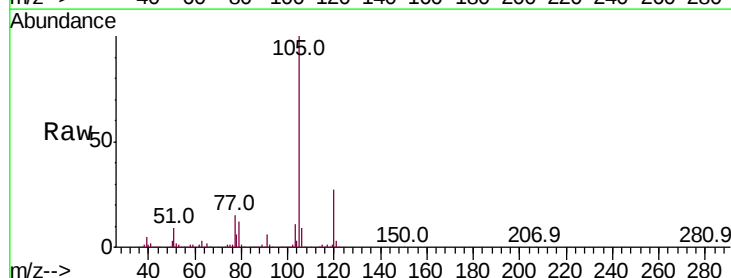
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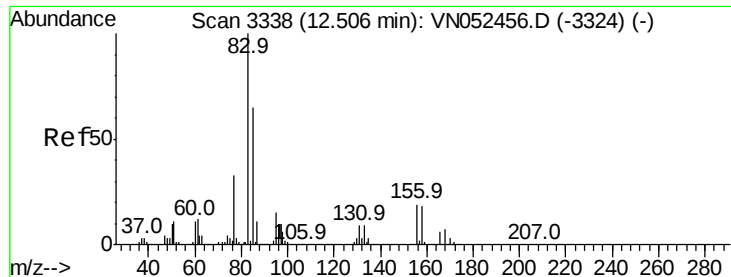
MMDadoda
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#70
Isopropylbenzene
Concen: 20.810 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.8	18.6	34.6





#71

1,1,2,2-Tetrachloroethane

Concen: 16.449 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBSD01

Tot Ion: 83 Resp: 211923

Ion Ratio Lower Upper

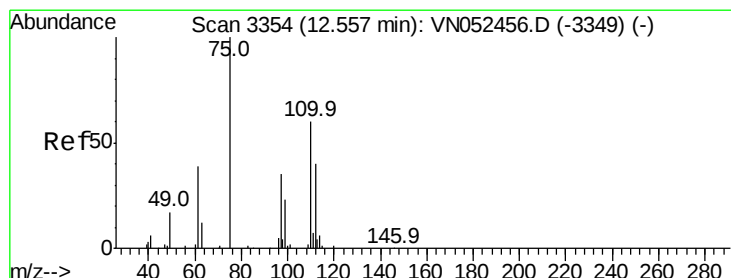
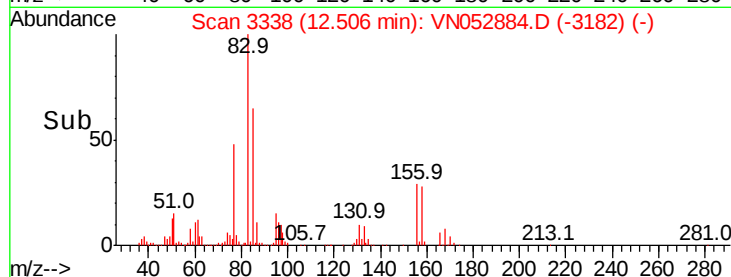
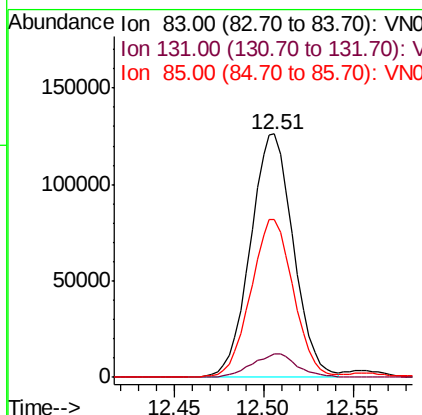
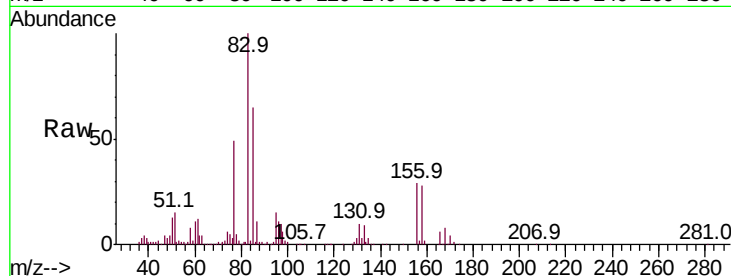
83 100

131 10.2 4.9 14.6

85 64.5 32.2 96.6

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#72

1,2,3-Trichloropropane

Concen: 19.346 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN052884.D

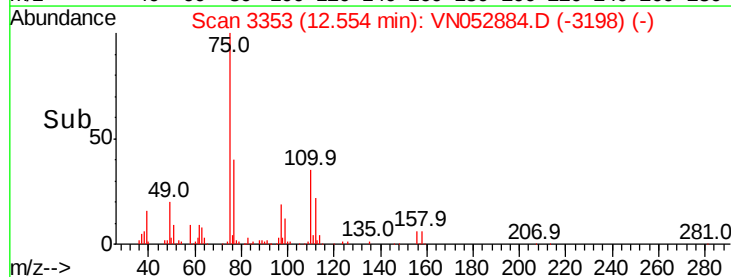
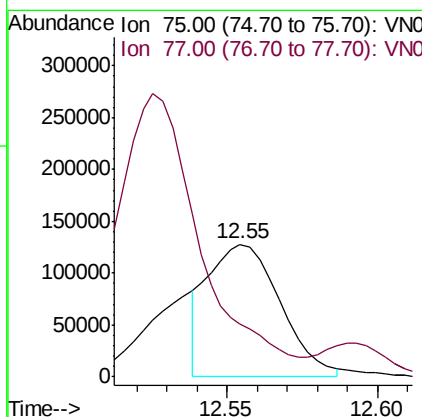
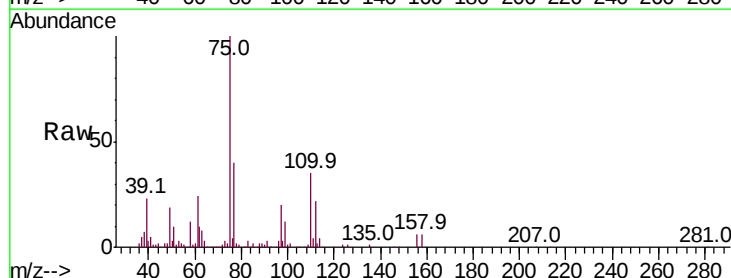
Acq: 14 Dec 2018 13:03

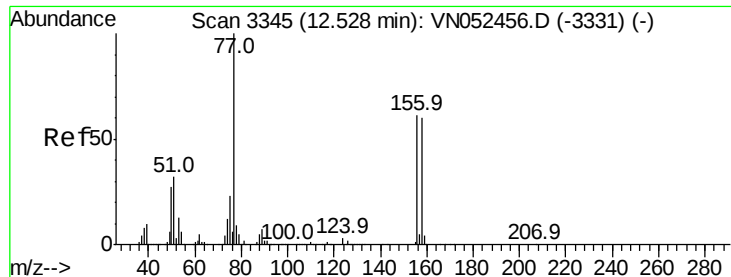
Tgt Ion: 75 Resp: 213955

Ion Ratio Lower Upper

75 100

77 248.6 0.0 514.8





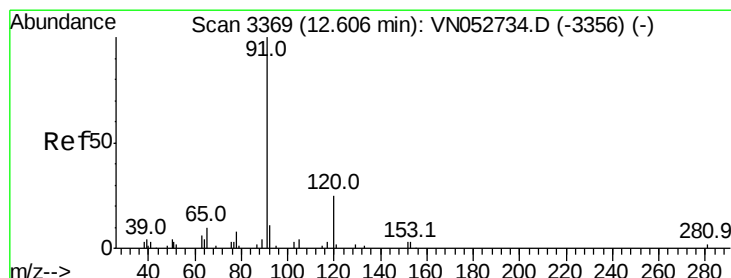
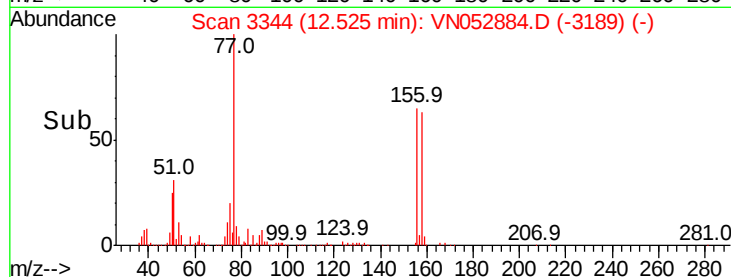
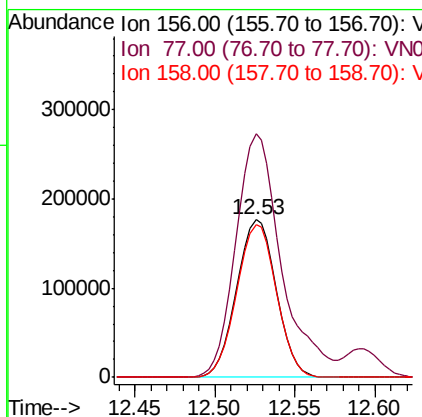
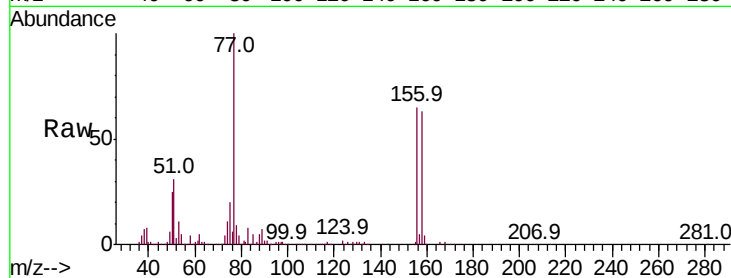
#73
Bromobenzene
Concen: 20.876 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion	Ratio	Lower	Upper
156	100		
77	177.9	0.0	382.6
158	97.3	0.0	196.8

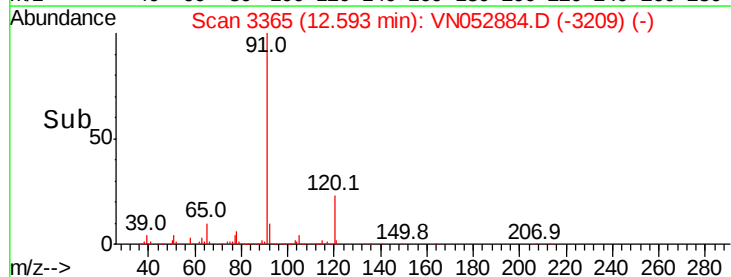
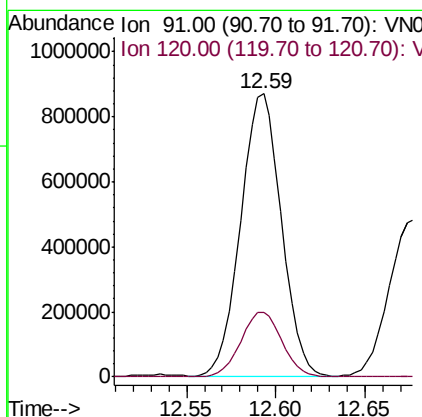
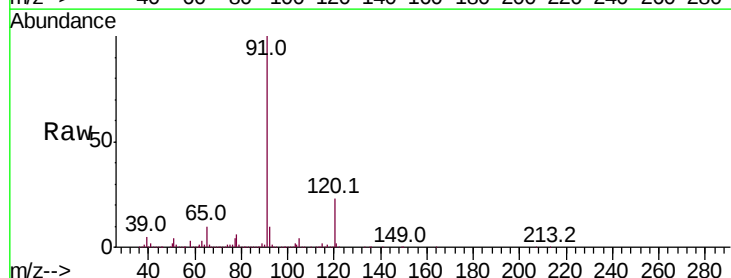
Manual Integrations
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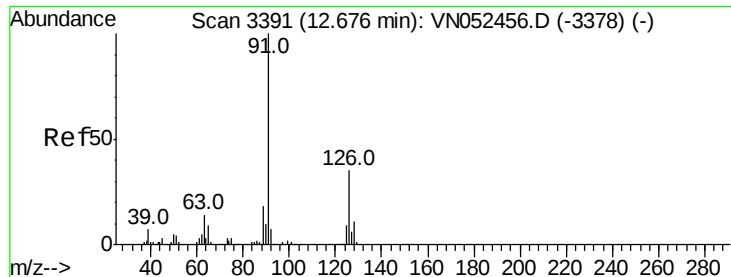
MMDadoda
12/17/2018 3:05:41 PM



#74
n-propylbenzene
Concen: 20.091 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.2	0.0	44.6





#75

2-Chlorotoluene

Concen: 20.129 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBSD01

Tot Ion: 91 Resp: 806238

Ion Ratio Lower Upper

91 100

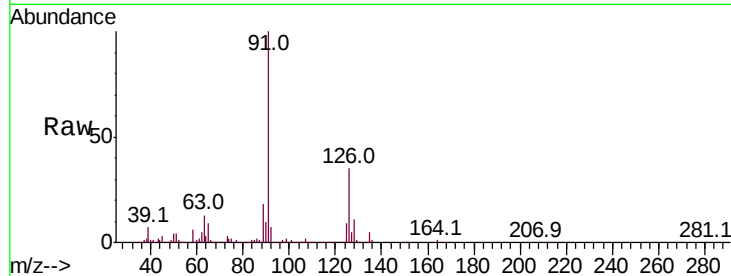
126 34.6 0.0 68.4

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN052456.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN052456.D (-3378) (-)

800000

600000

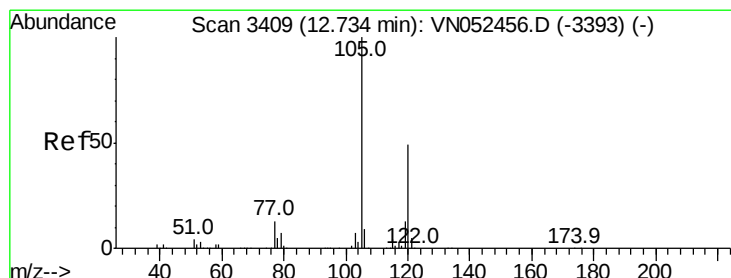
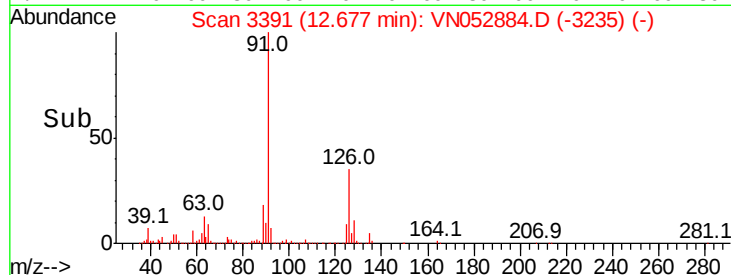
400000

200000

0

12.60 12.65 12.70

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 20.659 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052884.D

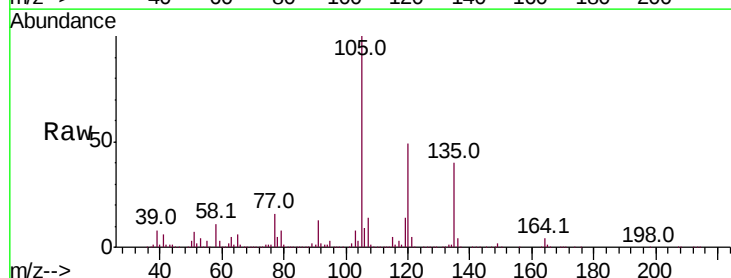
Acq: 14 Dec 2018 13:03

Tgt Ion: 105 Resp: 988268

Ion Ratio Lower Upper

105 100

120 49.9 0.0 97.4



Abundance Ion 105.00 (104.70 to 105.70): VN052456.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN052456.D (-3393) (-)

600000

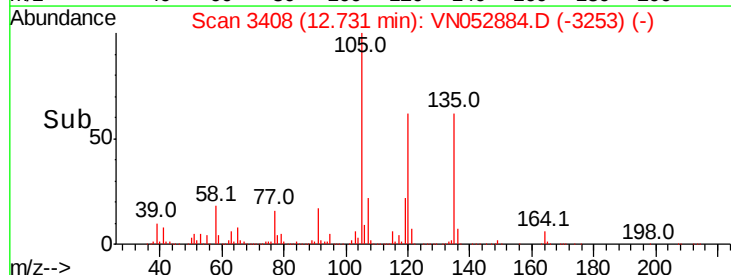
400000

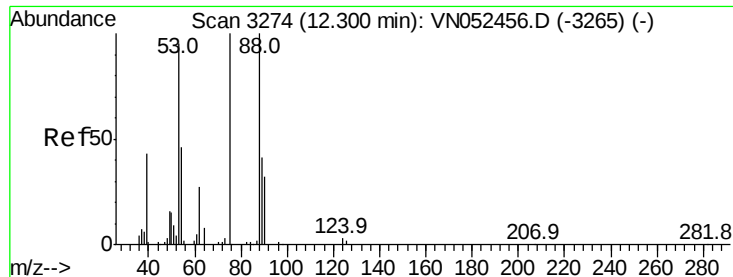
200000

0

12.65 12.70 12.75 12.80

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 17.711 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

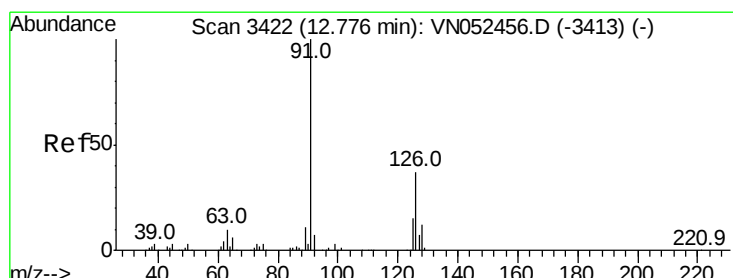
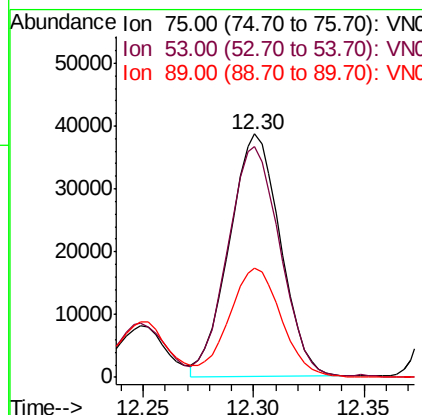
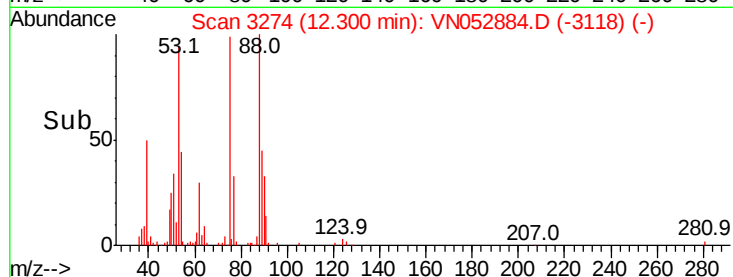
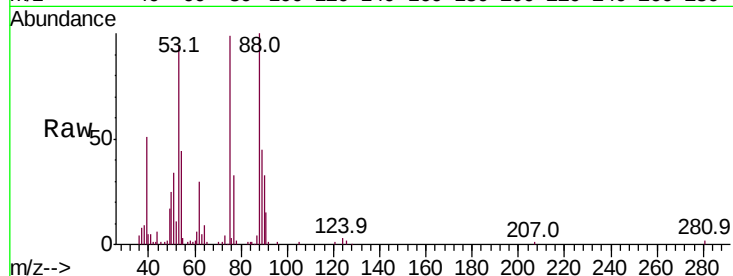
ClientSampleId :

VN1214WBSD01

Tot Ion:	75	Resp:	61876
Ion	Ratio	Lower	Upper
75	100		
53	95.0	48.5	145.6
89	45.0	21.7	65.1

Manual Integrations
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#78

4-Chlorotoluene

Concen: 25.427 ug/l

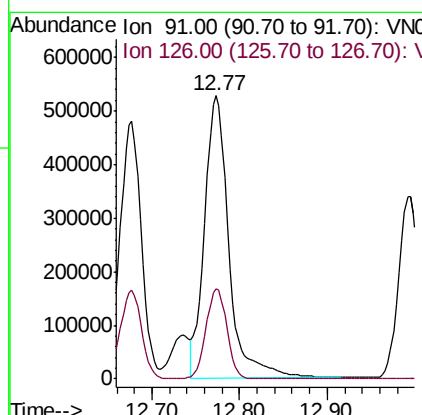
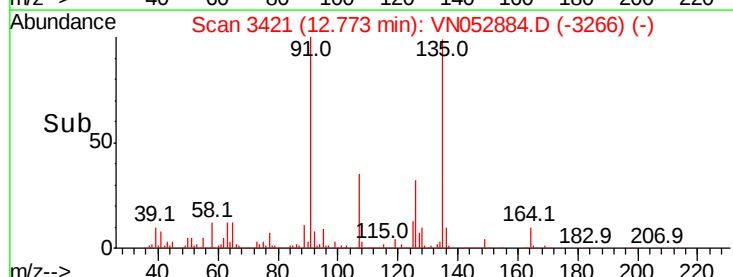
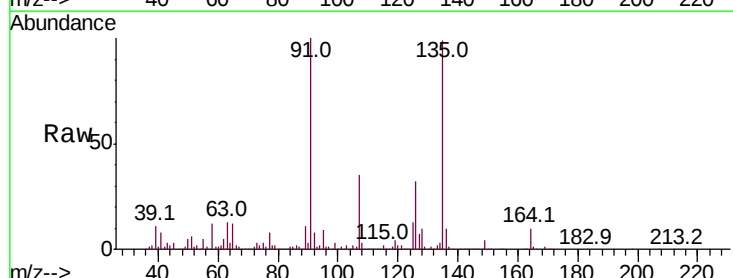
RT: 12.77 min Scan# 3421

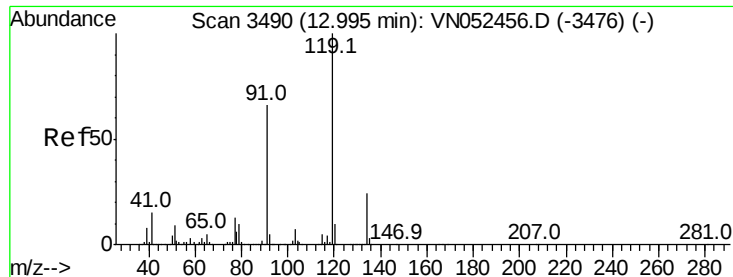
Delta R.T. -0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Tgt Ion:	91	Resp:	1017078
Ion	Ratio	Lower	Upper
91	100		
126	27.4	0.0	68.2





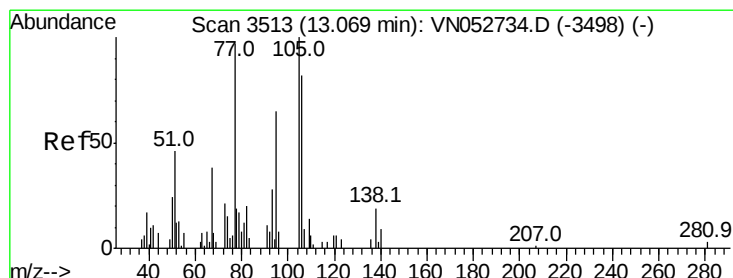
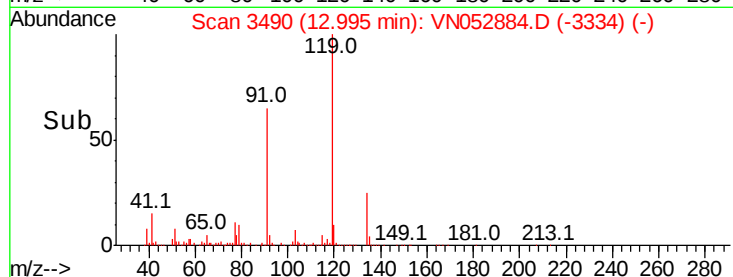
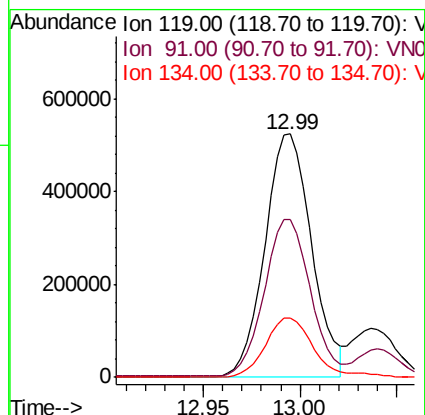
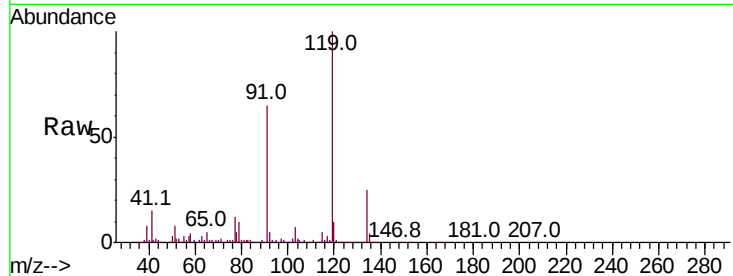
#79
tert-butylbenzene
Concen: 21.035 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	876315		
91	64.6	0.0	129.8	
134	25.3	0.0	52.2	

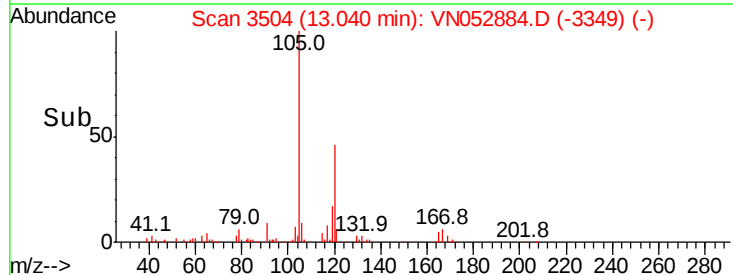
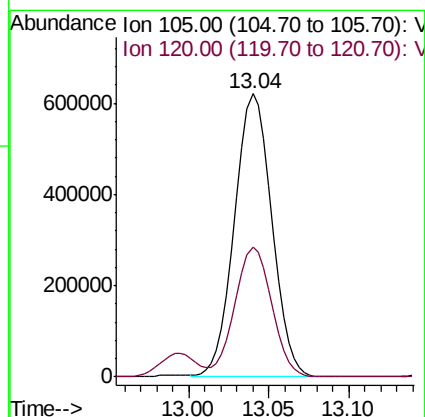
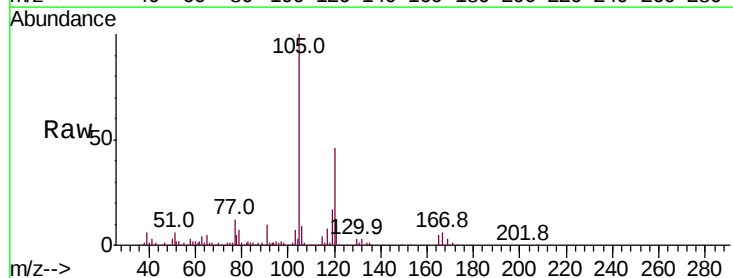
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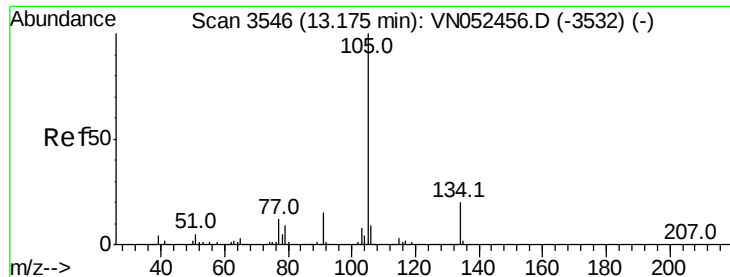
MMDadoda
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#80
1,2,4-Trimethylbenzene
Concen: 20.546 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	983460		
120	45.6	0.0	91.0	





#81

sec-Butylbenzene

Concen: 20.057 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

VN1214WBSD01

Tot Ion:105 Resp: 1163872

Ion Ratio Lower Upper

105 100

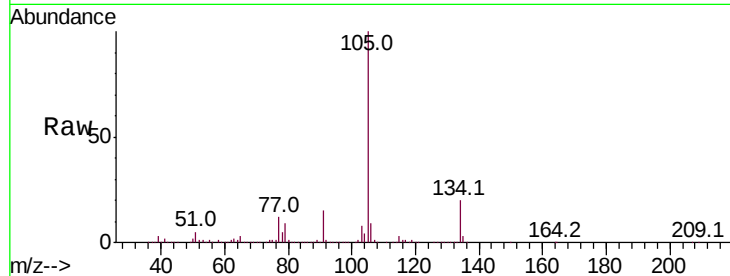
134 20.2 0.0 40.4

Manual Integrations

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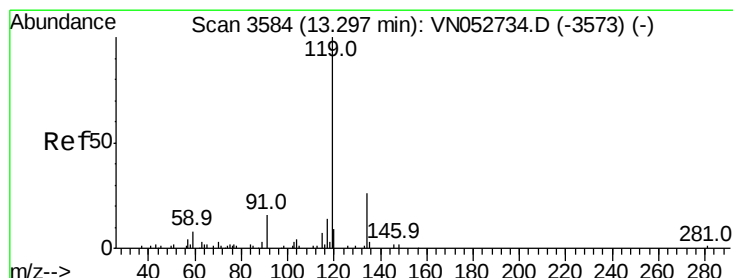
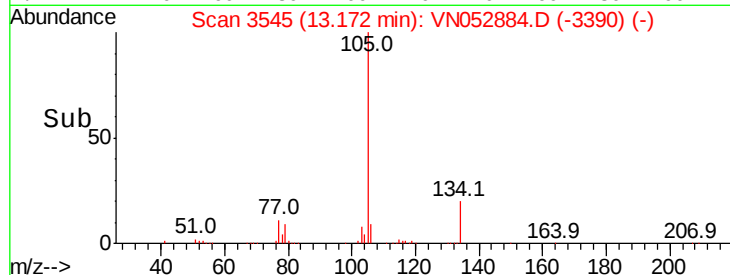
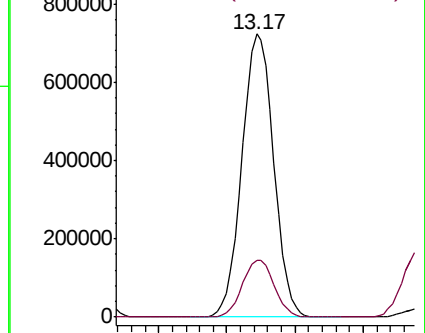
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 20.059 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN052884.D

Acq: 14 Dec 2018 13:03

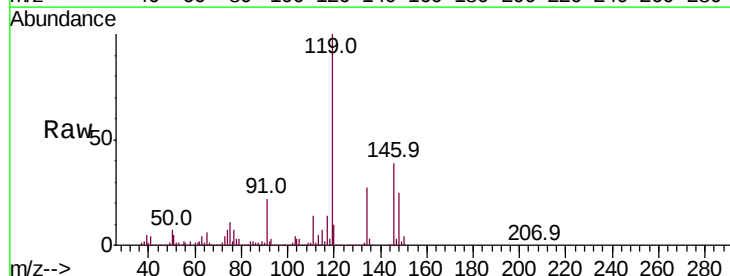
Tgt Ion:119 Resp: 991127

Ion Ratio Lower Upper

119 100

134 26.8 0.0 52.6

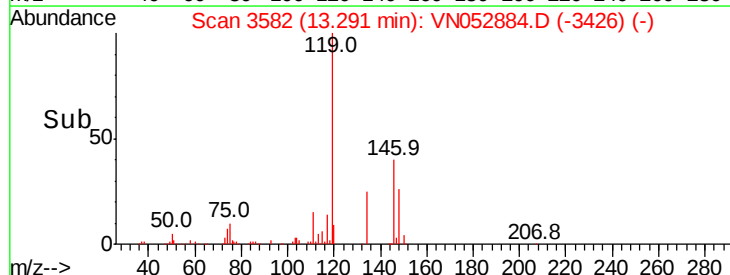
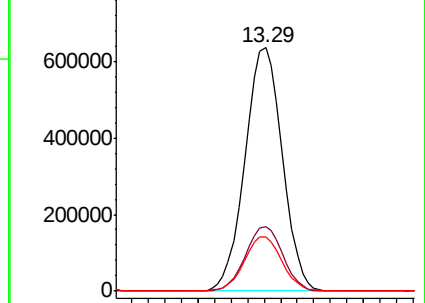
91 22.2 0.0 46.2

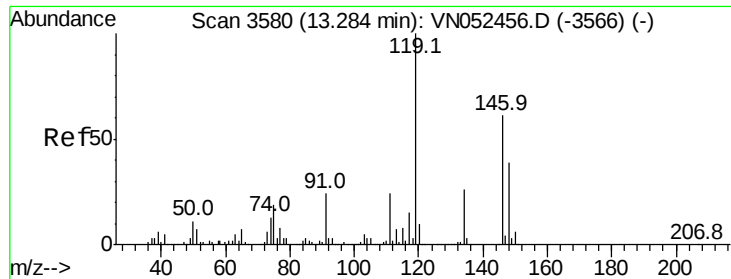


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





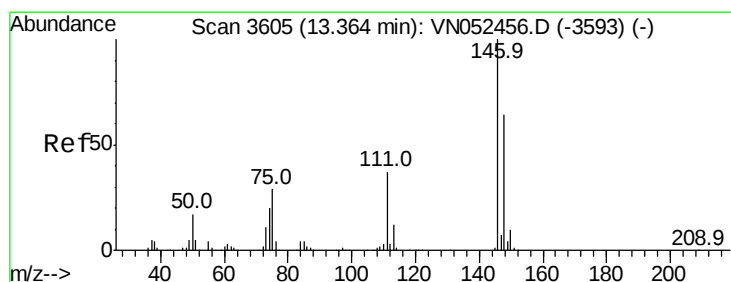
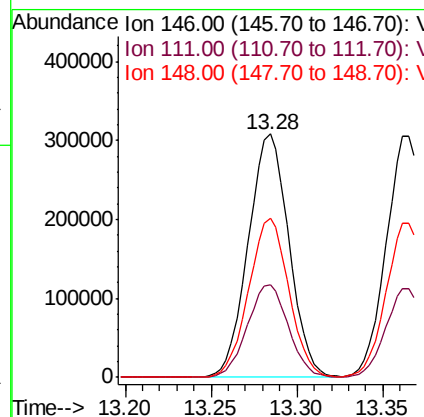
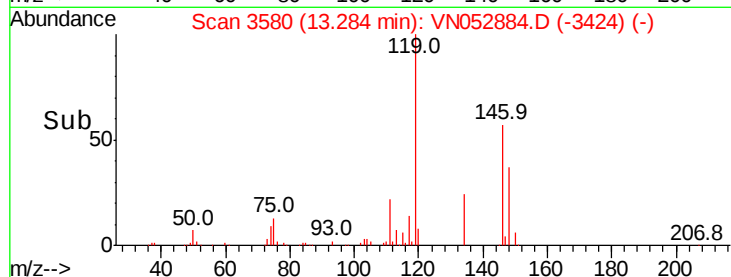
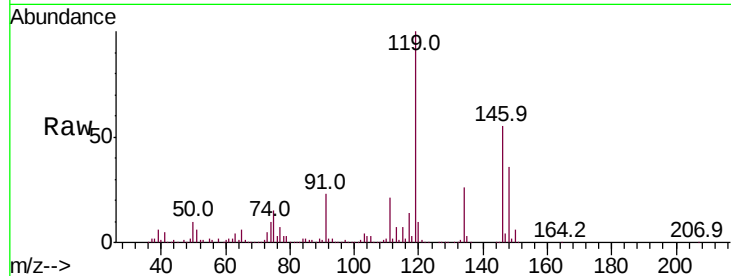
#83
 1,3-Dichlorobenzene
 Concen: 20.111 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.7	59.0
148	64.5	32.3	96.8

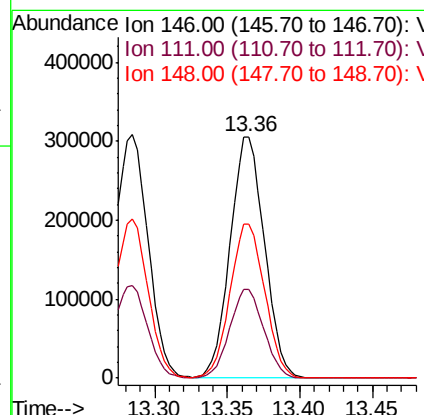
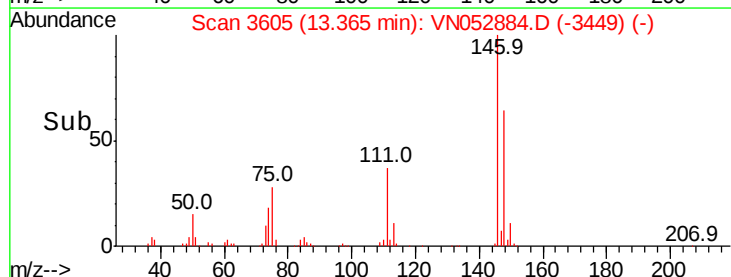
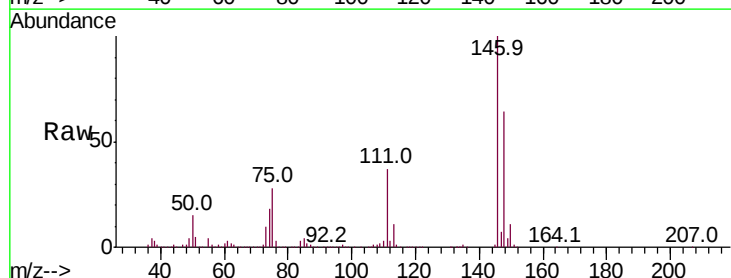
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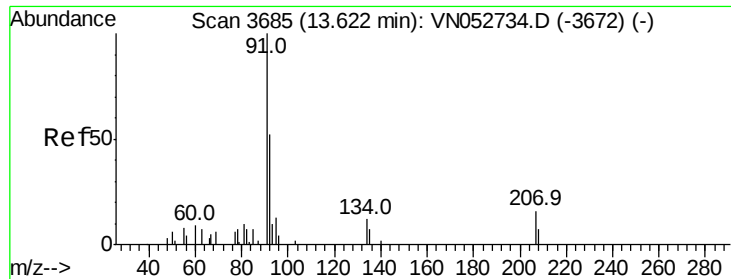
MMDadoda
 12/17/2018 3:05:41 PM



#84
 1,4-Dichlorobenzene
 Concen: 20.610 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.2	18.8	56.3
148	64.6	32.5	97.4





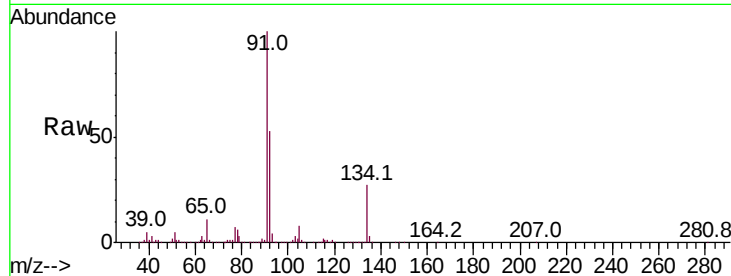
#85
n-Butylbenzene
Concen: 19.313 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	819731		
92	52.7	0.0	104.2	
134	26.4	0.0	50.6	

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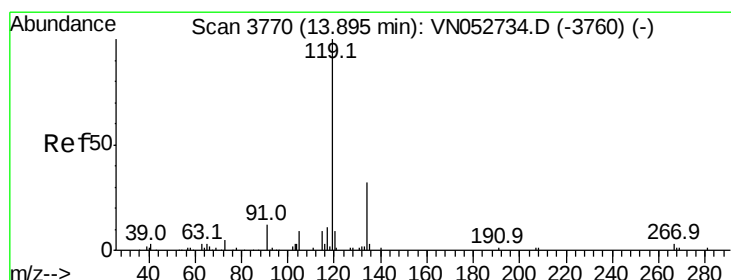
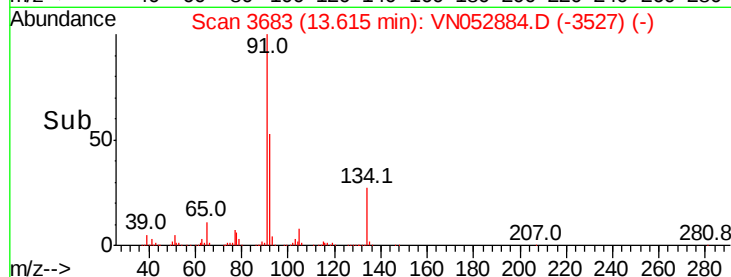
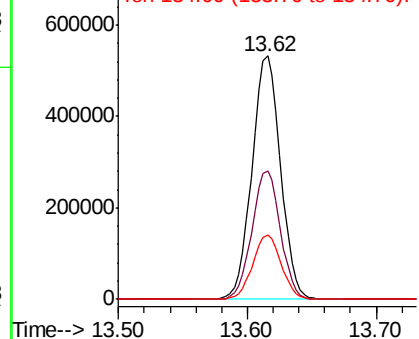
MMDadoda
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Abundance Ion 91.00 (90.70 to 91.70): VN052734.D (-3672) (-)

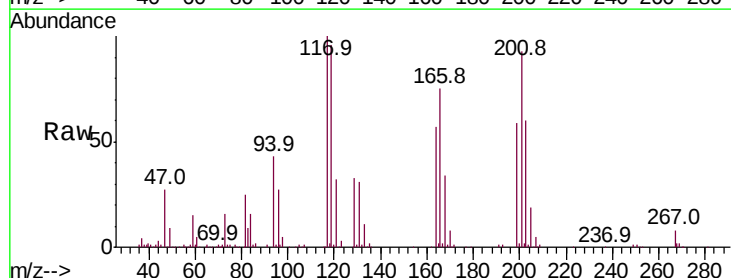
Ion 92.00 (91.70 to 92.70): VN052734.D (-3672) (-)

Ion 134.00 (133.70 to 134.70): VN052734.D (-3672) (-)



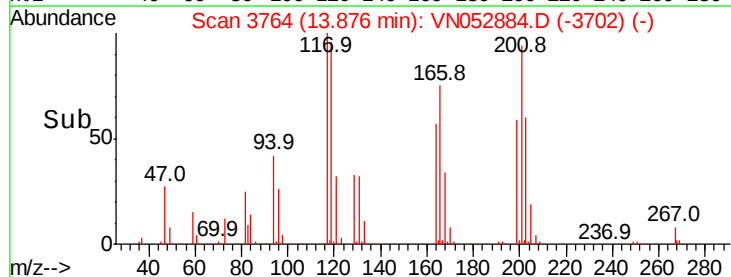
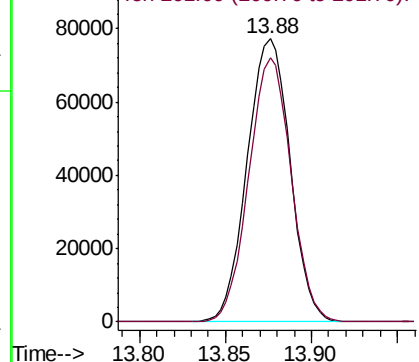
#86
Hexachloroethane
Concen: 15.997 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

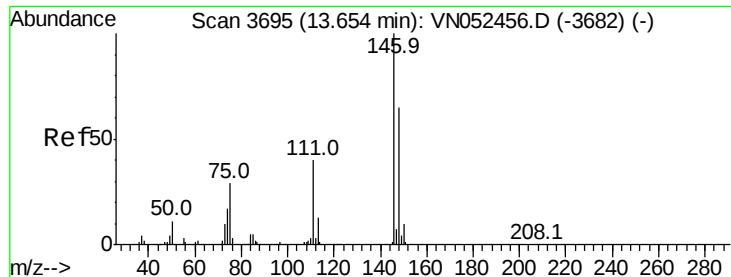
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	133928		
201	91.7	43.8	131.3	



Abundance Ion 117.00 (116.70 to 117.70): VN052734.D (-3760) (-)

Ion 201.00 (200.70 to 201.70): VN052734.D (-3760) (-)





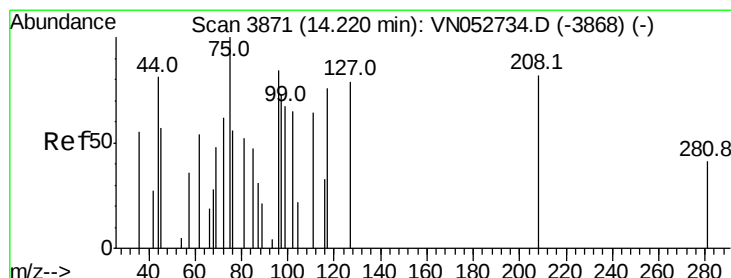
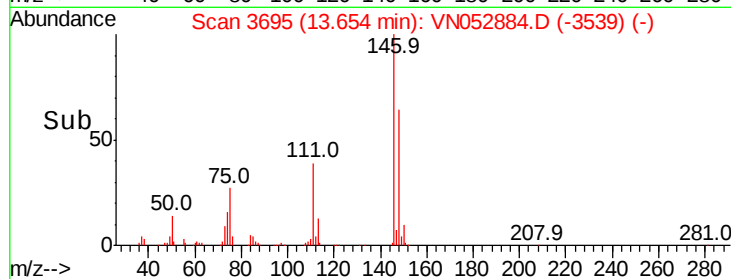
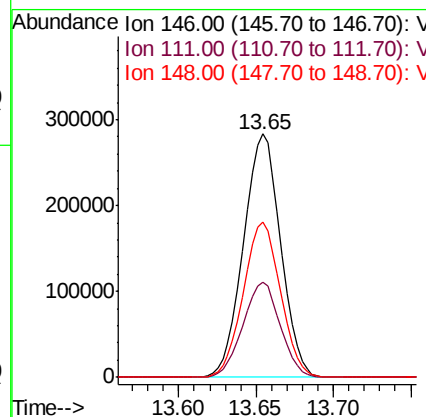
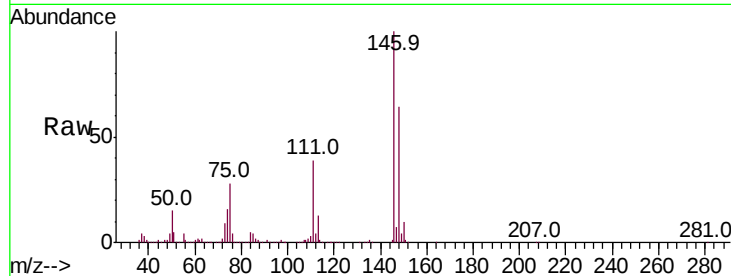
#87
 1,2-Dichlorobenzene
 Concen: 19.791 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	20.3	60.8
148	63.6	32.1	96.5

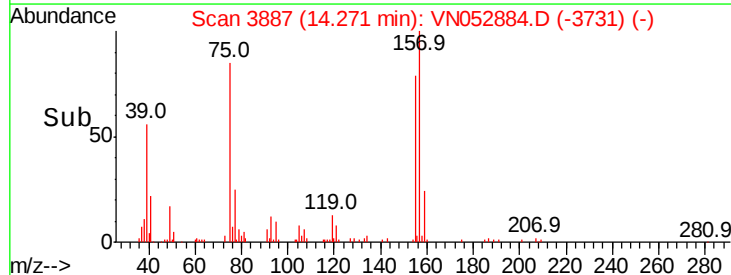
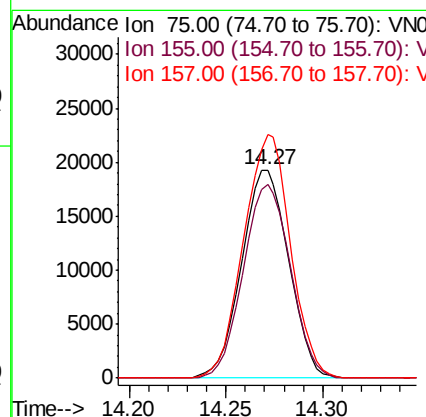
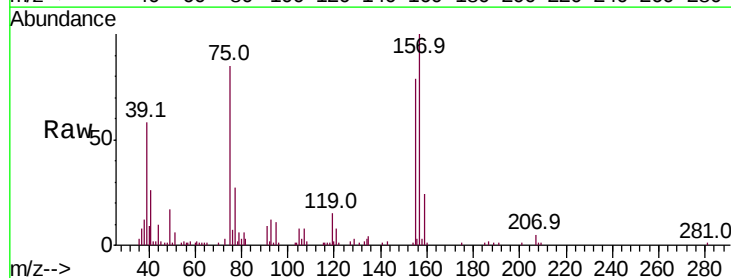
Manual Integrations
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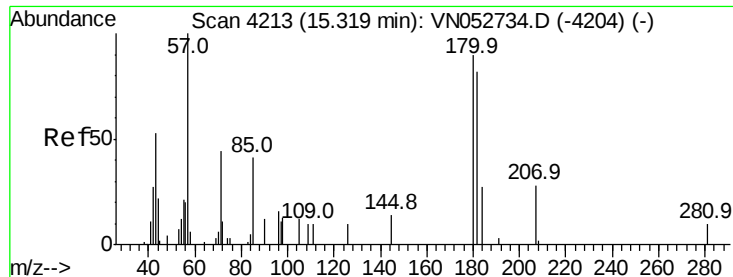
MMDadoda
 12/17/2018 3:05:41 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 18.077 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.2	72.2	108.2
157	116.5	94.2	141.2





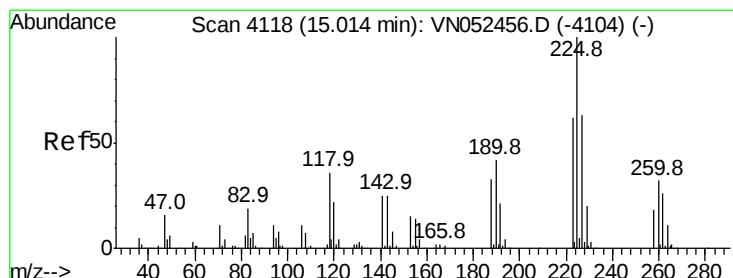
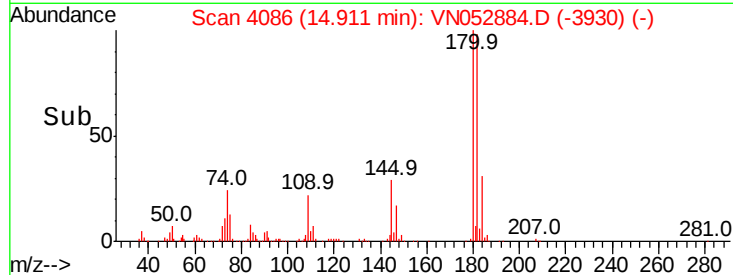
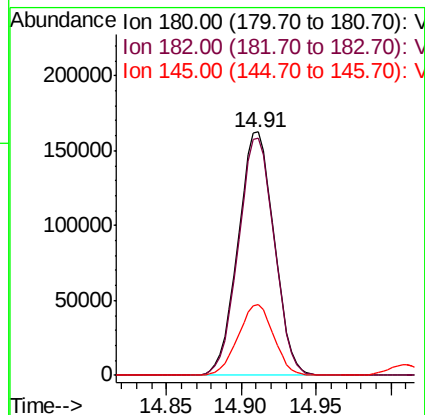
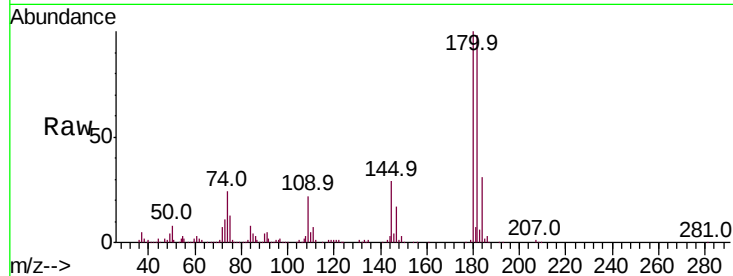
#89
 1,2,4-Trichlorobenzene
 Concen: 23.128 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1214WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.6	114.8
145	28.6	23.6	35.4

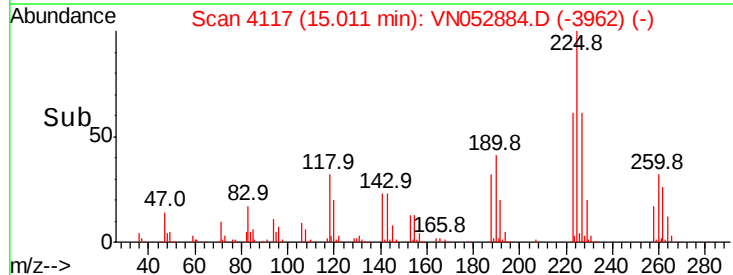
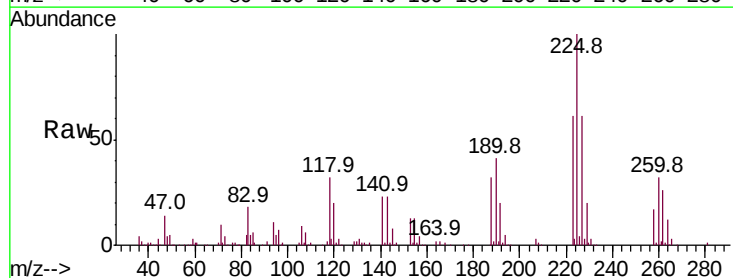
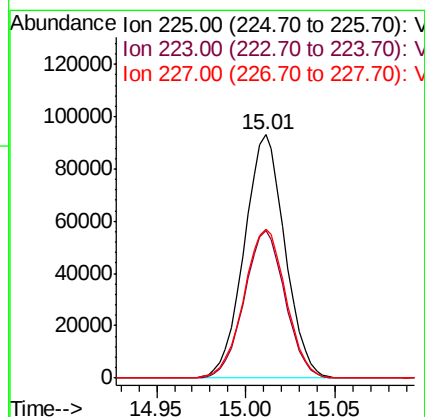
Manual Integrations
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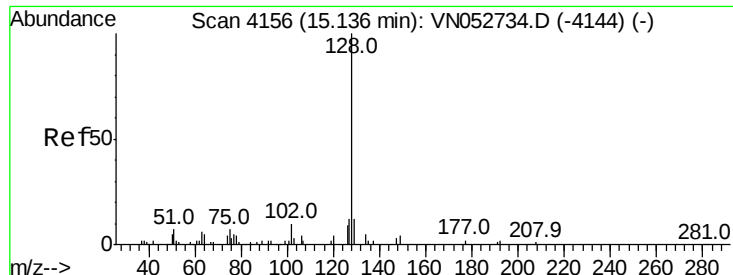
MMDadoda
 12/17/2018 3:05:41 PM



#90
 Hexachlorobutadiene
 Concen: 19.197 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052884.D
 Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.8	0.0	125.6
227	63.3	0.0	127.8





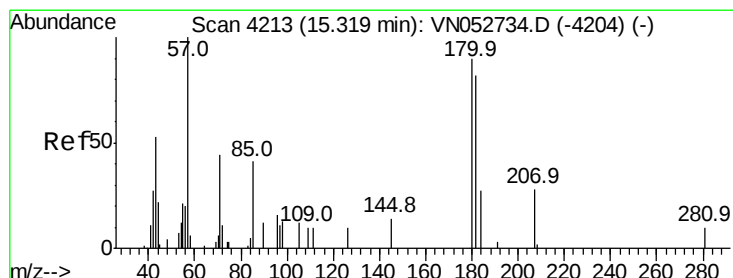
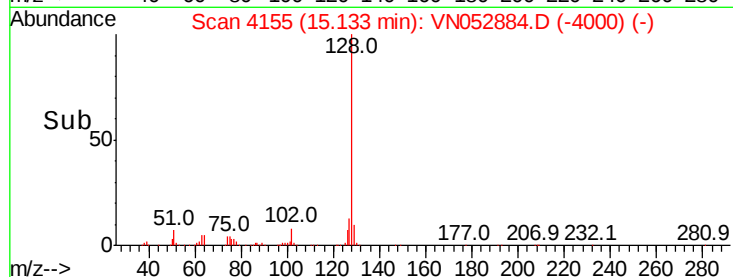
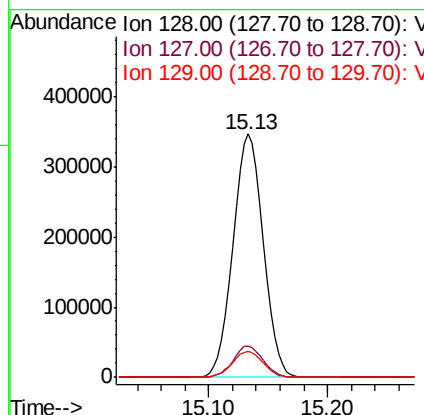
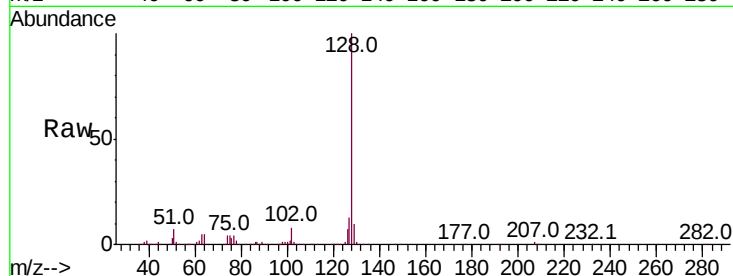
#91
Naphthalene
Concen: 25.580 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Instrument :
MSVOA_N
ClientSampleId :
VN1214WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	610145		
127	12.7	9.9	14.9	
129	10.8	8.5	12.7	

Manual Integrations
APPROVED

MMDadoda
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#92
1,2,3-Trichlorobenzene
Concen: 22.695 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN052884.D
Acq: 14 Dec 2018 13:03

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	247027		
182	95.4	0.0	196.2	
145	29.5	0.0	62.2	

