

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122818\
 Data File : VN053213.D
 Acq On : 28 Dec 2018 9:21
 Operator : MD\SY
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 1/2/2019 9:48:05 AM

Quant Time: Dec 28 09:52:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 28 09:36:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	176329	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1038882	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	924079	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	338307	29.90	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.67%
60) 4-Bromofluorobenzene	12.40	95	419713	30.11	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.37%
63) Toluene-d8	10.09	98	1252387	29.62	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	595655	51.290	ug/l 100
3) Chloromethane	2.06	50	673969	48.082	ug/l 99
4) Vinyl Chloride	2.19	62	678188	49.051	ug/l 98
5) Bromomethane	2.57	94	424586	47.107	ug/l 99
6) Chloroethane	2.71	64	386865	47.898	ug/l 100
7) Trichlorofluoromethane	3.02	101	829321	48.386	ug/l 100
8) Diethyl Ether	3.41	74	311833	49.848	ug/l 92
9) 1,1,2-Trichlorotrifluoroet	3.77	101	519679	47.984	ug/l 96
10) 1,1-Dichloroethene	3.74	96	504710	48.128	ug/l 97
11) Methyl Iodide	3.96	142	751185	52.440	ug/l 99
12) Methyl Acetate	4.32	43	384320	47.066	ug/l 97
13) Acrolein	3.61	56	242428	261.835	ug/l 100
14) Acrylonitrile	4.99	53	897010	251.829	ug/l 99
15) Acetone	3.82	58	187151	244.835	ug/l 96
16) Carbon Disulfide	4.06	76	1563605	49.466	ug/l 99
17) Allyl chloride	4.33	41	794239	48.659	ug/l 98
18) Methylene Chloride	4.55	84	570699	46.113	ug/l 95
19) trans-1,2-Dichloroethene	5.05	96	534165	48.037	ug/l 93
20) Diisopropyl ether	5.95	45	1735919	49.437	ug/l 95
21) 1,1-Dichloroethane	5.85	63	998750	48.664	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	613153	49.972	ug/l 98
23) tert-Butyl Alcohol	4.78	59	147921	252.993	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	1336217	49.889	ug/l 96
25) Chloroform	7.37	83	957157	48.331	ug/l 99
26) Cyclohexane	7.66	56	940668	50.035	ug/l # 99
29) 1,1-Dichloropropene	7.80	75	772781	48.924	ug/l 99
30) 2-Butanone	6.83	43	985958	257.061	ug/l 98
31) 2,2-Dichloropropane	6.83	77	749256	49.427	ug/l 98
32) 1,1,1-Trichloroethane	7.57	97	811381	49.247	ug/l 97
33) Carbon Tetrachloride	7.78	117	711988	50.220	ug/l 99
34) Benzene	8.04	78	2320630	48.104	ug/l # 93
35) Methacrylonitrile	7.18	41	258383	50.533	ug/l 97
36) 1,2-Dichloroethane	8.13	62	673553	47.740	ug/l 99
37) Trichloroethene	8.84	130	630956	48.655	ug/l 95
38) Methylcyclohexane	9.08	83	910243	49.632	ug/l 96
39) 1,2-Dichloropropane	9.12	63	610982	49.090	ug/l 97
40) Dibromomethane	9.21	93	340715	47.936	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	735851	48.782	ug/l	98
42) Vinyl Acetate	5.90	43	5297497	253.097	ug/l	97
43) Ethyl Acetate	6.93	43	439951	51.444	ug/l #	65
44) Isopropyl Acetate	8.16	43	806105	50.274	ug/l #	78
45) 1,4-Dioxane	9.20	88	95521	972.575	ug/l	92
46) Methyl methacrylate	9.20	41	413358	52.092	ug/l	95
47) n-amyl Acetate	12.07	43	711647	52.827	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	758627	51.886	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	891150	50.250	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	491078	48.217	ug/l	100
51) Ethyl methacrylate	10.43	69	653323	52.718	ug/l	93
52) 1,3-Dichloropropane	10.71	76	849867	48.964	ug/l	100
53) Dibromochloromethane	10.90	129	557154	50.745	ug/l	97
54) 1,2-Dibromoethane	11.01	107	494721	49.249	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	1861023	255.495	ug/l	99
56) Bromoform	12.13	173	373725	50.832	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	2234050	255.213	ug/l	98
59) 2-Hexanone	10.75	43	1533445	253.543	ug/l	97
61) Tetrachloroethene	10.63	164	695274	48.968	ug/l	96
62) Toluene	10.16	91	2508085	48.034	ug/l	99
64) Chlorobenzene	11.43	112	1561651	48.274	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	551418	49.108	ug/l	99
66) Ethyl Benzene	11.51	91	2717766	49.197	ug/l	99
67) m/p-Xylenes	11.62	106	2031610	96.234	ug/l	98
68) o-Xylene	11.95	106	987519	48.609	ug/l	99
69) Styrene	11.96	104	1615874	49.853	ug/l	99
70) Isopropylbenzene	12.25	105	2605933	48.727	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	538769	47.697	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	446079m	45.676	ug/l	
73) Bromobenzene	12.53	156	656938	48.036	ug/l	94
74) n-propylbenzene	12.59	91	2911485	48.691	ug/l	98
75) 2-Chlorotoluene	12.68	91	1705539	47.406	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	2010017	47.448	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	167075	52.979	ug/l	93
78) 4-Chlorotoluene	12.77	91	1722158	47.420	ug/l	99
79) tert-butylbenzene	12.99	119	1754572	47.141	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	2010255	47.479	ug/l	99
81) sec-Butylbenzene	13.17	105	2304582	46.955	ug/l	99
82) p-Isopropyltoluene	13.29	119	1985956	47.490	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	1086750	46.362	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	1061161	46.989	ug/l	99
85) n-Butylbenzene	13.62	91	1604495	48.371	ug/l	99
86) Hexachloroethane	13.88	117	317237	49.734	ug/l	93
87) 1,2-Dichlorobenzene	13.65	146	996468	44.690	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	71377	44.130	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	488561	51.239	ug/l	99
90) Hexachlorobutadiene	15.01	225	286493	41.372	ug/l	99
91) Naphthalene	15.13	128	1055570	55.572	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	444148	52.994	ug/l	97

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ClientSampleId :
VSTDICC050

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QLast Update : Fri Dec 28 09:36:12 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

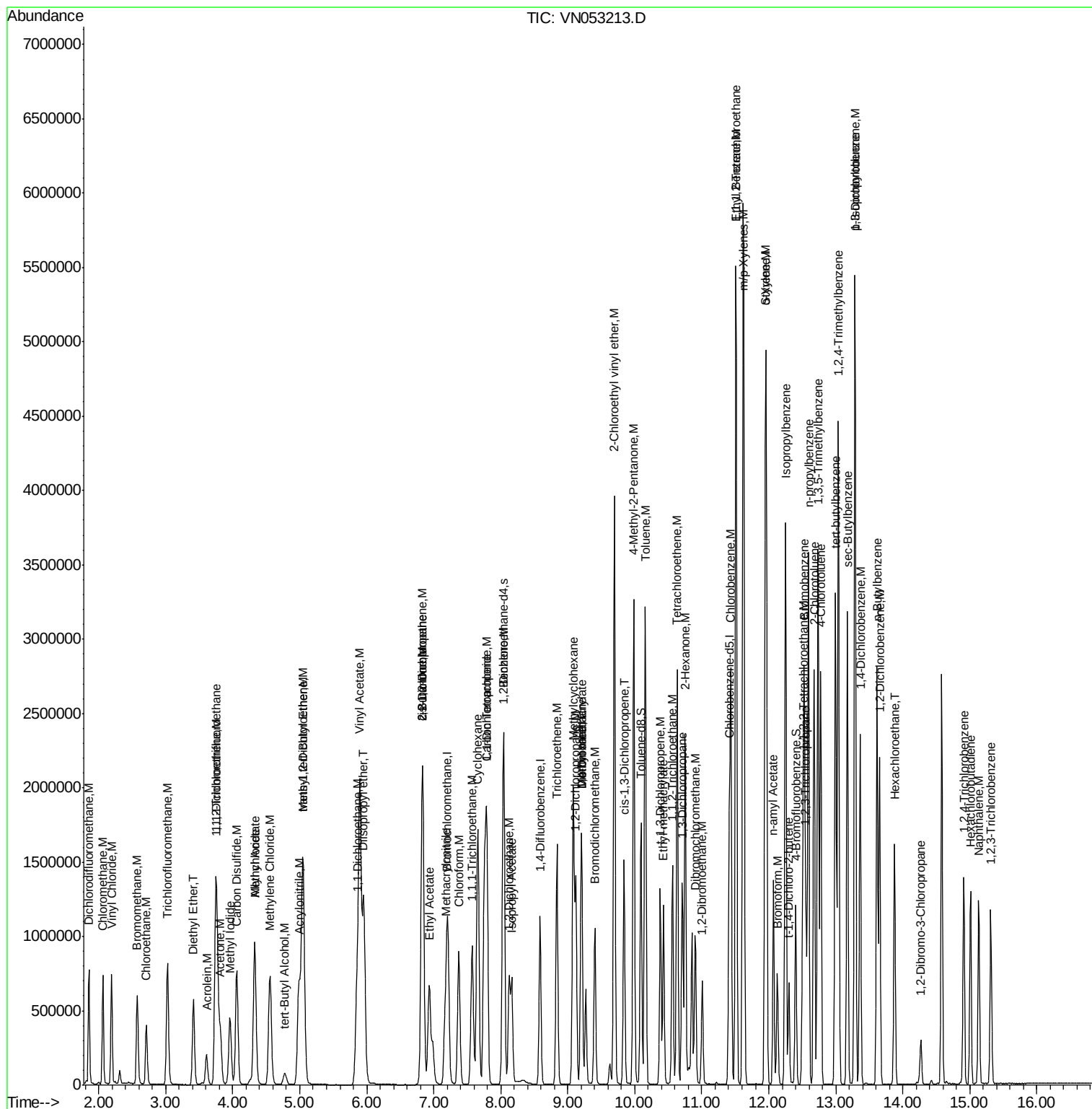
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Data File : VN053213.D
Acq On : 28 Dec 2018 9:21
Operator : MD\SY
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Misc : 5.00mL/MSVOA N/WATER
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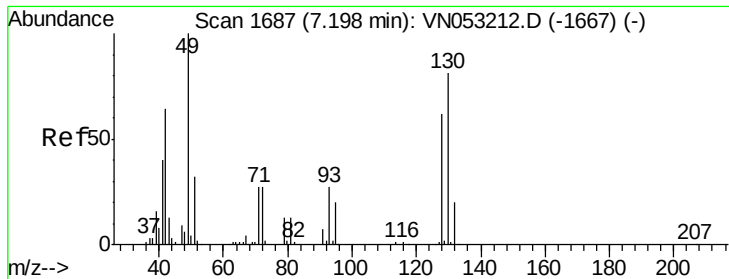
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Manual Integrations
APPROVED

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

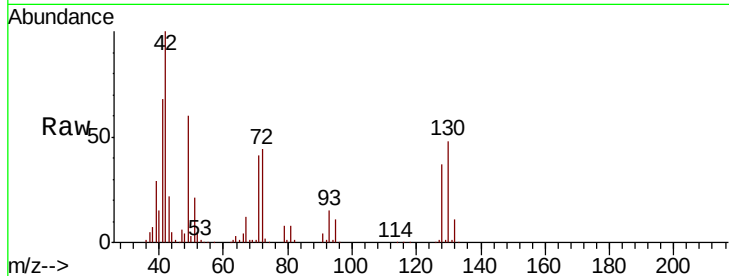
ClientSampleId :

VSTDIC050

Tot Ion:	128	Resp:	176329
Ion	Ratio	Lower	Upper
128	100		
49	161.3	0.0	431.8
130	131.4	0.0	317.0

Manual Integrations
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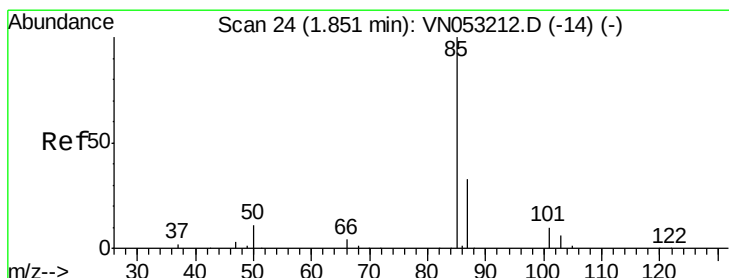
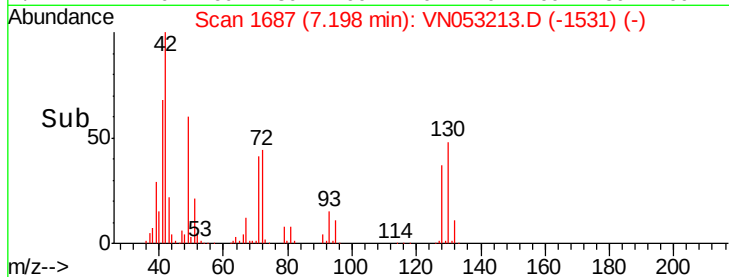
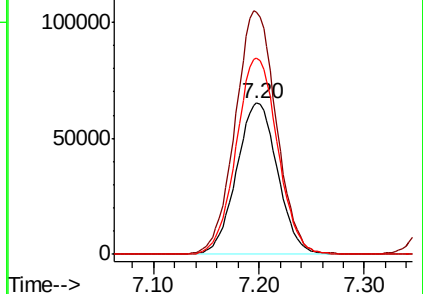
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Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 51.290 ug/l

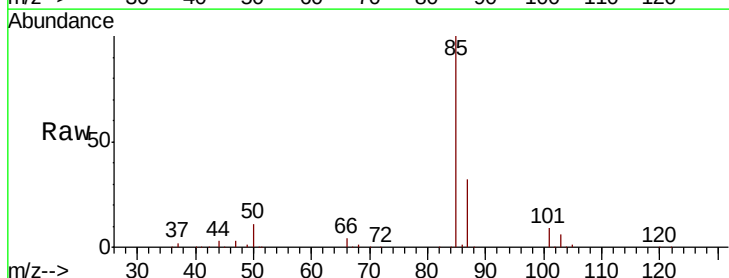
RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN053213.D

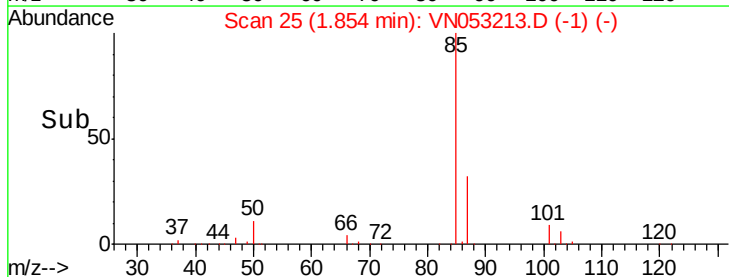
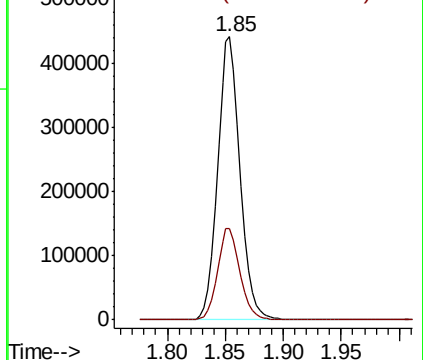
Acq: 28 Dec 2018 9:21

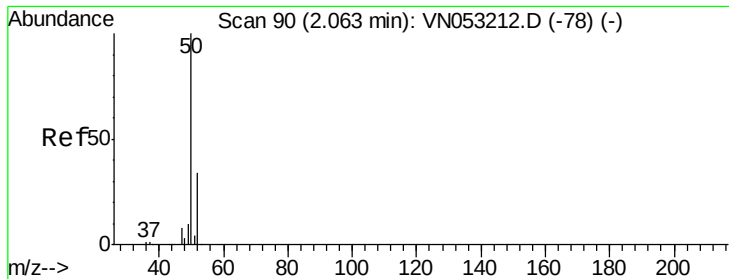
Tgt Ion:	85	Resp:	595655
Ion	Ratio	Lower	Upper
85	100		
87	32.2	16.1	48.3



Abundance Ion 85.00 (84.70 to 85.70): VN

Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 48.082 ug/l

RT: 2.06 min Scan# 90

Delta R.T. -0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

ClientSampled :

VSTDIC050

Tot Ion: 50 Resp: 673969

Ion Ratio Lower Upper

50 100

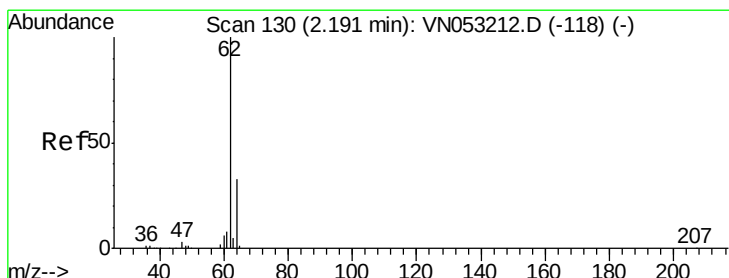
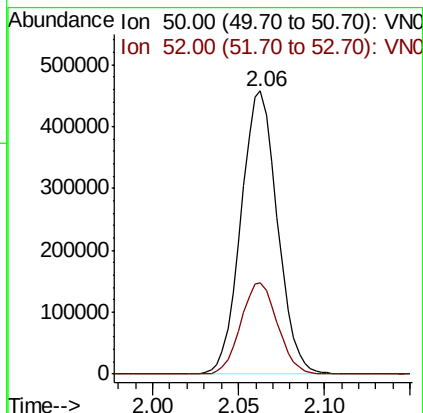
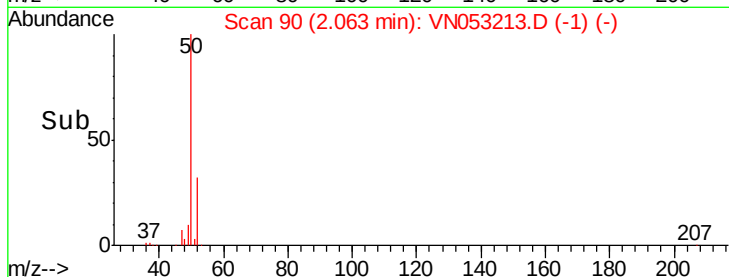
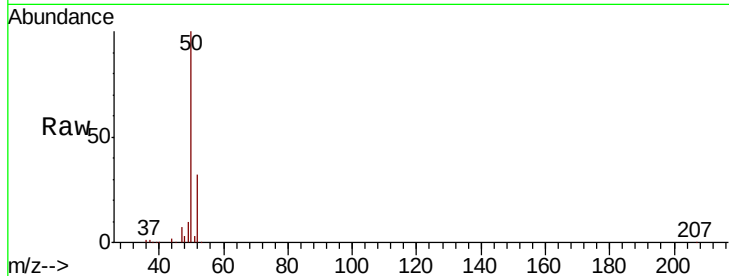
52 32.3 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 49.051 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN053213.D

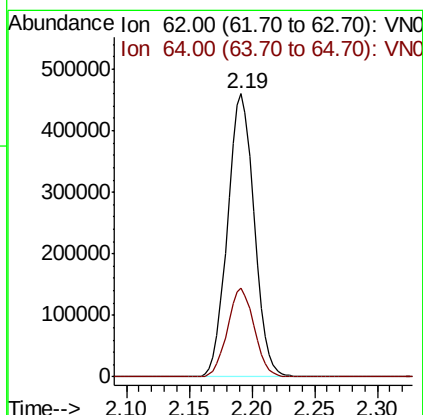
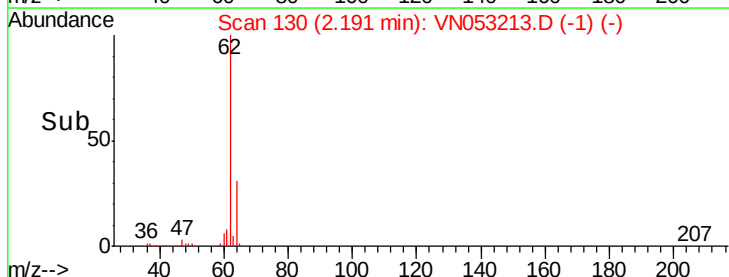
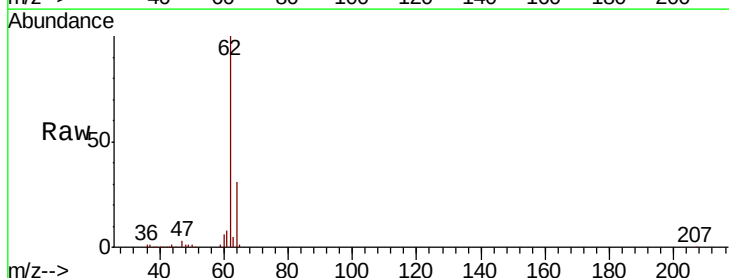
Acq: 28 Dec 2018 9:21

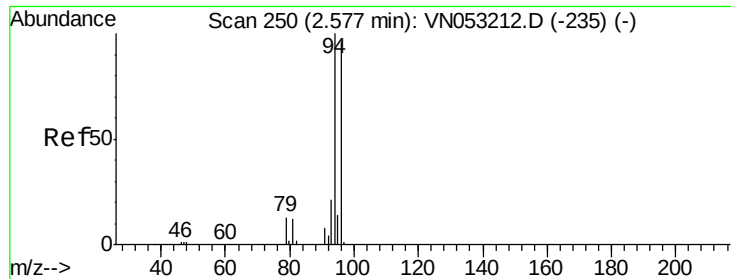
Tgt Ion: 62 Resp: 678188

Ion Ratio Lower Upper

62 100

64 31.2 24.2 36.4





#5

Bromomethane

Concen: 47.107 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 94 Resp: 424586

Ion Ratio Lower Upper

94 100

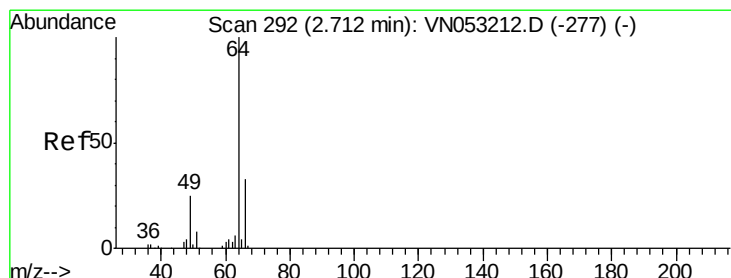
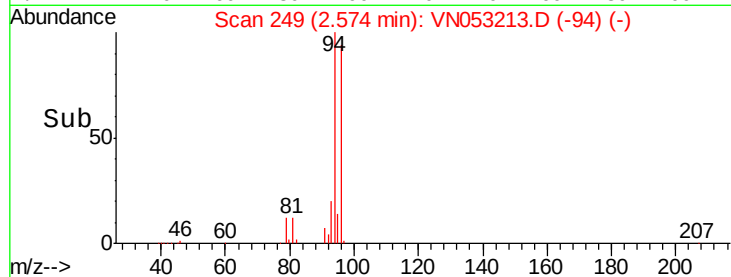
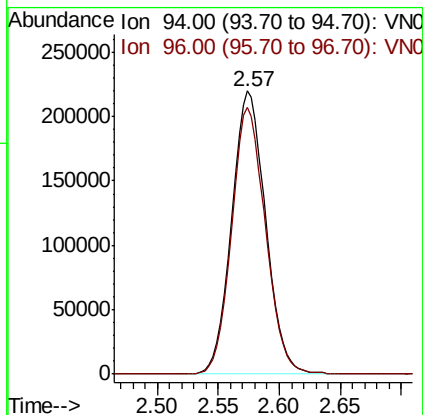
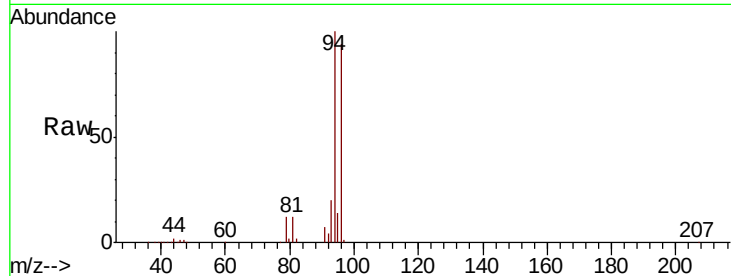
96 94.4 76.2 114.2

Manual Integrations

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#6

Chloroethane

Concen: 47.898 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN053213.D

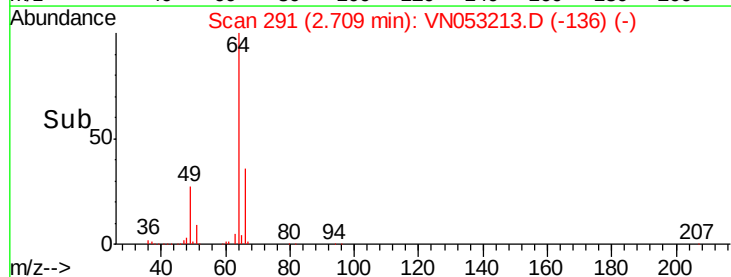
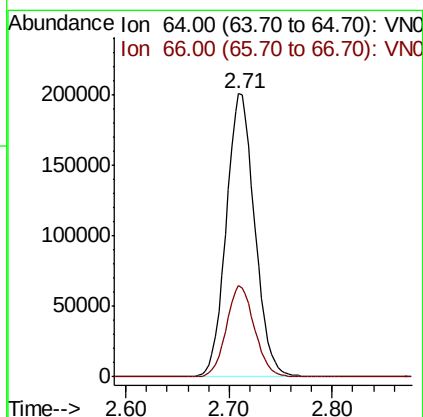
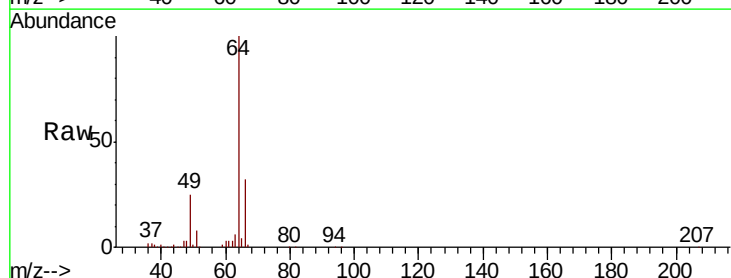
Acq: 28 Dec 2018 9:21

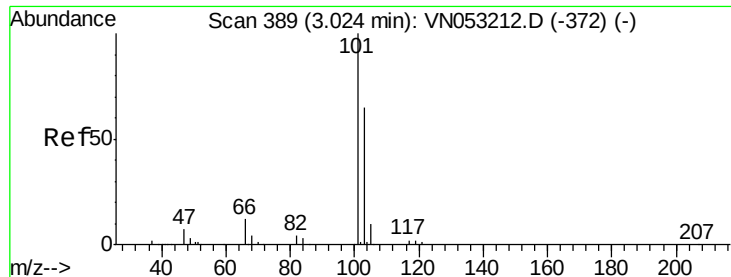
Tgt Ion: 64 Resp: 386865

Ion Ratio Lower Upper

64 100

66 32.1 25.6 38.4





#7

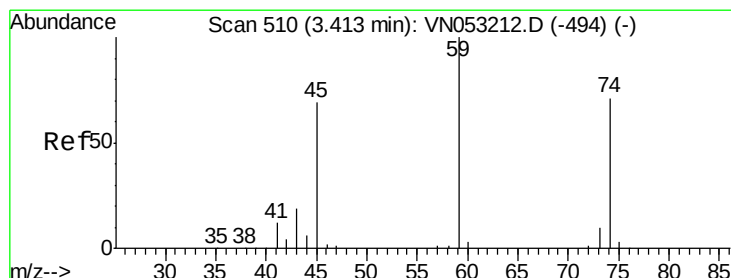
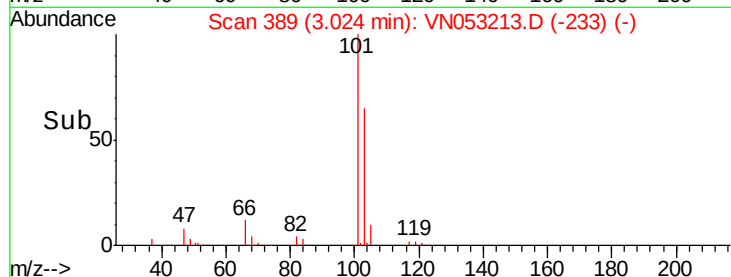
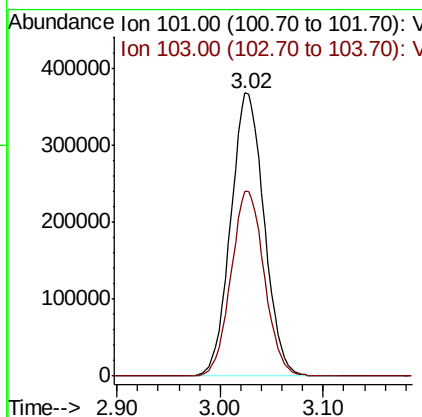
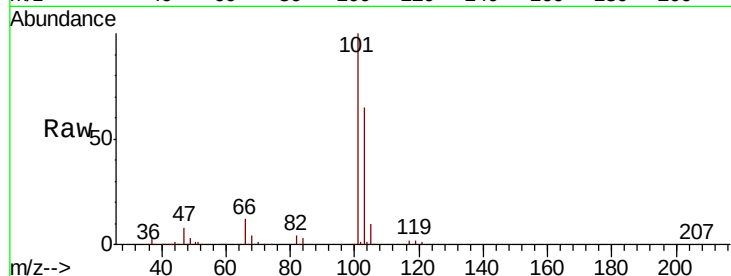
Trichlorofluoromethane
Concen: 48.386 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	101	100	829321		
103	103	65.4	52.1	78.1	

Manual Integrations
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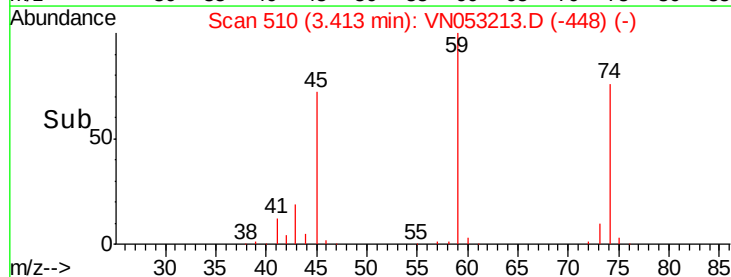
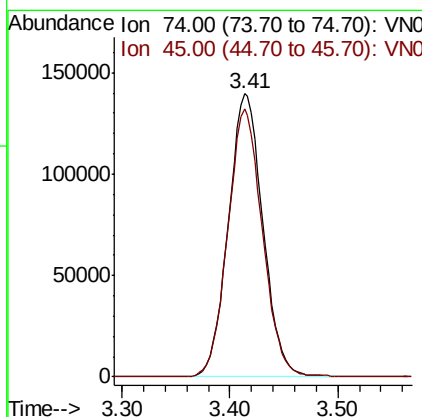
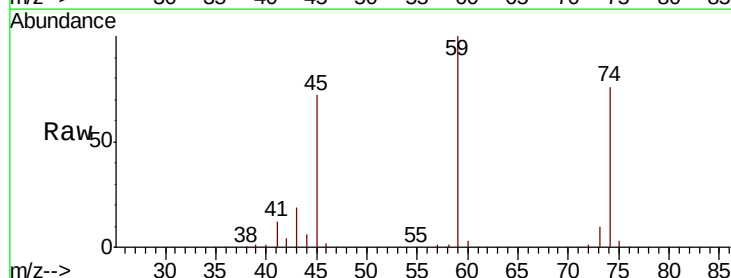
MMDadoda
1/2/2019 9:48:05 AM

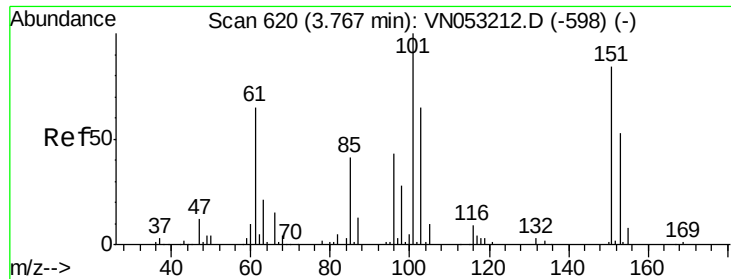


#8

Diethyl Ether
Concen: 49.848 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	74	100	311833		
45	45	94.8	20.6	185.8	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.984 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN053213.D

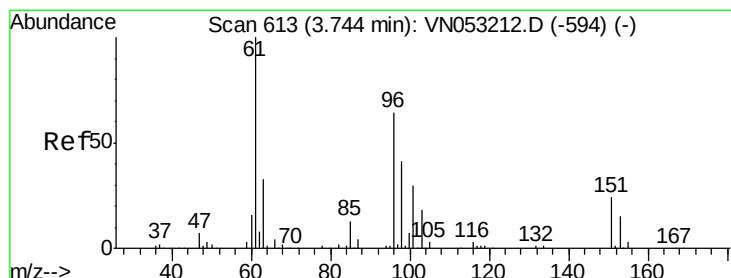
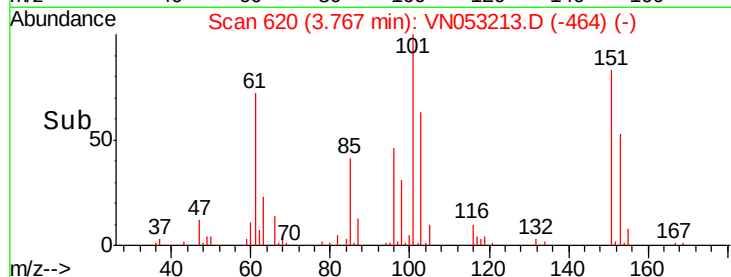
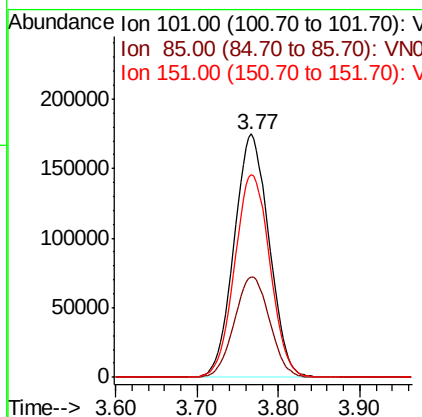
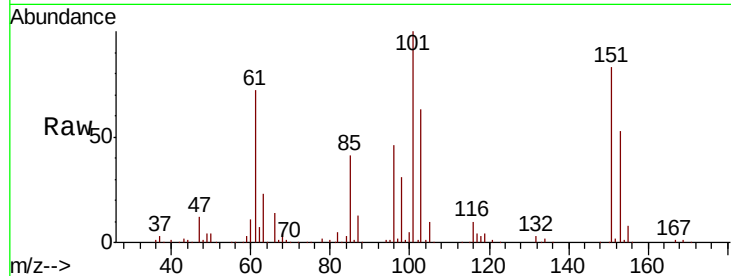
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	519679		
85	41.7	0.0	82.6	
151	84.0	0.0	158.4	

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#10

1,1-Dichloroethene

Concen: 48.128 ug/l

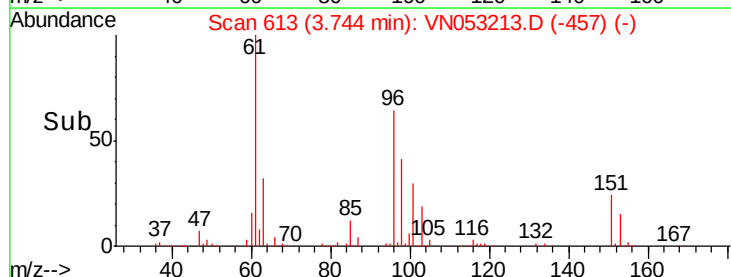
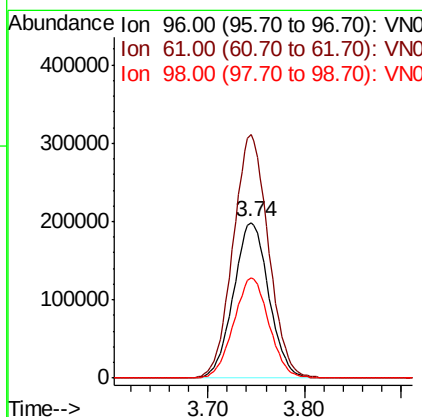
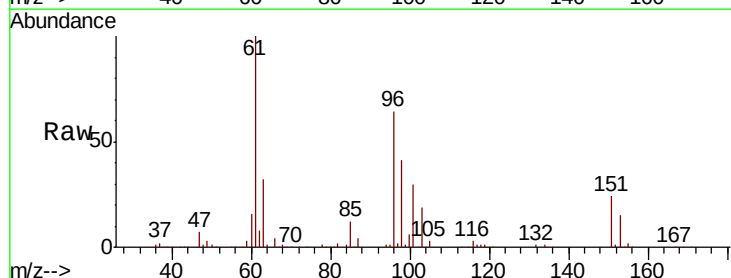
RT: 3.74 min Scan# 613

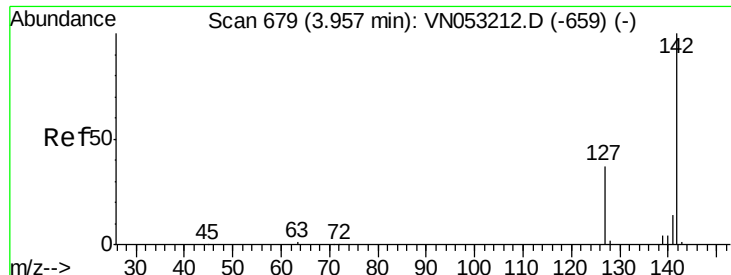
Delta R.T. -0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	504710		
61	156.6	129.4	194.2	
98	64.4	50.4	75.6	





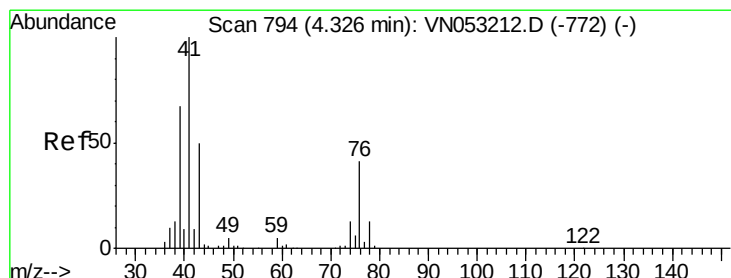
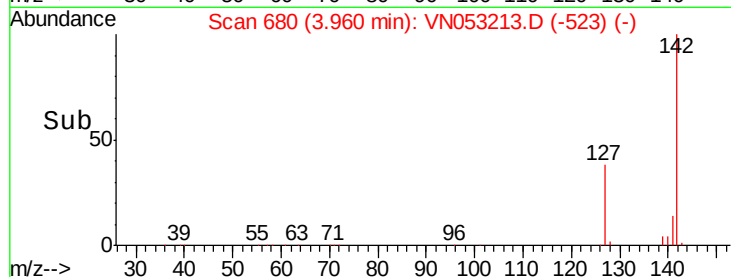
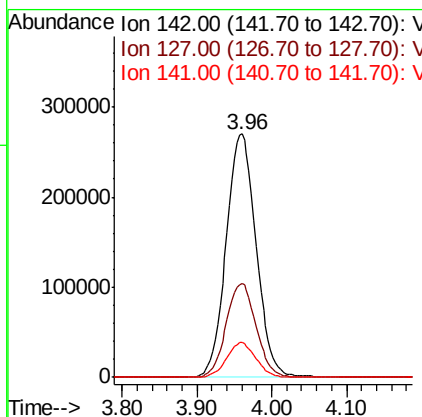
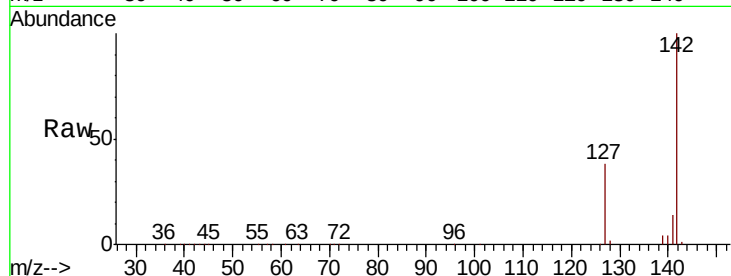
#11
Methvl Iodide
Concen: 52.440 ug/l
RT: 3.96 min Scan# 680
Delta R.T. 0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
142	100		
127	38.3	19.4	58.1
141	14.3	7.2	21.6

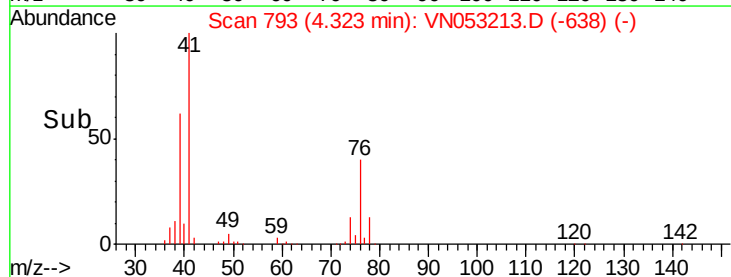
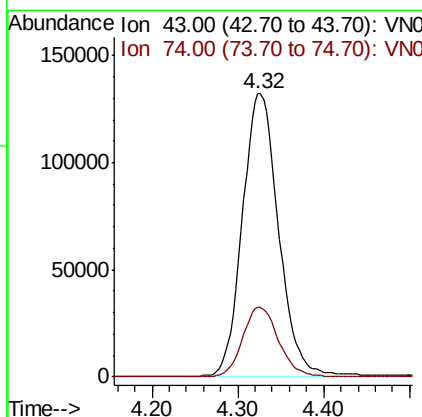
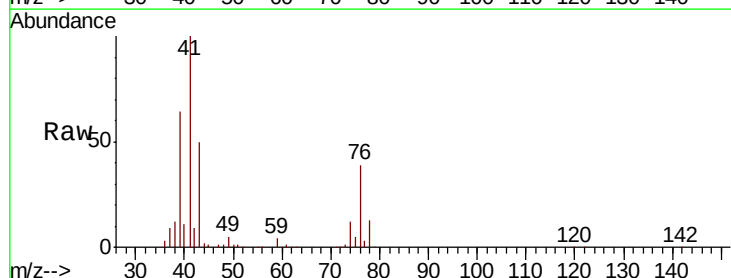
Manual Integrations
APPROVED

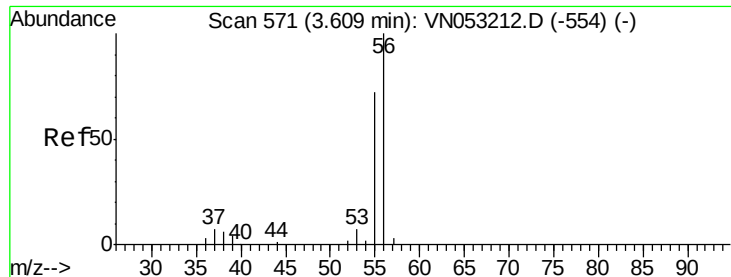
MMDadoda
1/2/2019 9:48:05 AM



#12
Methyl Acetate
Concen: 47.066 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.9	18.9	28.3





#13

Acrolein

Concen: 261.835 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 56 Resp: 242428

Ion Ratio Lower Upper

56 100

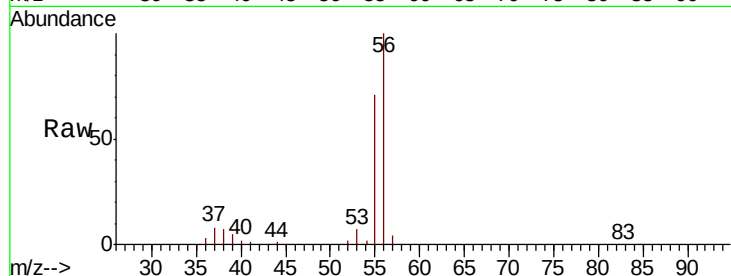
55 70.8 56.7 85.1

Manual Integrations

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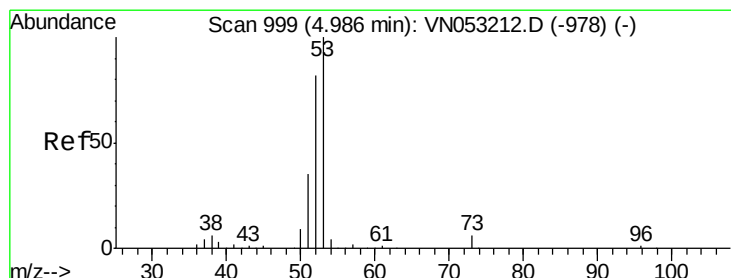
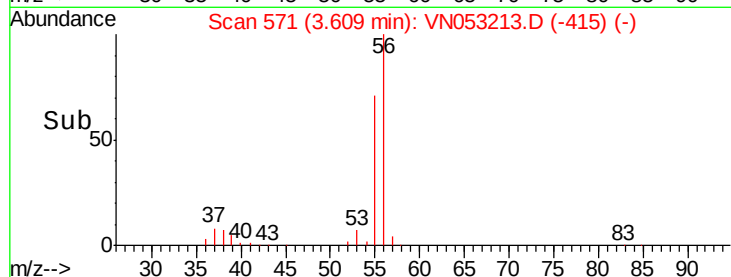
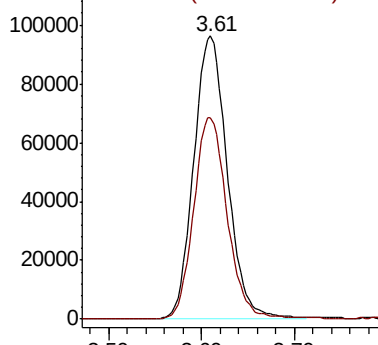
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 251.829 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

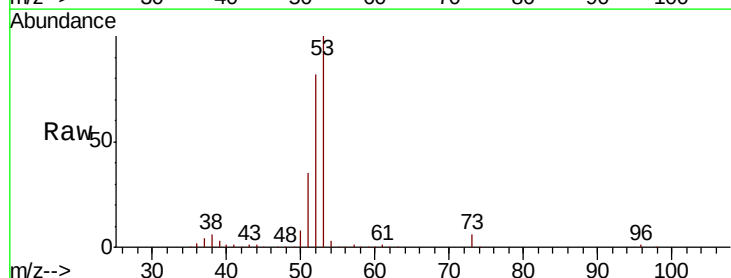
Tgt Ion: 53 Resp: 897010

Ion Ratio Lower Upper

53 100

52 81.4 39.9 119.7

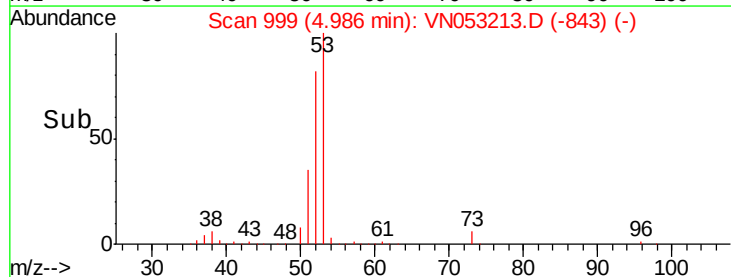
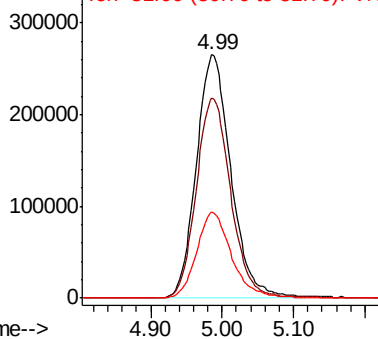
51 35.6 17.6 52.9

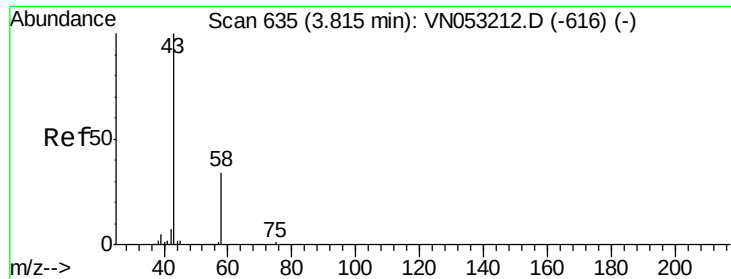


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 244.835 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 58 Resp: 187151

Ion Ratio Lower Upper

58 100

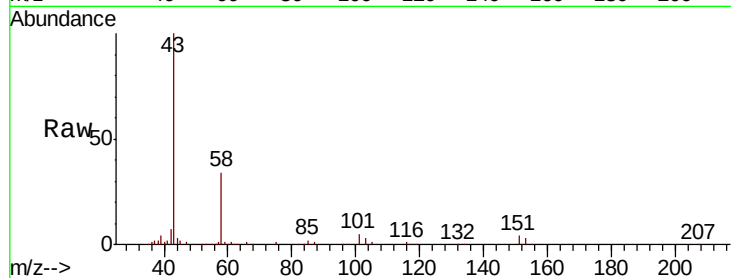
43 295.8 243.6 365.4

Manual Integrations

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Abundance Ion 58.00 (57.70 to 58.70): VN053212.D (-616) (-)

Ion 43.00 (42.70 to 43.70): VN053212.D (-616) (-)

250000

200000

150000

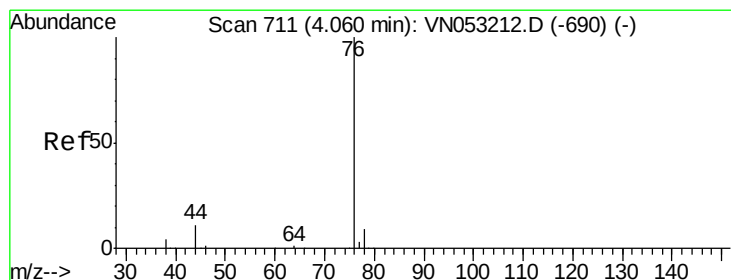
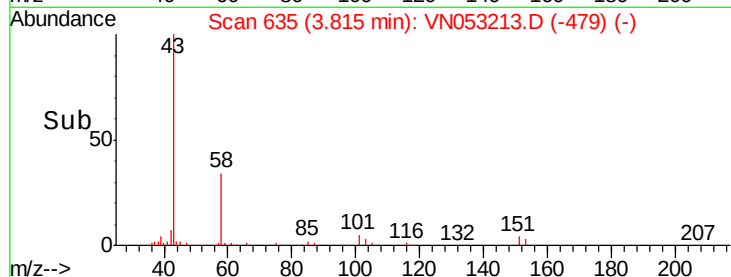
100000

50000

0

3.82

Time-->



#16

Carbon Disulfide

Concen: 49.466 ug/l

RT: 4.06 min Scan# 711

Delta R.T. -0.00 min

Lab File: VN053213.D

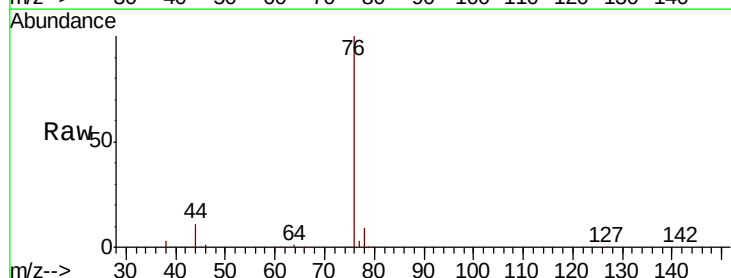
Acq: 28 Dec 2018 9:21

Tgt Ion: 76 Resp: 1563605

Ion Ratio Lower Upper

76 100

78 9.4 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN053212.D (-690) (-)

Ion 78.00 (77.70 to 78.70): VN053212.D (-690) (-)

600000

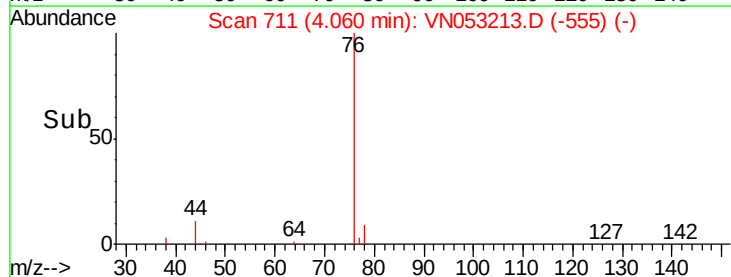
400000

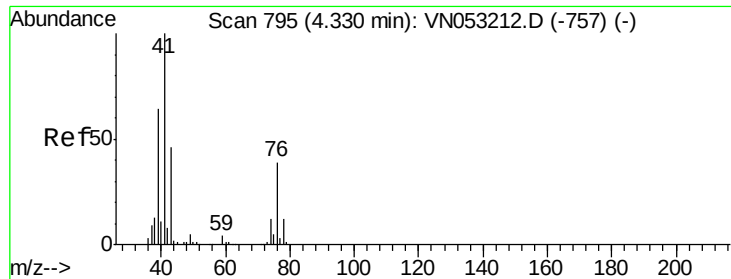
200000

0

4.06

Time-->





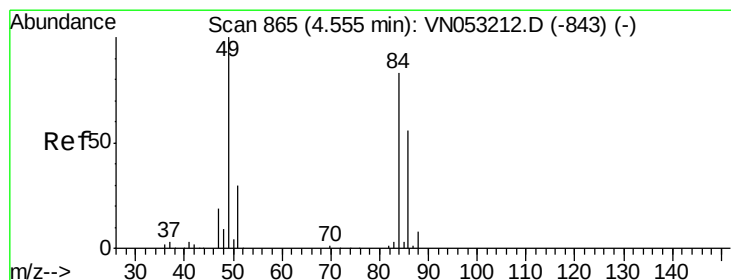
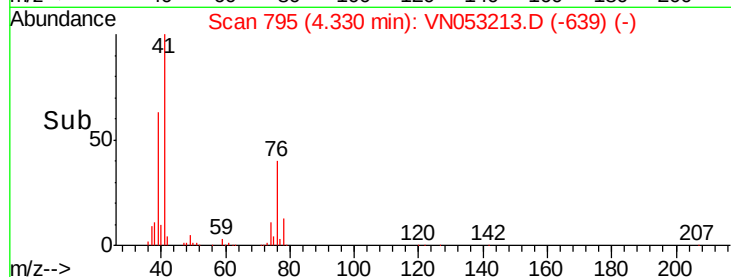
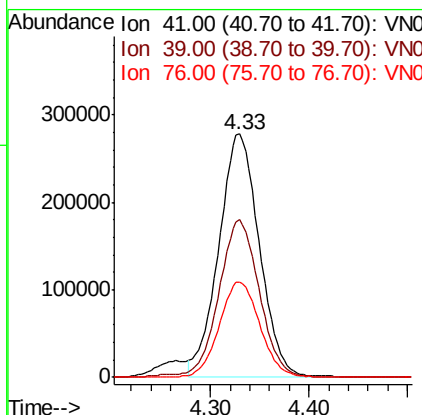
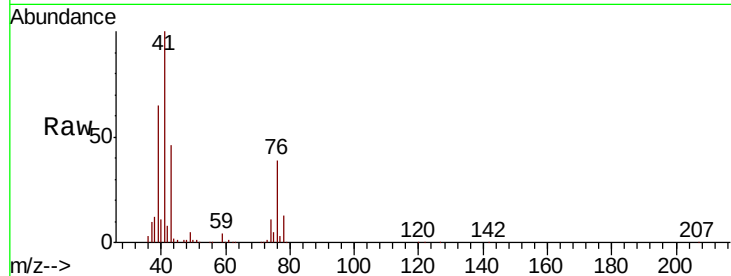
#17
Allvl chloride
Concen: 48.659 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion:	41	Resp:	794239
Ion	Ratio	Lower	Upper
41	100		
39	64.7	32.8	98.3
76	39.1	18.6	55.8

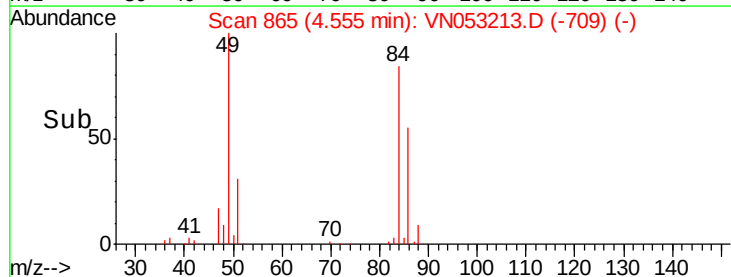
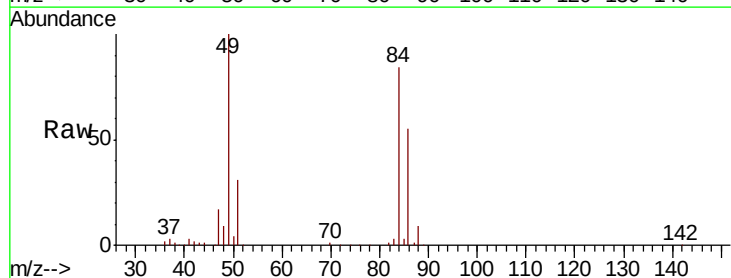
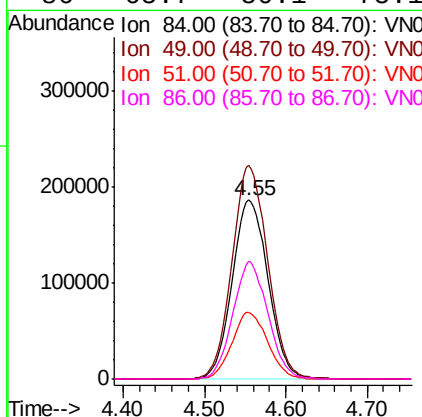
Manual Integrations
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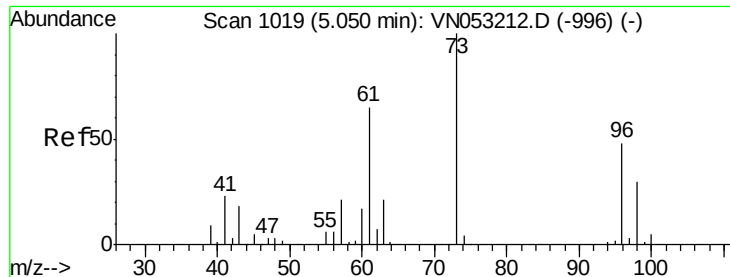
MMDadoda
1/2/2019 9:48:05 AM



#18
Methylene Chloride
Concen: 46.113 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion:	84	Resp:	570699
Ion	Ratio	Lower	Upper
84	100		
49	119.4	101.4	152.0
51	37.3	31.7	47.5
86	65.7	50.1	75.1





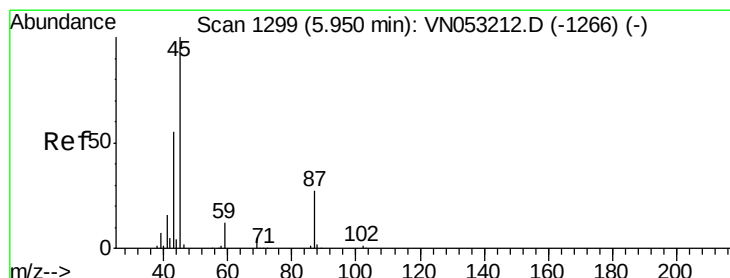
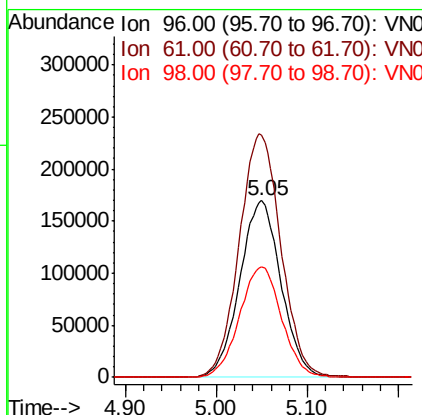
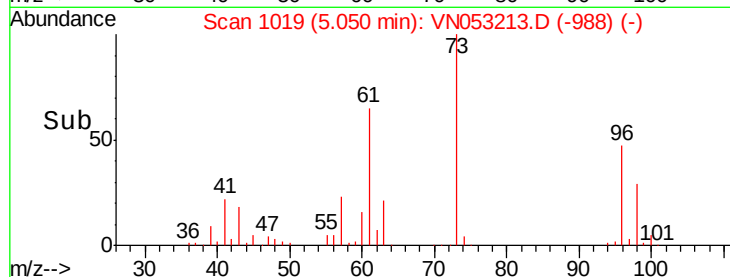
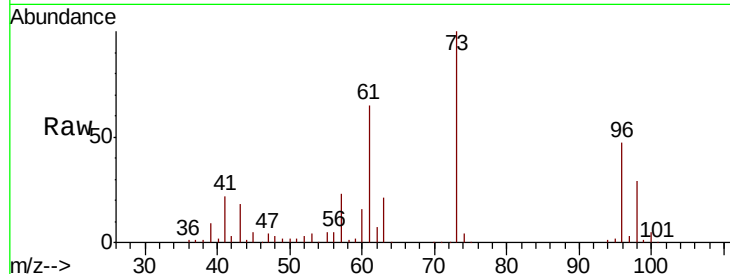
#19
trans-1,2-Dichloroethene
Concen: 48.037 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.8	118.2	177.4
98	62.5	51.4	77.2

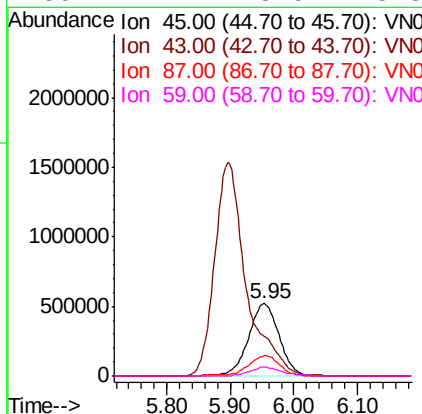
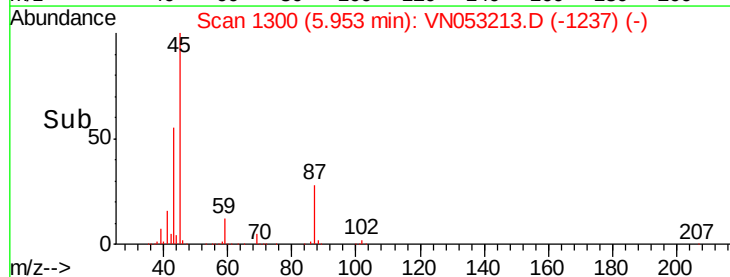
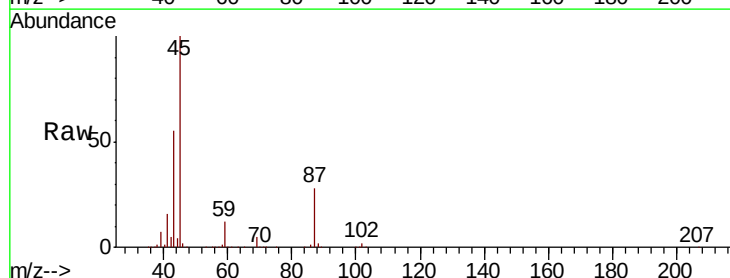
Manual Integrations
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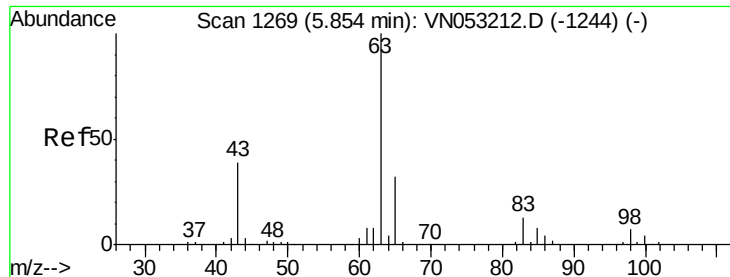
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#20
Diisopropyl ether
Concen: 49.437 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Lower	Upper
45	100		
43	54.2	47.8	71.8
87	27.7	21.3	31.9
59	12.1	8.9	13.3





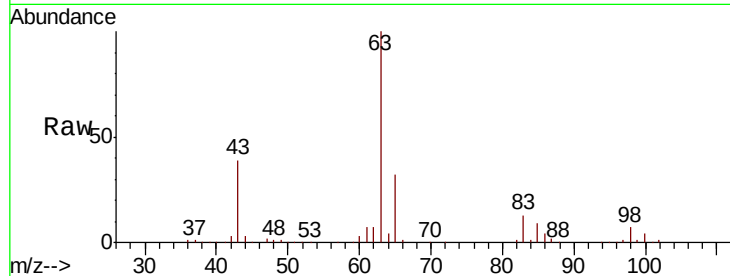
#21
 1,1-Dichloroethane
 Concen: 48.664 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN053213.D
 Acq: 28 Dec 2018 9:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

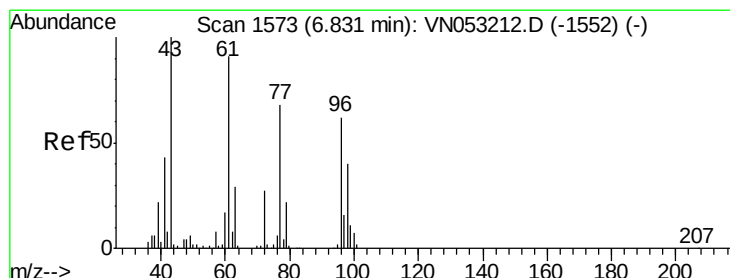
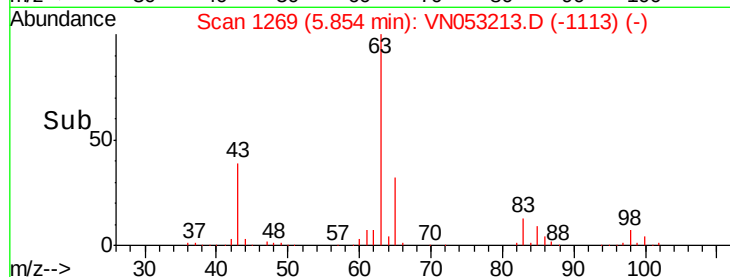
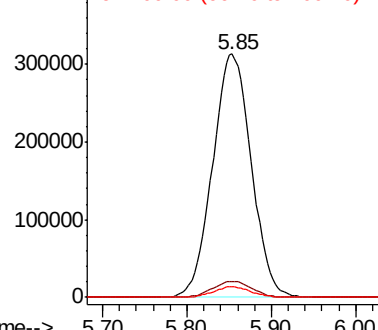
Tot Ion	Ratio	Resp	Lower	Upper
63	100			
98	6.7	3.0	9.2	
100	4.3	1.8	5.5	

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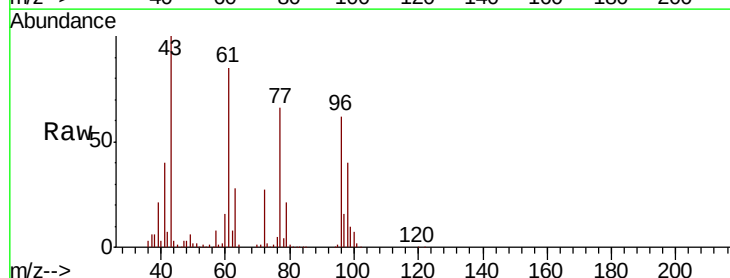


Abundance Ion 63.00 (62.70 to 63.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0

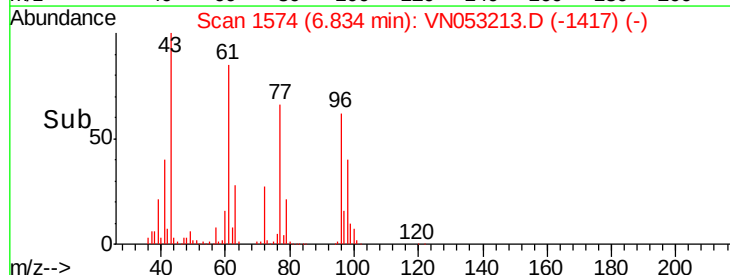
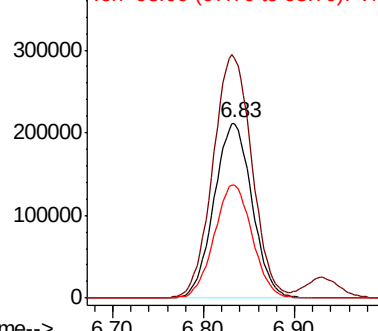


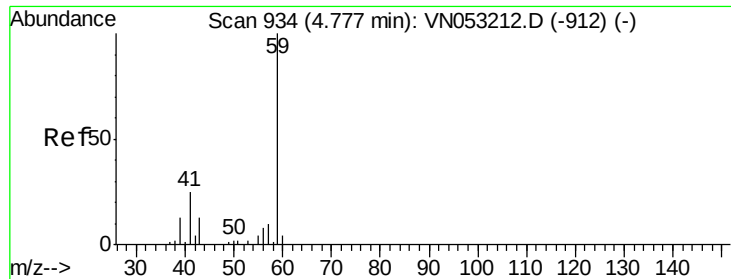
#22
 cis-1,2-Dichloroethene
 Concen: 49.972 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VN053213.D
 Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	142.4	116.7	175.1	
98	64.7	50.8	76.2	



Abundance Ion 96.00 (95.70 to 96.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0





#23

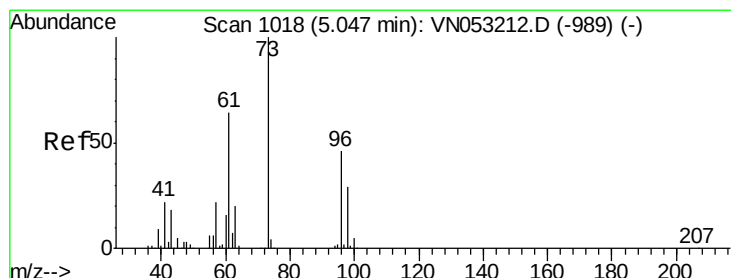
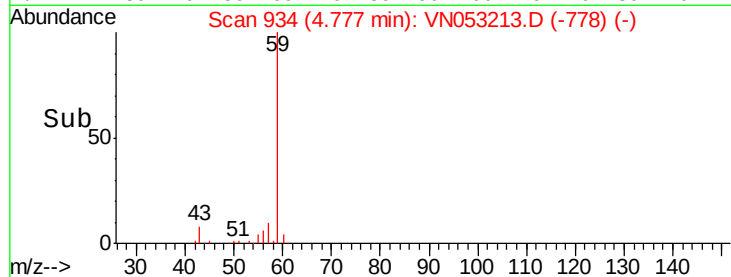
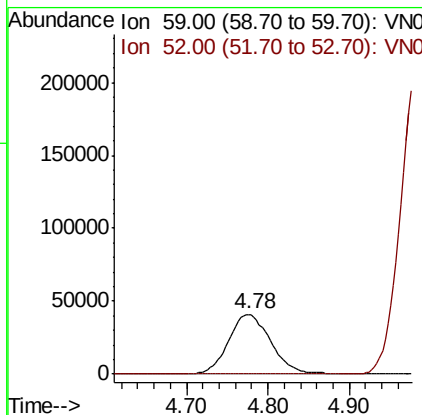
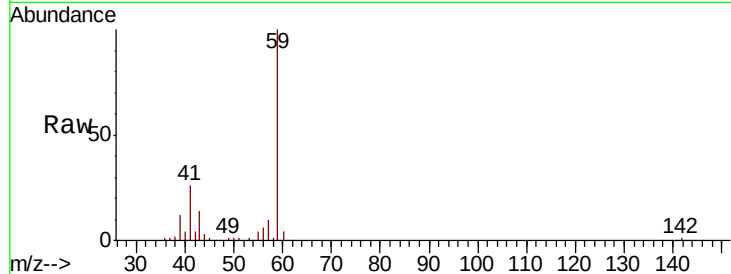
tert-Butyl Alcohol
Concen: 252.993 ug/l
RT: 4.78 min Scan# 934
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

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

Manual Integrations
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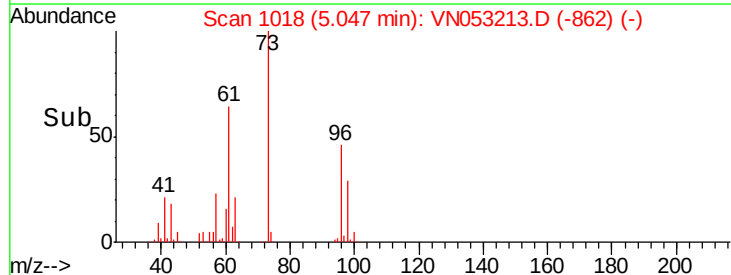
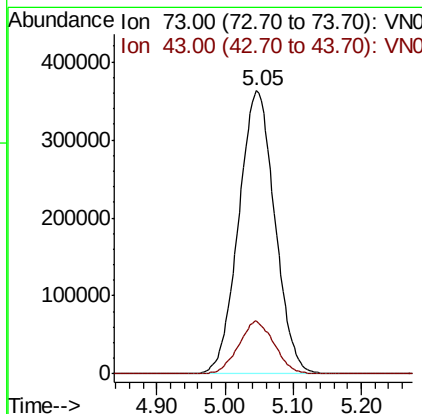
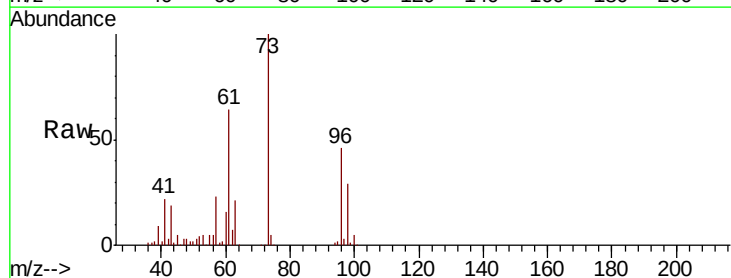
MMDadoda
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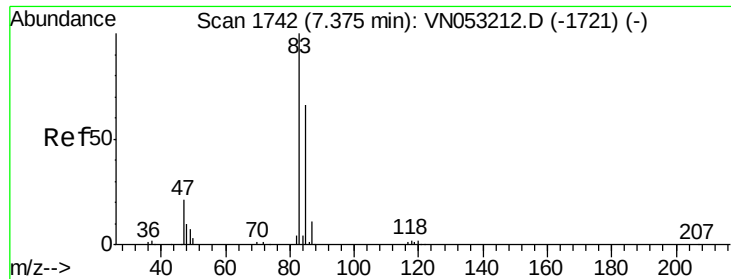


#24

Methyl tert-Butyl Ether
Concen: 49.889 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Lower	Upper
73	100		
43	18.2	15.8	23.8





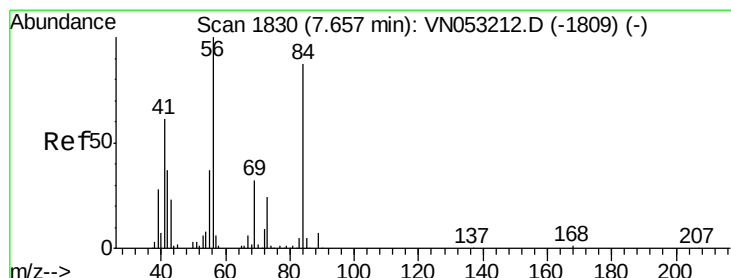
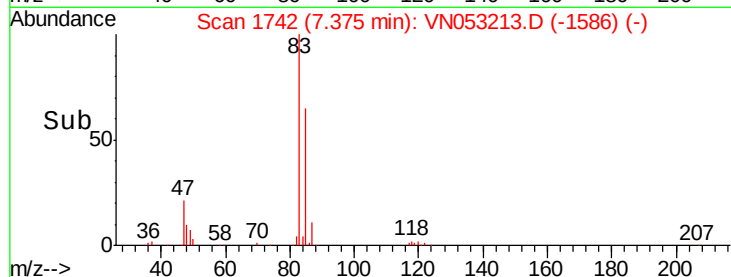
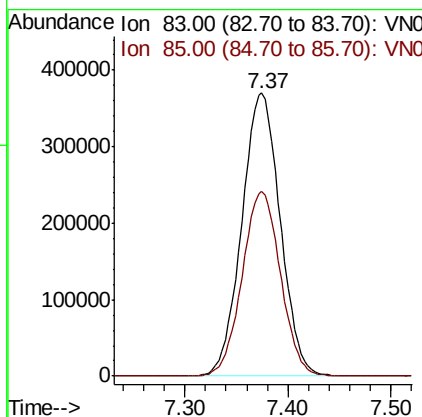
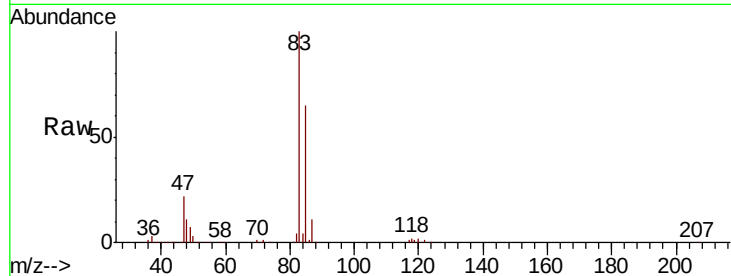
#25
Chloroform
Concen: 48.331 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	83	Resp	957157
Ion Ratio	100	Lower	Upper
83	100		
85	65.4	51.7	77.5

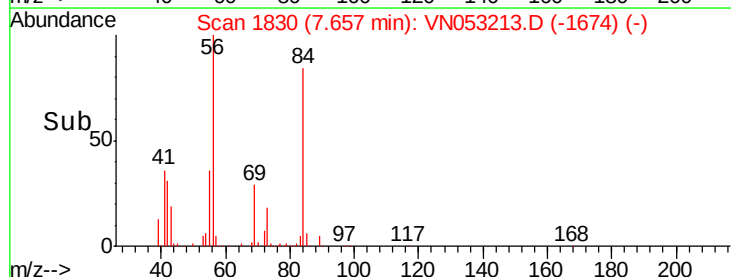
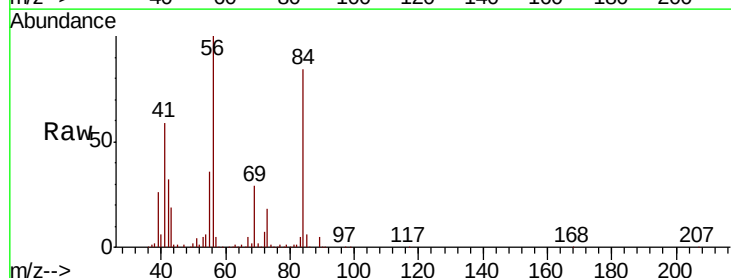
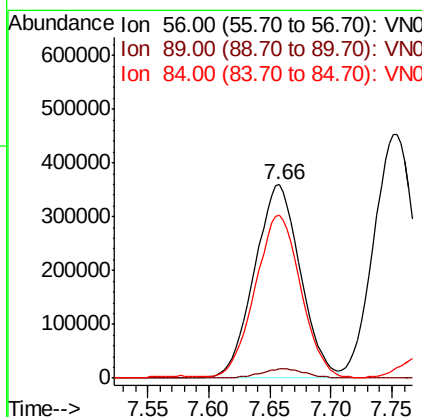
Manual Integrations
APPROVED

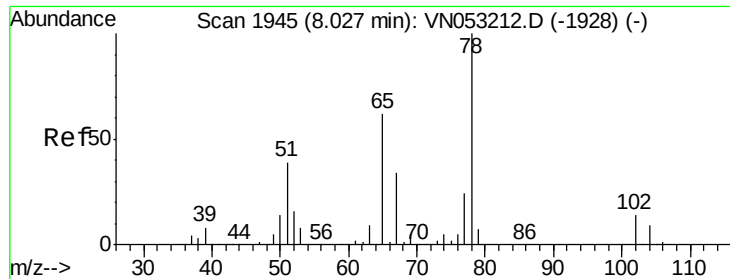
MMDadoda
1/2/2019 9:48:05 AM



#26
Cyclohexane
Concen: 50.035 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion	56	Resp	940668
Ion Ratio	100	Lower	Upper
56	100		
89	4.7	0.5	0.7#
84	83.2	66.2	99.2





#27

1,2-Dichloroethane-d4

Concen: 50.035 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Tot Ion: 65 Resp: 338307

Ion Ratio Lower Upper

65 100

67 55.8 44.6 66.8

Instrument :

MSVOA_N

ClientSampleId :

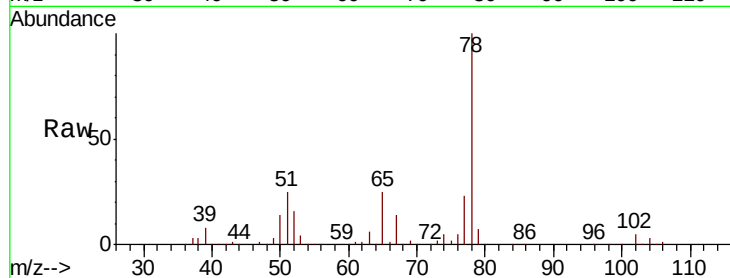
VSTDIC050

Manual Integrations

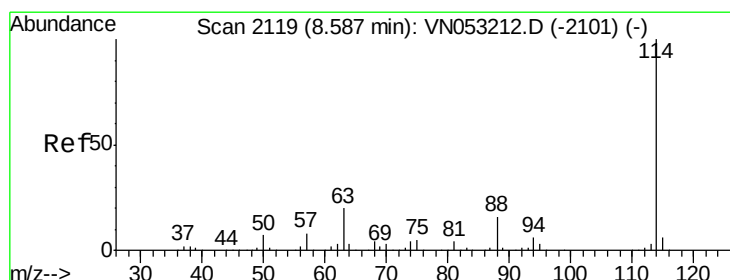
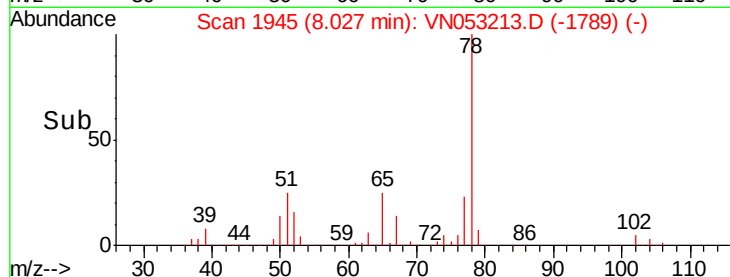
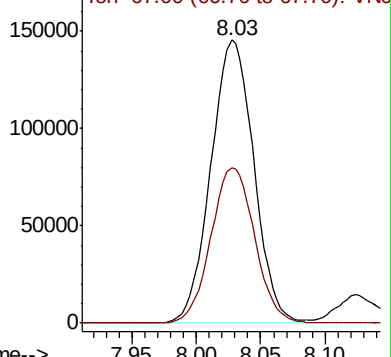
APPROVED

MMDadoda

1/2/2019 9:48:05 AM



Abundance Ion 65.00 (64.70 to 65.70): VN053213.D (-1789) (-)



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

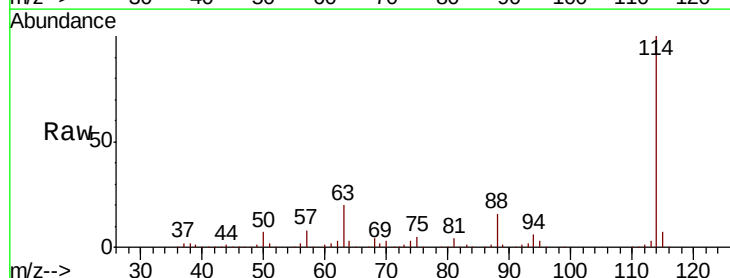
Tgt Ion: 114 Resp: 1038882

Ion Ratio Lower Upper

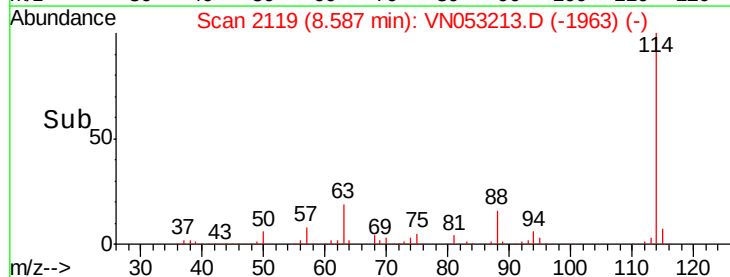
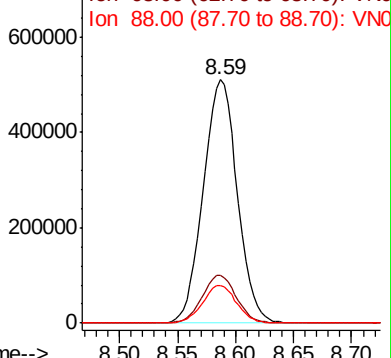
114 100

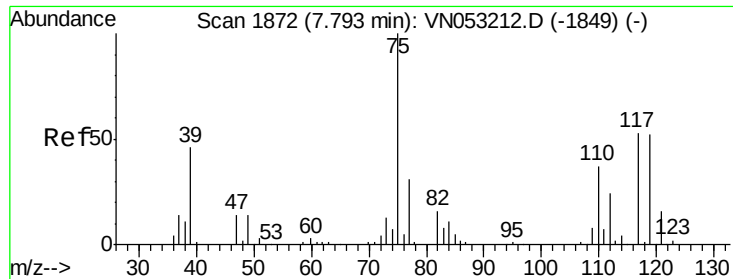
63 19.7 16.9 25.3

88 15.5 12.8 19.2



Abundance Ion 114.00 (113.70 to 114.70): VN053213.D (-1963) (-)





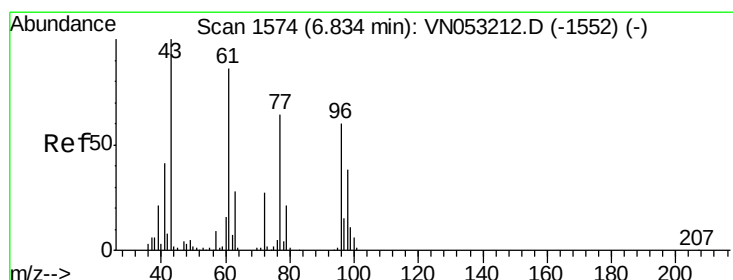
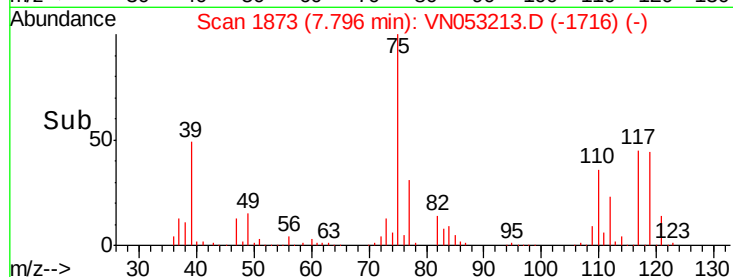
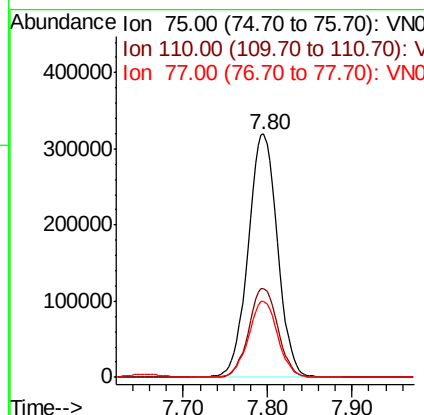
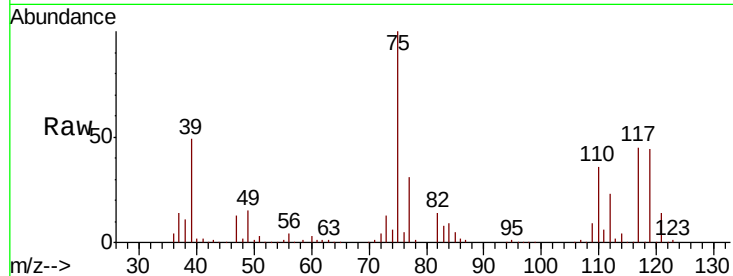
#29
 1,1-Dichloropropene
 Concen: 48.924 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN053213.D
 Acq: 28 Dec 2018 9:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	36.1	0.0	70.2
77	31.2	0.0	62.6

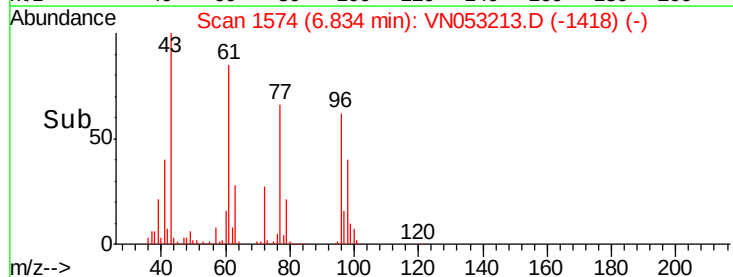
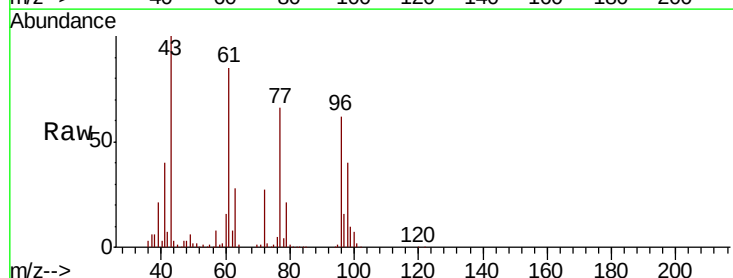
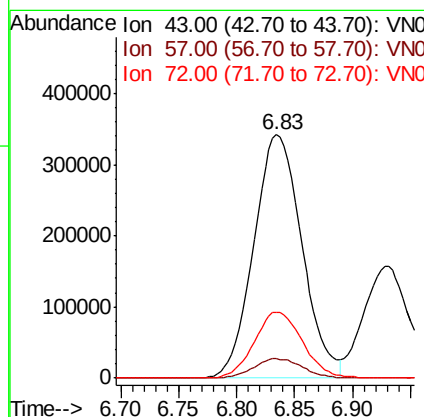
Manual Integrations
 APPROVED

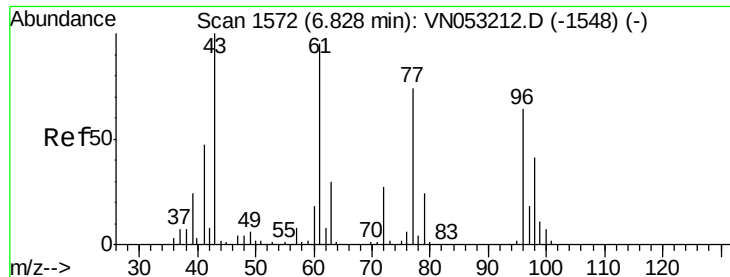
MMDadoda
 1/2/2019 9:48:05 AM



#30
 2-Butanone
 Concen: 257.061 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VN053213.D
 Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	8.1	6.2	9.4
72	27.4	21.0	31.6





#31

2,2-Dichloropropane

Concen: 49.427 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

ClientSampled :

VSTDIC050

Tot Ion: 77 Resp: 749256

Ion Ratio Lower Upper

77 100

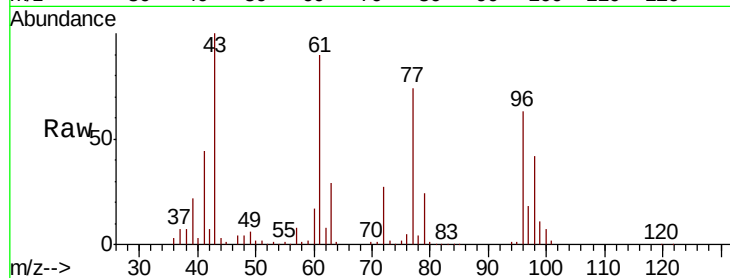
97 24.2 18.7 28.1

Manual Integrations

APPROVED

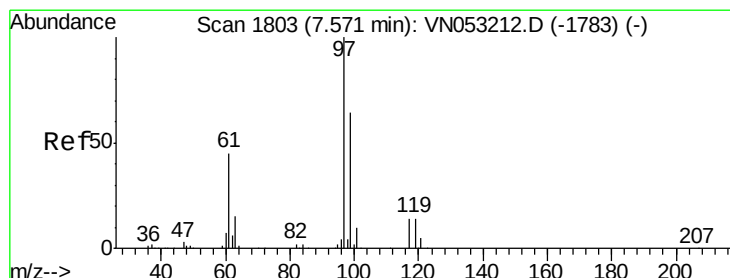
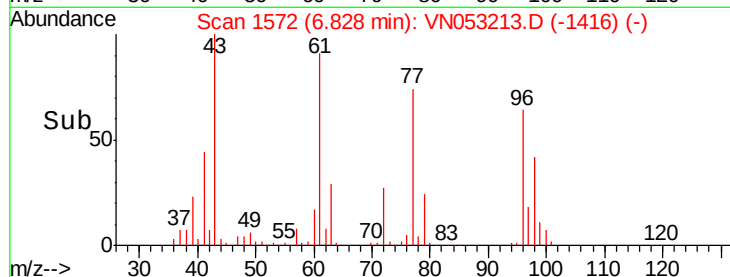
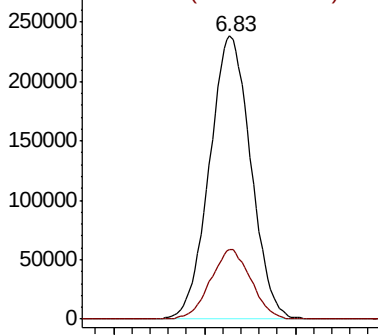
MMDadoda

1/2/2019 9:48:05 AM



Abundance Ion 77.00 (76.70 to 77.70): VN0

Ion 97.00 (96.70 to 97.70): VN0



#32

1,1,1-Trichloroethane

Concen: 49.247 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

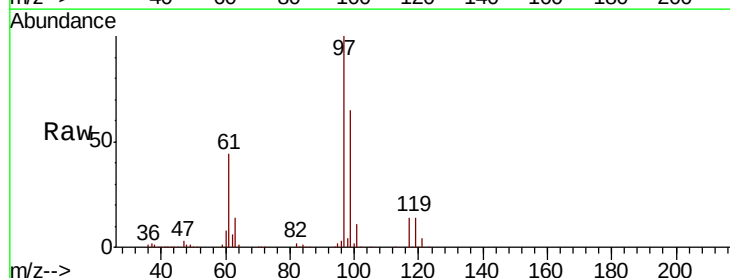
Tgt Ion: 97 Resp: 811381

Ion Ratio Lower Upper

97 100

99 64.8 50.9 76.3

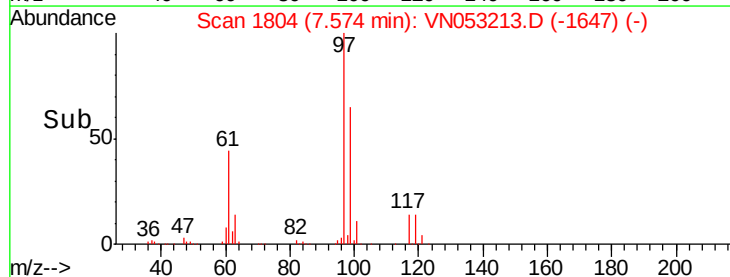
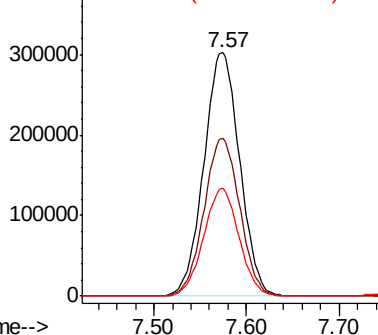
61 43.6 38.1 57.1

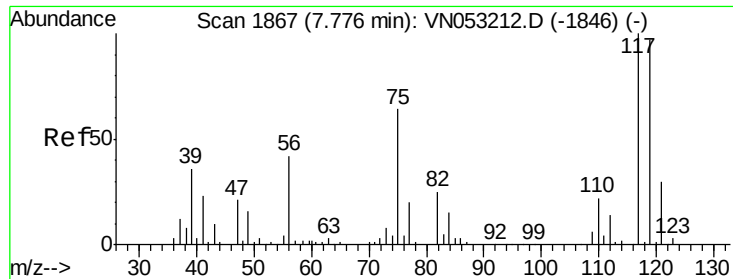


Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 99.00 (98.70 to 99.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





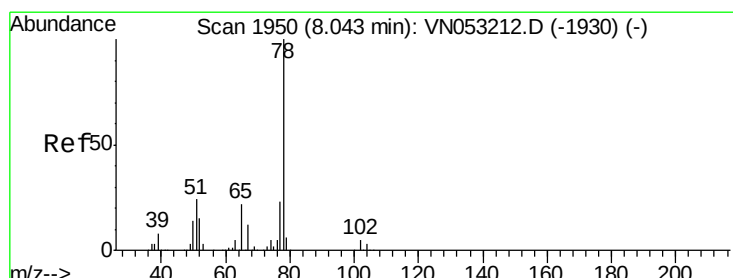
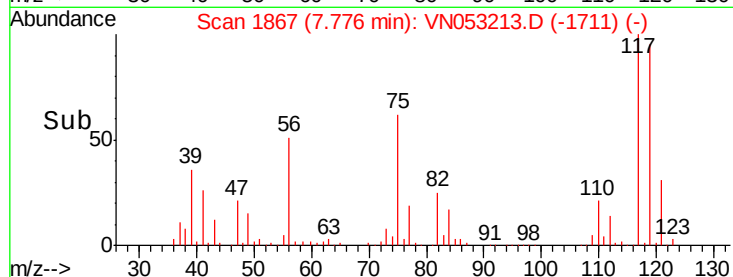
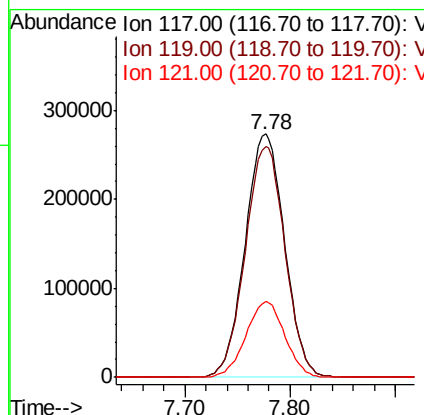
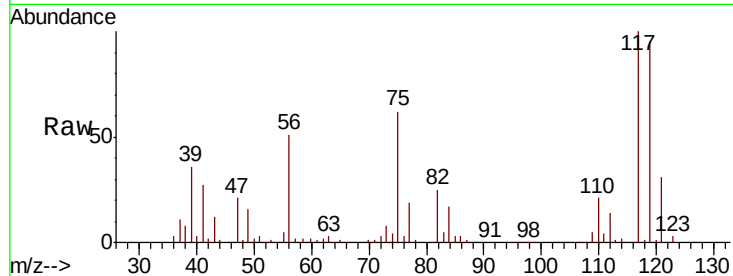
#33
Carbon Tetrachloride
Concen: 50.220 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.0	77.3	115.9
121	31.0	24.9	37.3

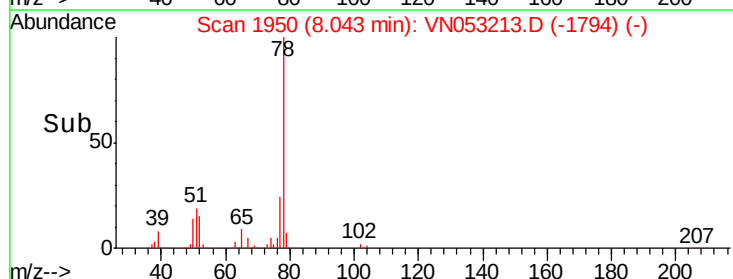
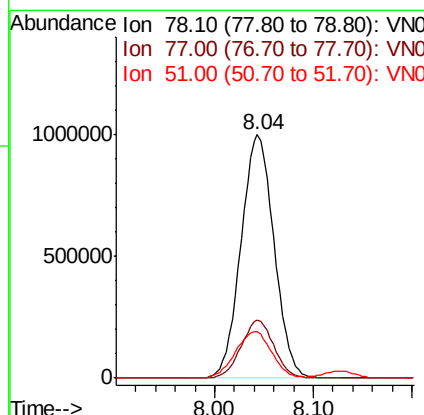
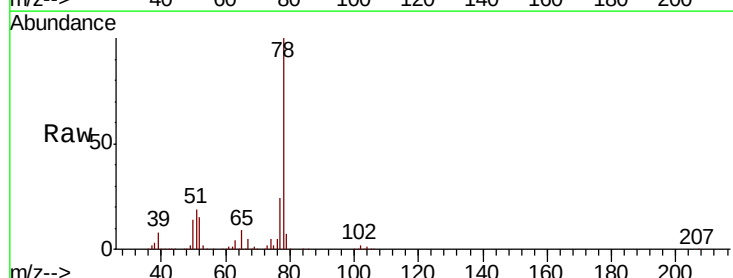
Manual Integrations
APPROVED

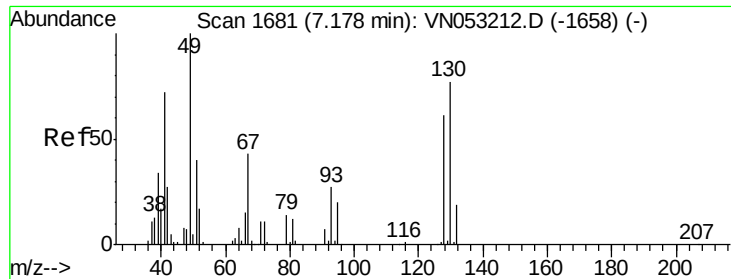
MMDadoda
1/2/2019 9:48:05 AM



#34
Benzene
Concen: 48.104 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.6
51	19.0	20.5	30.7#





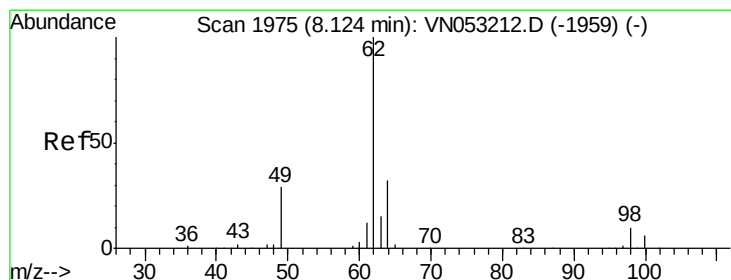
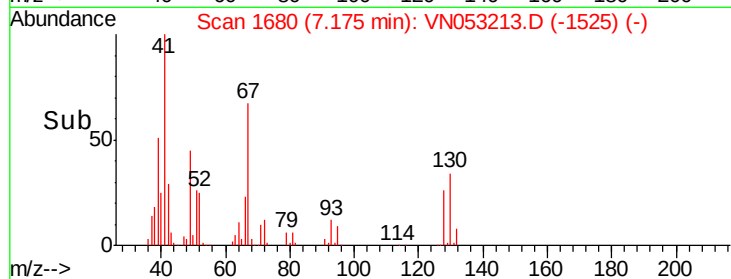
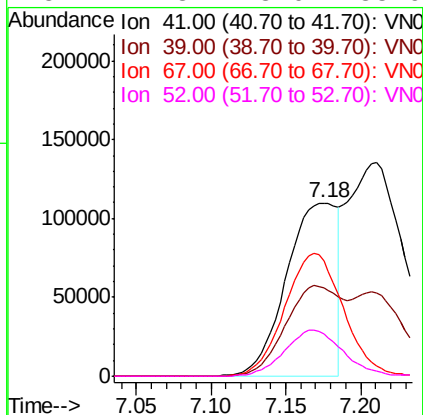
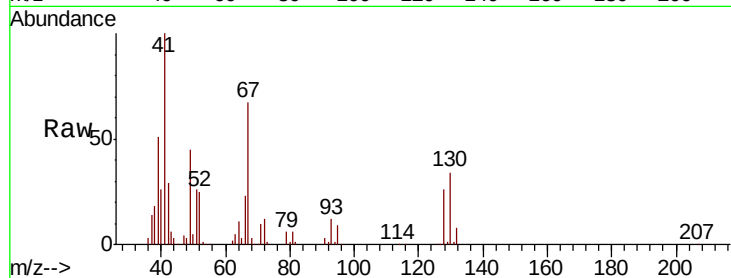
#35
Methacrylonitrile
Concen: 50.533 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampled :
VSTDIC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	51.2	26.6	79.7	
67	66.5	32.3	96.9	
52	24.3	13.0	38.9	

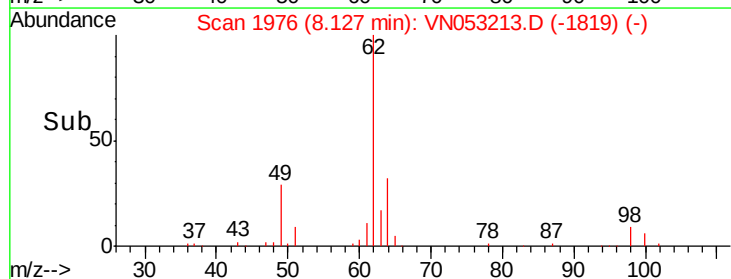
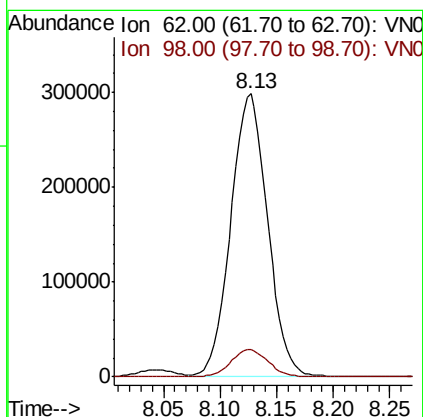
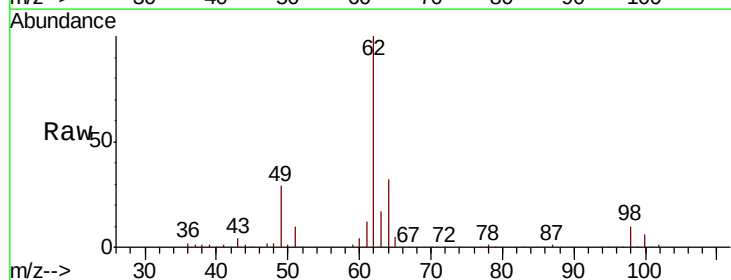
Manual Integrations
APPROVED

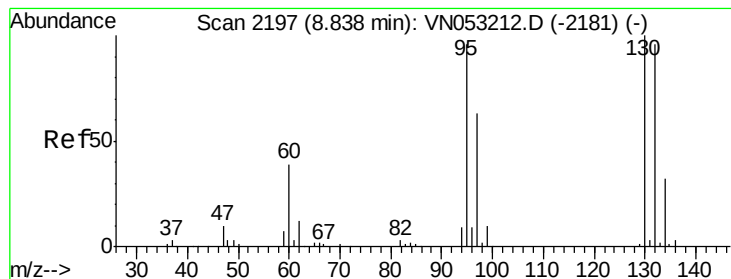
MMDadoda
1/2/2019 9:48:05 AM



#36
1,2-Dichloroethane
Concen: 47.740 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.8	7.4	11.2	





#37

Trichloroethene

Concen: 48.655 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion:130 Resp: 630956

Ion Ratio Lower Upper

130 100

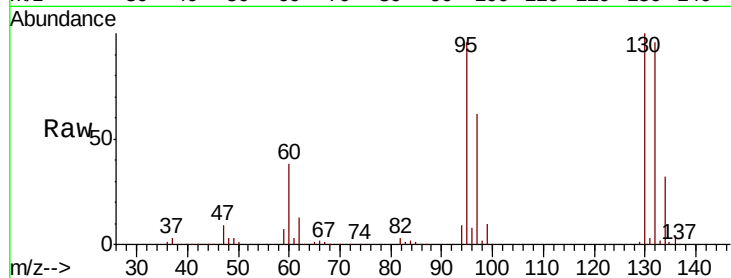
95 96.3 81.0 121.4

Manual Integrations

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1/2/2019 9:48:05 AM



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.84

300000

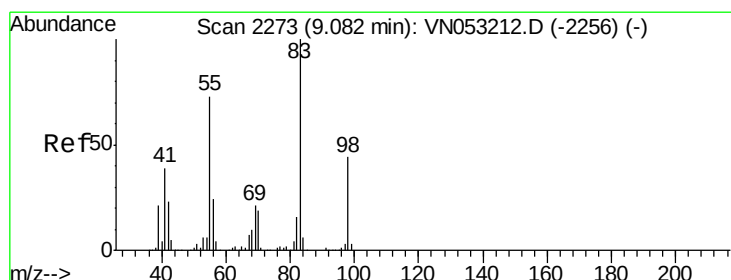
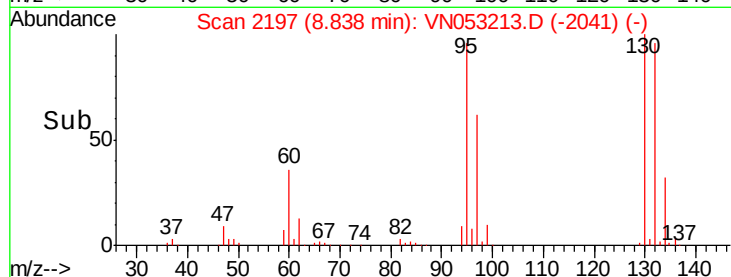
200000

100000

0

8.75 8.80 8.85 8.90 8.95

Time-->



#38

Methylcyclohexane

Concen: 49.632 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

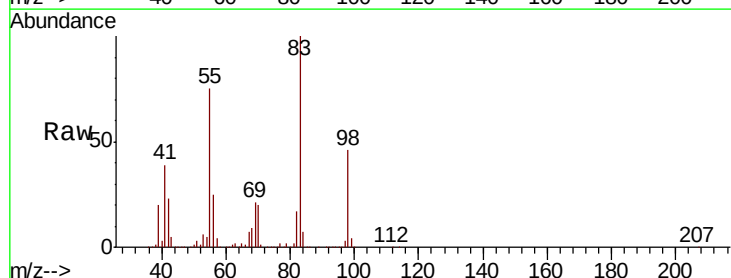
Tgt Ion: 83 Resp: 910243

Ion Ratio Lower Upper

83 100

55 74.5 39.8 119.4

98 45.3 22.9 68.5



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

9.08

600000

500000

400000

300000

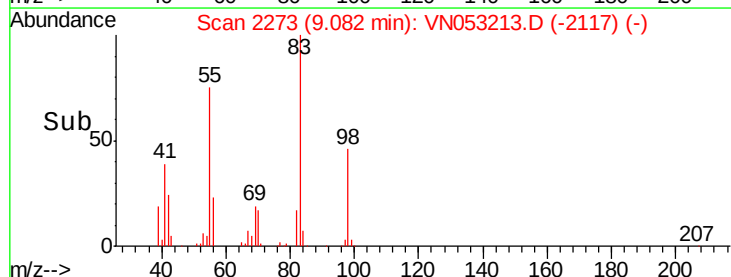
200000

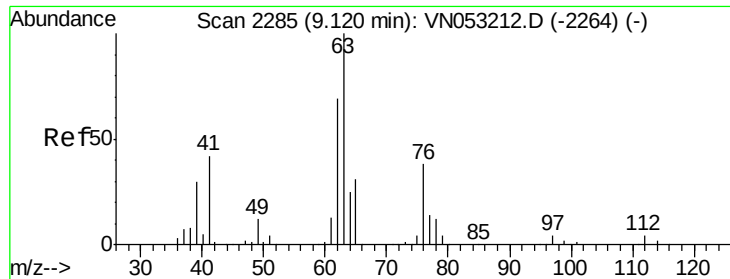
100000

0

9.00 9.10 9.20

Time-->





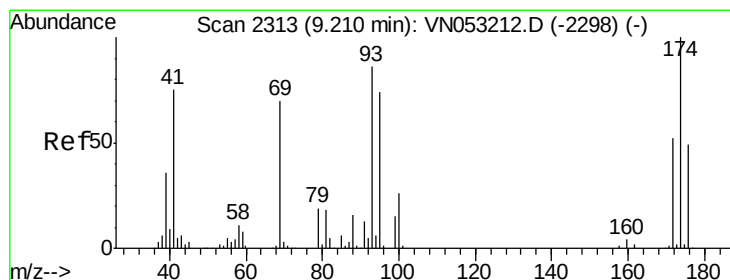
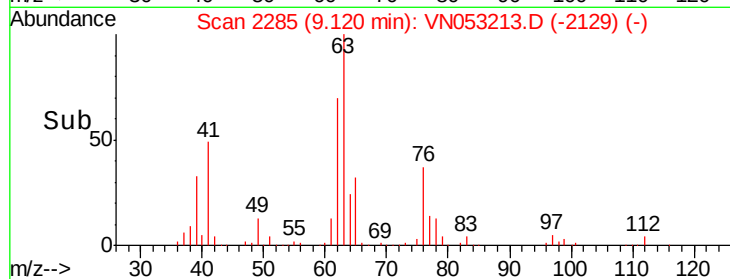
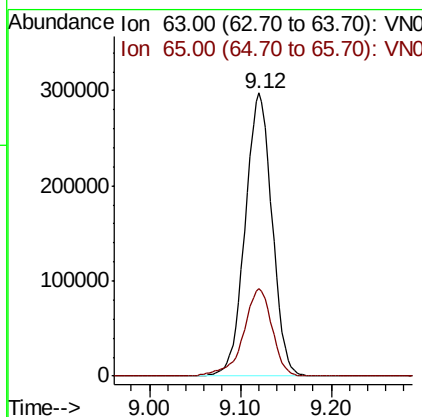
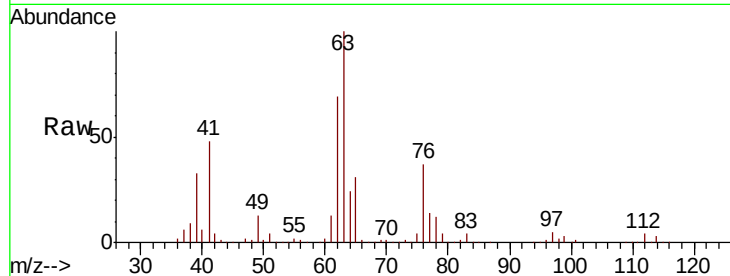
#39
 1,2-Dichloropropane
 Concen: 49.090 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053213.D
 Acq: 28 Dec 2018 9:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.0	23.6	35.4

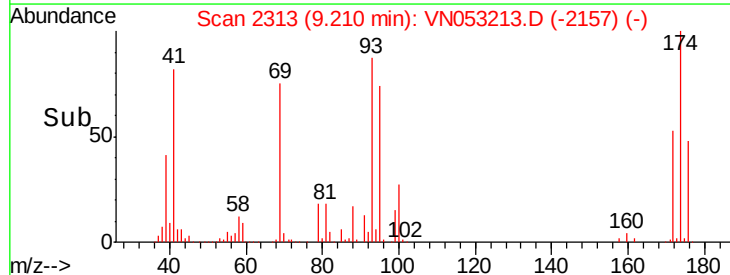
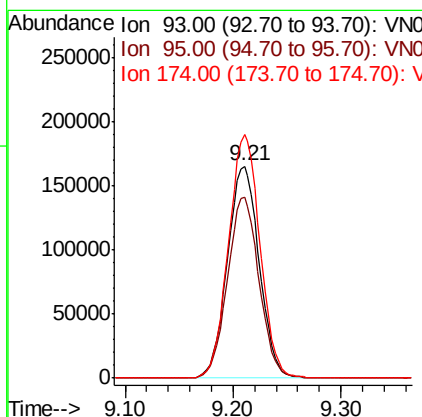
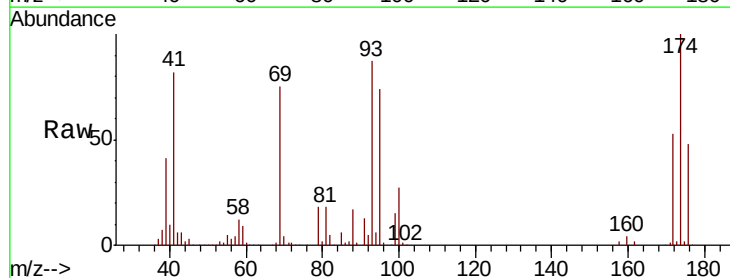
Manual Integrations
 APPROVED

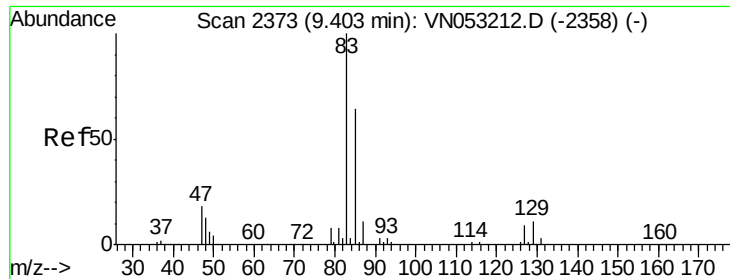
MMDadoda
 1/2/2019 9:48:05 AM



#40
 Dibromomethane
 Concen: 47.936 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. -0.00 min
 Lab File: VN053213.D
 Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.6	0.0	168.4
174	113.7	0.0	210.0





#41

Bromodichloromethane

Concen: 48.782 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

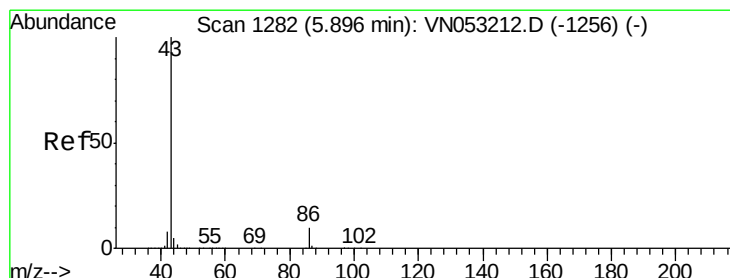
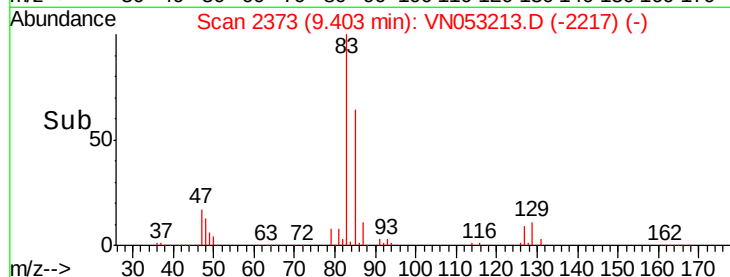
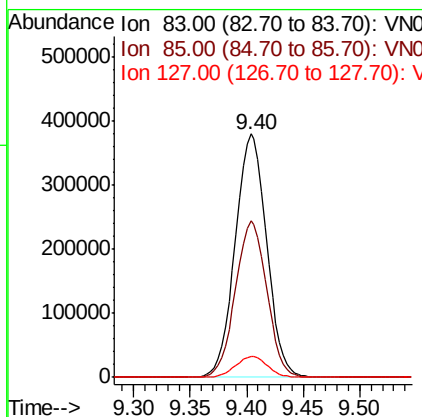
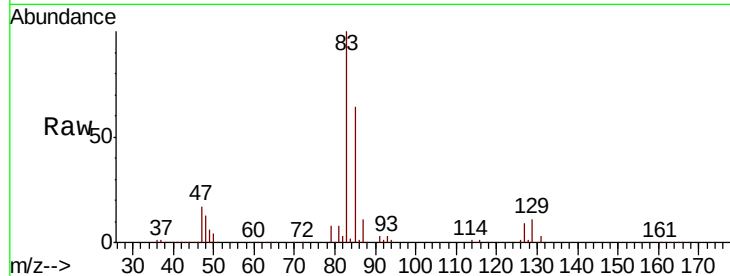
ClientSampleId :

VSTDIC050

Tot Ion:	83	Resp:	735851
Ion Ratio	Lower	Upper	
83	100		
85	64.1	52.4	78.6
127	8.6	6.6	9.8

Manual Integrations
APPROVED

MMDadoda
1/2/2019 9:48:05 AM



#42

Vinyl Acetate

Concen: 253.097 ug/l

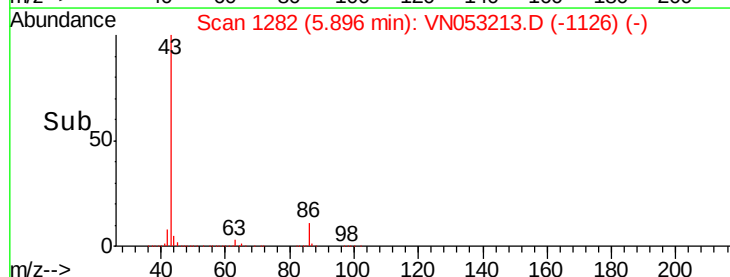
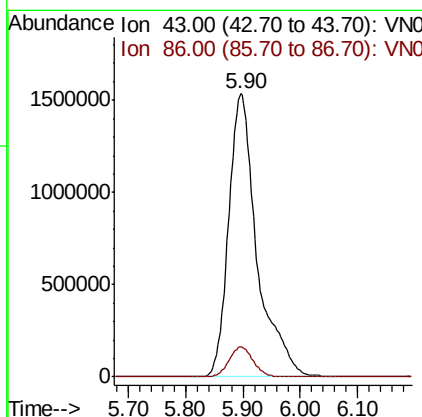
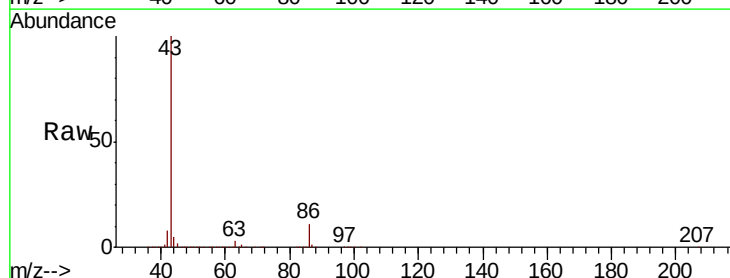
RT: 5.90 min Scan# 1282

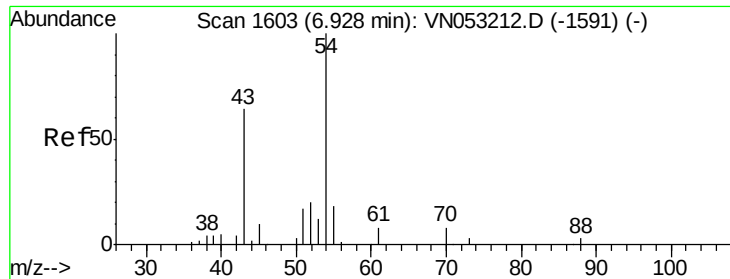
Delta R.T. 0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Tgt Ion:	43	Resp:	5297497
Ion Ratio	Lower	Upper	
43	100		
86	9.0	6.5	9.7





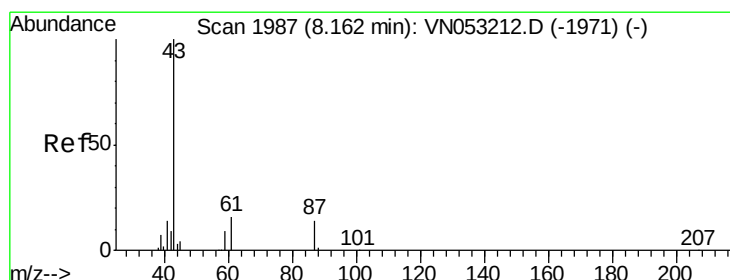
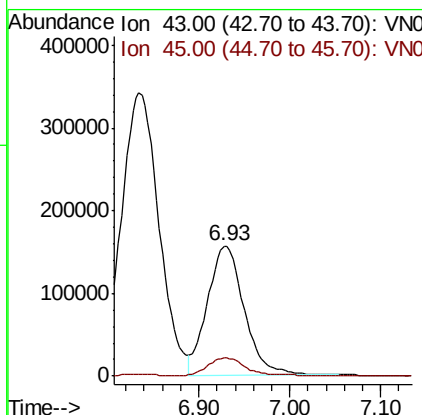
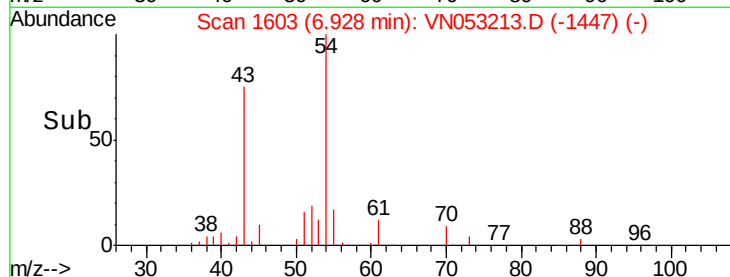
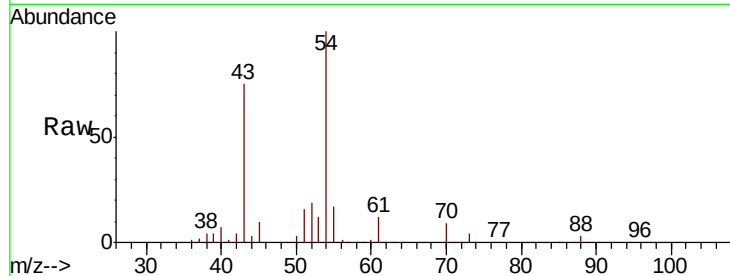
#43
Ethyl Acetate
Concen: 51.444 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion: 43 Resp: 439951
Ion Ratio Lower Upper
43 100
45 15.3 1.0 1.6#

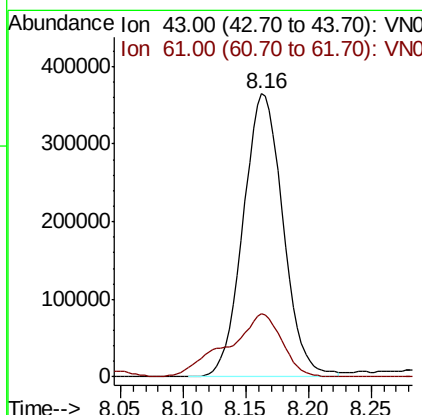
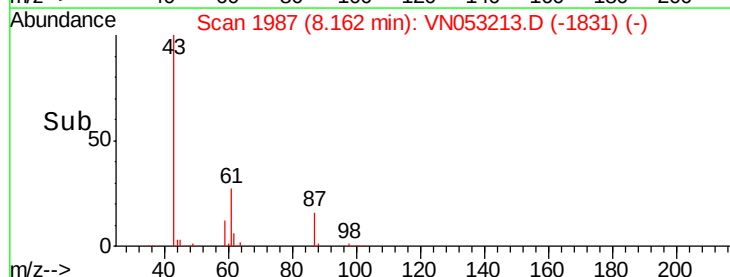
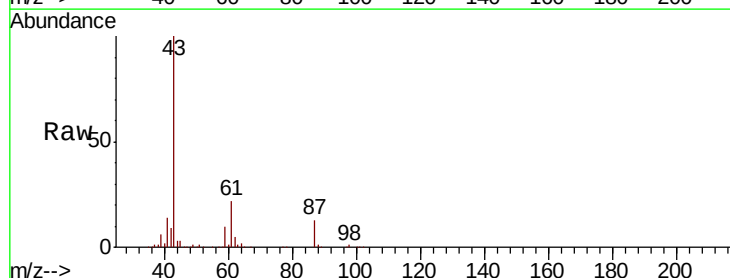
Manual Integrations
APPROVED

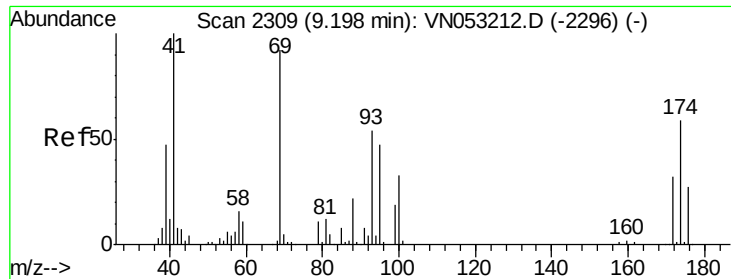
MMDadoda
1/2/2019 9:48:05 AM



#44
Isopropyl Acetate
Concen: 50.274 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion: 43 Resp: 806105
Ion Ratio Lower Upper
43 100
61 30.2 16.0 24.0#





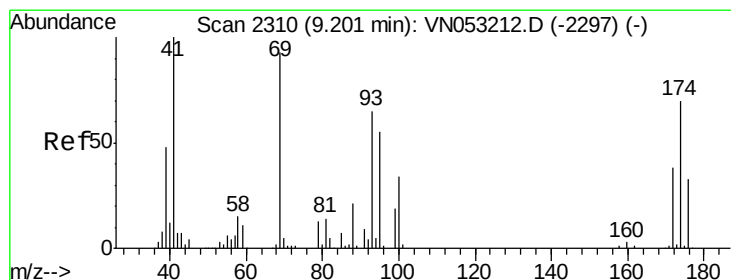
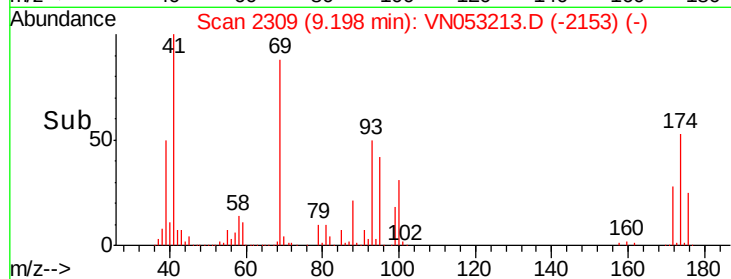
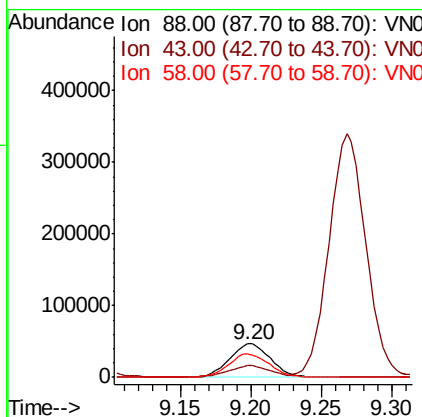
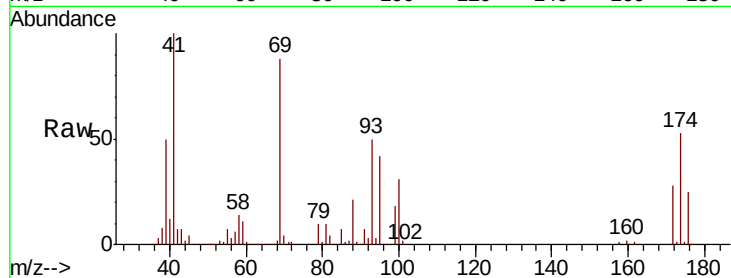
#45
 1,4-Dioxane
 Concen: 972.575 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.00 min
 Lab File: VN053213.D
 Acq: 28 Dec 2018 9:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.3	29.5	44.3
58	69.8	61.5	92.3

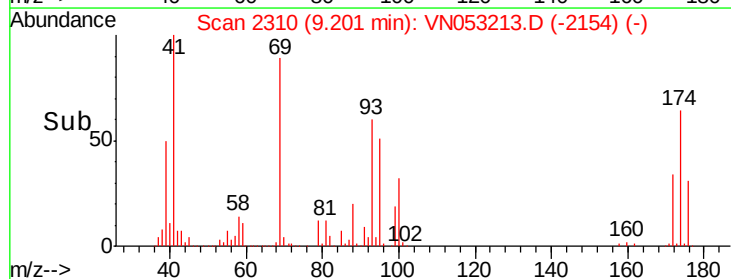
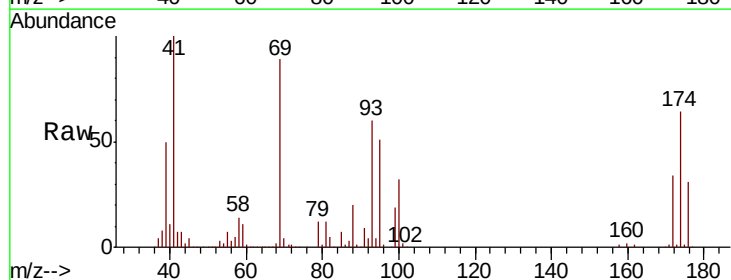
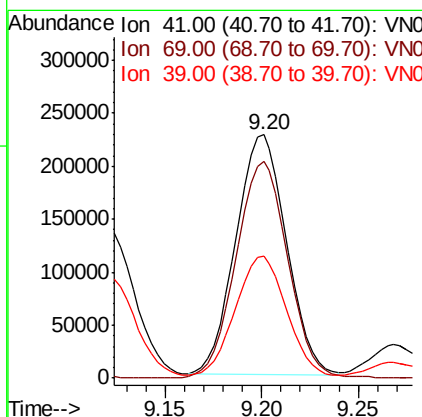
Manual Integrations
 APPROVED

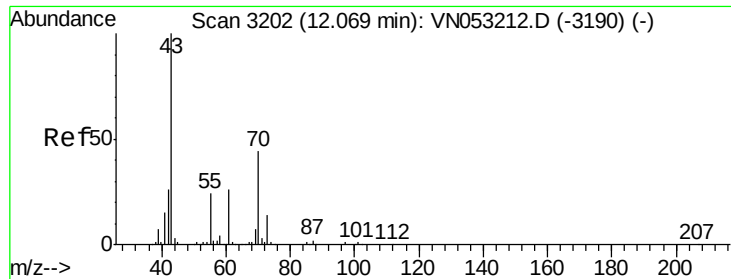
MMDadoda
 1/2/2019 9:48:05 AM



#46
 Methyl methacrylate
 Concen: 52.092 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN053213.D
 Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Lower	Upper
41	100		
69	89.8	42.5	127.6
39	49.8	26.3	78.9





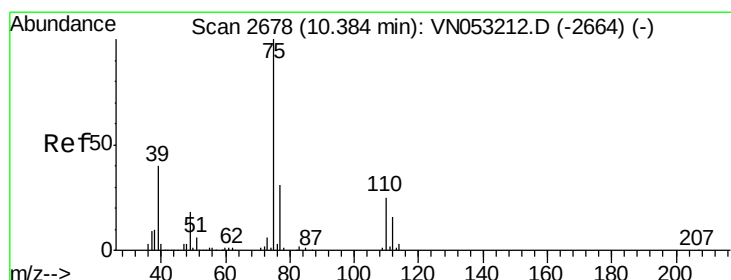
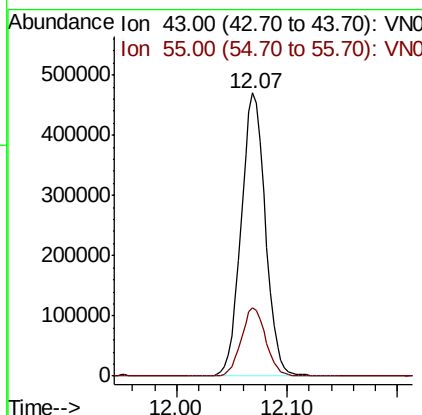
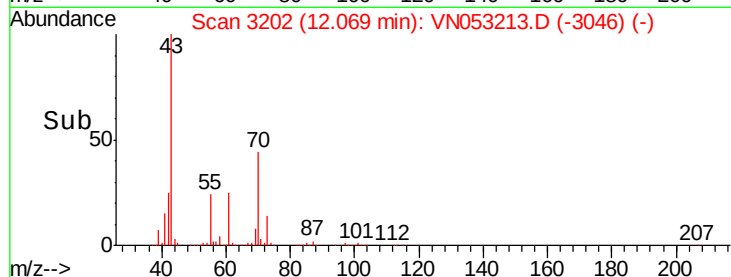
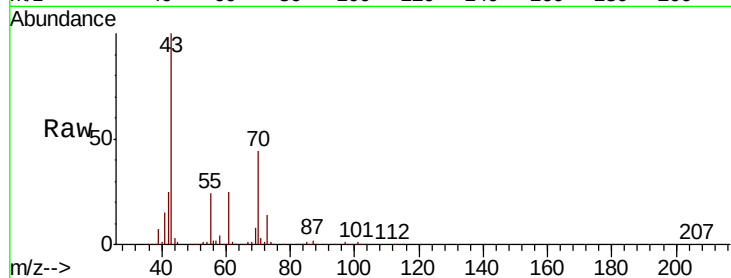
#47
n-amyl Acetate
Concen: 52.827 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampled :
VSTDIC050

Tot Ion: 43 Resp: 711647
Ion Ratio Lower Upper
43 100
55 24.6 21.1 31.7

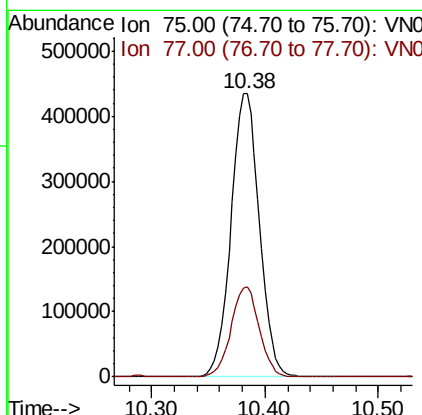
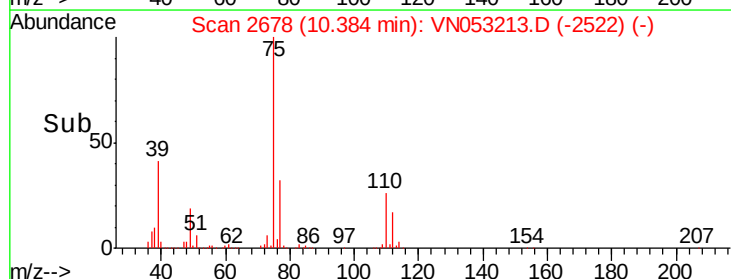
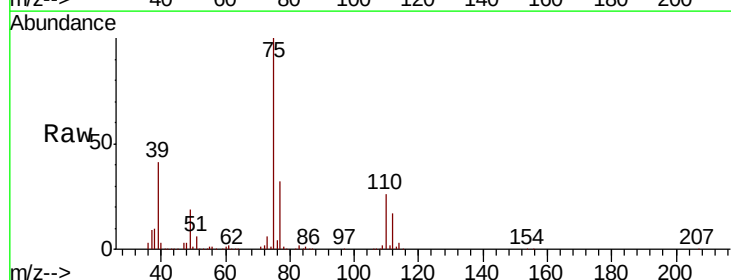
Manual Integrations
APPROVED

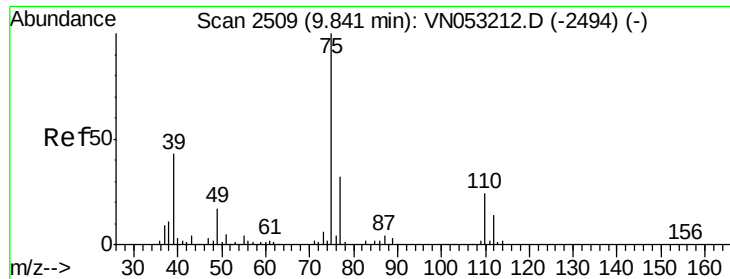
MMDadoda
1/2/2019 9:48:05 AM



#48
t-1,3-Dichloropropene
Concen: 51.886 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion: 75 Resp: 758627
Ion Ratio Lower Upper
75 100
77 31.5 25.6 38.4





#49

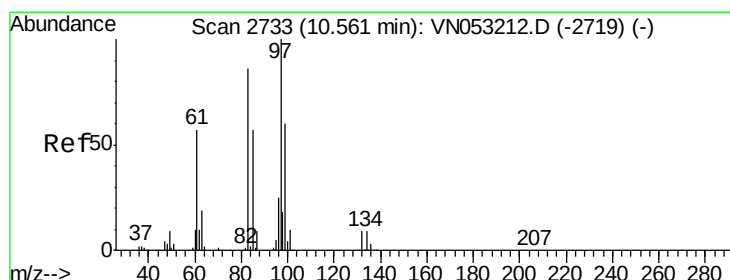
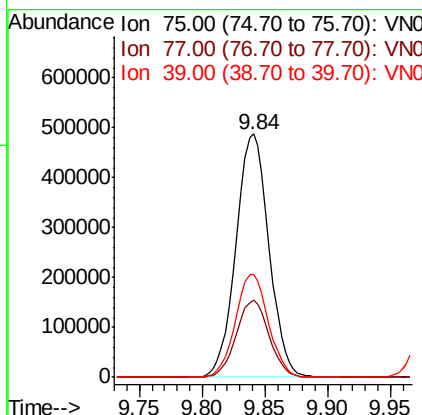
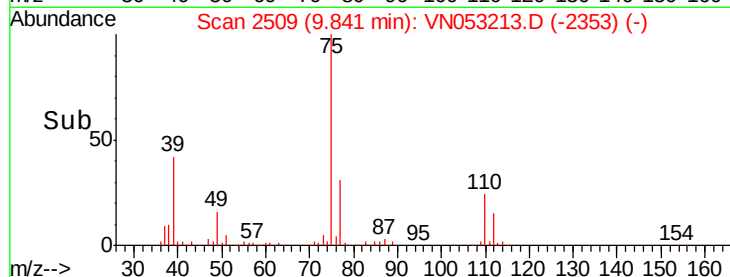
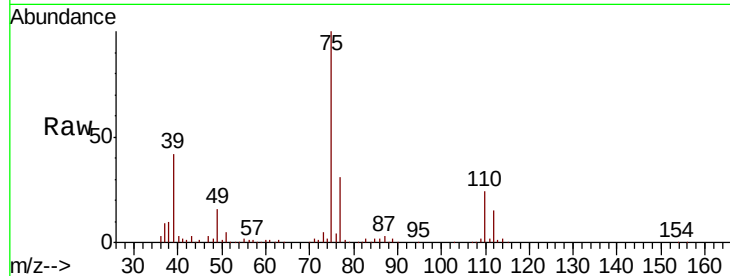
cis-1,3-Dichloropropene
Concen: 50.250 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion:	75	Resp:	891150
Ion Ratio		Lower	Upper
75	100		
77	31.5	25.4	38.0
39	42.2	37.3	55.9

Manual Integrations
APPROVED

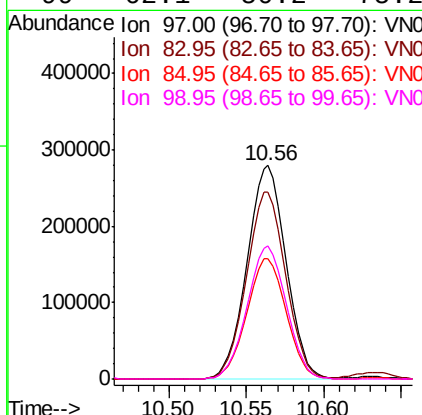
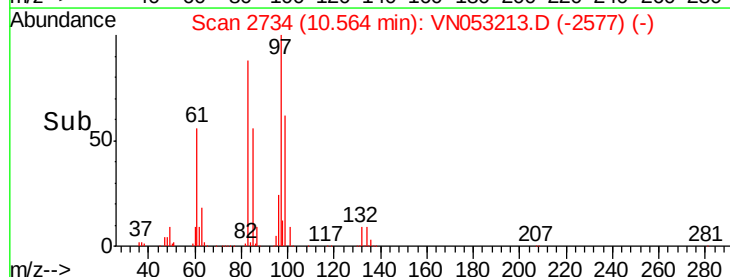
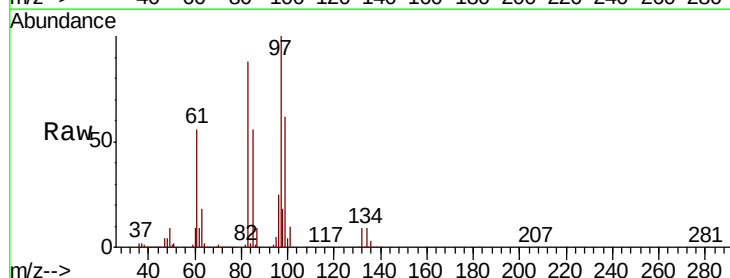
MMDadoda
1/2/2019 9:48:05 AM

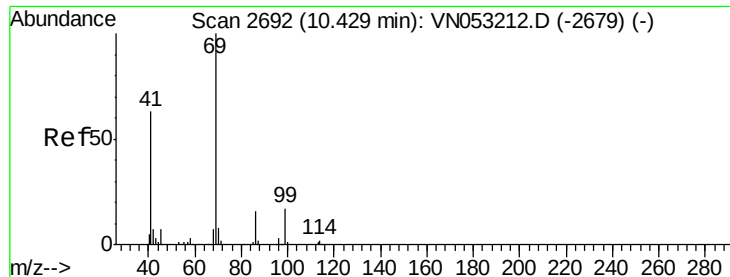


#50

1,1,2-Trichloroethane
Concen: 48.217 ug/l
RT: 10.56 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion:	97	Resp:	491078
Ion Ratio		Lower	Upper
97	100		
83	87.7	70.4	105.6
85	56.2	45.0	67.6
99	62.1	50.2	75.2





#51

Ethyl methacrylate

Concen: 52.718 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

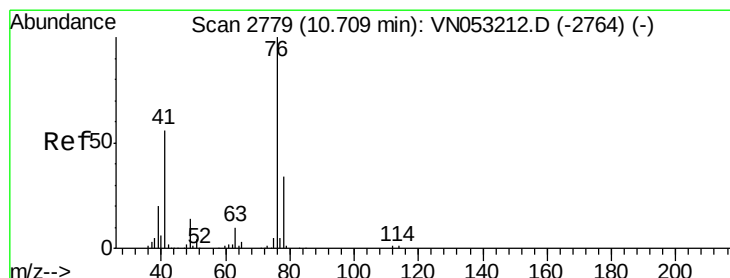
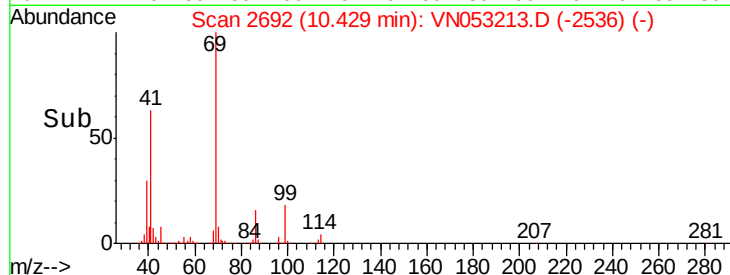
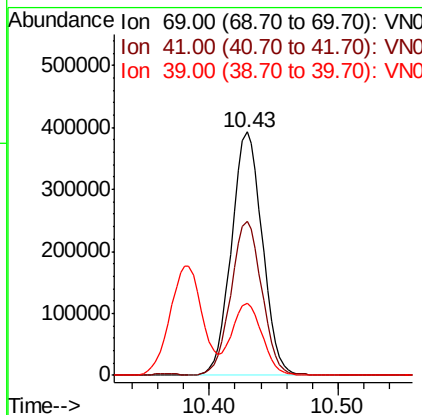
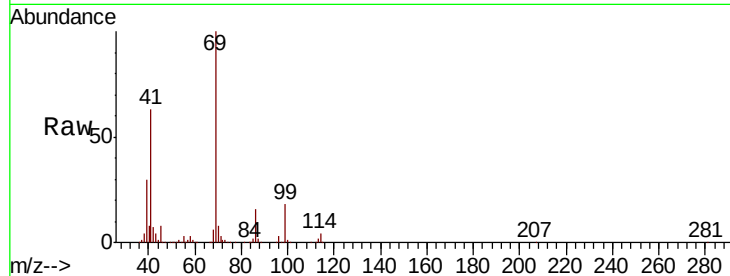
ClientSampled :

VSTDIC050

Tot Ion:	69	Resp:	653323
Ion	Ratio	Lower	Upper
69	100		
41	63.2	34.4	103.3
39	29.5	16.4	49.2

Manual Integrations
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MMDadoda
1/2/2019 9:48:05 AM



#52

1,3-Dichloropropane

Concen: 48.964 ug/l

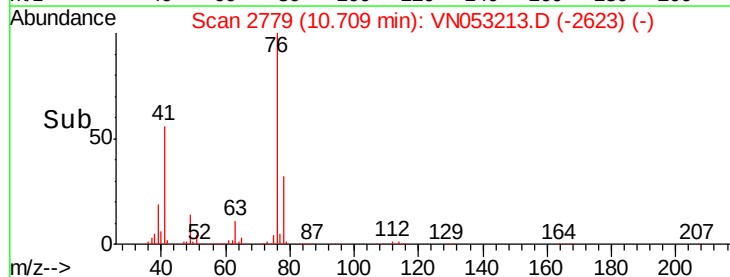
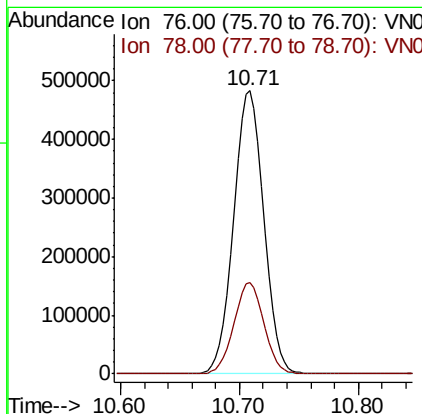
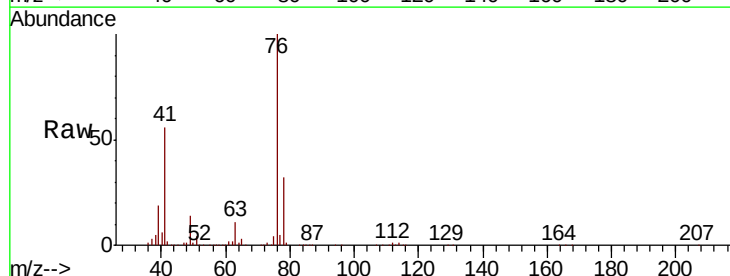
RT: 10.71 min Scan# 2779

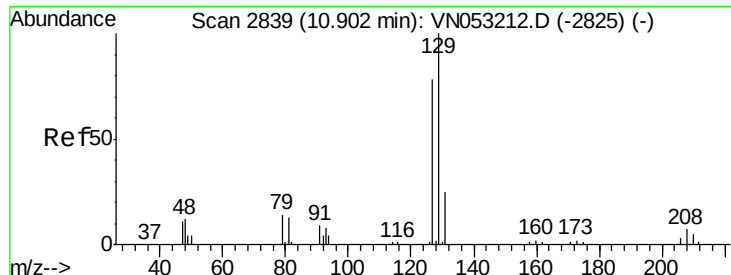
Delta R.T. -0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Tgt Ion:	76	Resp:	849867
Ion	Ratio	Lower	Upper
76	100		
78	32.1	0.0	64.8





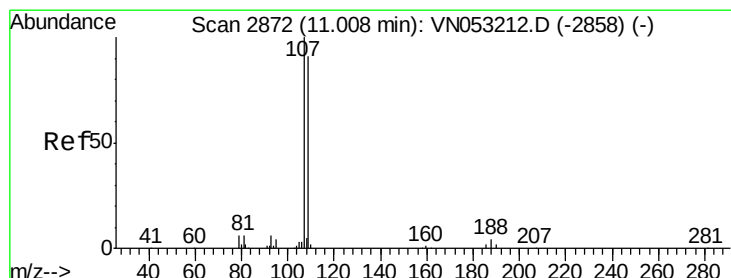
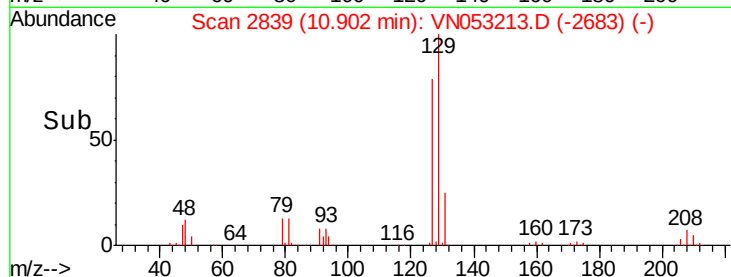
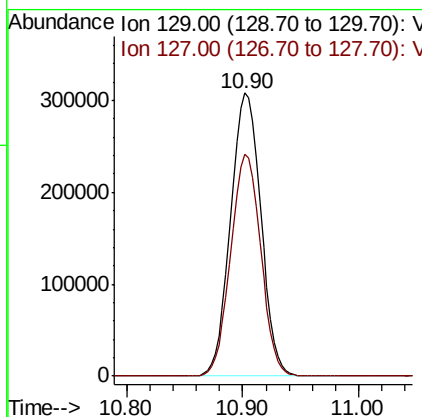
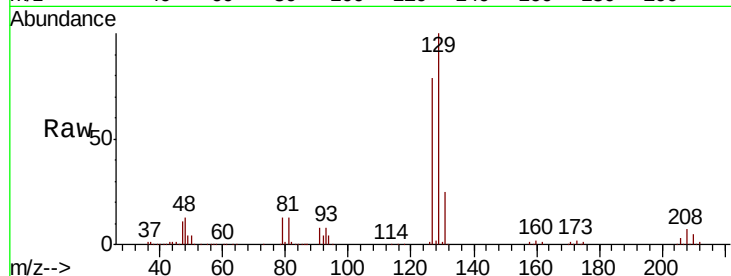
#53
Dibromochloromethane
Concen: 50.745 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion:129 Resp: 557154
Ion Ratio Lower Upper
129 100
127 77.8 37.6 112.8

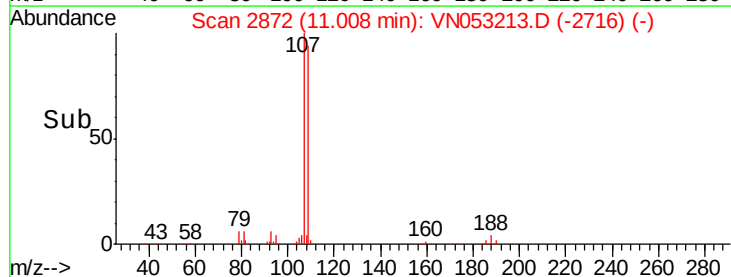
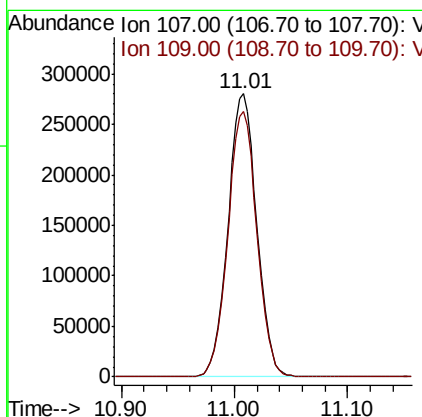
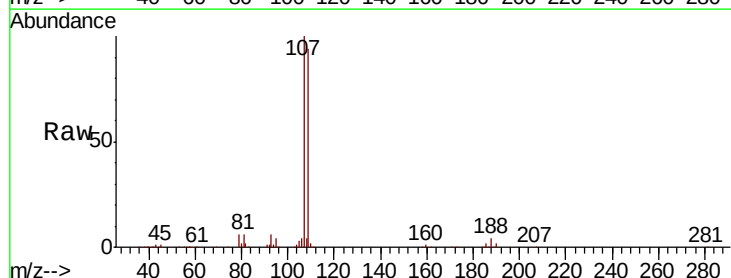
Manual Integrations
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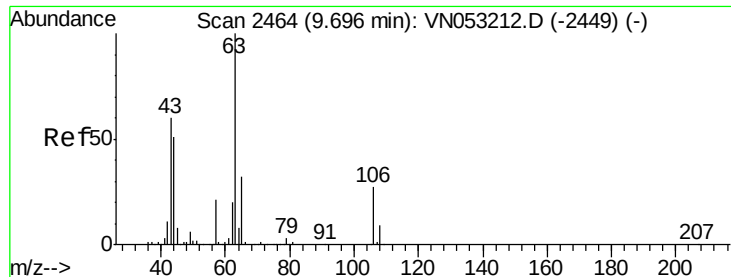
MMDadoda
1/2/2019 9:48:05 AM



#54
1,2-Dibromoethane
Concen: 49.249 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion:107 Resp: 494721
Ion Ratio Lower Upper
107 100
109 94.7 77.1 115.7





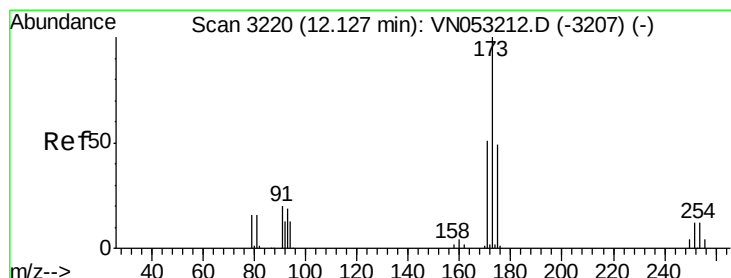
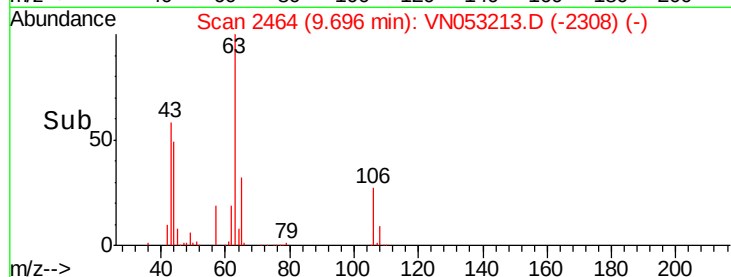
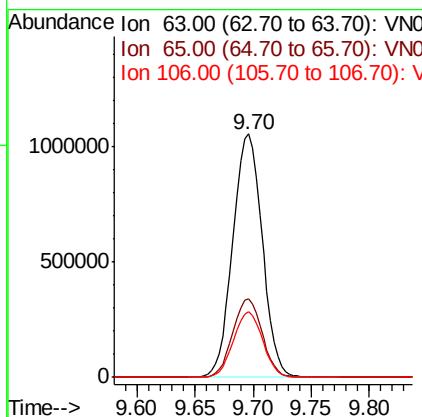
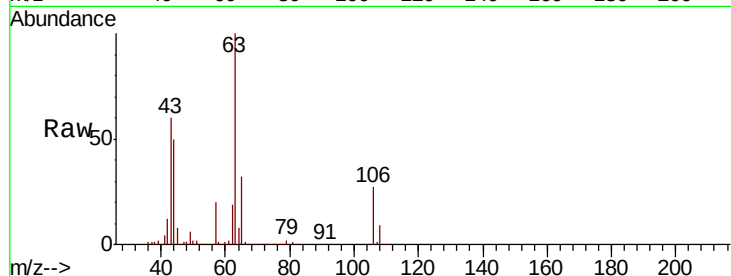
#55
2-Chloroethyl vinyl ether
Concen: 255.495 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion: 63 Resp: 1861023
Ion Ratio Lower Upper
63 100
65 32.2 25.4 38.2
106 26.8 20.4 30.6

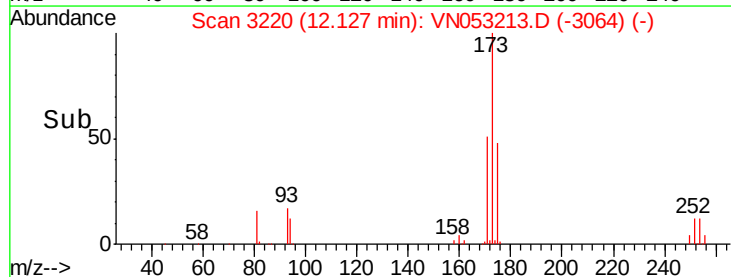
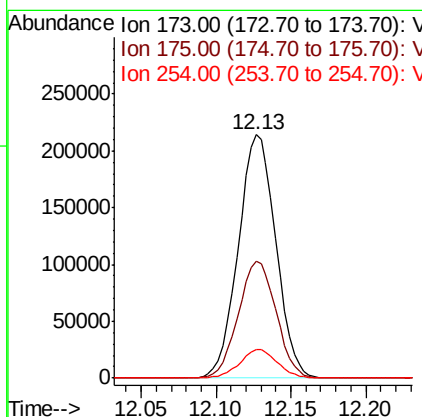
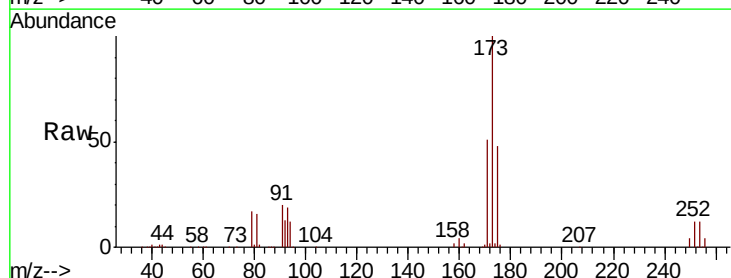
Manual Integrations
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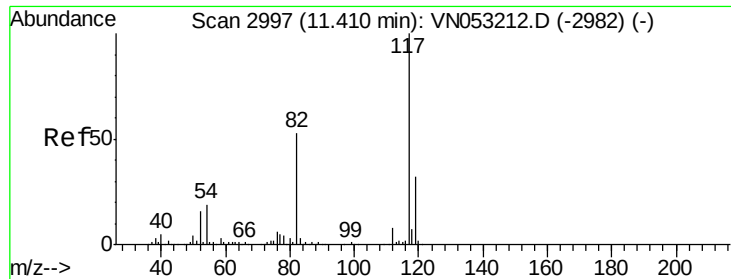
MMDadoda
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#56
Bromoform
Concen: 50.832 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion: 173 Resp: 373725
Ion Ratio Lower Upper
173 100
175 48.5 38.7 58.1
254 11.8 8.4 12.6





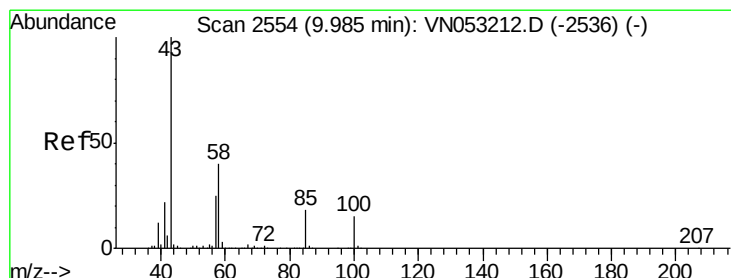
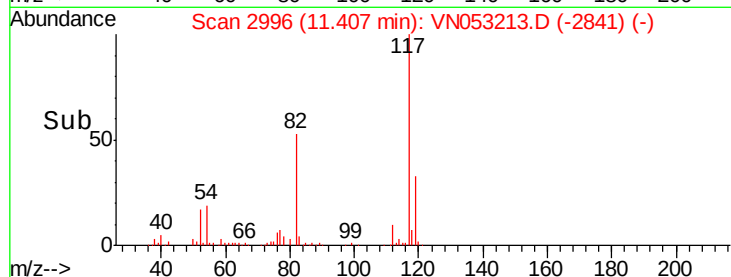
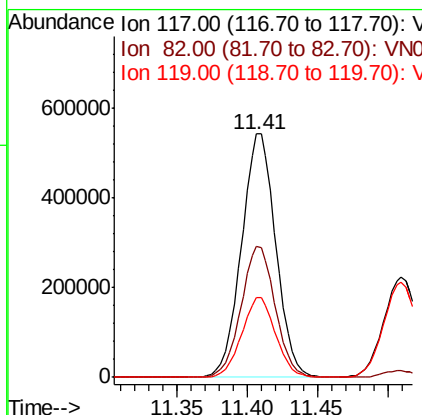
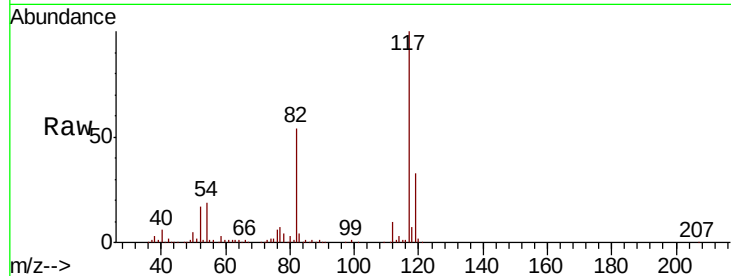
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampled :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.5	44.2	66.2
119	32.3	25.4	38.2

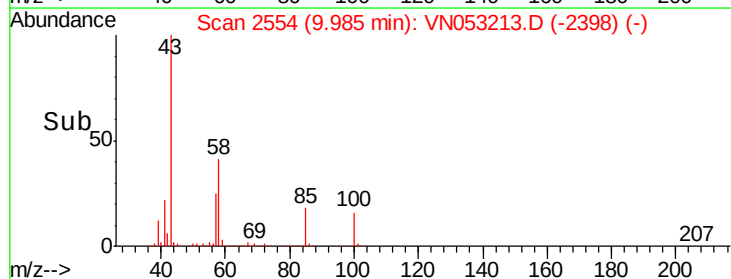
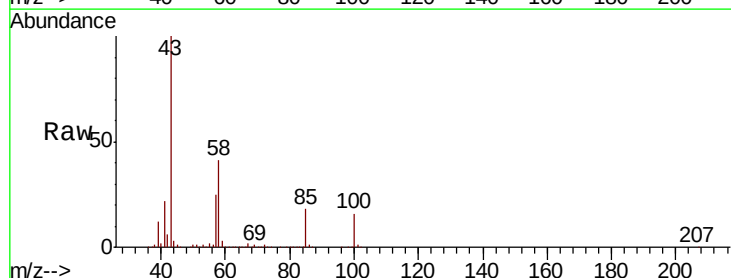
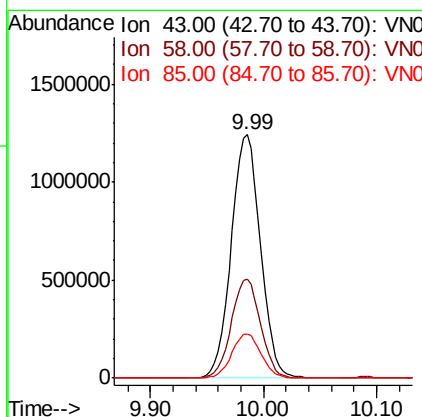
Manual Integrations
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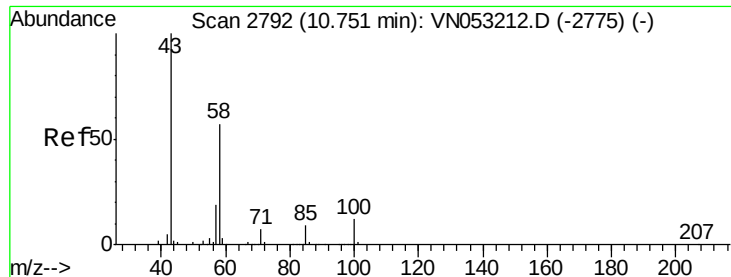
MMDadoda
1/2/2019 9:48:05 AM



#58
4-Methyl-2-Pentanone
Concen: 255.213 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.5	31.6	47.4
85	18.2	13.3	19.9





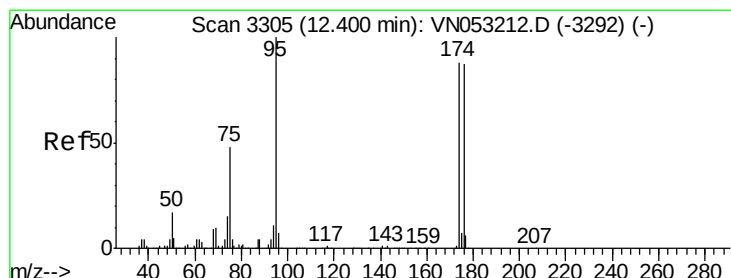
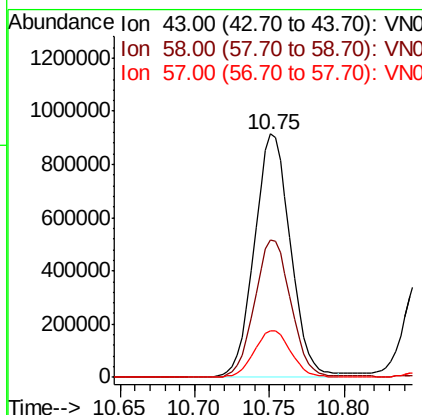
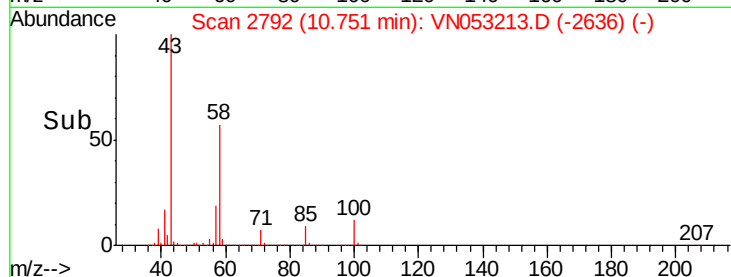
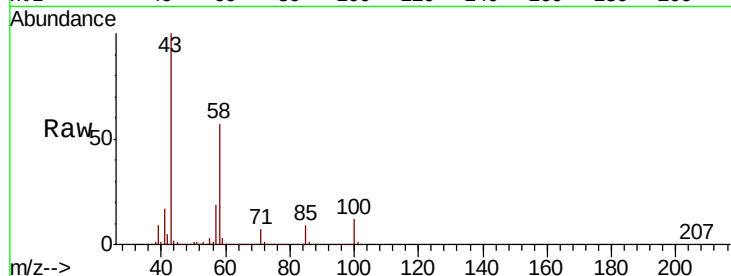
#59
2-Hexanone
Concen: 253.543 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.9	43.2	64.8
57	19.4	14.9	22.3

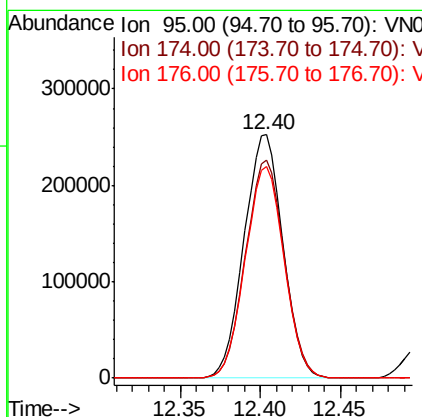
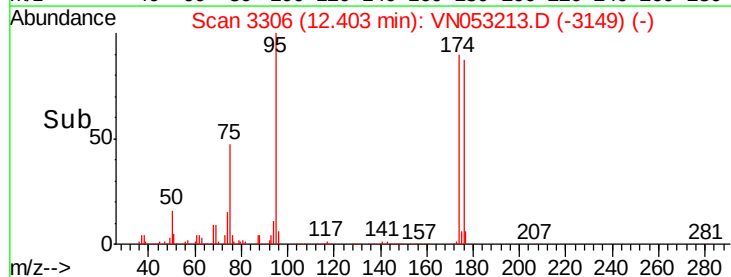
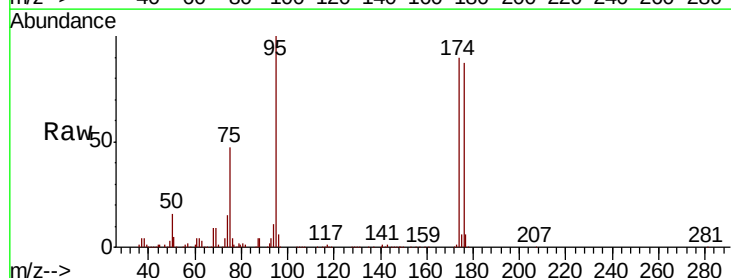
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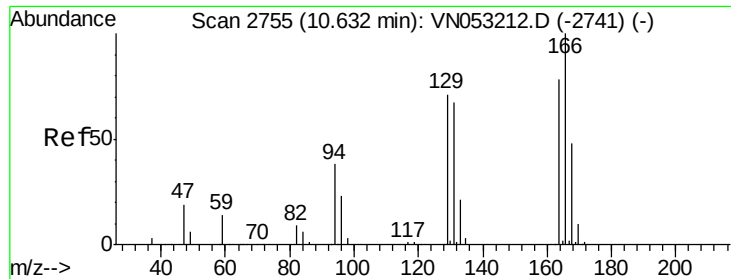
MMDadoda
1/2/2019 9:48:05 AM



#60
4-Bromofluorobenzene
Concen: 253.543 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.5	67.9	101.9
176	87.2	66.4	99.6





#61

Tetrachloroethene

Concen: 48.968 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion:164 Resp: 695274

Ion Ratio Lower Upper

164 100

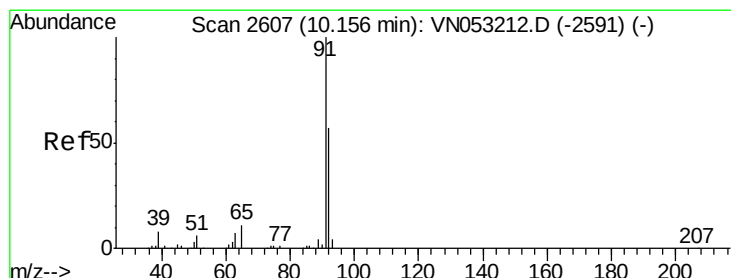
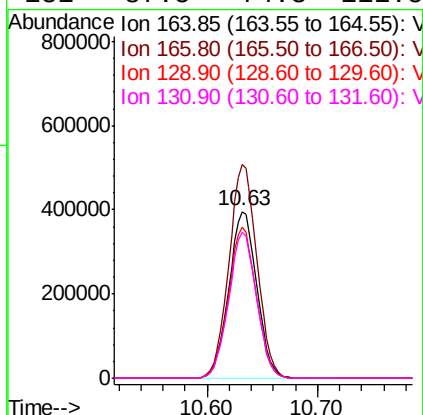
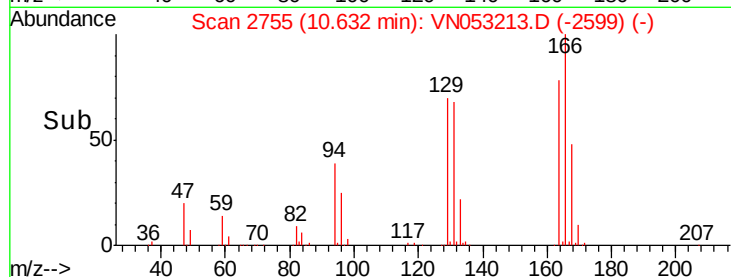
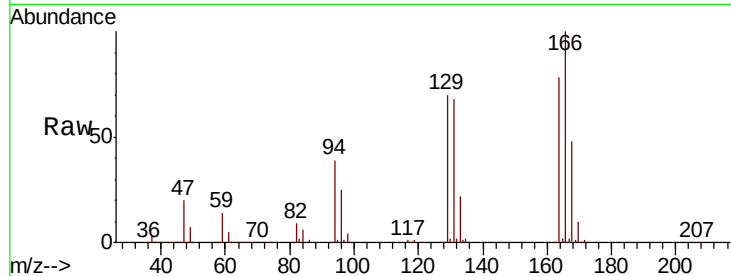
166 127.9 104.6 157.0

129 90.1 75.3 112.9

131 87.5 74.3 111.5

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#62

Toluene

Concen: 48.034 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053213.D

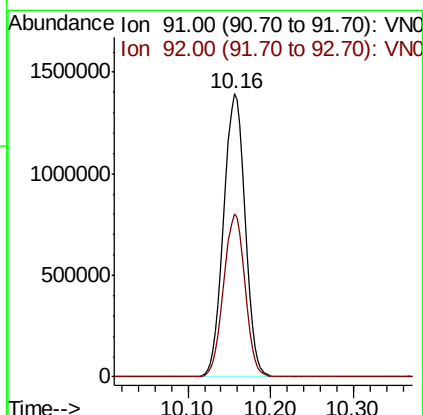
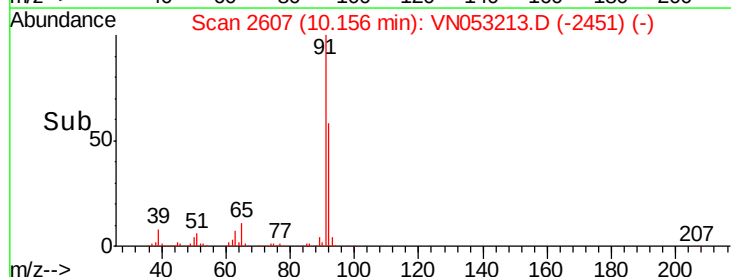
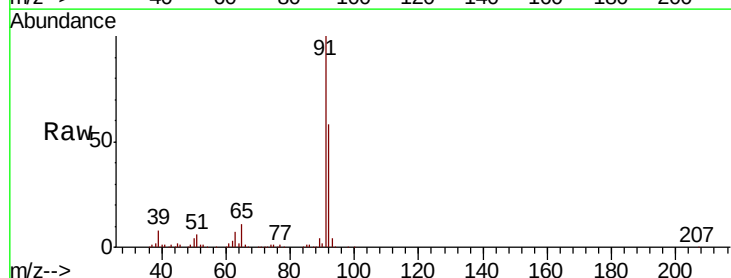
Acq: 28 Dec 2018 9:21

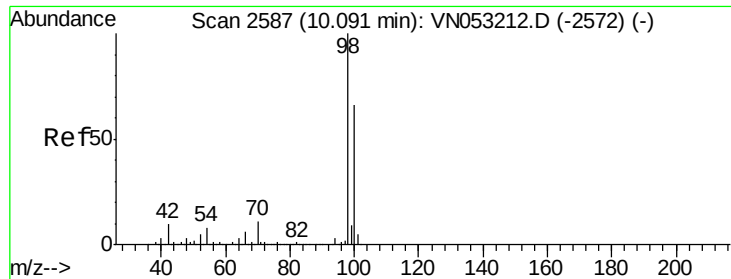
Tgt Ion: 91 Resp: 2508085

Ion Ratio Lower Upper

91 100

92 57.3 45.4 68.2





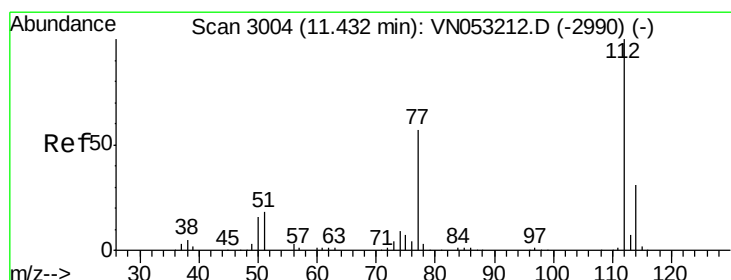
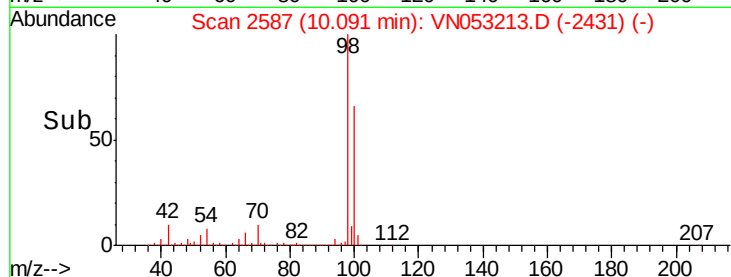
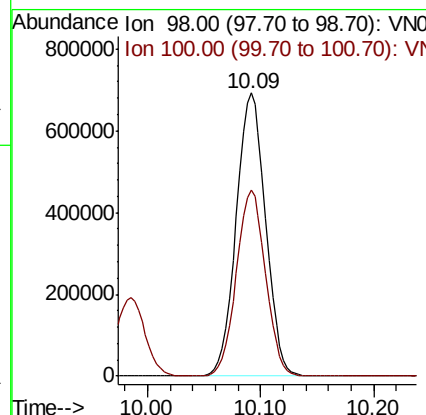
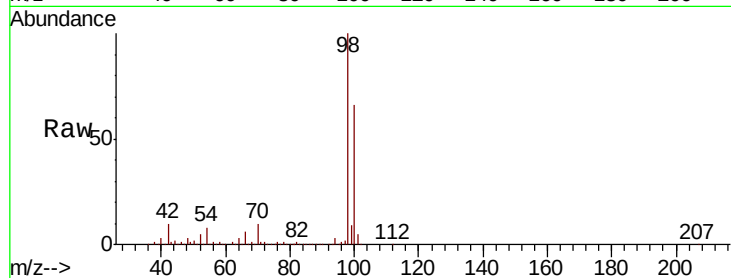
#63
Toluene-d8
Concen: 48.034 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion: 98 Resp: 1252387
Ion Ratio Lower Upper
98 100
100 65.3 51.1 76.7

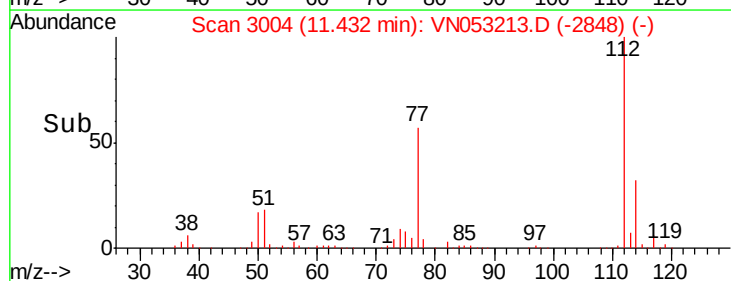
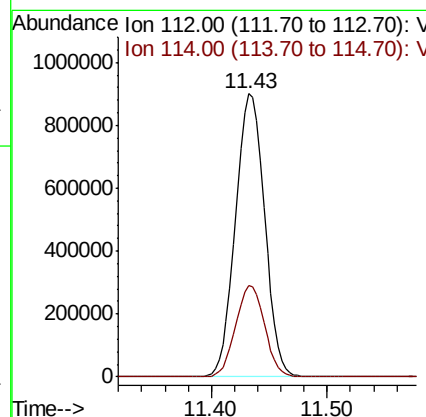
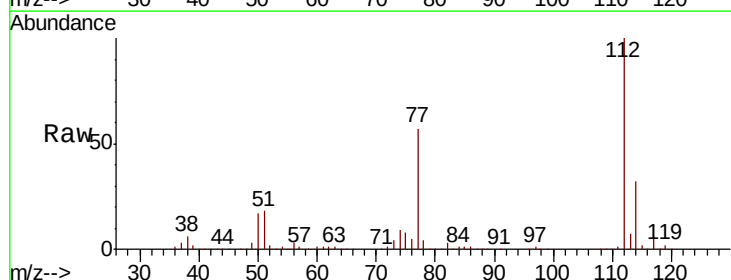
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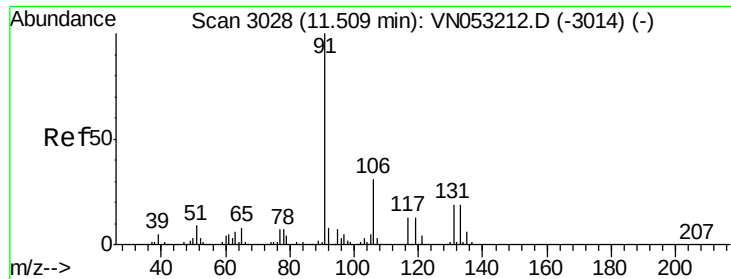
MMDadoda
1/2/2019 9:48:05 AM



#64
Chlorobenzene
Concen: 48.274 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion: 112 Resp: 1561651
Ion Ratio Lower Upper
112 100
114 32.1 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 49.108 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

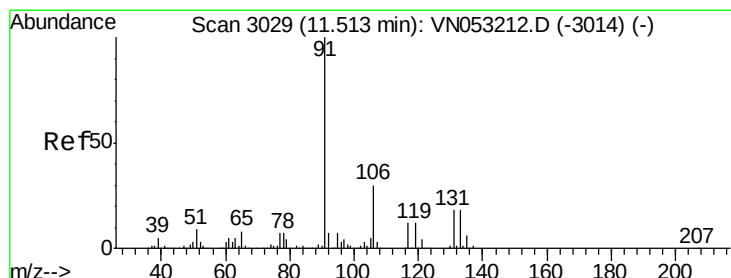
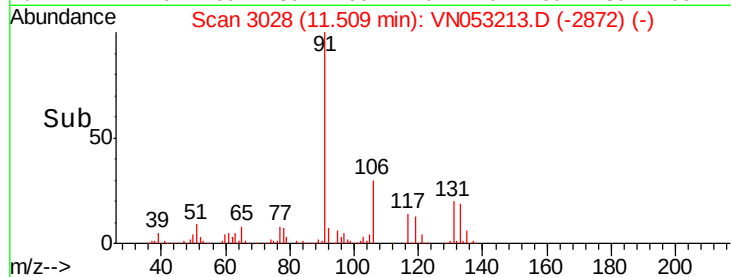
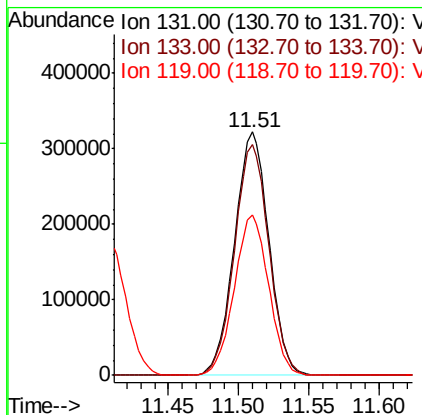
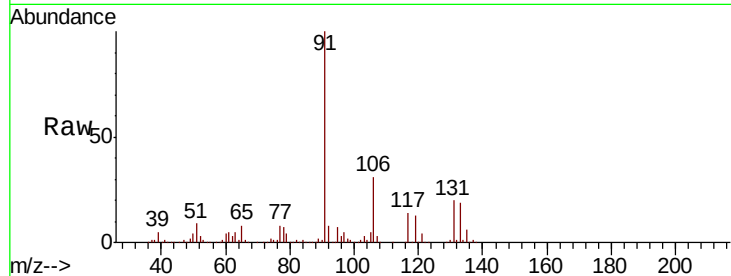
ClientSampleId :

VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
131	100	551418		
133	94.9	0.0	193.4	
119	65.8	0.0	133.0	

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#66

Ethyl Benzene

Concen: 49.197 ug/l

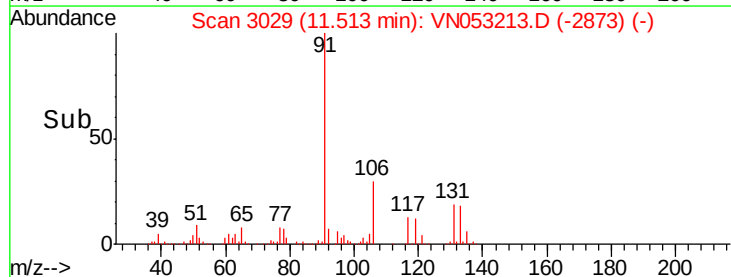
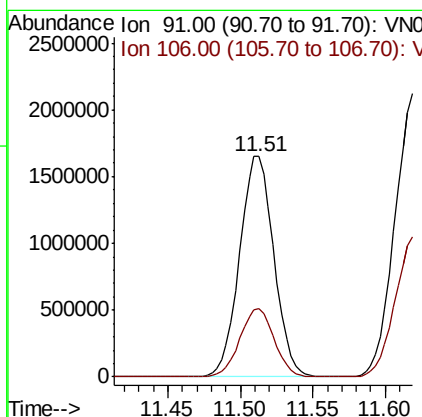
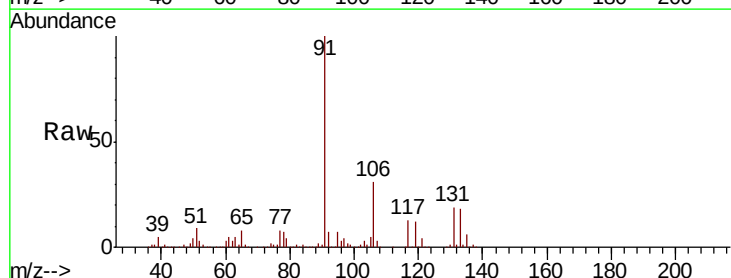
RT: 11.51 min Scan# 3029

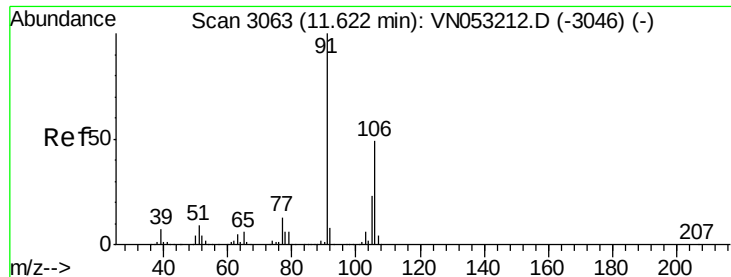
Delta R.T. -0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	2717766		
106	31.0	24.3	36.5	





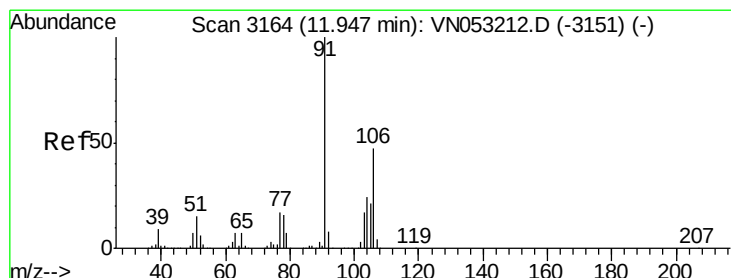
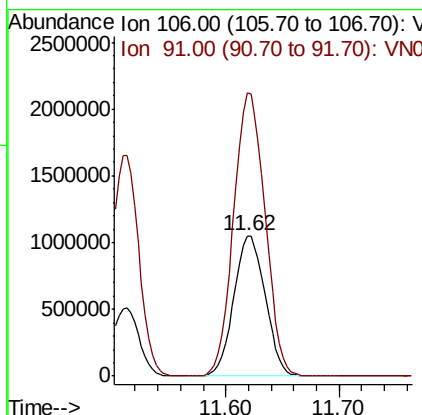
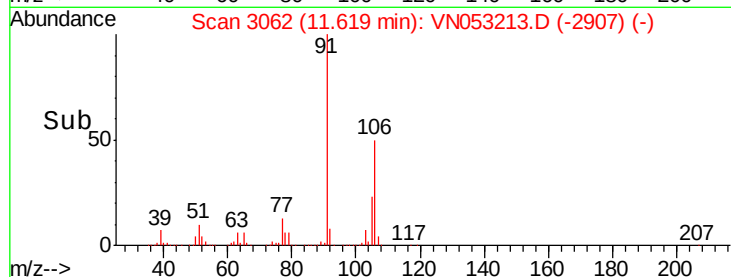
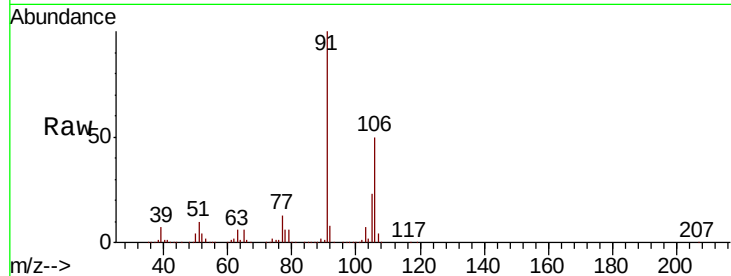
#67
m/p-Xylenes
Concen: 96.234 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampled :
VSTDIC050

Tot Ion:106 Resp: 2031610
Ion Ratio Lower Upper
106 100
91 202.2 163.9 245.9

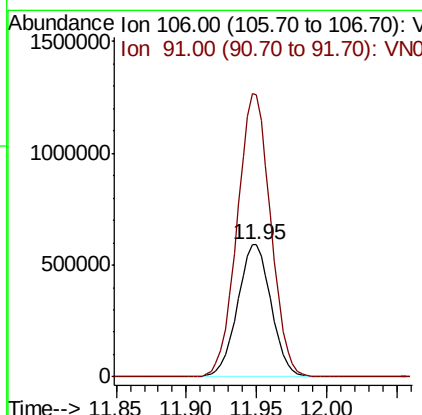
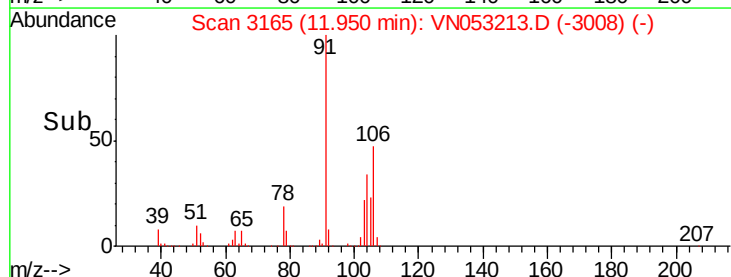
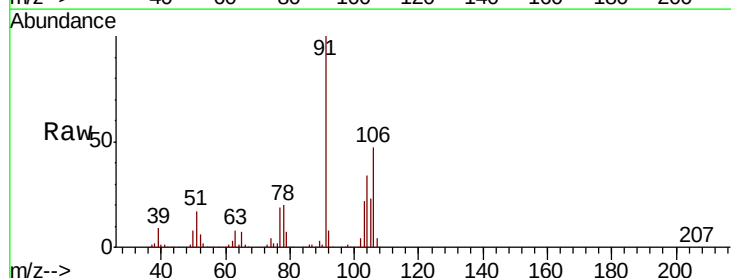
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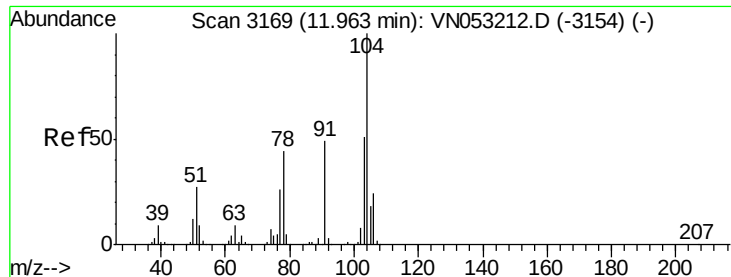
MMDadoda
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#68
o-Xylene
Concen: 48.609 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion:106 Resp: 987519
Ion Ratio Lower Upper
106 100
91 213.3 107.8 323.4





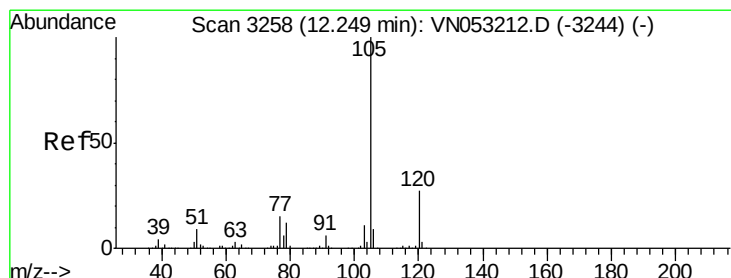
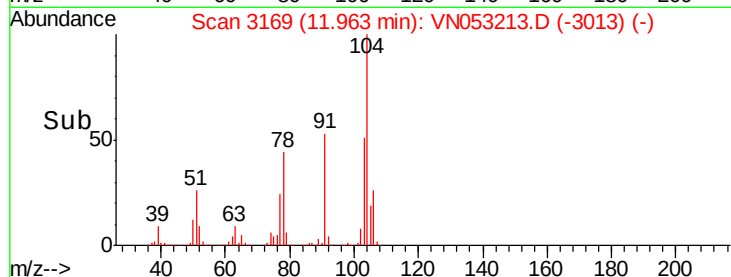
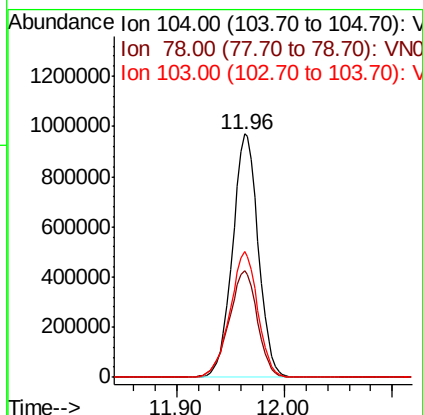
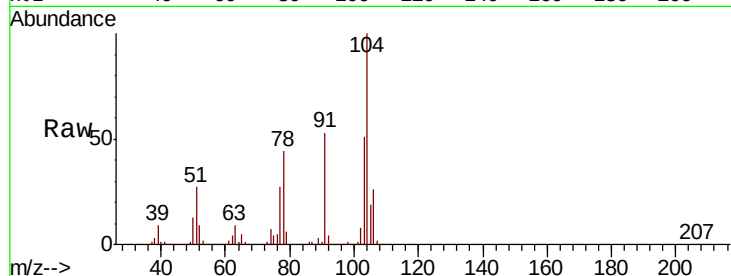
#69
Stvrene
Concen: 49.853 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
104	100		
78	48.1	39.3	58.9
103	55.3	44.6	66.8

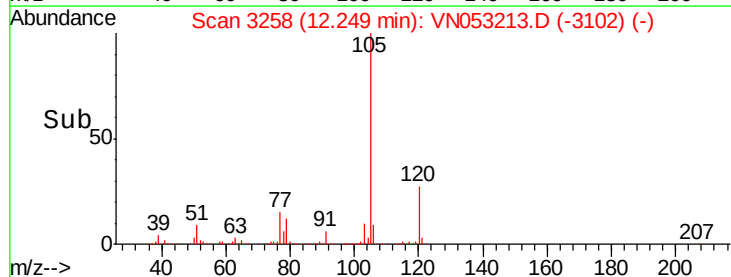
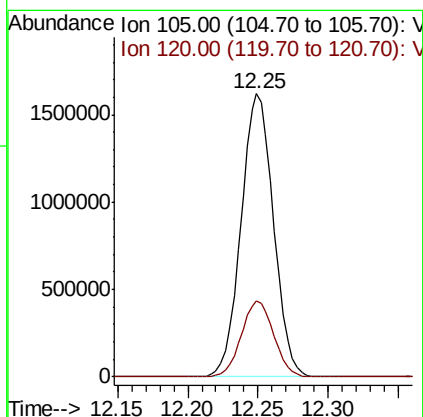
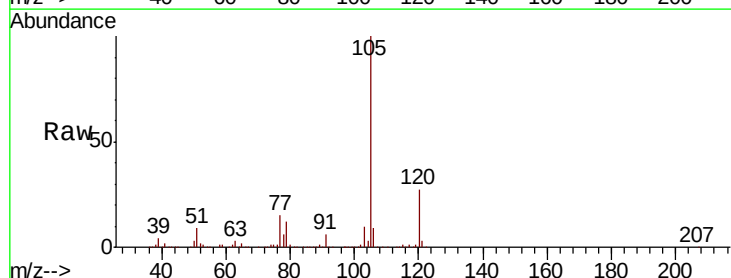
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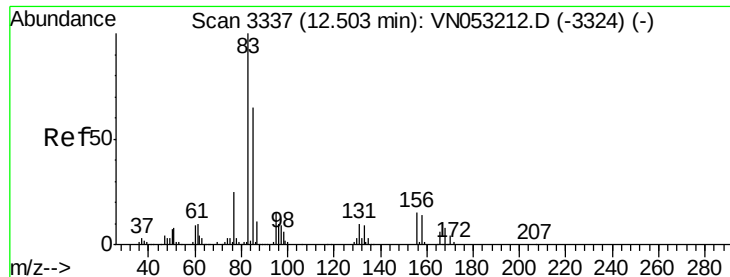
MMDadoda
1/2/2019 9:48:05 AM



#70
Isopropylbenzene
Concen: 48.727 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.8	18.6	34.6





#71

1,1,2,2-Tetrachloroethane

Concen: 47.697 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 83 Resp: 538769
Ion Ratio Lower Upper

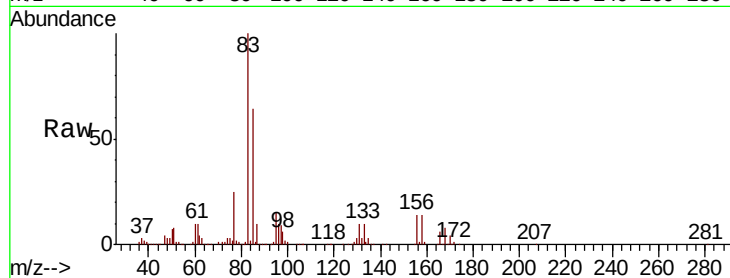
83 100

131 10.3 4.9 14.6

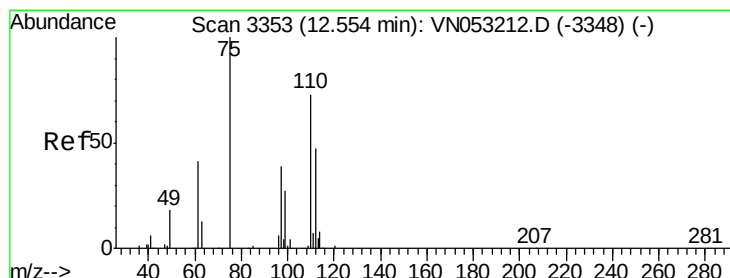
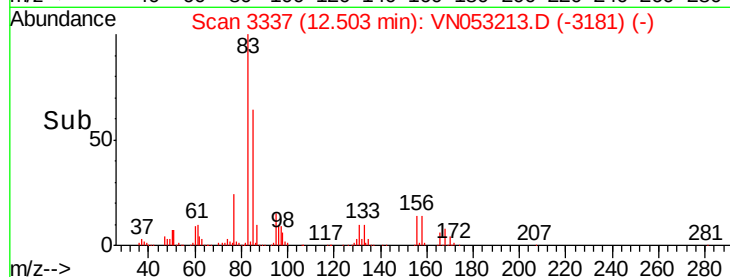
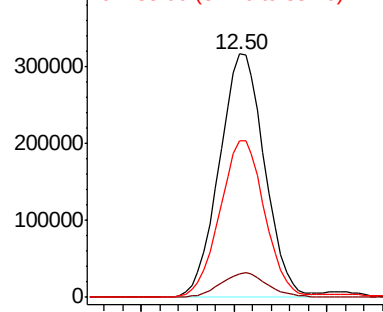
85 63.7 32.2 96.6

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Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 131.00 (130.70 to 131.70): VNO
Ion 85.00 (84.70 to 85.70): VNO



#72

1,2,3-Trichloropropane

Concen: 45.676 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

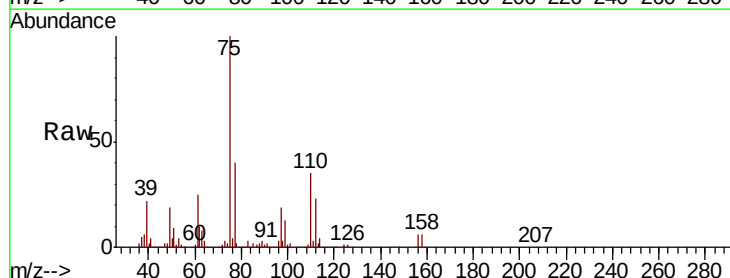
Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

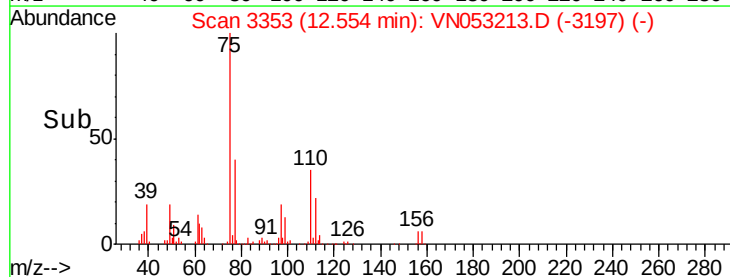
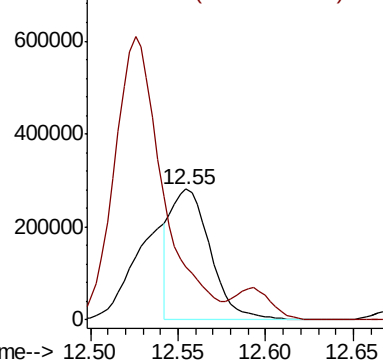
Tgt Ion: 75 Resp: 446079
Ion Ratio Lower Upper

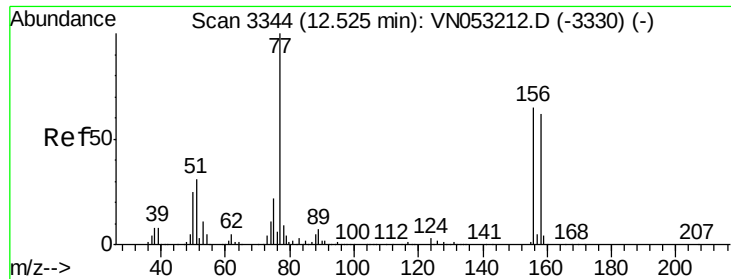
75 100

77 264.0 0.0 514.8



Abundance Ion 75.00 (74.70 to 75.70): VNO
Ion 77.00 (76.70 to 77.70): VNO





#73

Bromobenzene

Concen: 48.036 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

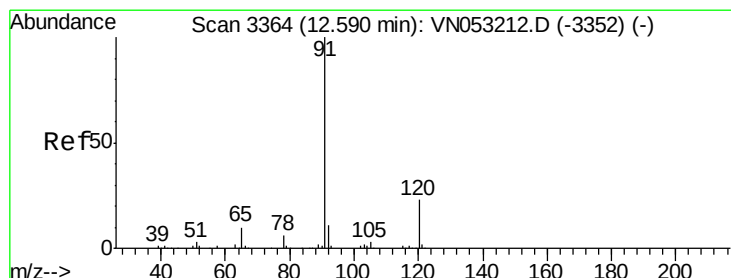
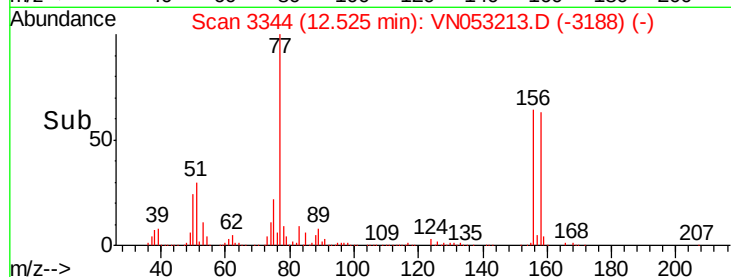
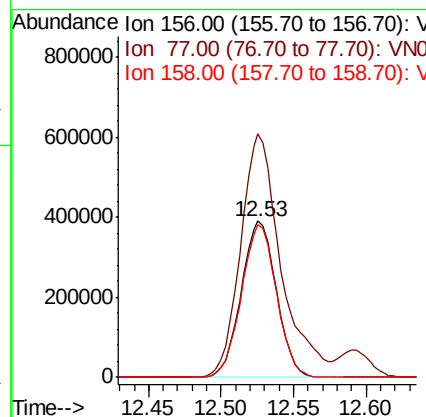
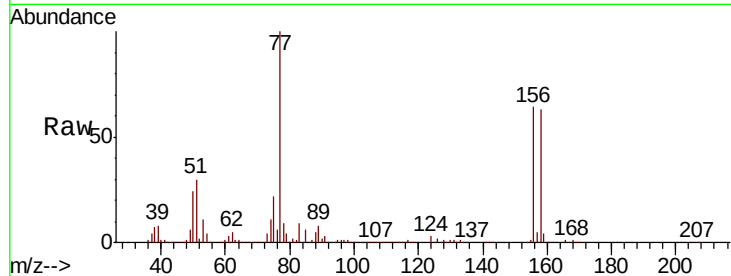
ClientSampled :

VSTDIC050

Tot Ion:	156	Resp:	656938
Ion Ratio	Lower	Upper	
156	100		
77	179.3	0.0	382.6
158	97.6	0.0	196.8

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#74

n-propylbenzene

Concen: 48.691 ug/l

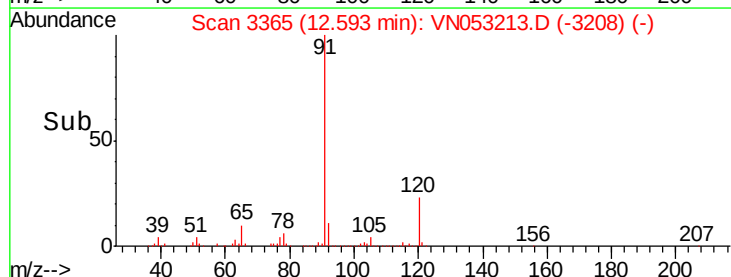
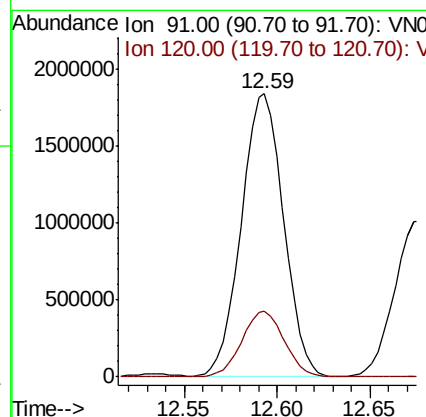
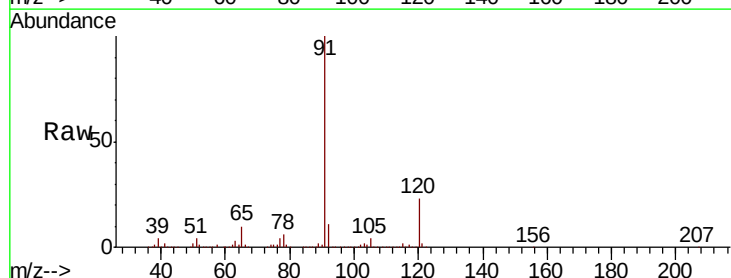
RT: 12.59 min Scan# 3365

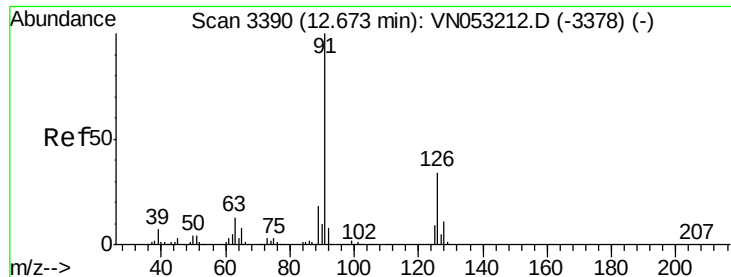
Delta R.T. 0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Tgt Ion:	91	Resp:	2911485
Ion Ratio	Lower	Upper	
91	100		
120	23.2	0.0	44.6





#75

2-Chlorotoluene

Concen: 47.406 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 91 Resp: 1705539

Ion Ratio Lower Upper

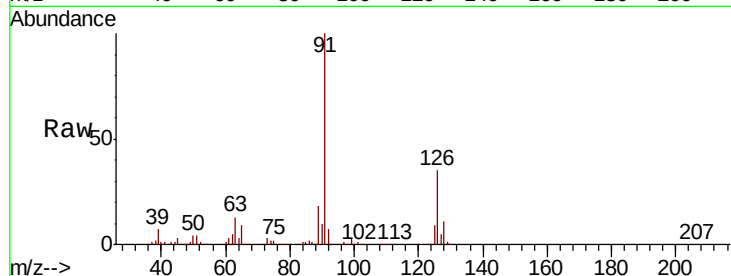
91 100

126 35.1 0.0 68.4

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Abundance Ion 91.00 (90.70 to 91.70): VN053212.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN053212.D (-3378) (-)

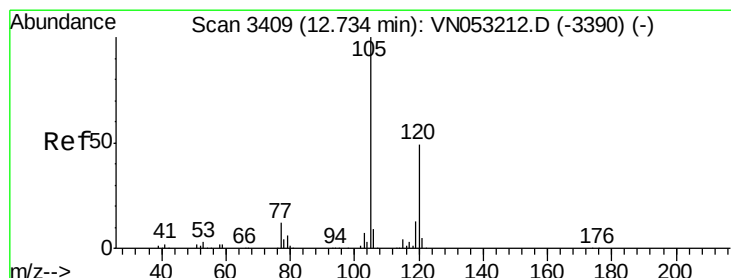
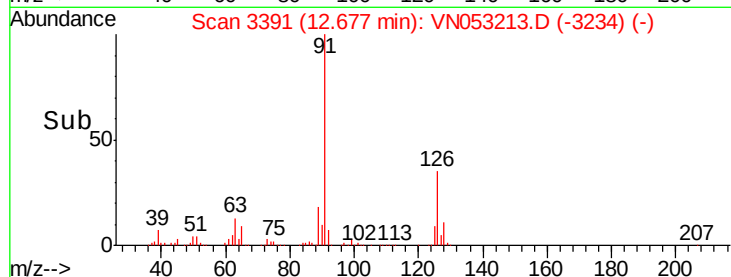
1500000

1000000

500000

0

Time--> 12.60 12.65 12.70



#76

1,3,5-Trimethylbenzene

Concen: 47.448 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN053213.D

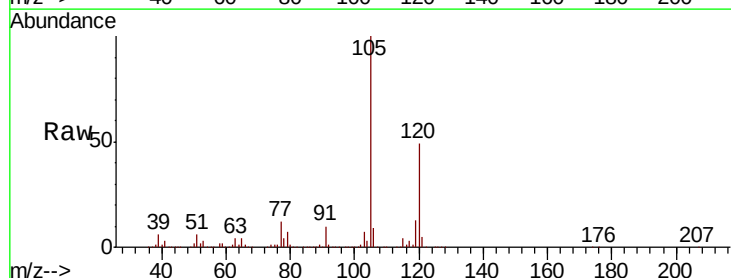
Acq: 28 Dec 2018 9:21

Tgt Ion: 105 Resp: 2010017

Ion Ratio Lower Upper

105 100

120 49.3 0.0 97.4



Abundance Ion 105.00 (104.70 to 105.70): VN053212.D (-3390) (-)

Ion 120.00 (119.70 to 120.70): VN053212.D (-3390) (-)

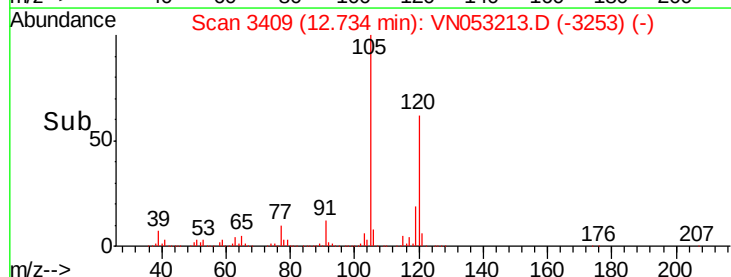
1500000

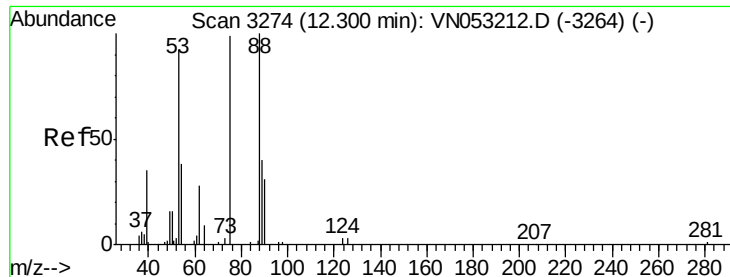
1000000

500000

0

Time--> 12.70 12.80





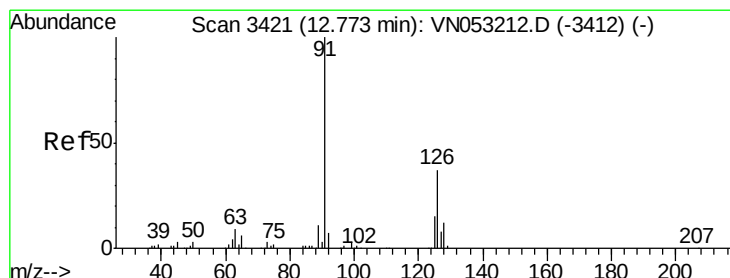
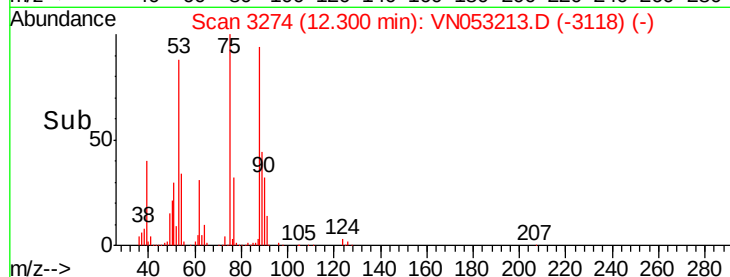
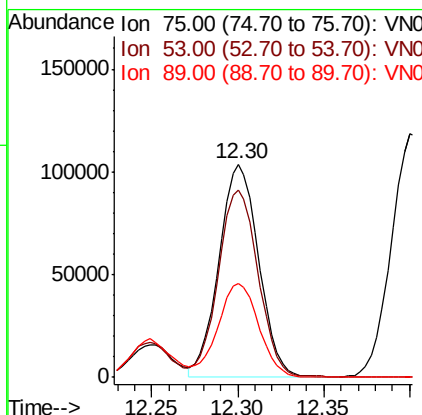
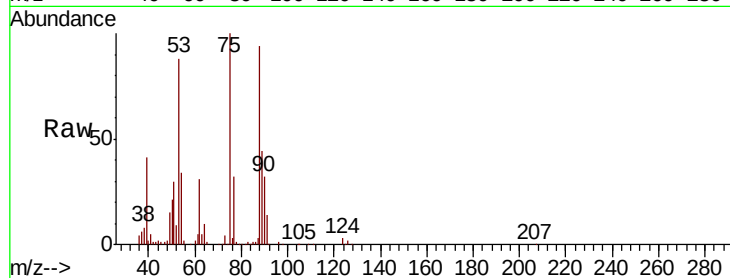
#77
t-1,4-Dichloro-2-butene
Concen: 52.979 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.0	48.5	145.6
89	44.4	21.7	65.1

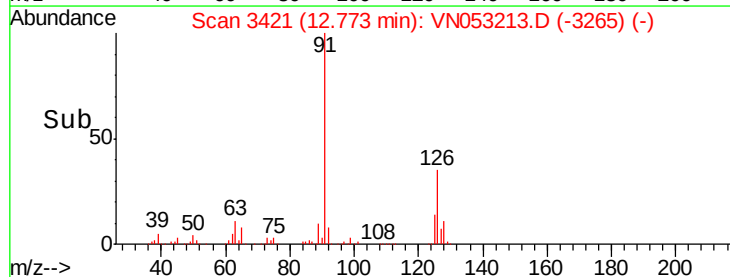
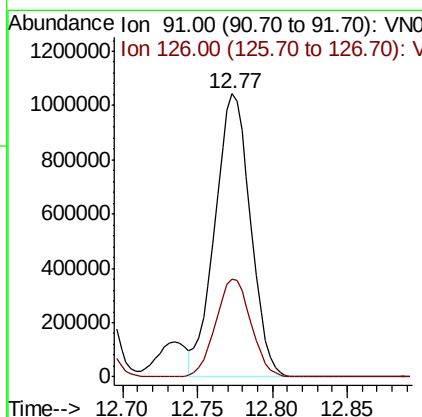
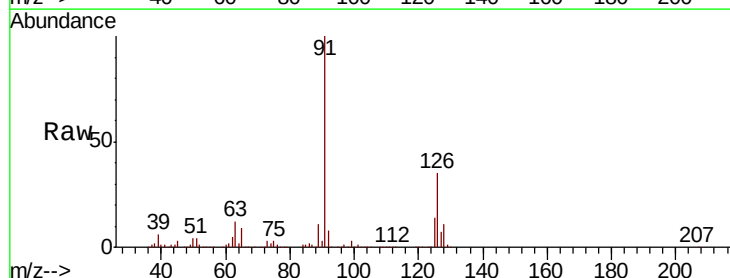
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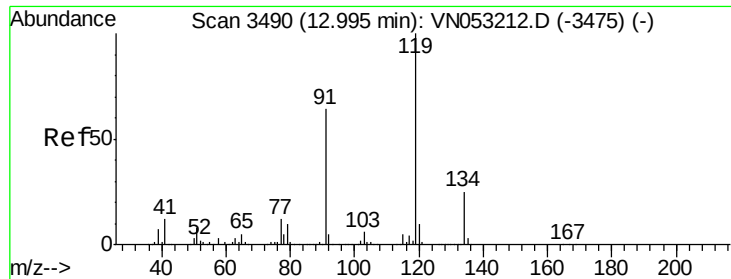
MMDadoda
1/2/2019 9:48:05 AM



#78
4-Chlorotoluene
Concen: 47.420 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.5	0.0	68.2





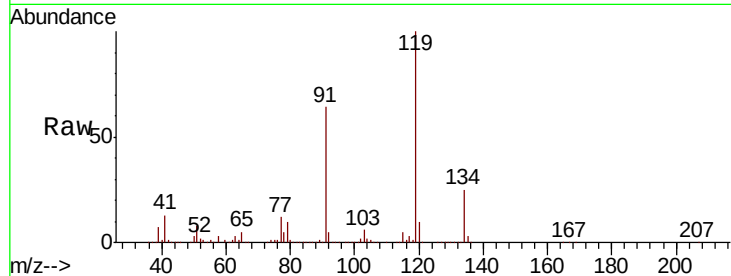
#79
tert-butylbenzene
Concen: 47.141 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampled :
VSTDIC050

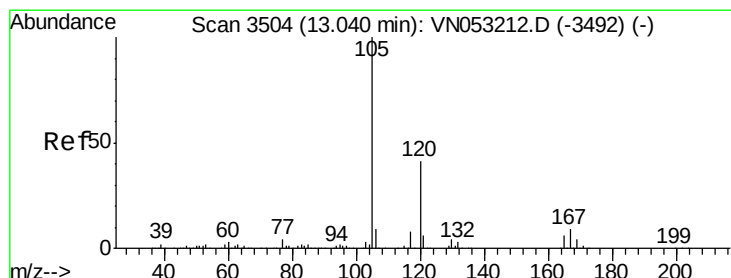
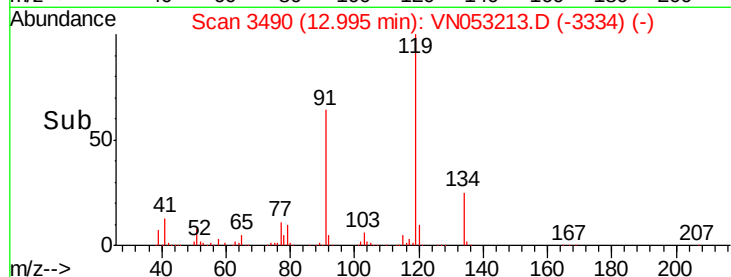
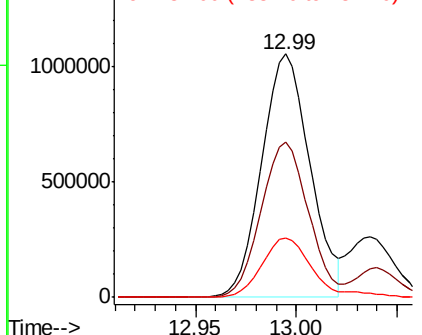
Tot Ion	Ratio	Lower	Upper
119	100		
91	63.0	0.0	129.8
134	24.6	0.0	52.2

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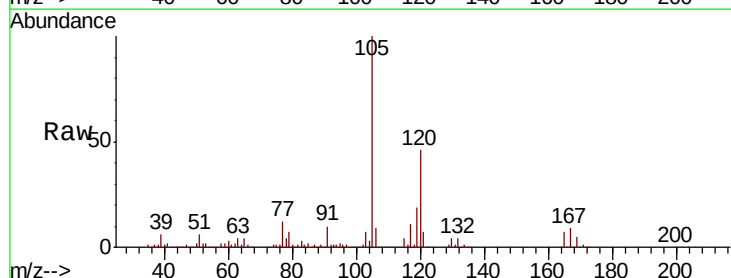


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

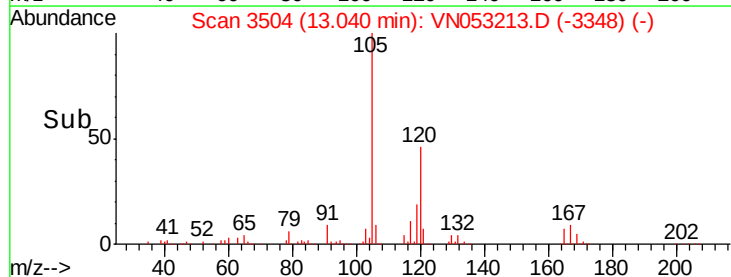
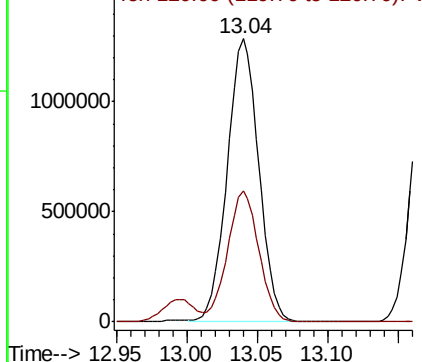


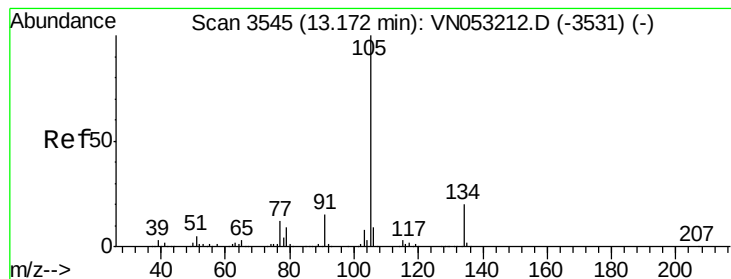
#80
1,2,4-Trimethylbenzene
Concen: 47.479 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	0.0	91.0



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#81

sec-Butylbenzene

Concen: 46.955 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion:105 Resp: 2304582

Ion Ratio Lower Upper

105 100

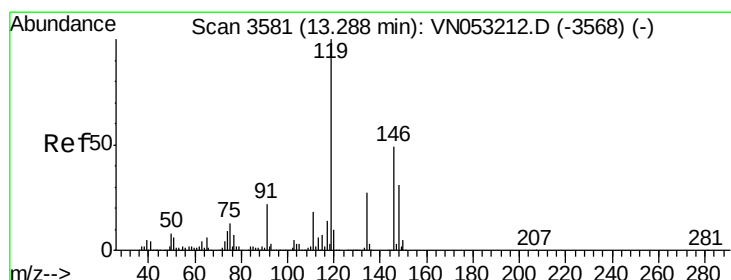
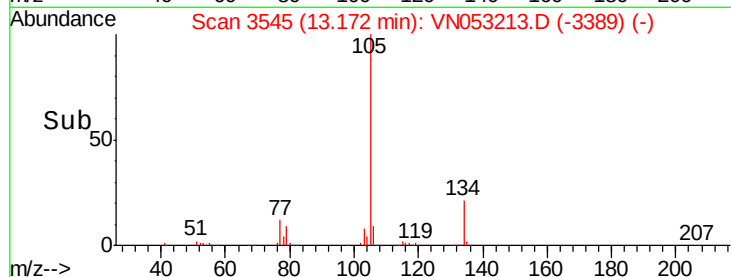
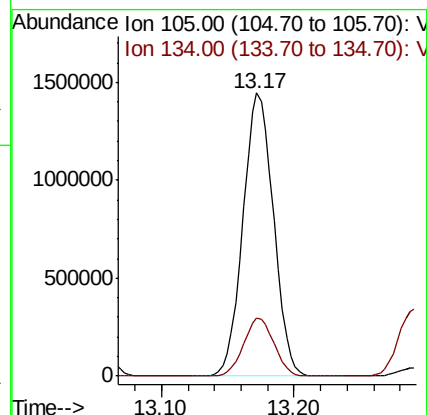
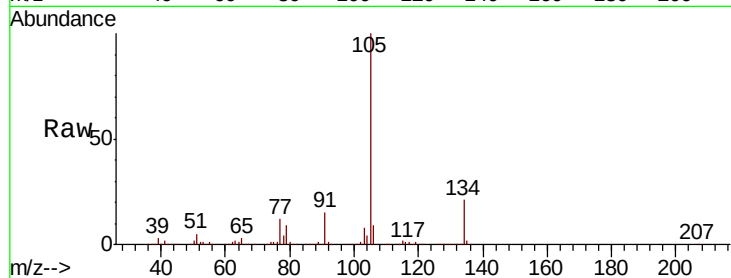
134 20.5 0.0 40.4

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#82

p-Isopropyltoluene

Concen: 47.490 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

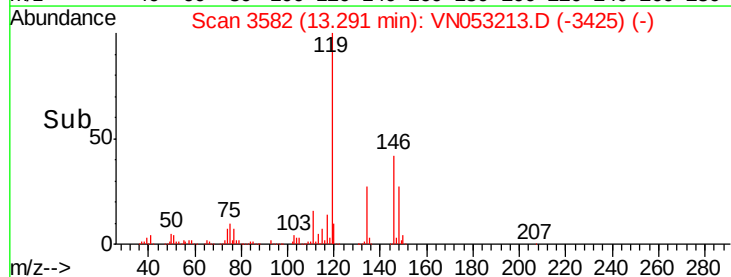
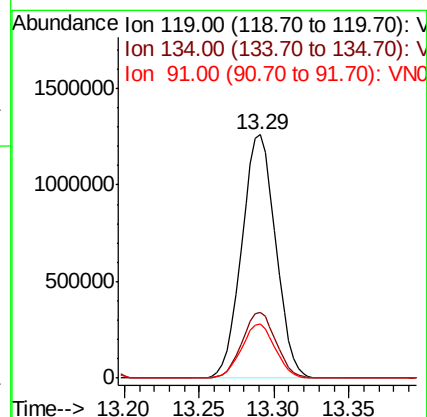
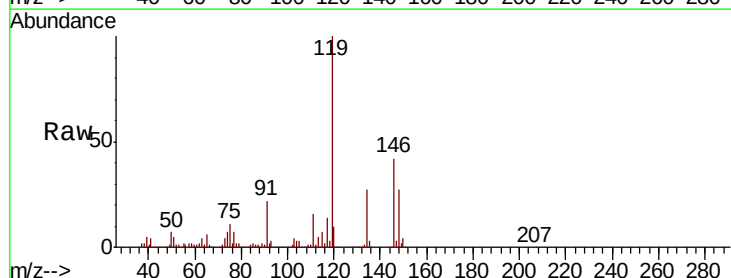
Tgt Ion:119 Resp: 1985956

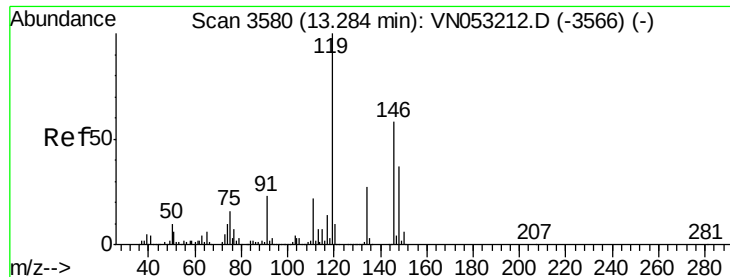
Ion Ratio Lower Upper

119 100

134 27.0 0.0 52.6

91 22.1 0.0 46.2





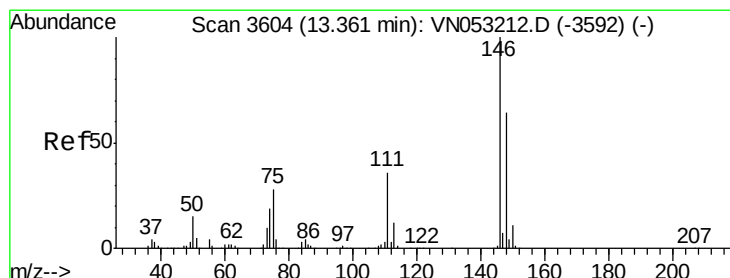
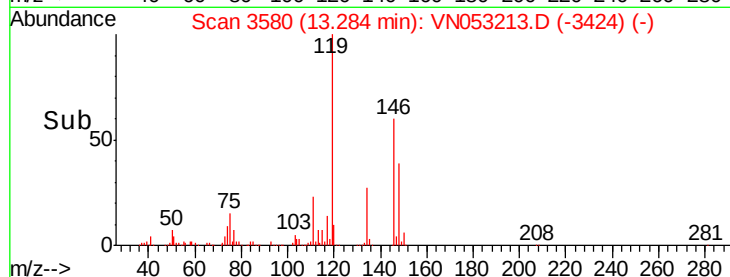
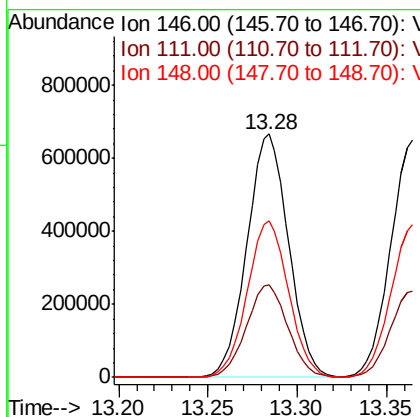
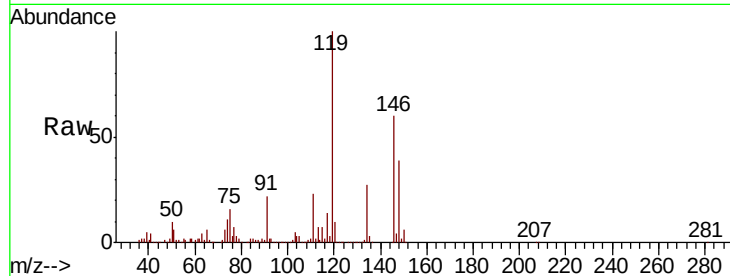
#83
 1,3-Dichlorobenzene
 Concen: 46.362 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN053213.D
 Acq: 28 Dec 2018 9:21

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.7	59.0
148	63.8	32.3	96.8

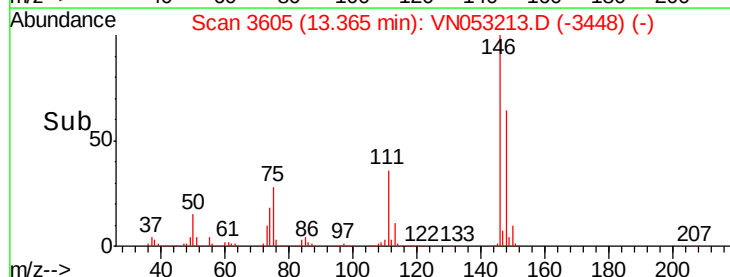
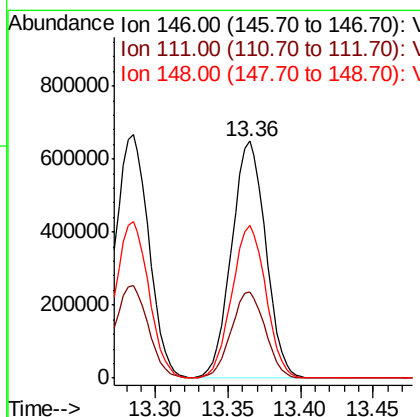
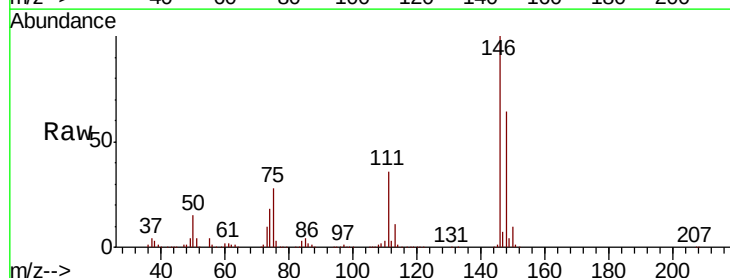
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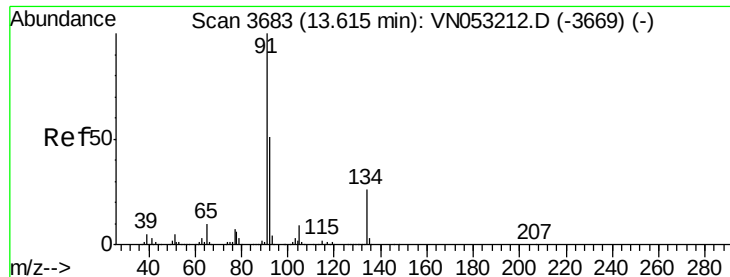
MMDadoda
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#84
 1,4-Dichlorobenzene
 Concen: 46.989 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053213.D
 Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	18.8	56.3
148	64.2	32.5	97.4





#85

n-Butylbenzene

Concen: 48.371 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN053213.D

Acq: 28 Dec 2018 9:21

Instrument :

MSVOA_N

ClientSampled :

VSTDIC050

Tot Ion: 91 Resp: 1604495

Ion Ratio Lower Upper

91 100

92 52.3 0.0 104.2

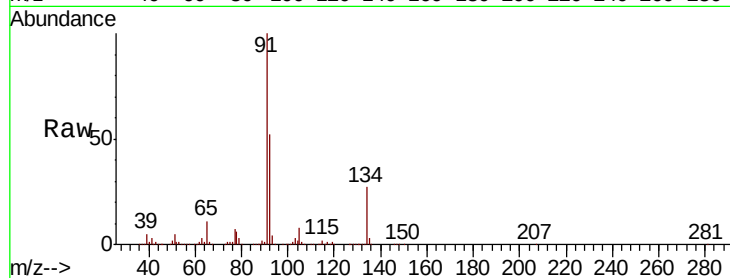
134 27.0 0.0 50.6

Manual Integrations

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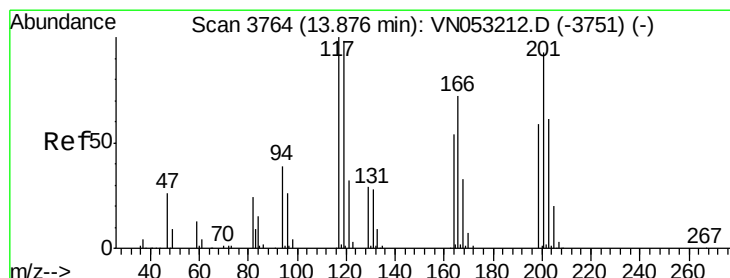
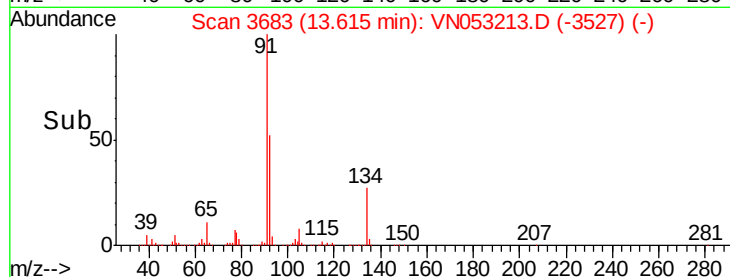
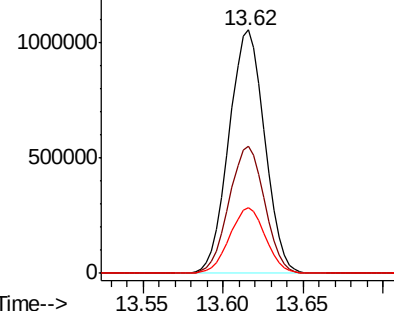
1/2/2019 9:48:05 AM



Abundance Ion 91.00 (90.70 to 91.70): VN053213.D (-3669) (-)

Ion 92.00 (91.70 to 92.70): VN053213.D (-3669) (-)

Ion 134.00 (133.70 to 134.70): VN053213.D (-3669) (-)



#86

Hexachloroethane

Concen: 49.734 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. -0.00 min

Lab File: VN053213.D

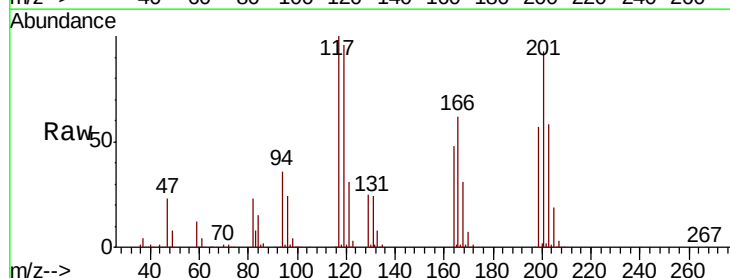
Acq: 28 Dec 2018 9:21

Tgt Ion: 117 Resp: 317237

Ion Ratio Lower Upper

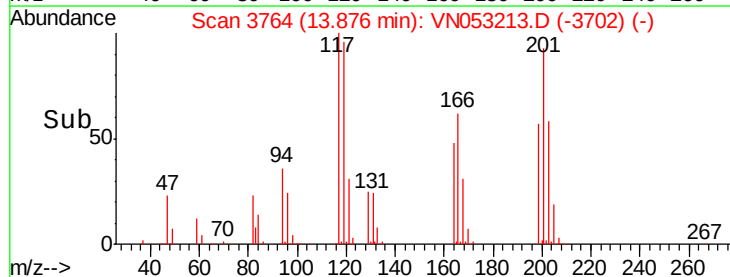
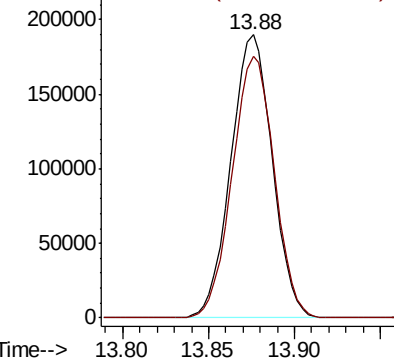
117 100

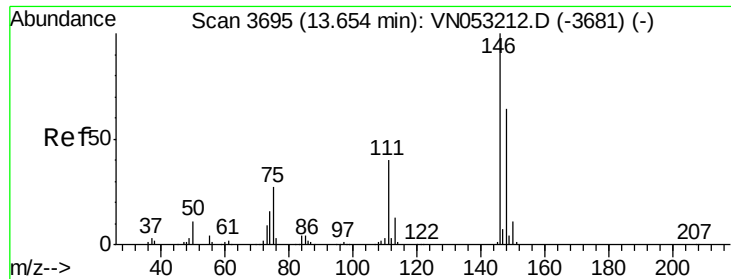
201 93.6 43.8 131.3



Abundance Ion 117.00 (116.70 to 117.70): VN053213.D (-3702) (-)

Ion 201.00 (200.70 to 201.70): VN053213.D (-3702) (-)





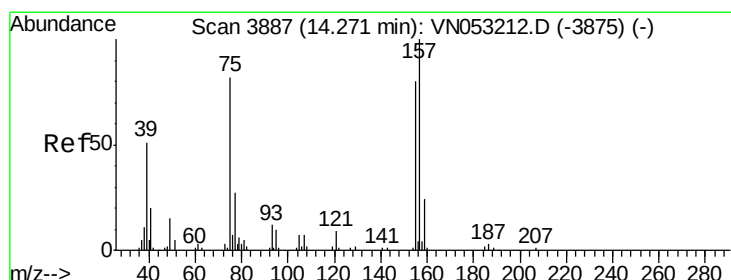
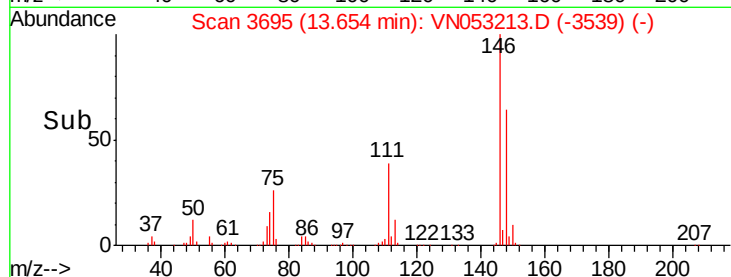
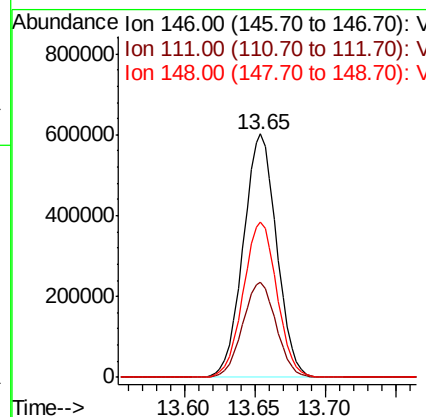
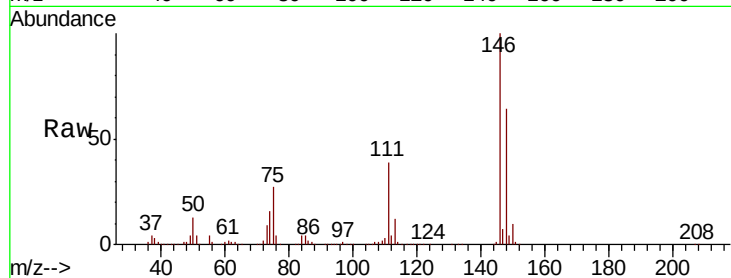
#87
 1,2-Dichlorobenzene
 Concen: 44.690 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053213.D
 Acq: 28 Dec 2018 9:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	20.3	60.8
148	64.5	32.1	96.5

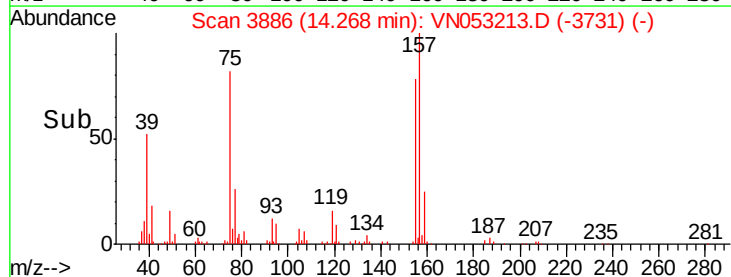
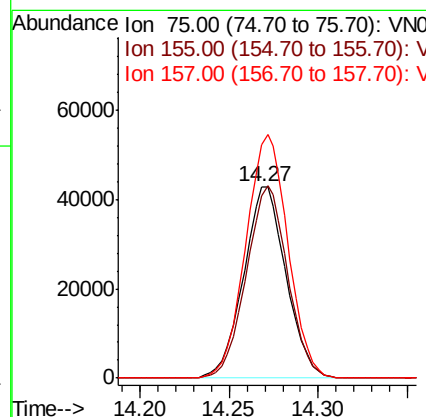
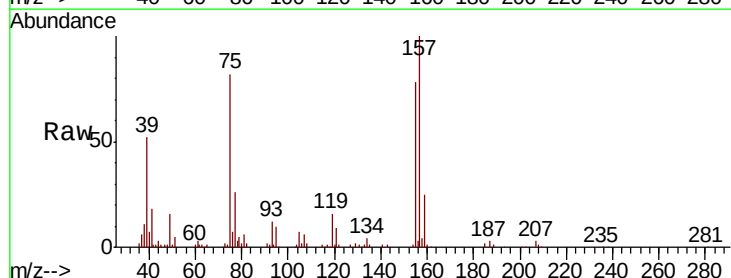
Manual Integrations
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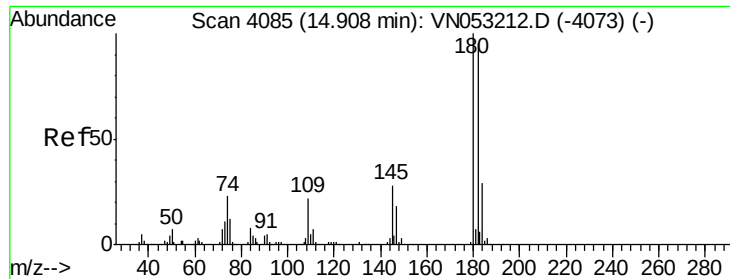
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 44.130 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053213.D
 Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.6	72.2	108.2
157	126.0	94.2	141.2





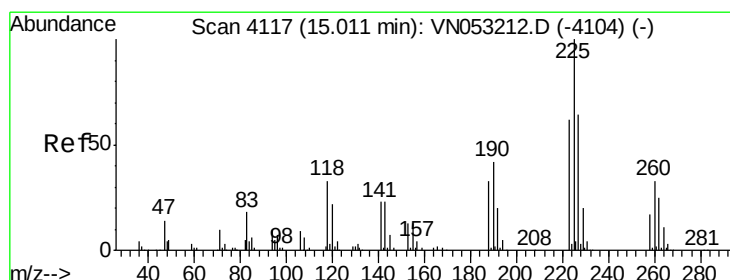
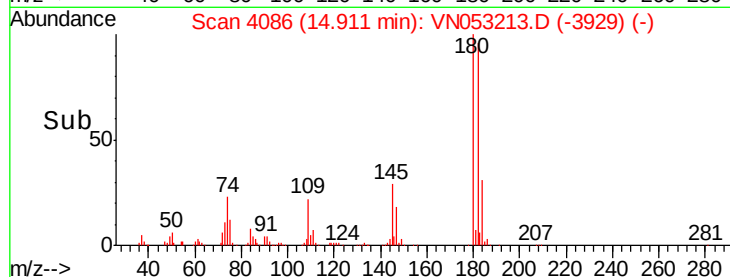
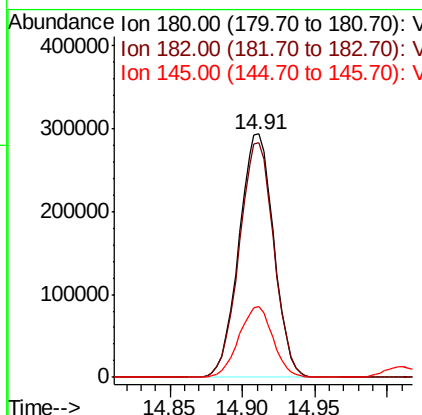
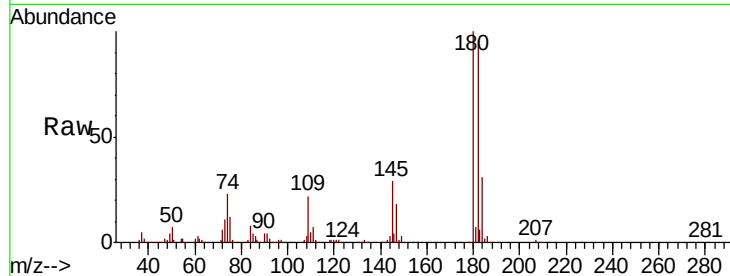
#89
 1,2,4-Trichlorobenzene
 Concen: 51.239 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053213.D
 Acq: 28 Dec 2018 9:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	488561		
182	96.0	76.6	114.8	
145	28.6	23.6	35.4	

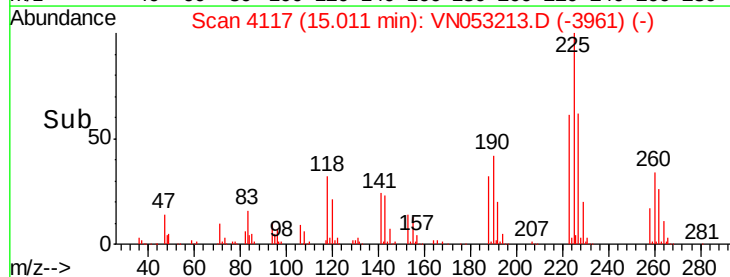
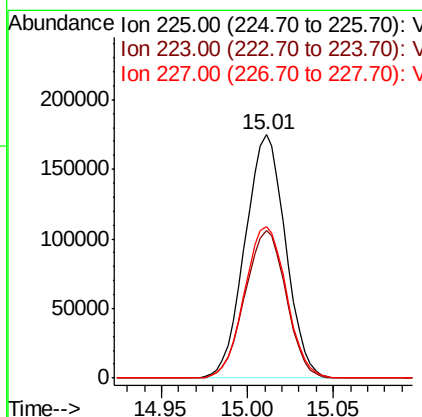
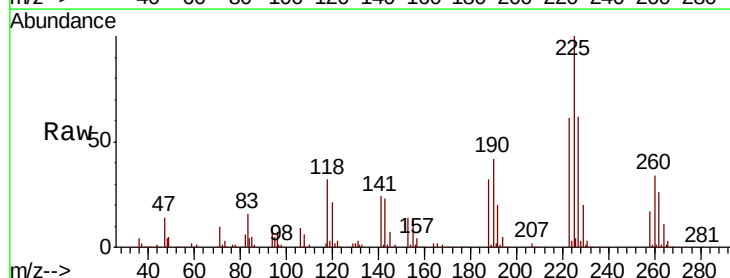
Manual Integrations
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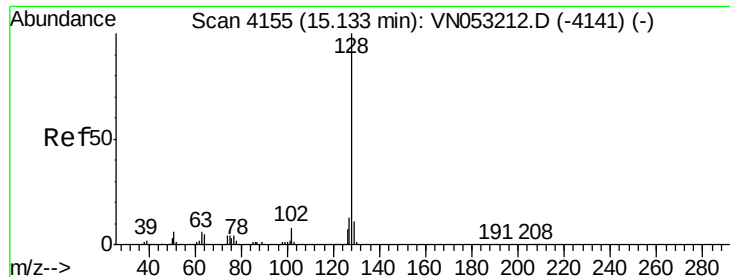
MMDadoda
 1/2/2019 9:48:05 AM



#90
 Hexachlorobutadiene
 Concen: 41.372 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN053213.D
 Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	286493		
223	61.6	0.0	125.6	
227	64.5	0.0	127.8	





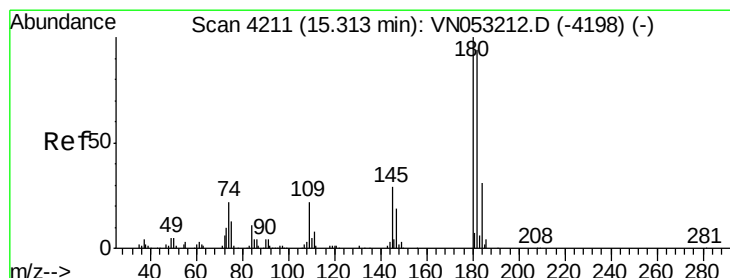
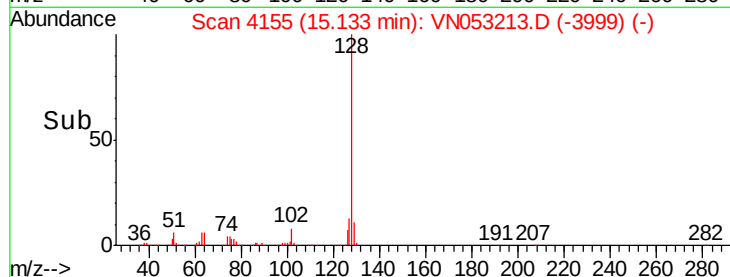
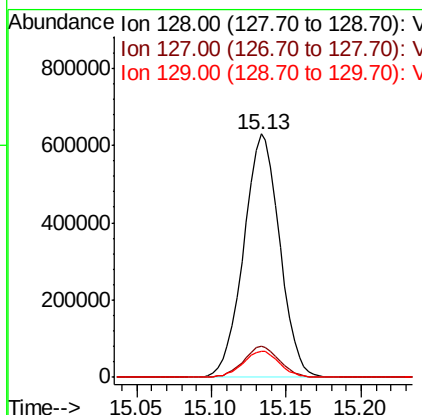
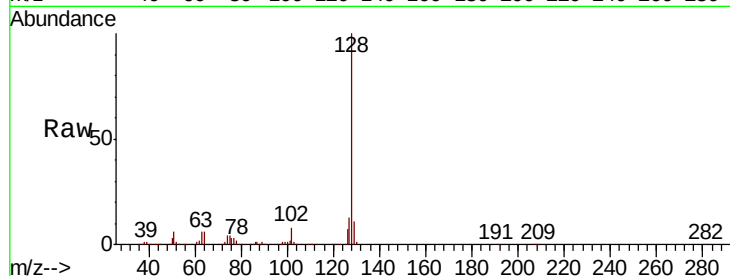
#91
Naphthalene
Concen: 55.572 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	9.9	14.9
129	10.9	8.5	12.7

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#92
1,2,3-Trichlorobenzene
Concen: 52.994 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN053213.D
Acq: 28 Dec 2018 9:21

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	0.0	196.2
145	29.5	0.0	62.2

