

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021319\
 Data File : VN053748.D
 Acq On : 13 Feb 2019 12:07
 Operator : JC/SP
 Sample : VN0213WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0213WBS01

Manual Integrations
 APPROVED

MMDadoda
 2/14/2019 10:39:08 AM

Quant Time: Feb 14 00:41:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	636853	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	949361	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	827296	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	393963	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	324347	50.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.54%	
35) Dibromofluoromethane	7.59	113	309818	51.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.30%	
50) Toluene-d8	10.09	98	1142356	50.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.44%	
62) 4-Bromofluorobenzene	12.40	95	382873	50.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.94%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	112745	15.935	ug/l	100
3) Chloromethane	2.06	50	116302	15.382	ug/l	100
4) Vinyl Chloride	2.19	62	126172	17.191	ug/l	99
5) Bromomethane	2.57	94	90034	18.761	ug/l	100
6) Chloroethane	2.71	64	81702	19.480	ug/l	100
7) Trichlorofluoromethane	3.02	101	182572	18.344	ug/l	98
8) Diethyl Ether	3.41	74	62455	17.182	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	112637	18.299	ug/l	98
10) Methyl Iodide	3.96	142	137098	14.190	ug/l	99
11) Tert butyl alcohol	4.78	59	30585	80.889	ug/l #	88
12) 1,1-Dichloroethene	3.74	96	98998	16.787	ug/l	98
13) Acrolein	3.61	56	11671	56.693	ug/l	92
14) Allyl chloride	4.33	41	145799	15.527	ug/l	98
15) Acrylonitrile	4.99	53	174991	85.729	ug/l	98
16) Acetone	3.81	43	156909	95.749	ug/l	99
17) Carbon Disulfide	4.06	76	262087	14.272	ug/l	100
18) Methyl Acetate	4.33	43	89796	18.502	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	250023	16.724	ug/l	99
20) Methylene Chloride	4.55	84	110591	16.085	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	100034	15.722	ug/l	95
22) Diisopropyl ether	5.95	45	281473	16.178	ug/l	93
23) Vinyl Acetate	5.90	43	948201	78.779	ug/l	99
24) 1,1-Dichloroethane	5.85	63	192758	16.610	ug/l	98
25) 2-Butanone	6.84	43	193510	82.795	ug/l	98
26) 2,2-Dichloropropane	6.82	77	146346	16.520	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	116697	16.495	ug/l	97
28) Bromochloromethane	7.19	49	100645	19.985	ug/l	95
29) Tetrahydrofuran	7.21	42	122314	81.499	ug/l	96
30) Chloroform	7.37	83	192270	16.714	ug/l	98
31) Cyclohexane	7.65	56	167026	15.341	ug/l	93
32) 1,1,1-Trichloroethane	7.57	97	159592	16.670	ug/l	99
36) 1,1-Dichloropropene	7.79	75	138153	16.143	ug/l	97
37) Ethyl Acetate	6.93	43	82700	17.303	ug/l	98
38) Carbon Tetrachloride	7.77	117	143813	16.681	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	158944	15.655	ug/l	99
40) Benzene	8.04	78	440698	16.699	ug/l	99
41) Methacrylonitrile	7.17	41	34810	13.031	ug/l #	72
42) 1,2-Dichloroethane	8.12	62	130989	16.717	ug/l	98
43) Isopropyl Acetate	8.17	43	143361	15.531	ug/l #	86
44) Trichloroethene	8.84	130	122421	16.294	ug/l	98
45) 1,2-Dichloropropane	9.12	63	114783	17.005	ug/l	99
46) Dibromomethane	9.21	93	69185	17.003	ug/l	97
47) Bromodichloromethane	9.40	83	144585	17.090	ug/l	98
48) Methyl methacrylate	9.20	41	72380	16.427	ug/l	99
49) 1,4-Dioxane	9.20	88	21262	359.106	ug/l #	94
51) 4-Methyl-2-Pentanone	9.99	43	376682	83.045	ug/l	100
52) Toluene	10.16	92	265661	16.962	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	136534	16.117	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	165277	16.464	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	99907	17.702	ug/l	98
56) Ethyl methacrylate	10.43	69	107943	16.167	ug/l	96
57) 1,3-Dichloropropane	10.71	76	164379	17.042	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	299128	77.935	ug/l	99
59) 2-Hexanone	10.75	43	245142	79.610	ug/l	100
60) Dibromochloromethane	10.90	129	108683	17.077	ug/l	98
61) 1,2-Dibromoethane	11.01	107	92566	16.571	ug/l	100
64) Tetrachloroethene	10.63	164	120299	16.963	ug/l	99
65) Chlorobenzene	11.43	112	294591	16.764	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	108743	17.719	ug/l	98
67) Ethyl Benzene	11.51	91	477495	16.542	ug/l	100
68) m/p-Xylenes	11.62	106	380770	34.561	ug/l	97
69) o-Xylene	11.95	106	181533	17.055	ug/l	99
70) Styrene	11.96	104	292319	16.944	ug/l	99
71) Bromoform	12.13	173	73080	17.369	ug/l #	100
73) Isopropylbenzene	12.25	105	488263	17.630	ug/l	100
74) N-amyl acetate	12.07	43	108504	16.293	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	113027	17.053	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	93871m	18.551	ug/l	
77) Bromobenzene	12.53	156	128207	17.177	ug/l	97
78) n-propylbenzene	12.59	91	556525	17.383	ug/l	100
79) 2-Chlorotoluene	12.68	91	331471	17.451	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	417372	18.173	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	28183	15.661	ug/l	98
82) 4-Chlorotoluene	12.77	91	337274	17.304	ug/l	100
83) tert-Butylbenzene	12.99	119	371143	18.285	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	420821	17.985	ug/l	100
85) sec-Butylbenzene	13.17	105	506678	18.344	ug/l	99
86) p-Isopropyltoluene	13.29	119	436964	18.088	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	225820	16.830	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	222019	16.728	ug/l	99
89) n-Butylbenzene	13.62	91	355427	16.998	ug/l	99
90) Hexachloroethane	13.88	117	74413	18.675	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	222286	17.305	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	16142	17.088	ug/l	96

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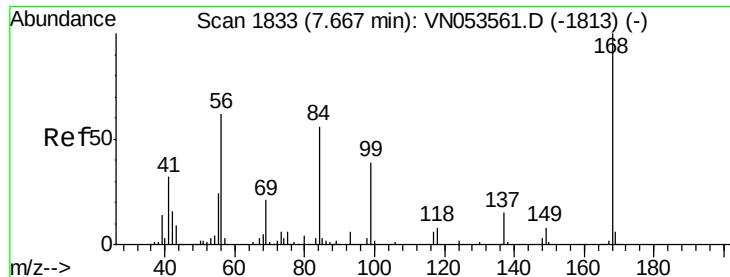
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	115222	15.640	ug/l	98
94) Hexachlorobutadiene	15.01	225	88797	19.354	ug/l	99
95) Naphthalene	15.13	128	209137	13.401	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	111579	16.323	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0213WBS01

Tot Ion:168 Resp: 636853

Ion Ratio Lower Upper

168 100

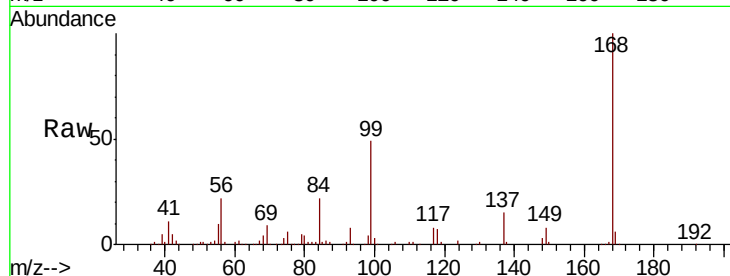
99 48.3 39.1 58.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

250000

200000

150000

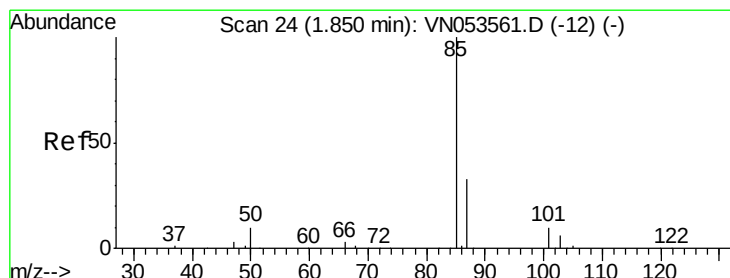
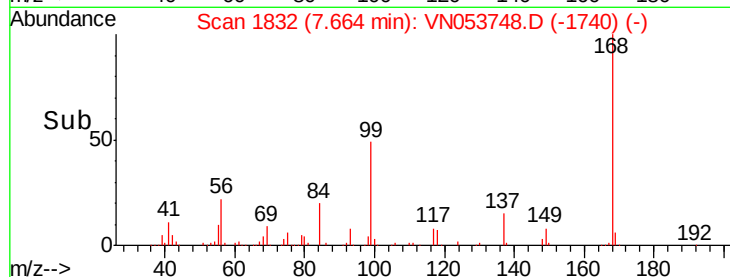
100000

50000

0

7.50 7.60 7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 15.935 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053748.D

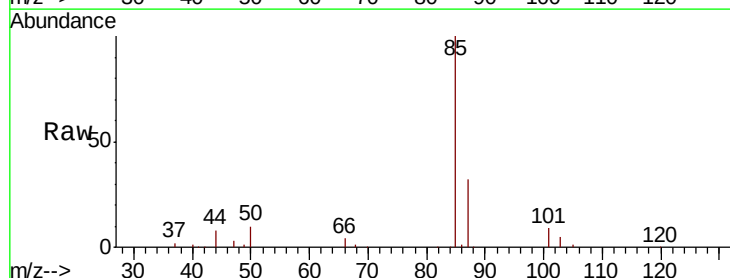
Acq: 13 Feb 2019 12:07

Tgt Ion: 85 Resp: 112745

Ion Ratio Lower Upper

85 100

87 32.1 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

80000

60000

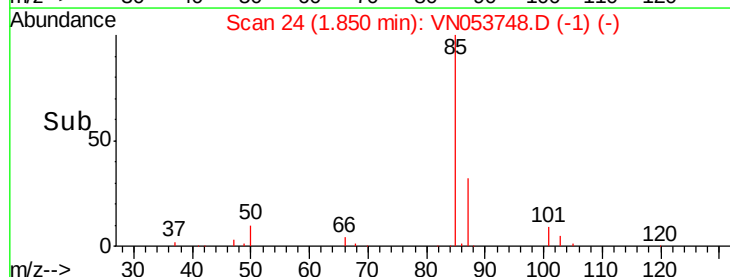
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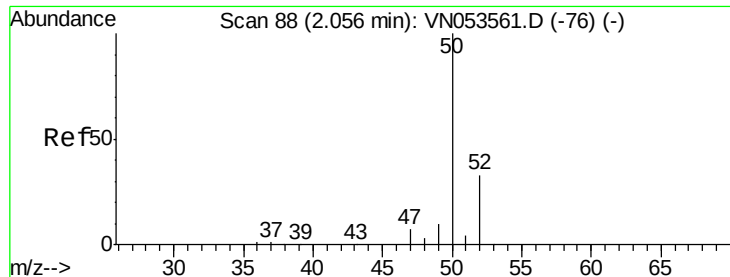
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 15.382 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0213WBS01

Tot Ion: 50 Resp: 116302

Ion Ratio Lower Upper

50 100

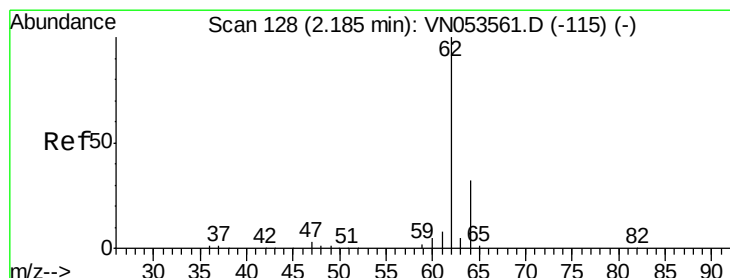
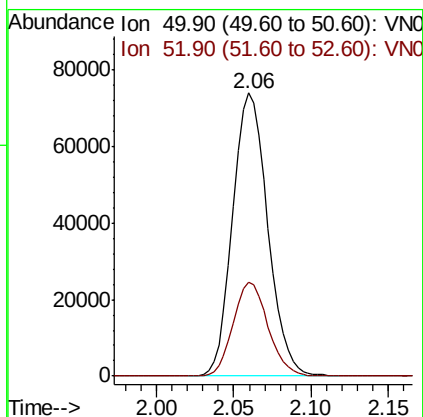
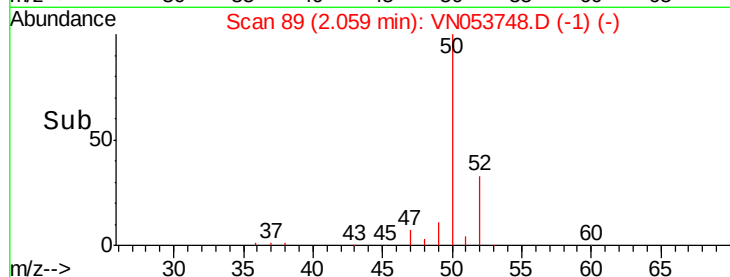
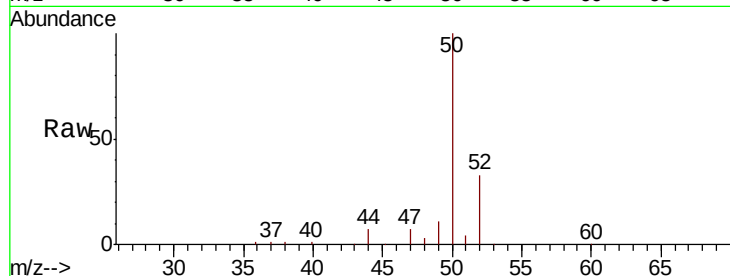
52 33.2 26.6 40.0

Manual Integrations

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2/14/2019 10:39:08 AM



#4

Vinyl Chloride

Concen: 17.191 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053748.D

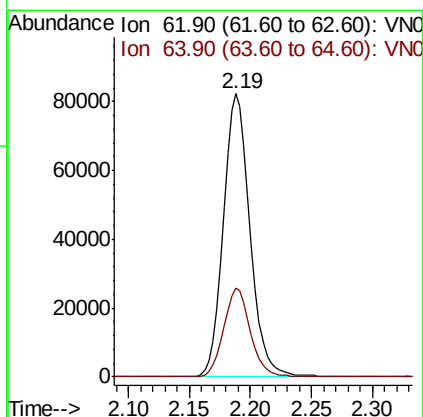
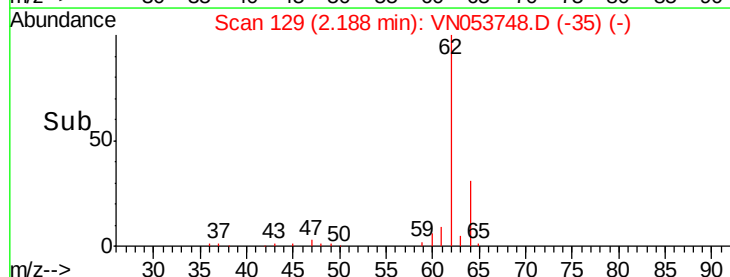
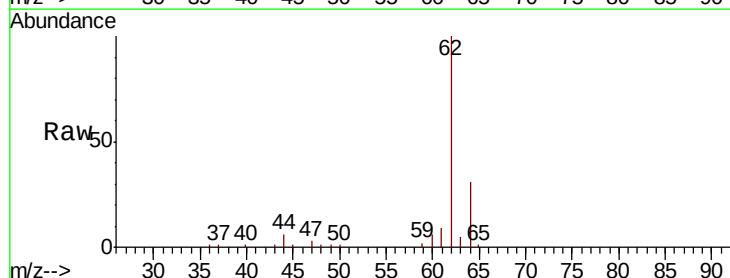
Acq: 13 Feb 2019 12:07

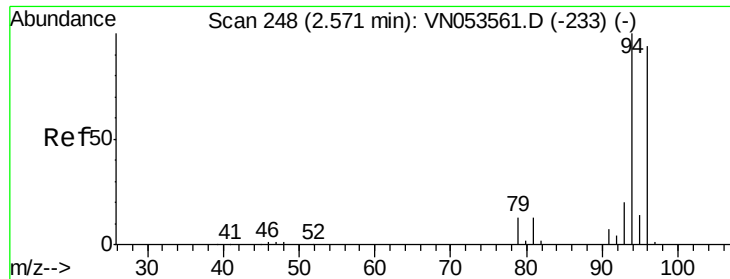
Tgt Ion: 62 Resp: 126172

Ion Ratio Lower Upper

62 100

64 31.4 25.4 38.2





#5

Bromomethane

Concen: 18.761 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0213WBS01

Tot Ion: 94 Resp: 90034

Ion Ratio Lower Upper

94 100

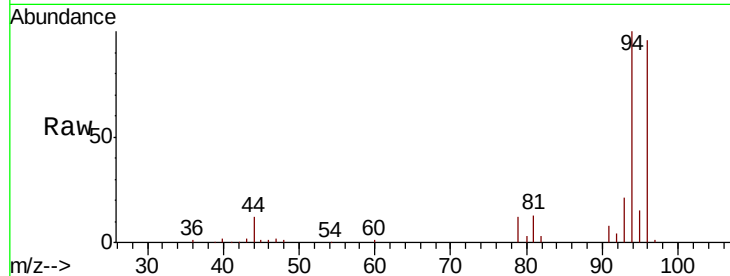
96 96.1 76.8 115.2

Manual Integrations

APPROVED

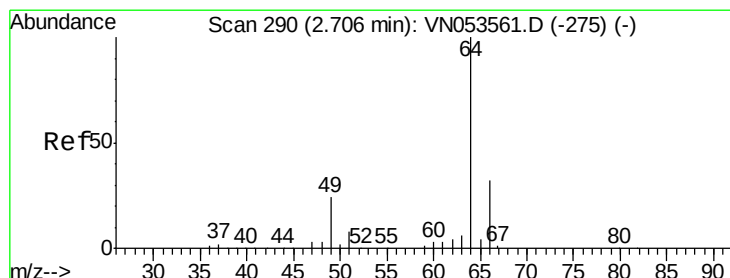
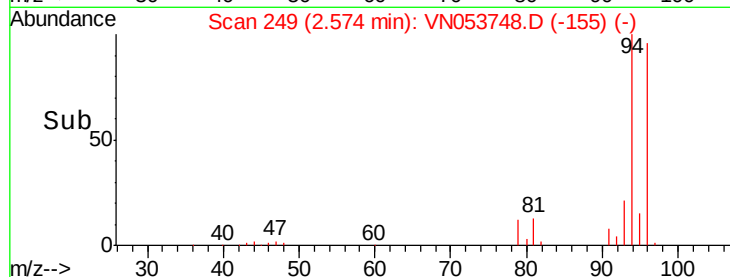
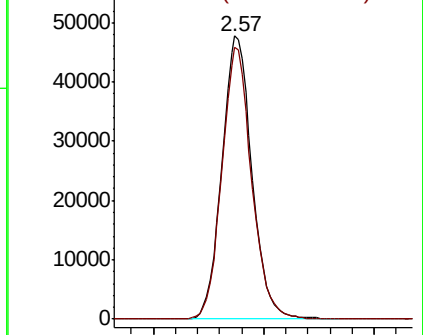
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.480 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN053748.D

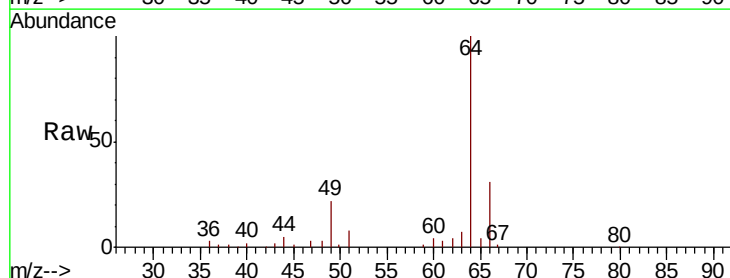
Acq: 13 Feb 2019 12:07

Tgt Ion: 64 Resp: 81702

Ion Ratio Lower Upper

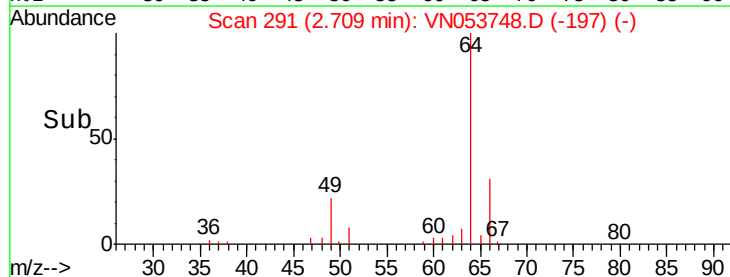
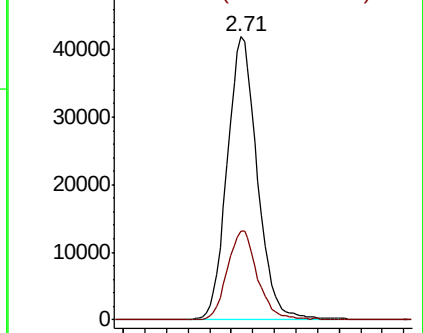
64 100

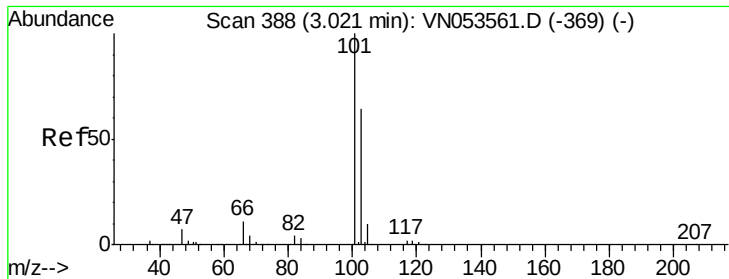
66 31.2 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

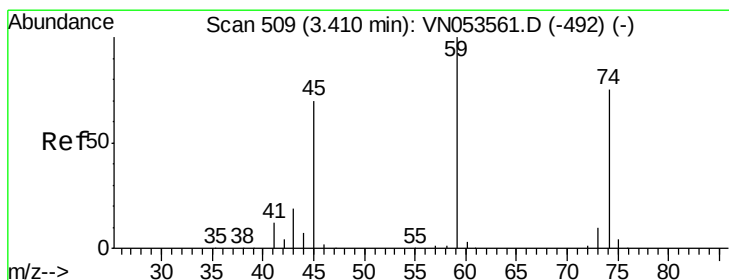
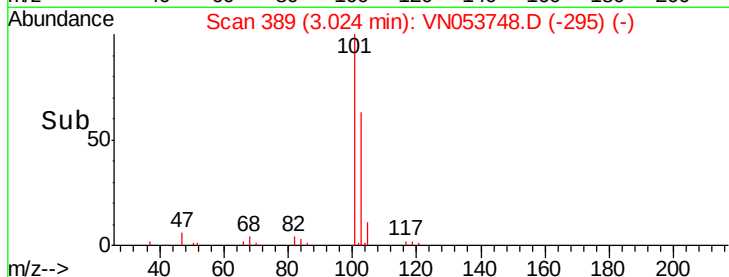
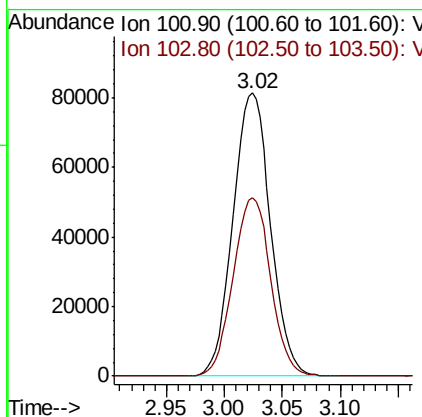
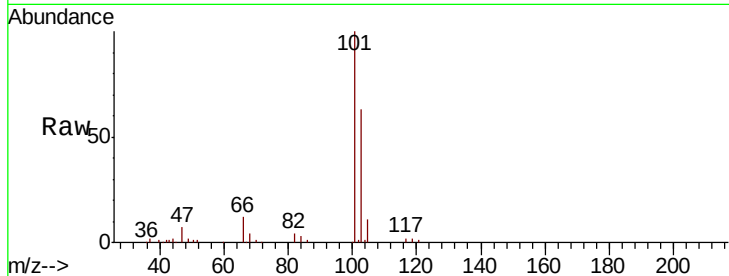
Trichlorofluoromethane
Concen: 18.344 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.1	51.6	77.4

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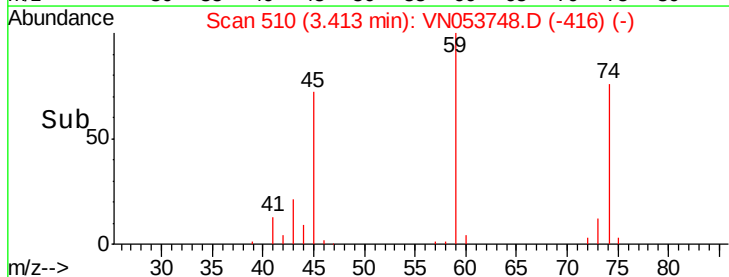
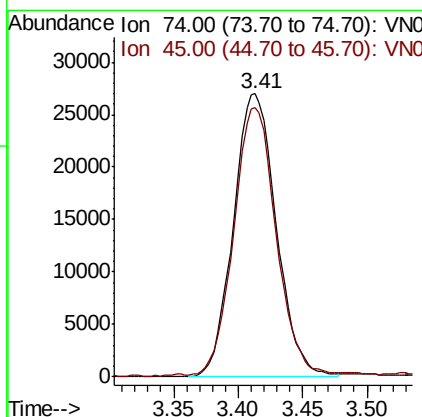
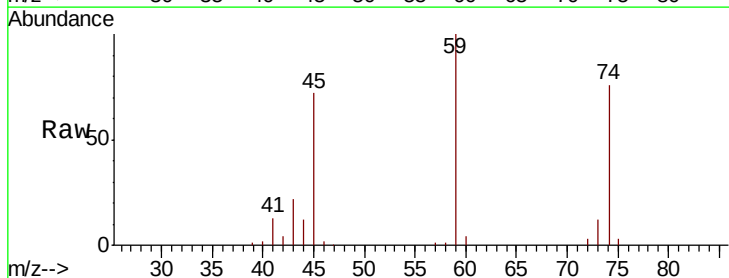
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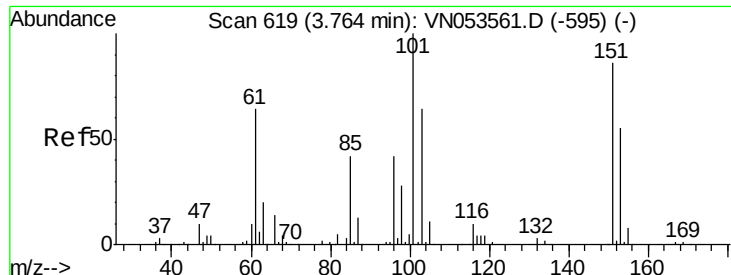


#8

Diethyl Ether
Concen: 17.182 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Lower	Upper
74	100		
45	92.9	47.9	143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.299 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

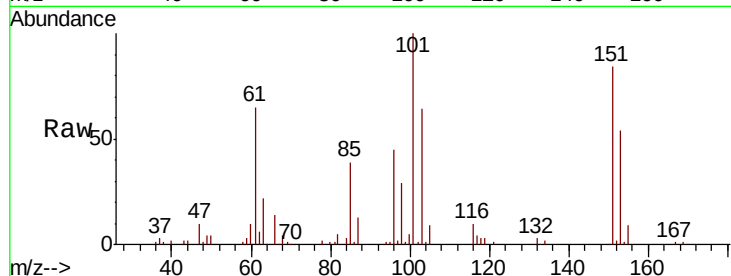
ClientSampleId :

VN0213WBS01

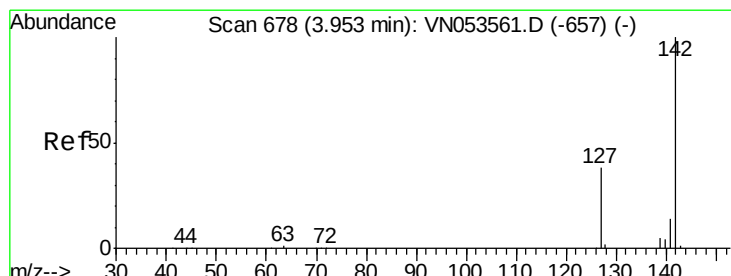
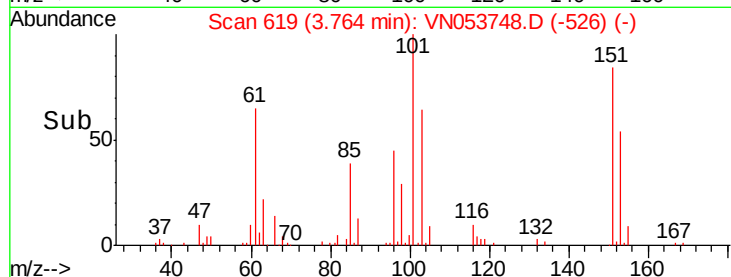
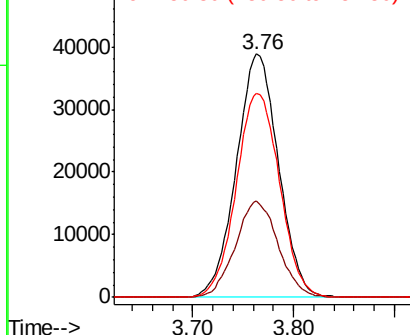
Tot Ion:	101	Resp:	112637
Ion Ratio	Lower	Upper	
101	100		
85	40.2	32.8	49.2
151	86.3	66.9	100.3

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 14.190 ug/l

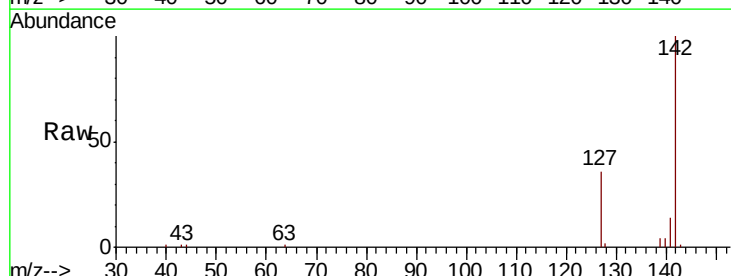
RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

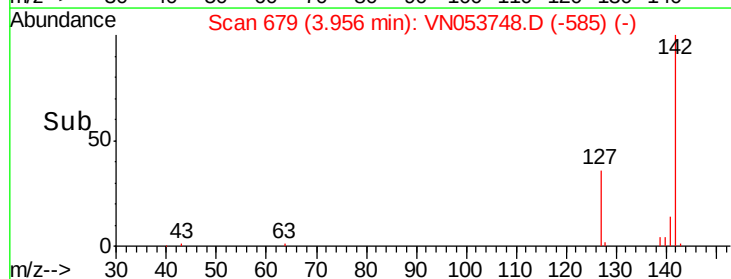
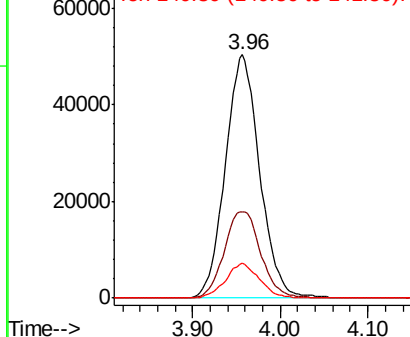
Lab File: VN053748.D

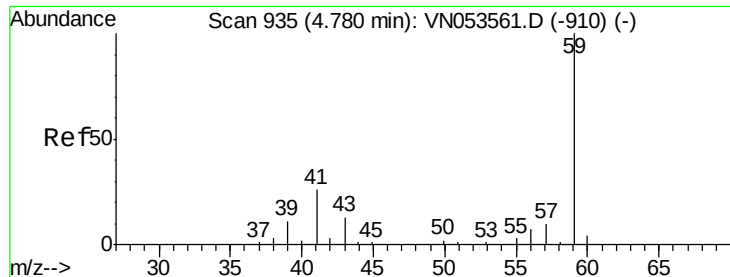
Acq: 13 Feb 2019 12:07

Tgt Ion:	142	Resp:	137098
Ion Ratio	Lower	Upper	
142	100		
127	37.9	31.0	46.4
141	14.0	11.1	16.7



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





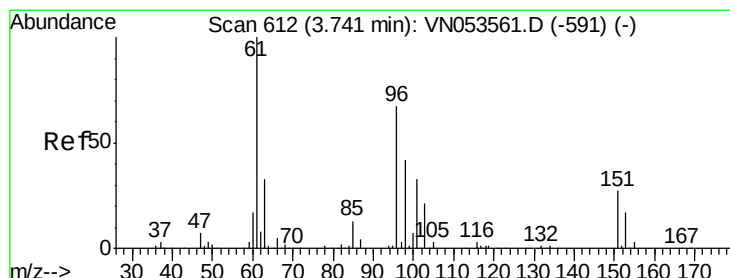
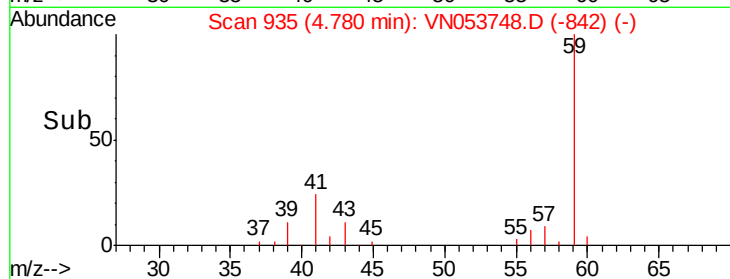
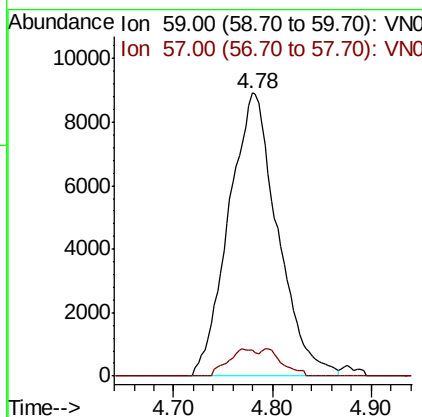
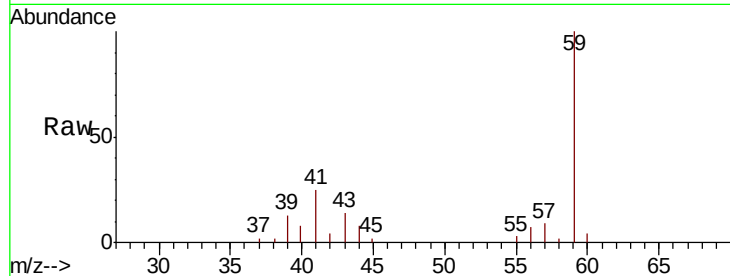
#11
Tert butyl alcohol
Concen: 80.889 ug/l
RT: 4.78 min Scan# 935
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0213WBS01

Tot Ion	59	Resp	30585
Ion Ratio	100	Lower	Upper
57	5.6	8.2	12.4#

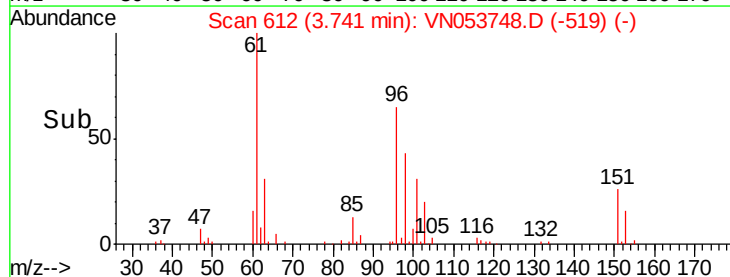
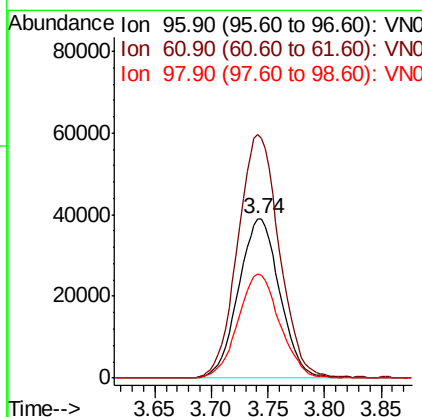
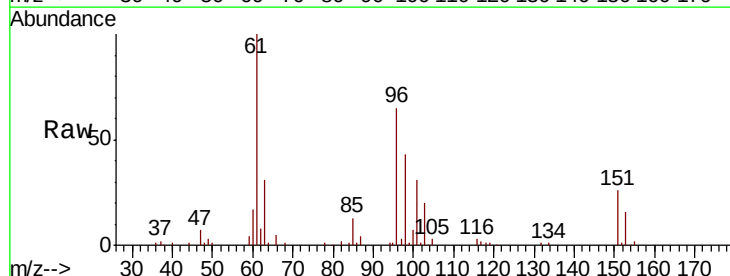
Manual Integrations
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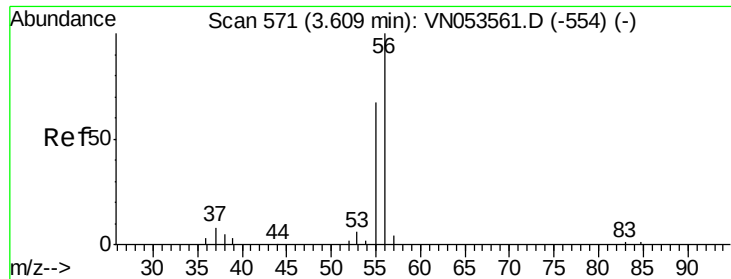
MMDadoda
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#12
1,1-Dichloroethene
Concen: 16.787 ug/l
RT: 3.74 min Scan# 612
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion	96	Resp	98998
Ion Ratio	100	Lower	Upper
61	152.9	122.9	184.3
98	65.6	49.4	74.0





#13

Acrolein

Concen: 56.693 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0213WBS01

Tot Ion: 56 Resp: 11671

Ion Ratio Lower Upper

56 100

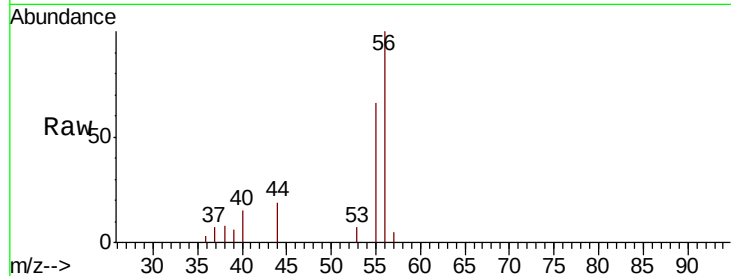
55 64.7 57.4 86.0

Manual Integrations

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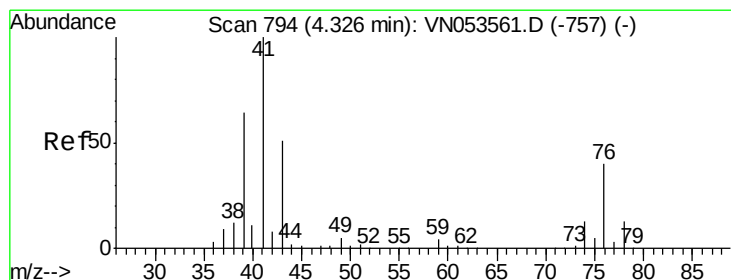
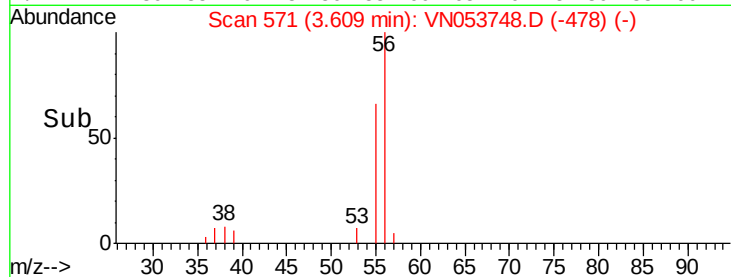
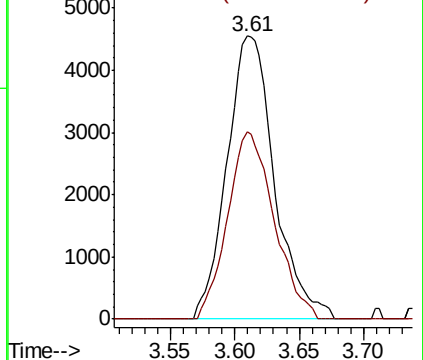
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 15.527 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

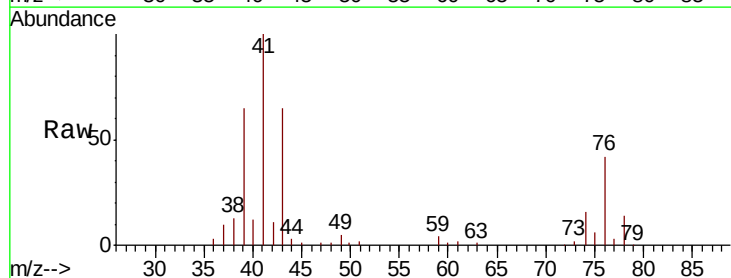
Tgt Ion: 41 Resp: 145799

Ion Ratio Lower Upper

41 100

39 60.3 48.9 73.3

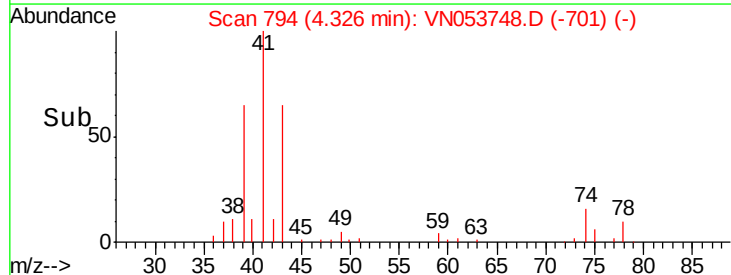
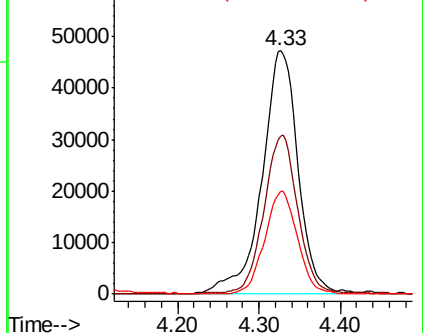
76 38.4 29.4 44.2

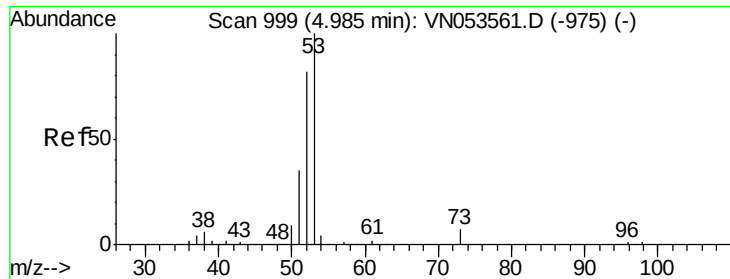


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 85.729 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

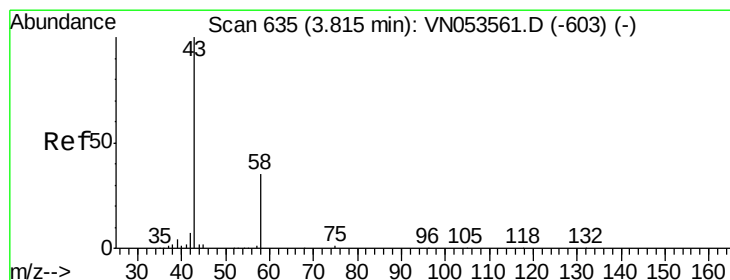
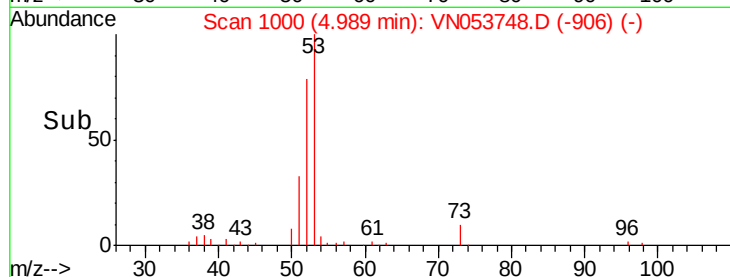
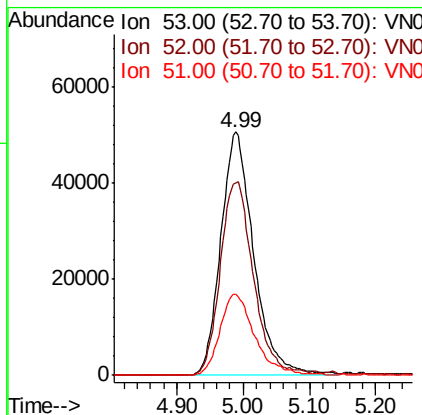
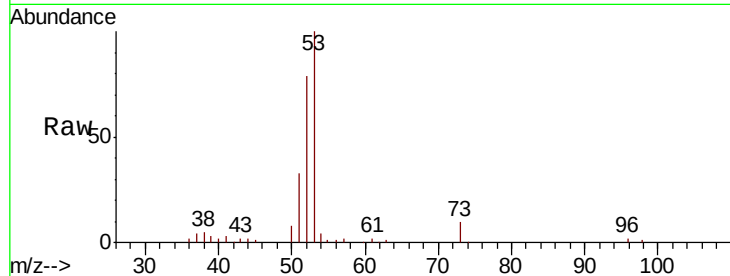
ClientSampleId :

VN0213WBS01

Tot Ion:	53	Resp:	174991
Ion	Ratio	Lower	Upper
53	100		
52	80.0	66.0	99.0
51	35.3	28.3	42.5

Manual Integrations
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#16

Acetone

Concen: 95.749 ug/l

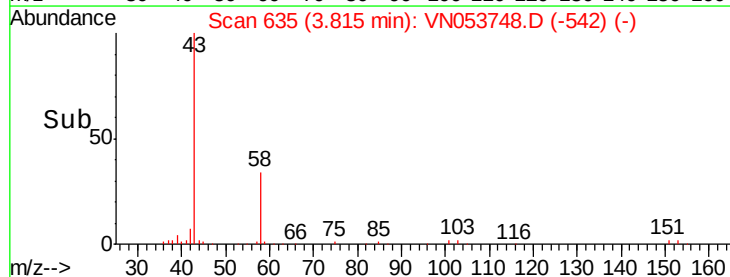
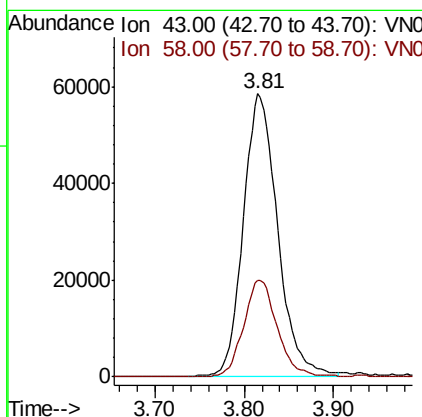
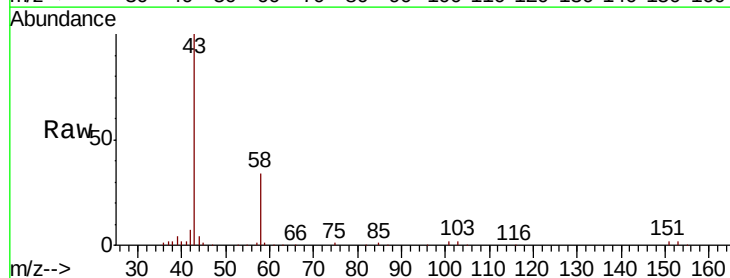
RT: 3.81 min Scan# 635

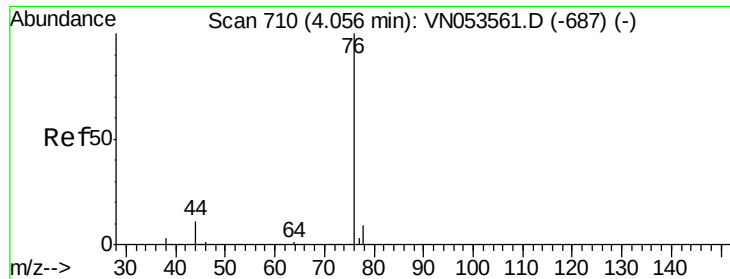
Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Tgt Ion:	43	Resp:	156909
Ion	Ratio	Lower	Upper
43	100		
58	34.2	27.1	40.7





#17

Carbon Disulfide

Concen: 14.272 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

ClientSampled :

VN0213WBS01

Tot Ion: 76 Resp: 262087

Ion Ratio Lower Upper

76 100

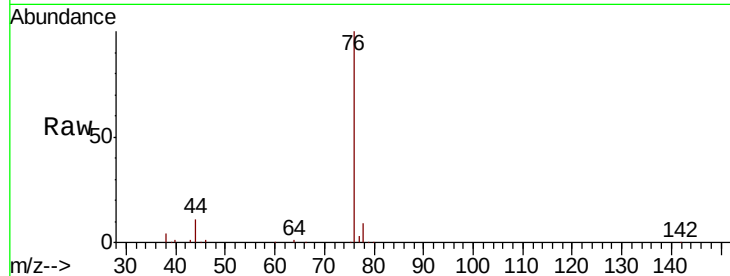
78 9.3 7.3 10.9

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.06

100000

80000

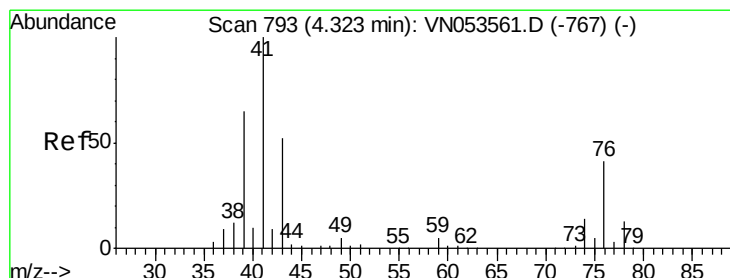
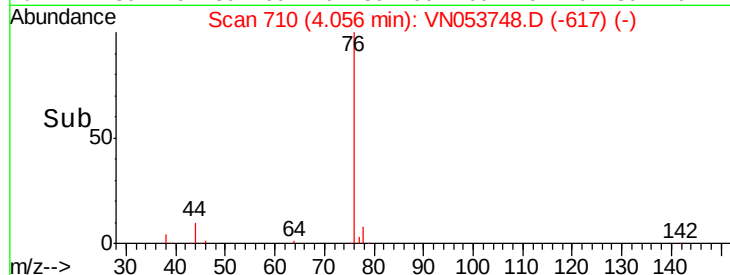
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 18.502 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053748.D

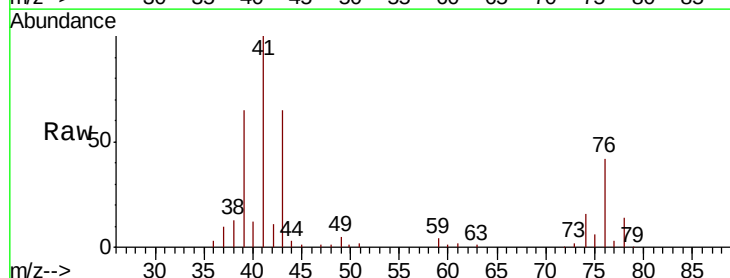
Acq: 13 Feb 2019 12:07

Tgt Ion: 43 Resp: 89796

Ion Ratio Lower Upper

43 100

74 24.4 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

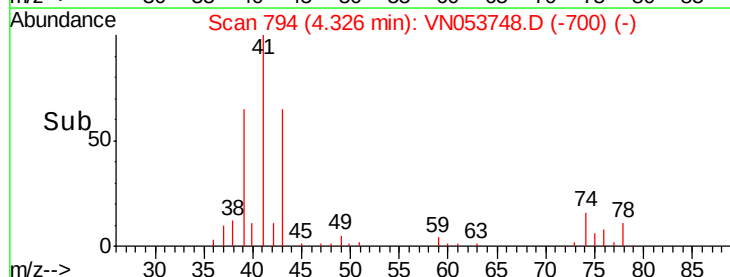
30000

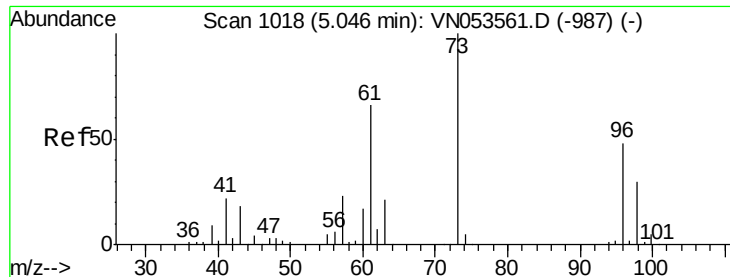
20000

10000

0

Time-->





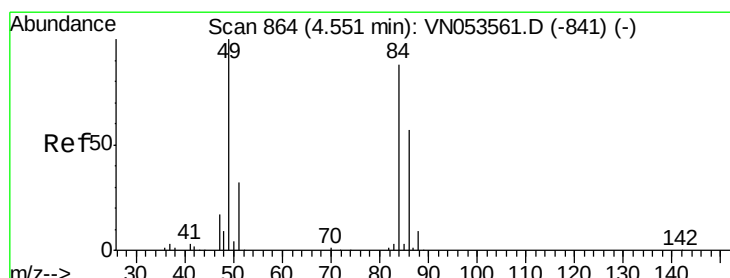
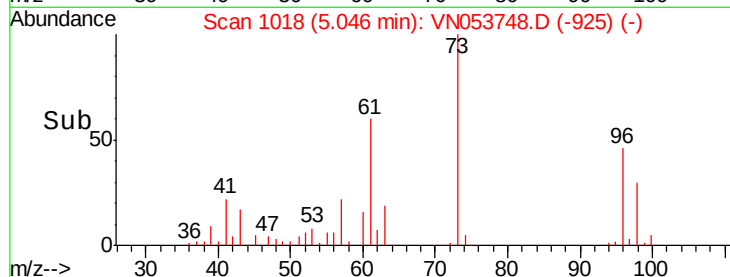
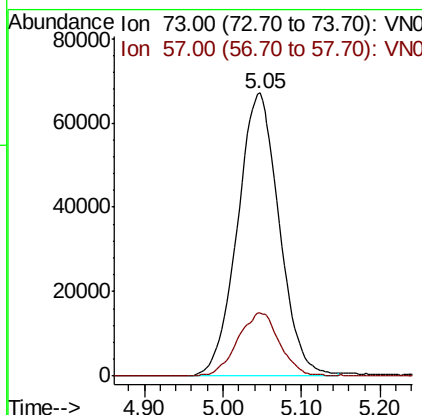
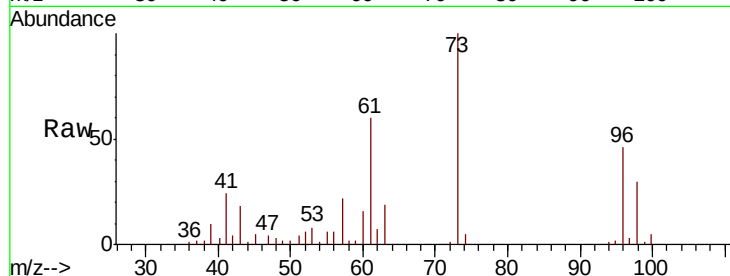
#19
Methvl tert-butyl Ether
Concen: 16.724 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0213WBS01

Tot Ion: 73 Resp: 250023
Ion Ratio Lower Upper
73 100
57 22.3 18.3 27.5

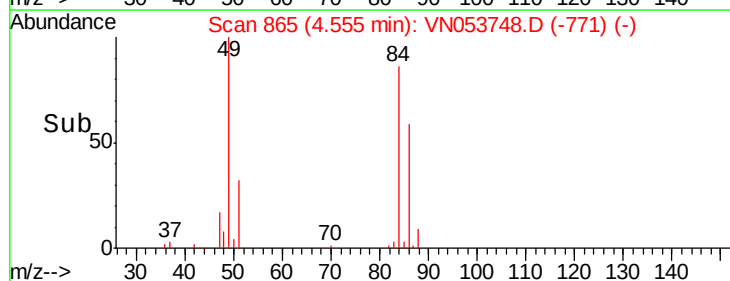
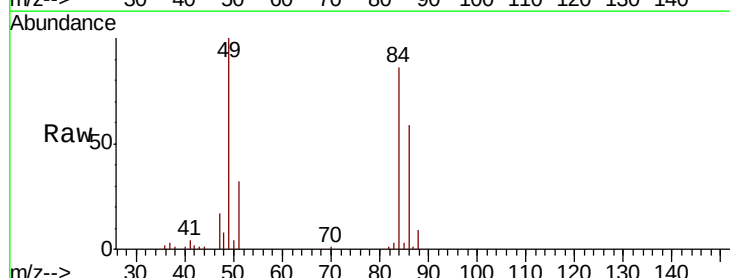
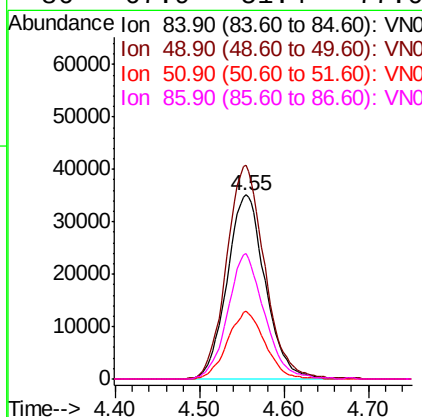
Manual Integrations
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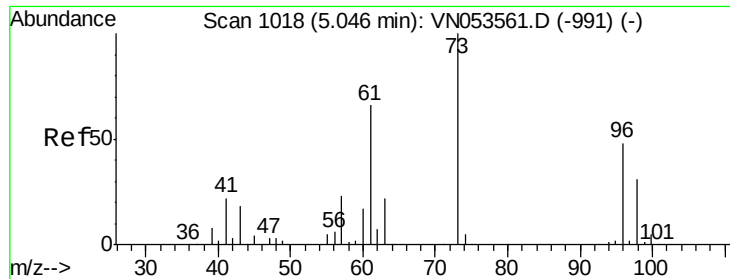
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#20
Methylene Chloride
Concen: 16.085 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion: 84 Resp: 110591
Ion Ratio Lower Upper
84 100
49 115.5 94.3 141.5
51 37.0 29.4 44.2
86 67.9 51.4 77.0





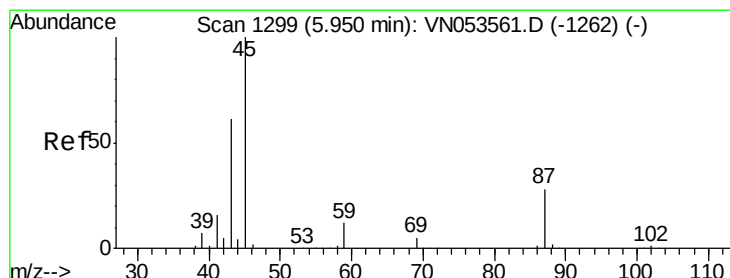
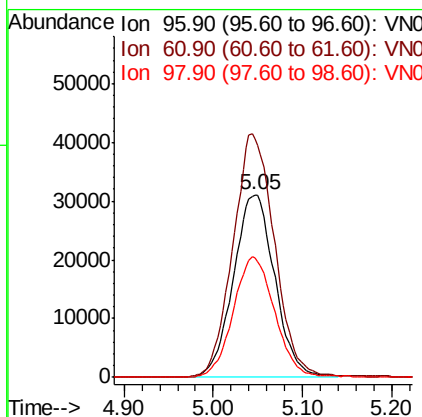
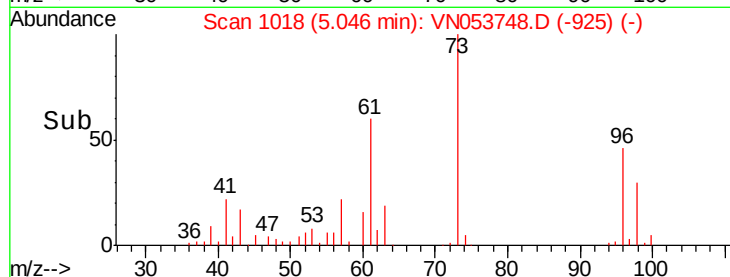
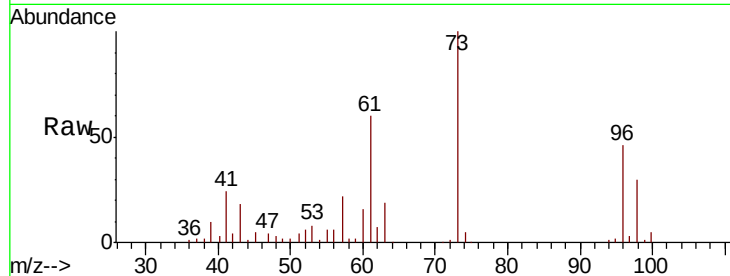
#21
trans-1,2-Dichloroethene
Concen: 15.722 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampled :
VN0213WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.6	110.1	165.1
98	65.3	50.0	75.0

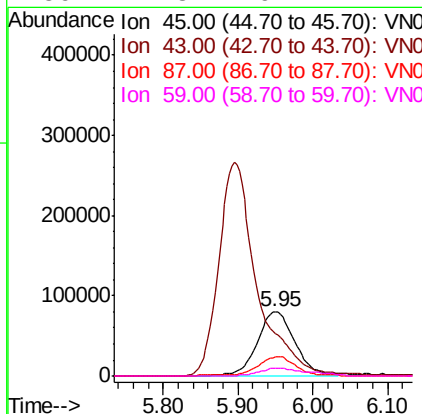
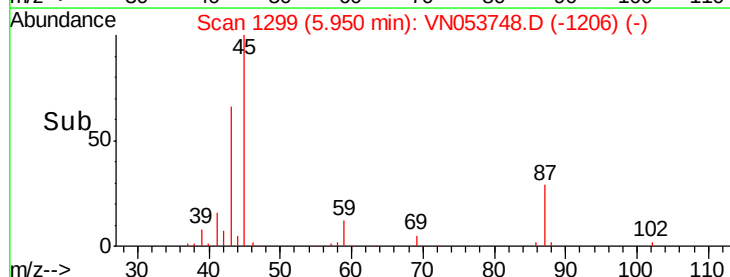
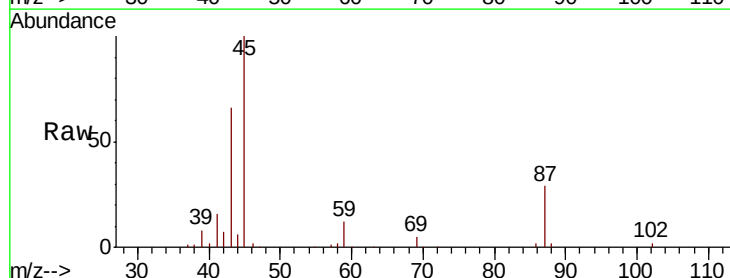
Manual Integrations
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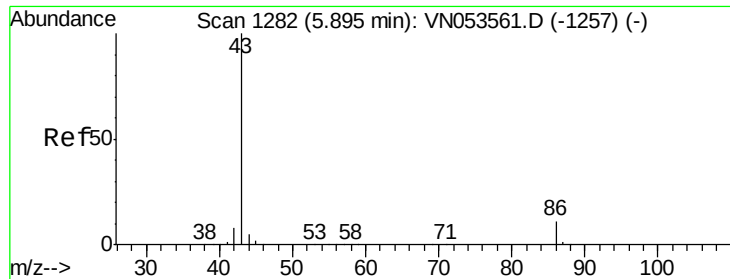
MMDadoda
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#22
Diisopropyl ether
Concen: 16.178 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.2	44.2	66.4
87	28.0	22.7	34.1
59	11.8	9.4	14.2





#23

Vinyl Acetate

Concen: 78.779 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

ClientSampled :

VN0213WBS01

Tot Ion: 43 Resp: 948201

Ion Ratio Lower Upper

43 100

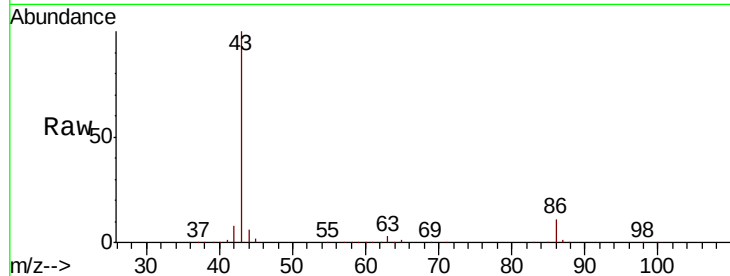
86 11.1 8.4 12.6

Manual Integrations

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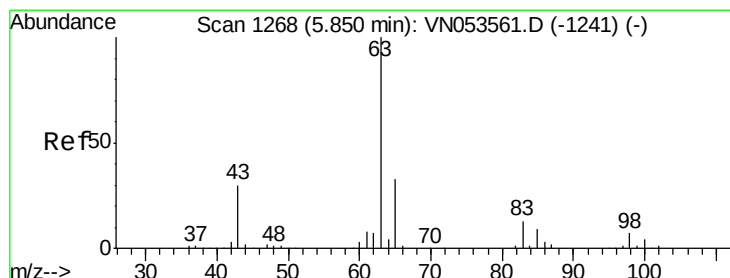
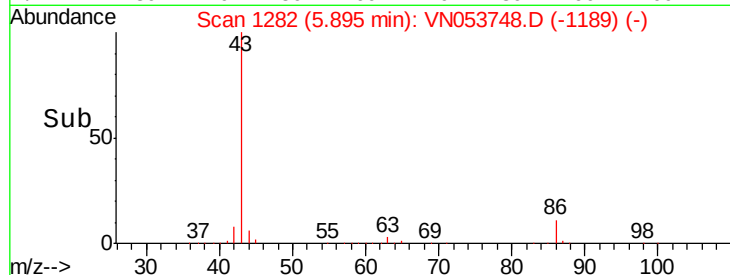
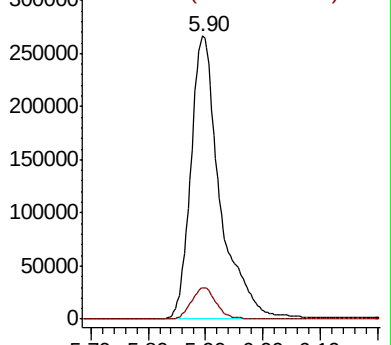
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 16.610 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

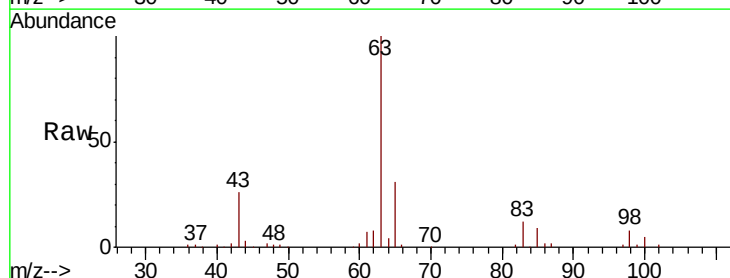
Tgt Ion: 63 Resp: 192758

Ion Ratio Lower Upper

63 100

98 7.6 3.3 9.9

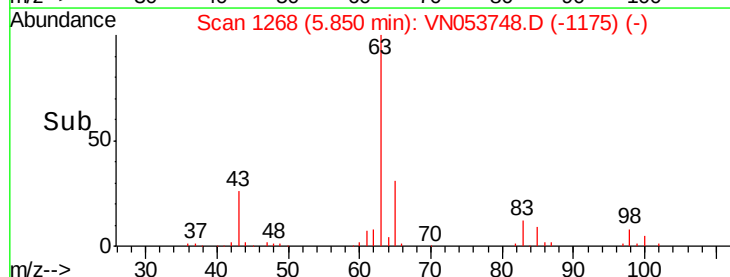
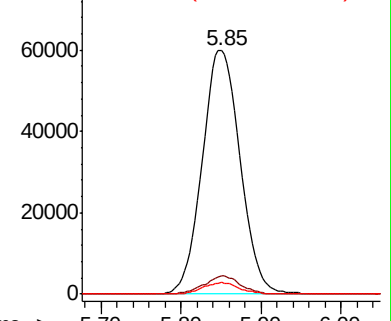
100 4.7 2.1 6.5

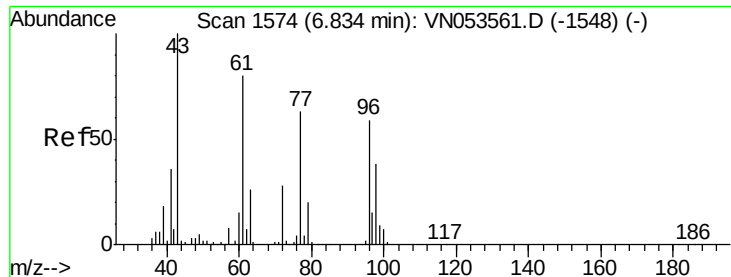


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 82.795 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0213WBS01

Tot Ion: 43 Resp: 193510

Ion Ratio Lower Upper

43 100

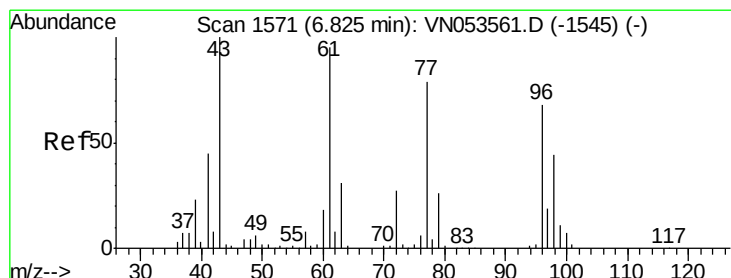
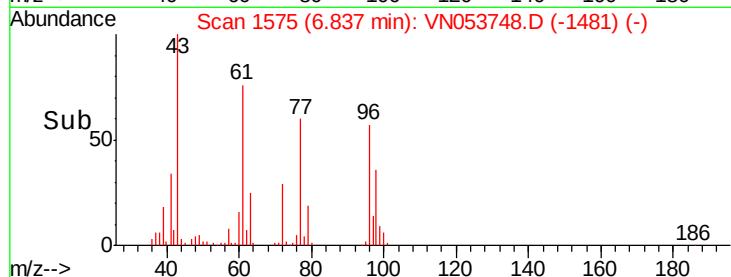
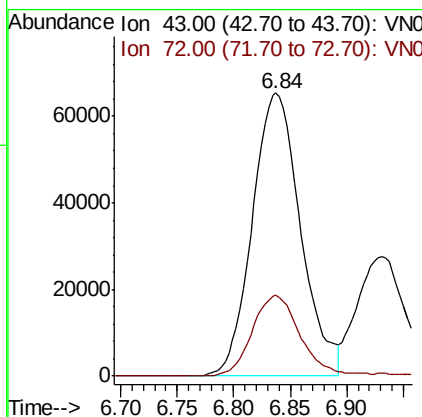
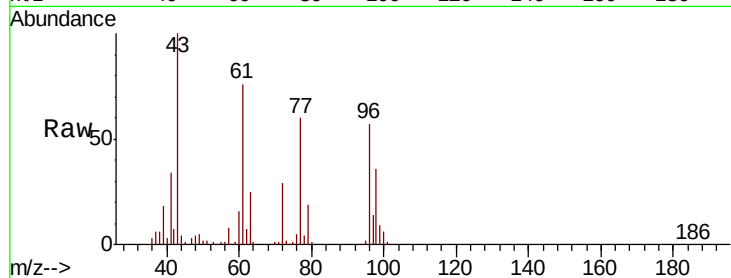
72 28.5 22.0 33.0

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 16.520 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN053748.D

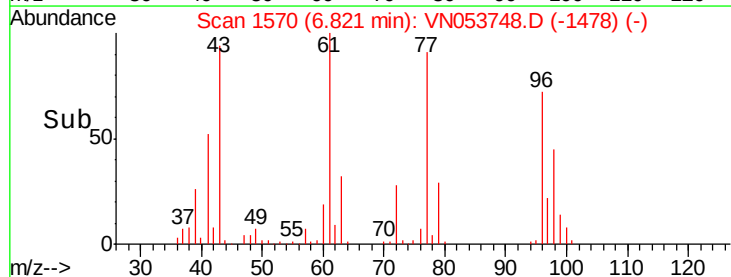
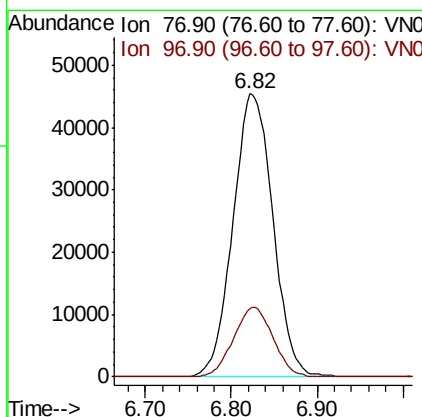
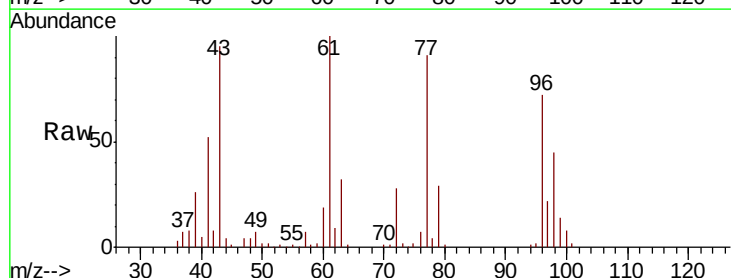
Acq: 13 Feb 2019 12:07

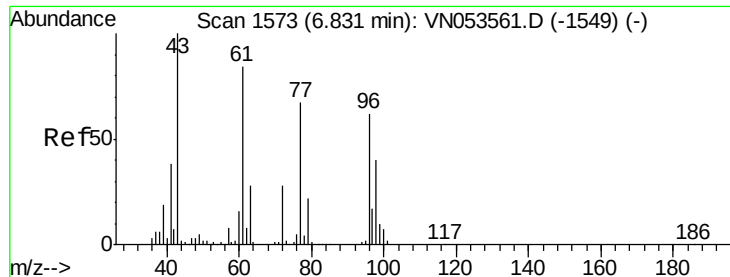
Tgt Ion: 77 Resp: 146346

Ion Ratio Lower Upper

77 100

97 24.4 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 16.495 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

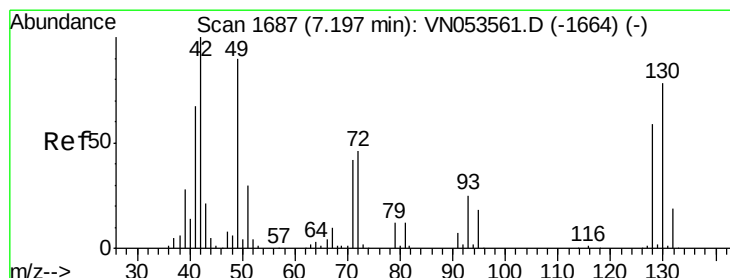
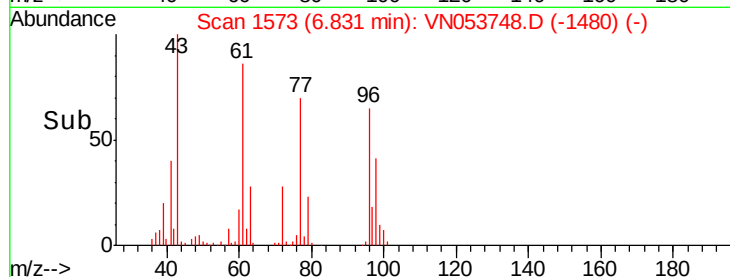
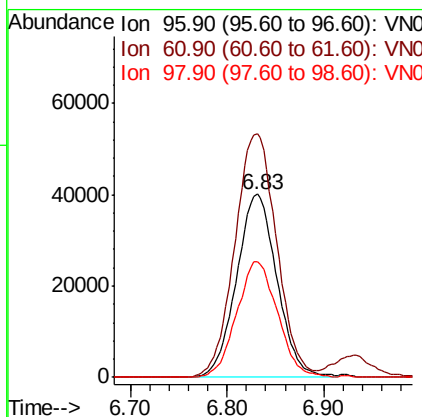
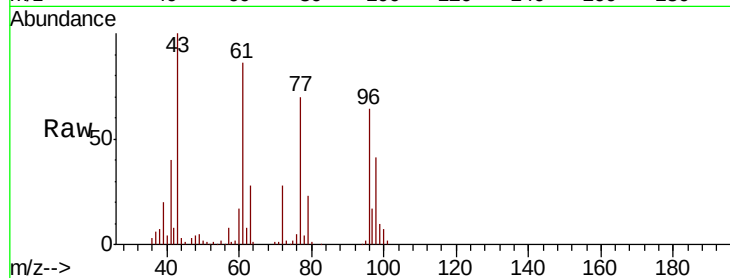
ClientSampleId :

VN0213WBS01

Tot Ion:	96	Resp:	11697
Ion	Ratio	Lower	Upper
96	100		
61	137.3	0.0	283.8
98	63.9	0.0	129.2

Manual Integrations
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2/14/2019 10:39:08 AM



#28

Bromochloromethane

Concen: 19.985 ug/l

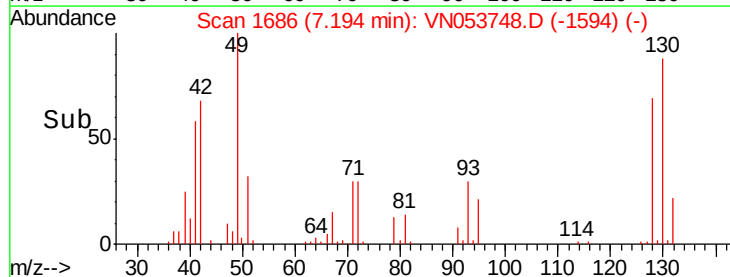
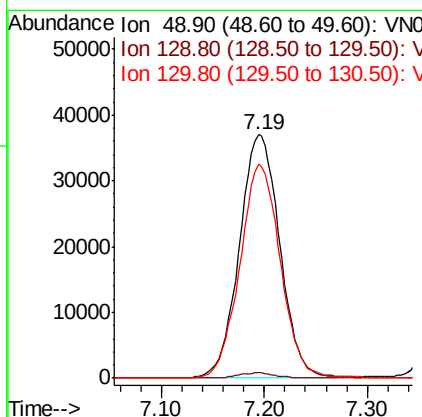
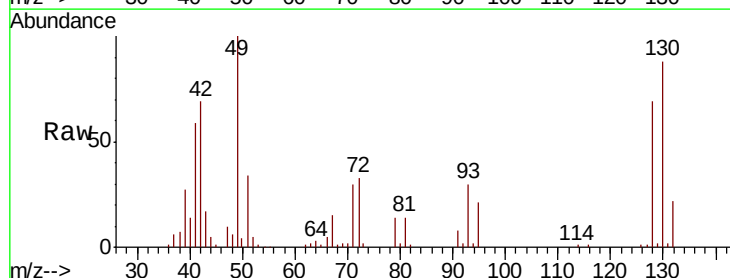
RT: 7.19 min Scan# 1686

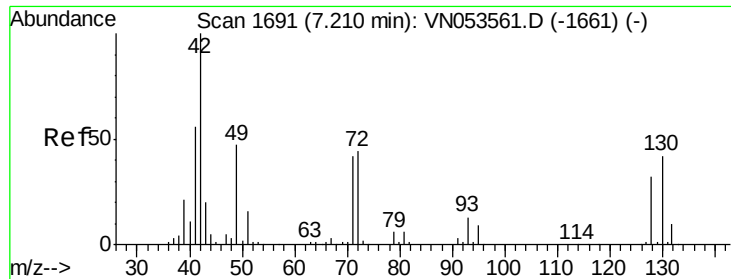
Delta R.T. -0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Tgt Ion:	49	Resp:	100645
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	87.7	66.3	99.5





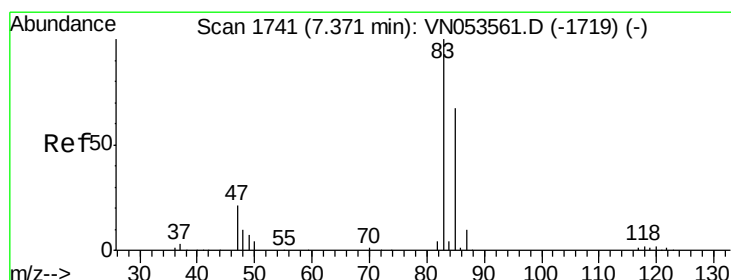
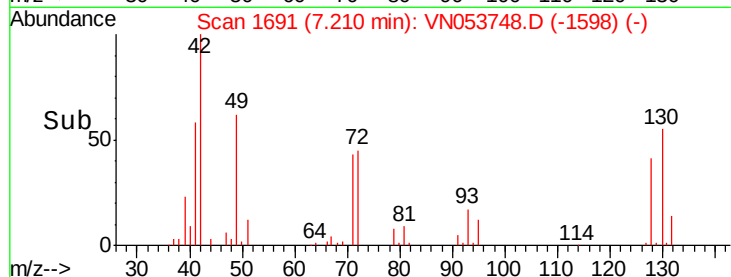
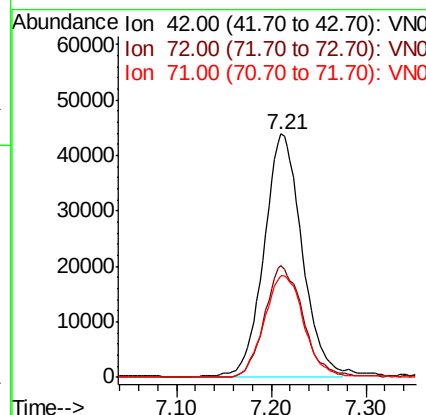
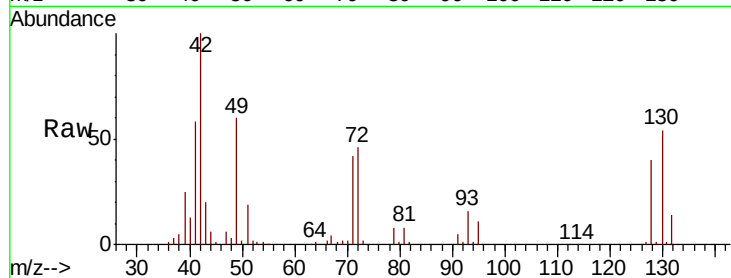
#29
Tetrahydrofuran
Concen: 81.499 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0213WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.4	35.2	52.8
71	43.4	33.0	49.4

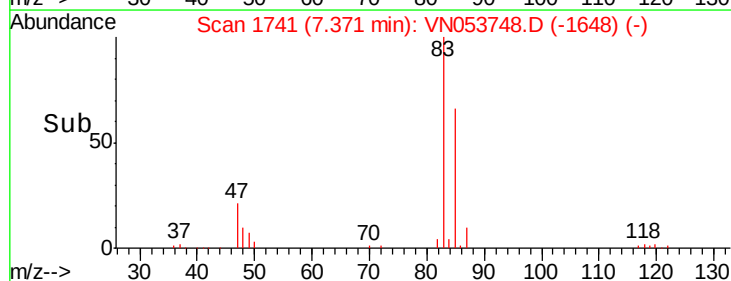
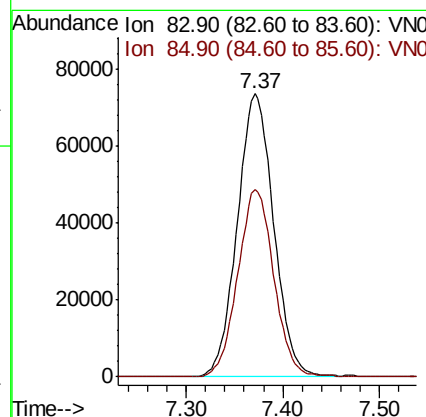
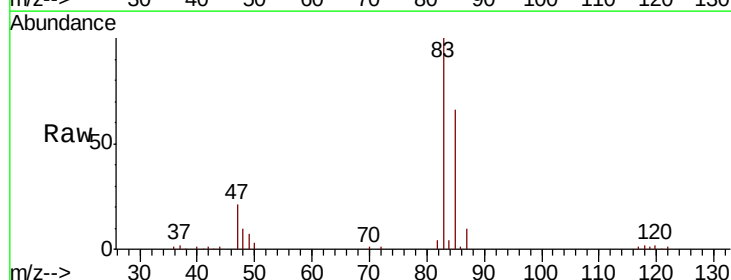
Manual Integrations
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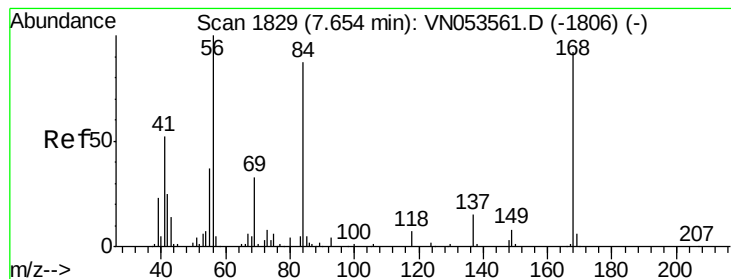
MMDadoda
2/14/2019 10:39:08 AM



#30
Chloroform
Concen: 16.714 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.2	78.2





#31

Cyclohexane

Concen: 15.341 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

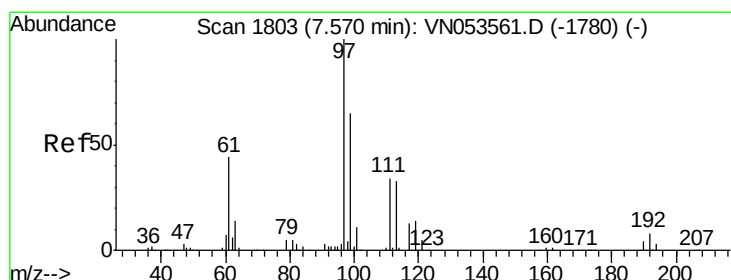
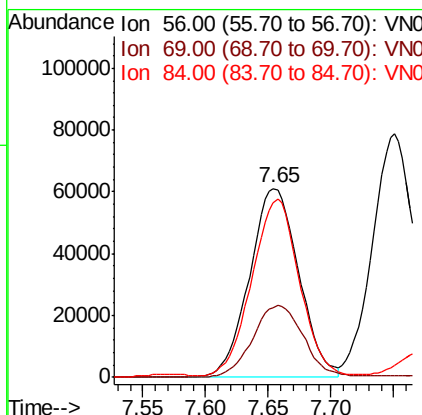
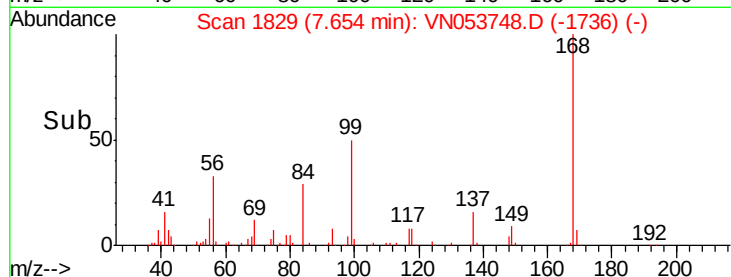
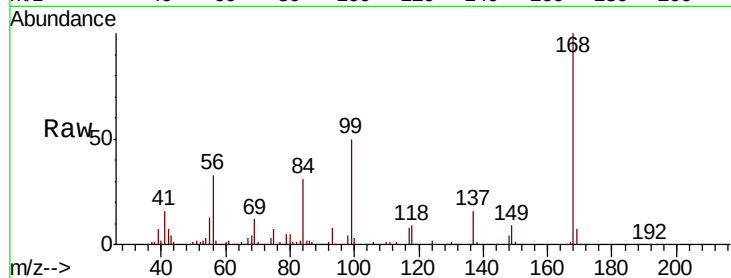
ClientSampled :

VN0213WBS01

Tot Ion:	56	Resp:	167026
Ion Ratio	Lower	Upper	
56	100		
69	37.1	26.4	39.6
84	91.6	67.9	101.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 16.670 ug/l

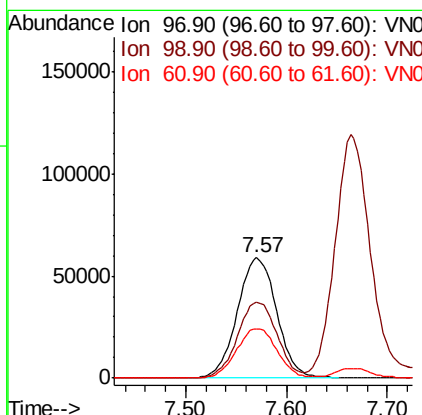
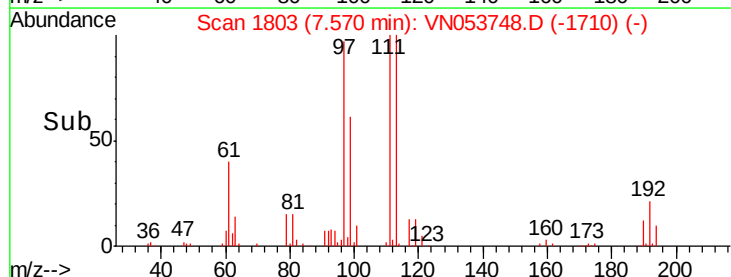
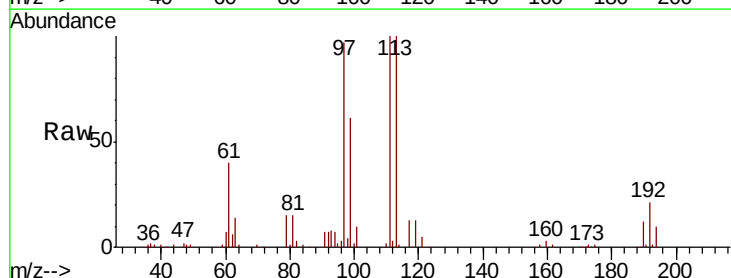
RT: 7.57 min Scan# 1803

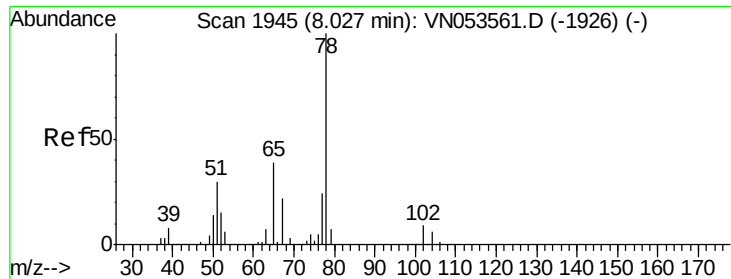
Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Tgt Ion:	97	Resp:	159592
Ion Ratio	Lower	Upper	
97	100		
99	63.8	52.0	78.0
61	42.5	34.4	51.6





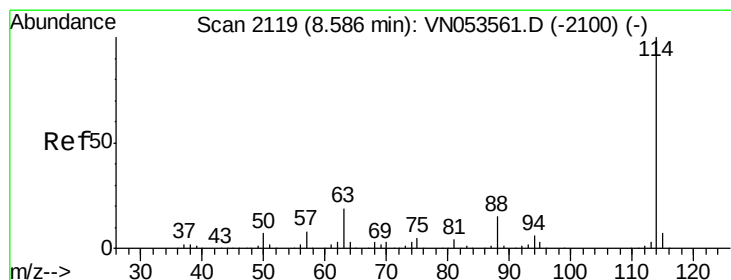
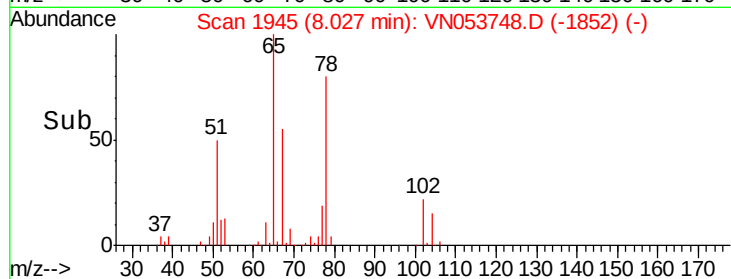
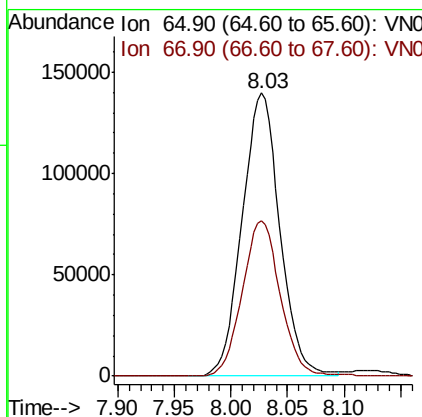
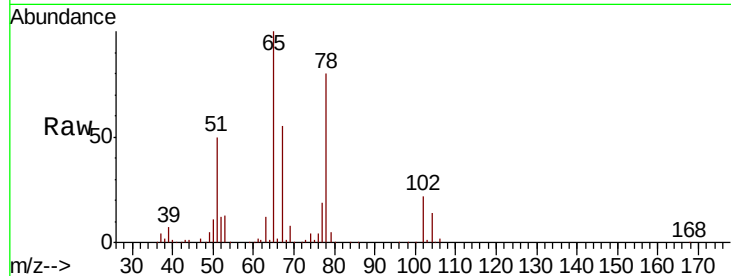
#33
 1,2-Dichloroethane-d4
 Concen: 50.768 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0213WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.1	0.0	111.2	

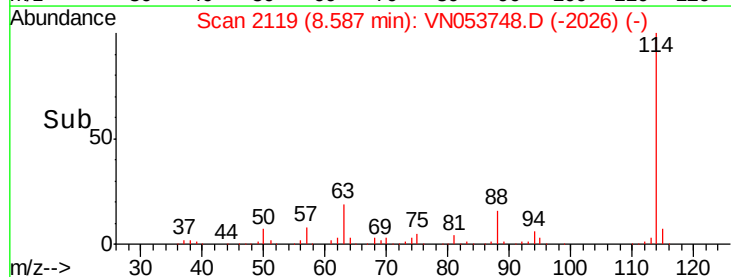
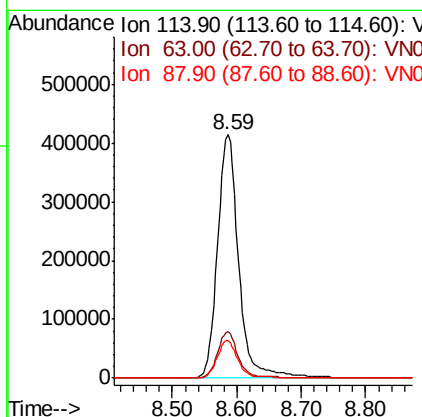
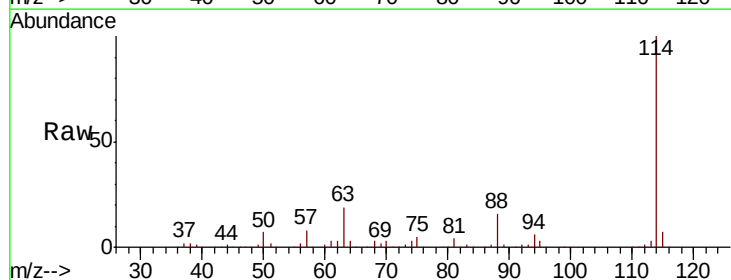
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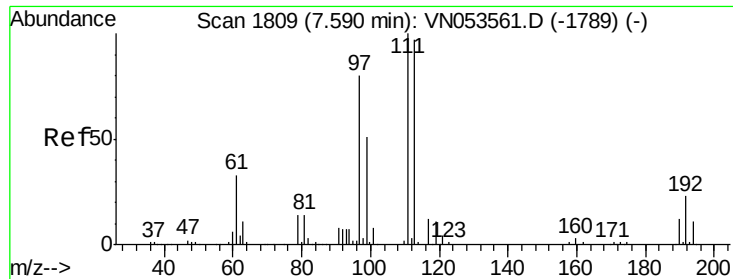
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.9	0.0	38.6	
88	15.6	0.0	30.4	





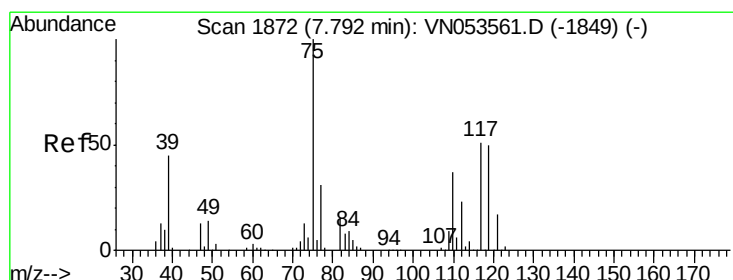
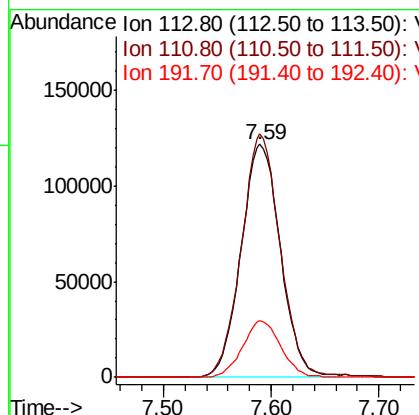
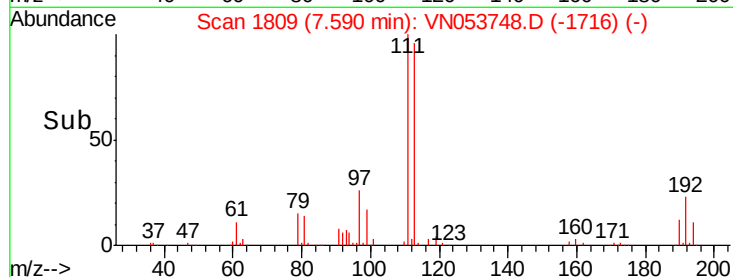
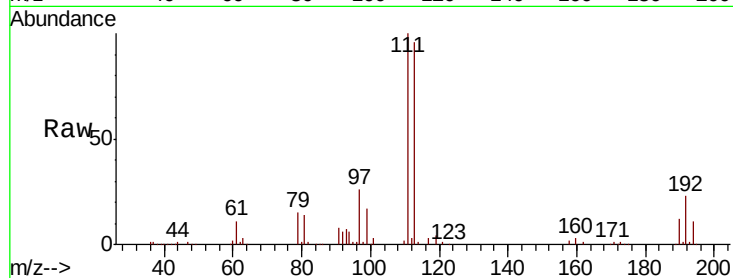
#35
 Dibromofluoromethane
 Concen: 51.647 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0213WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	309818		
111	102.9	81.1	121.7	
192	23.5	18.2	27.2	

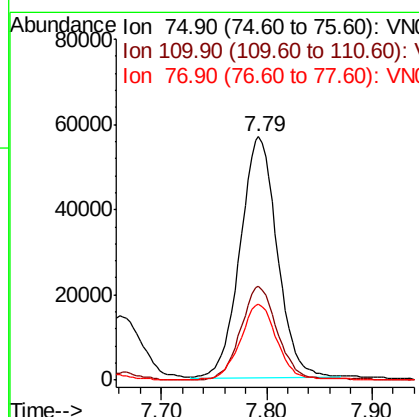
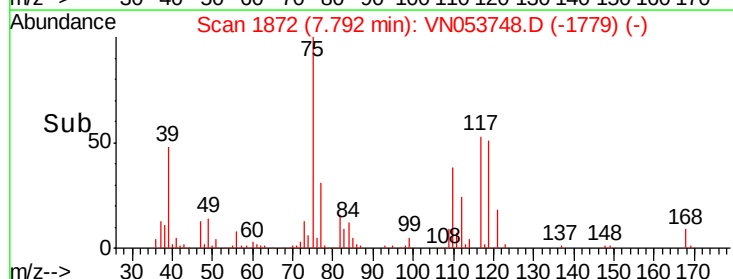
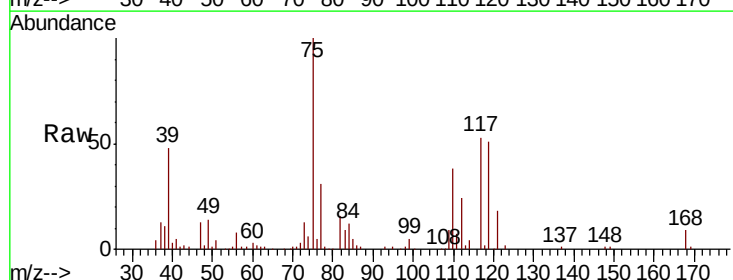
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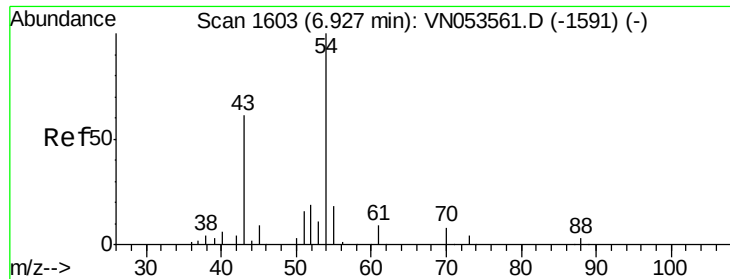
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 2/14/2019 10:39:08 AM



#36
 1,1-Dichloropropene
 Concen: 16.143 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	138153		
110	38.9	18.1	54.3	
77	31.2	25.1	37.7	





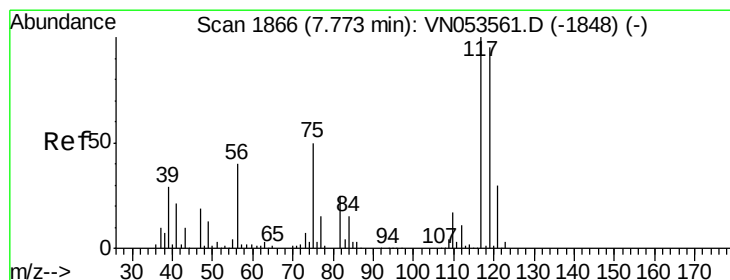
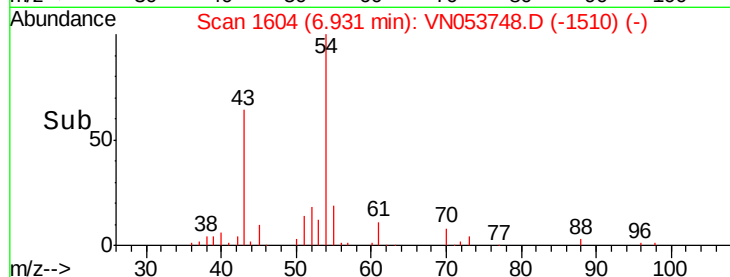
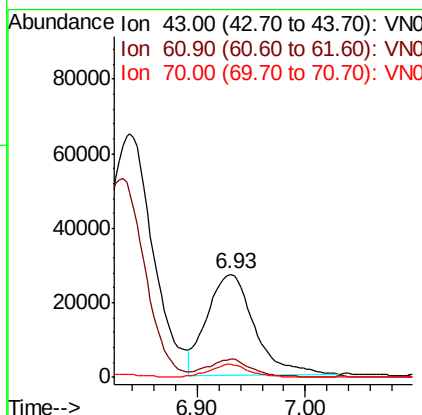
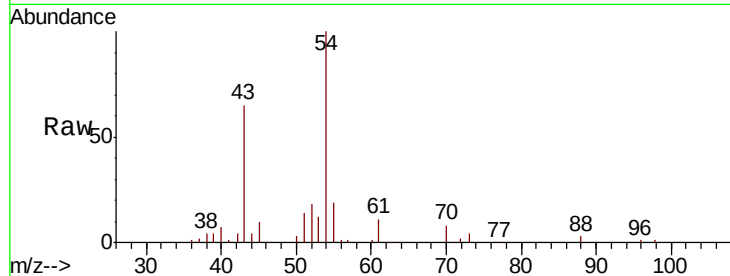
#37
Ethyl Acetate
Concen: 17.303 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampled :
VN0213WBS01

Tot Ion	43	61	70
Resp	82700		
Ratio	100	16.0	10.9
Lower		11.8	8.6
Upper		17.6	12.8

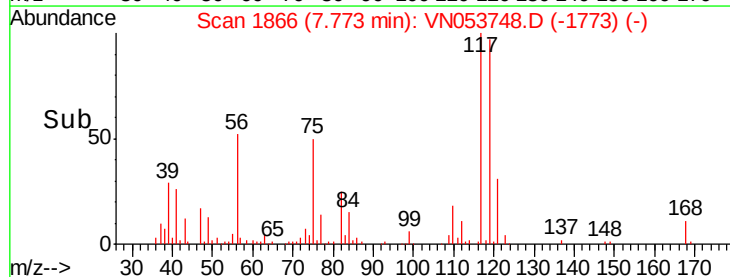
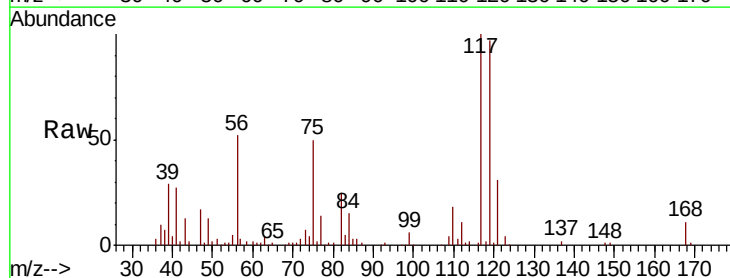
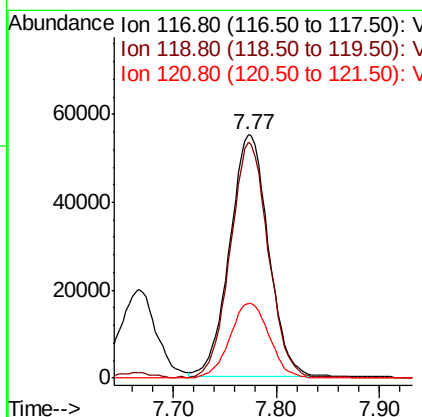
Manual Integrations
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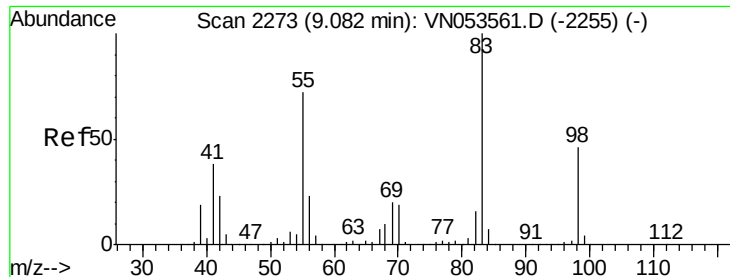
MMDadoda
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#38
Carbon Tetrachloride
Concen: 16.681 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion	117	119	121
Resp	143813		
Ratio	100	97.4	30.9
Lower		77.2	24.6
Upper		115.8	37.0





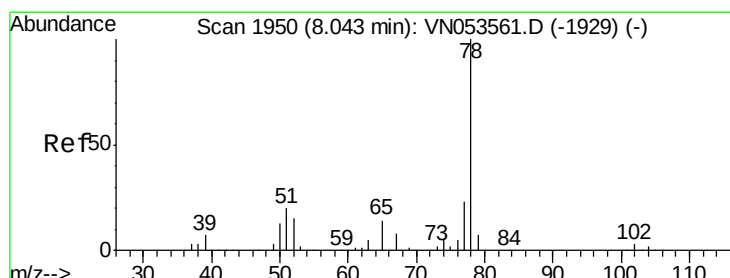
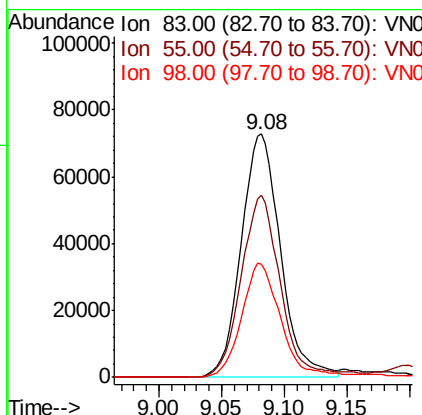
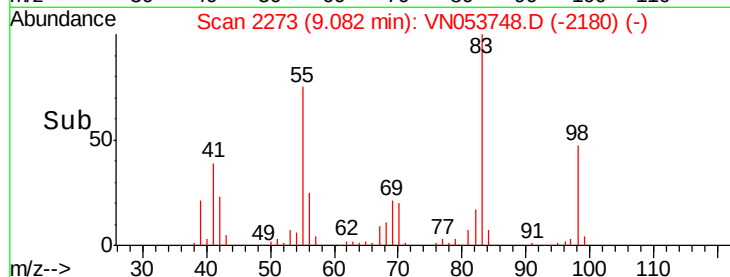
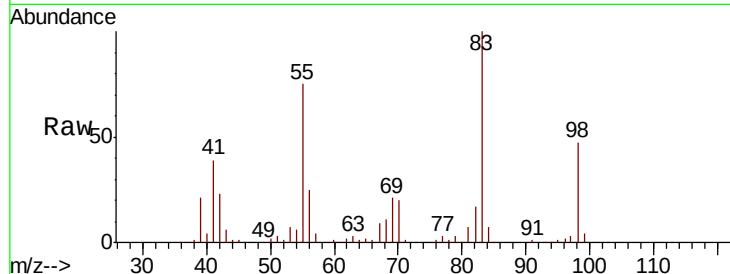
#39
Methylvlcyclohexane
Concen: 15.655 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampled :
VN0213WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.0	60.1	90.1
98	46.7	36.6	55.0

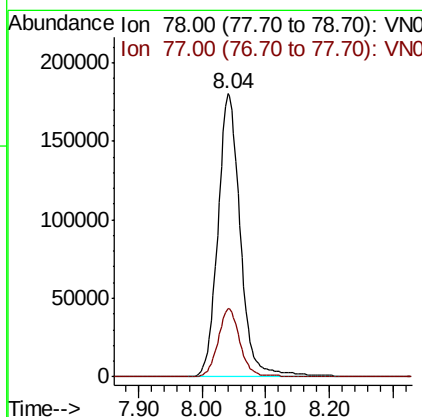
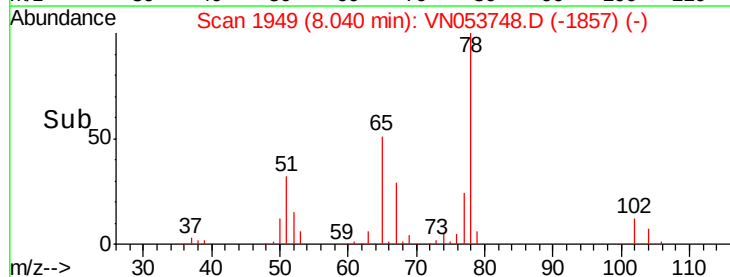
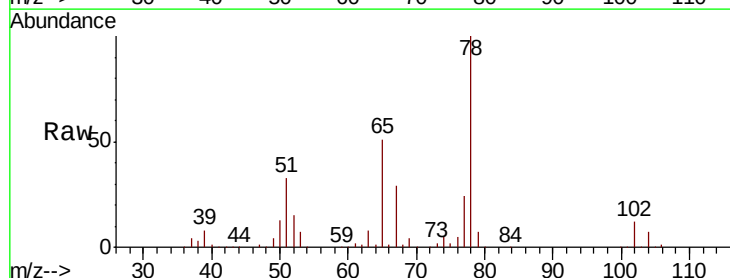
Manual Integrations
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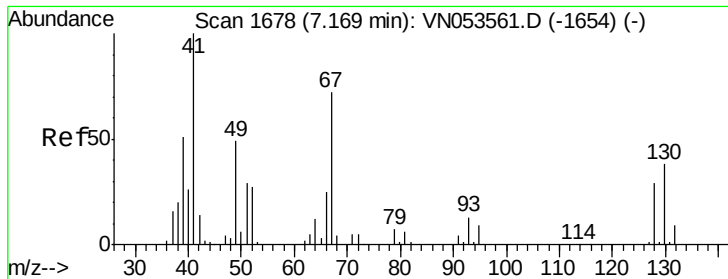
MMDadoda
2/14/2019 10:39:08 AM



#40
Benzene
Concen: 16.699 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.8	28.2





#41

Methacrylonitrile

Concen: 13.031 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0213WBS01

Tot Ion: 41 Resp: 34810
Ion Ratio Lower Upper

41 100

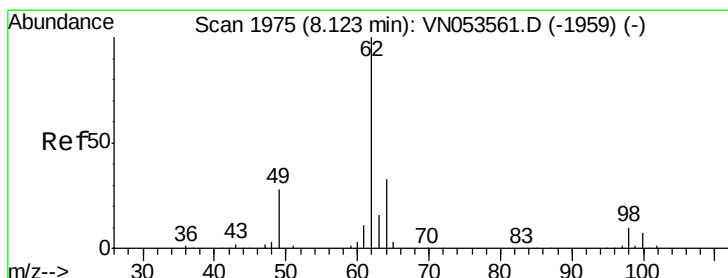
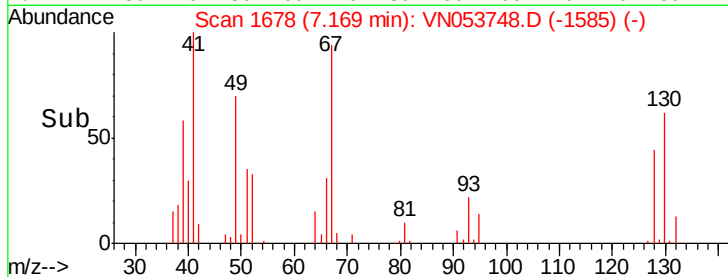
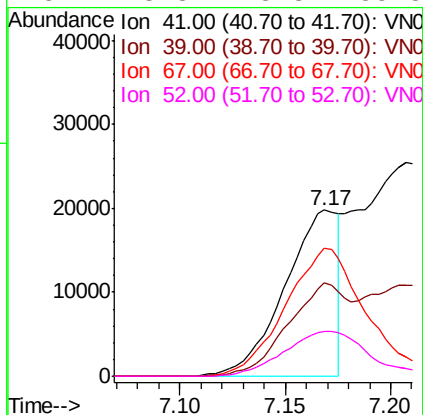
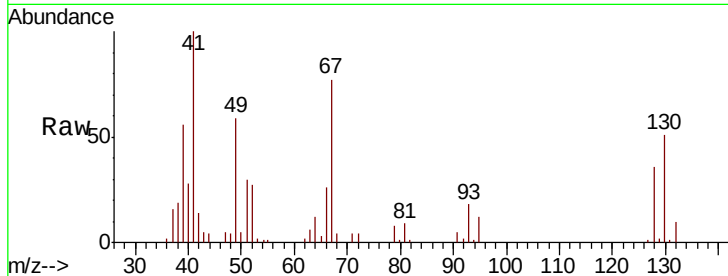
39 62.8 46.8 70.2

67 118.1 63.0 94.6#

52 43.8 23.8 35.8#

Manual Integrations
APPROVED

MMDadoda
2/14/2019 10:39:08 AM



#42

1,2-Dichloroethane

Concen: 16.717 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. 0.00 min

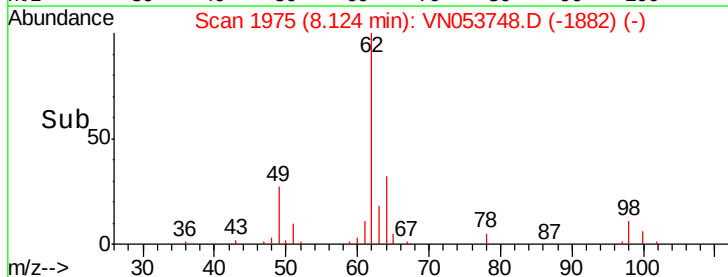
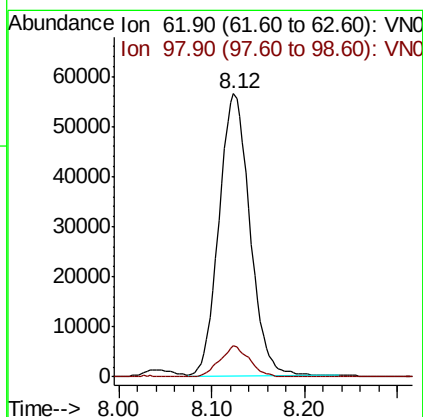
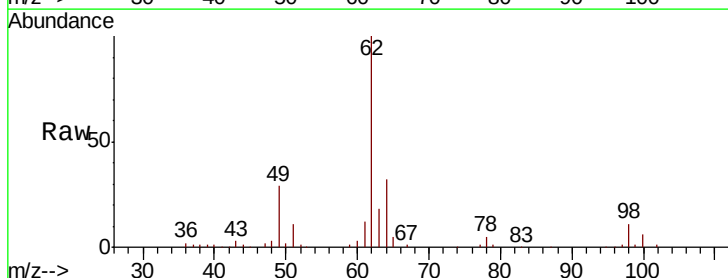
Lab File: VN053748.D

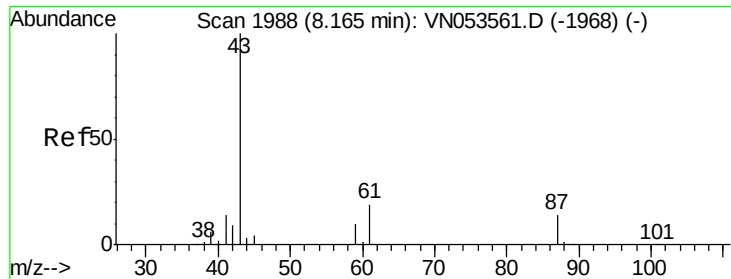
Acq: 13 Feb 2019 12:07

Tgt Ion: 62 Resp: 130989
Ion Ratio Lower Upper

62 100

98 10.5 0.0 19.6





#43

Isopropyl Acetate

Concen: 15.531 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

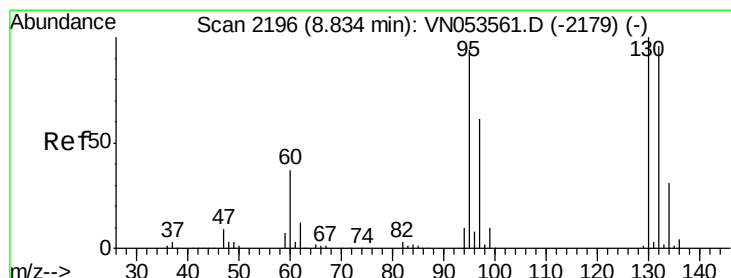
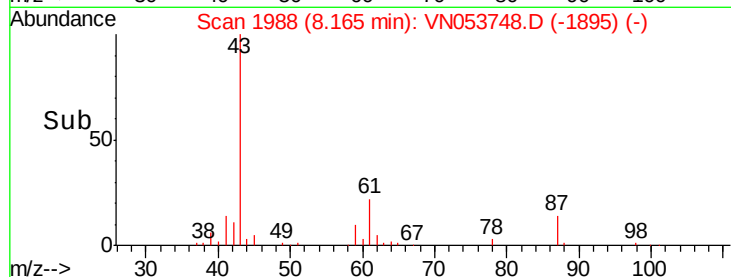
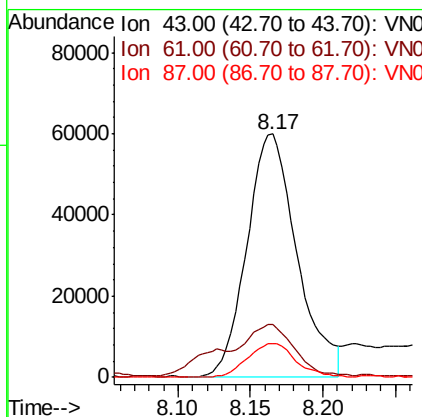
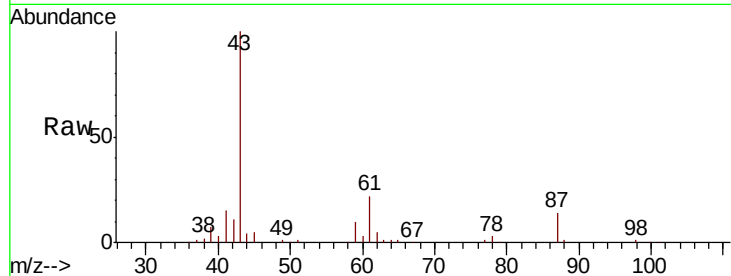
ClientSampleId :

VN0213WBS01

Tot Ion:	43	Resp:	143361
Ion	Ratio	Lower	Upper
43	100		
61	19.5	23.9	35.9#
87	13.4	11.0	16.6

Manual Integrations
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2/14/2019 10:39:08 AM



#44

Trichloroethene

Concen: 16.294 ug/l

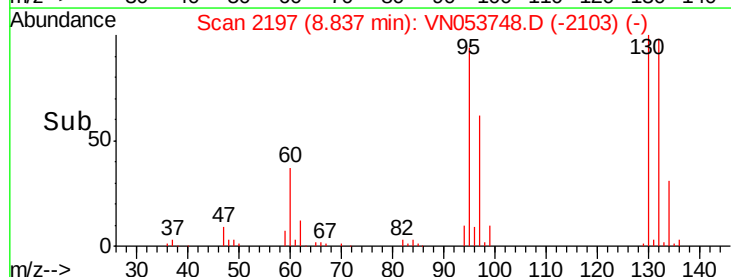
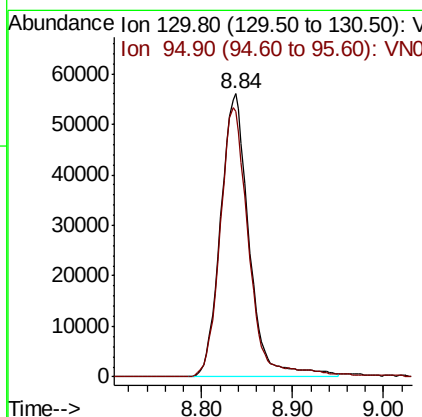
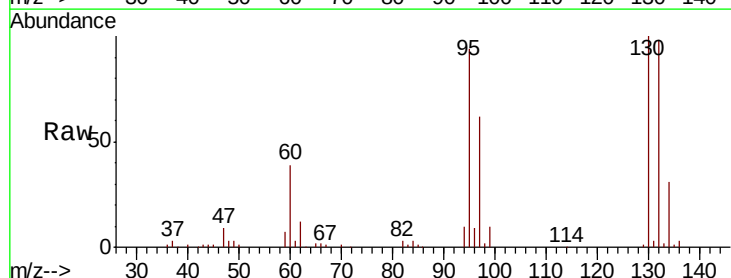
RT: 8.84 min Scan# 2197

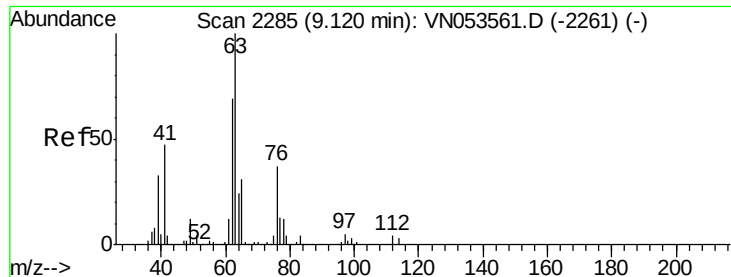
Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Tgt Ion:	130	Resp:	122421
Ion	Ratio	Lower	Upper
130	100		
95	93.7	0.0	191.4





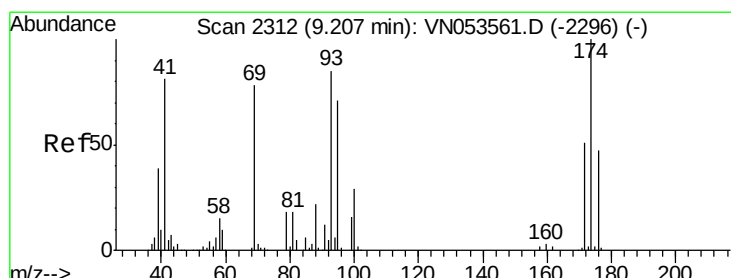
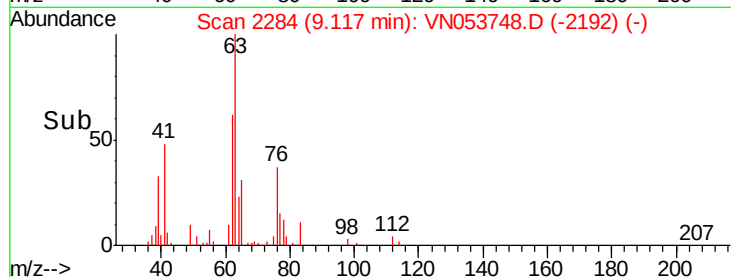
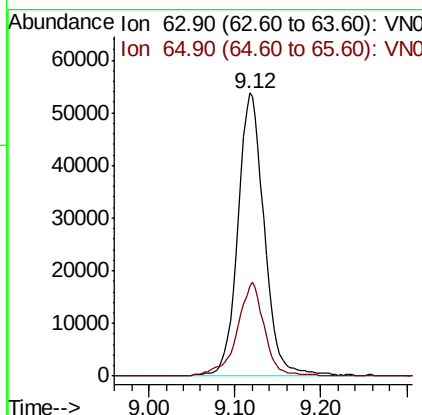
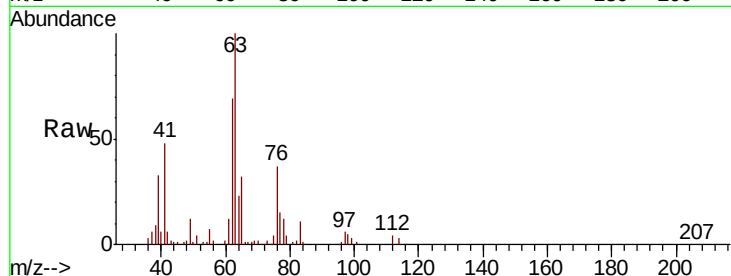
#45
 1,2-Dichloropropane
 Concen: 17.005 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0213WBS01

Tot Ion: 63 Resp: 114783
 Ion Ratio Lower Upper
 63 100
 65 31.7 25.0 37.4

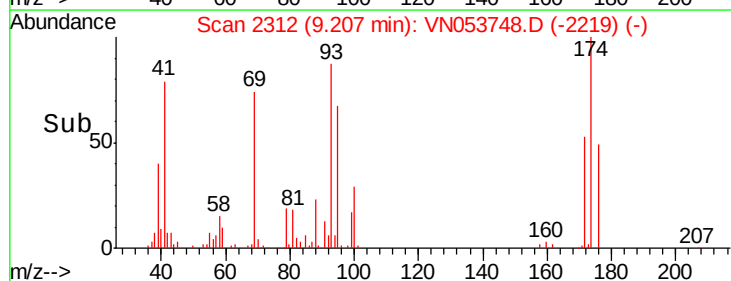
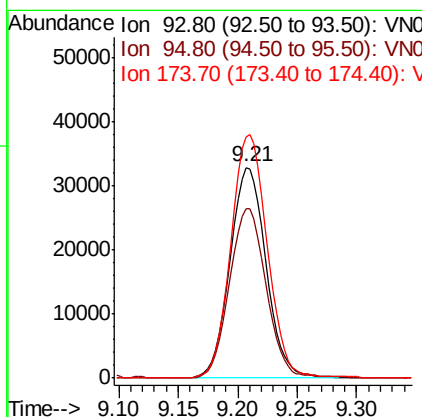
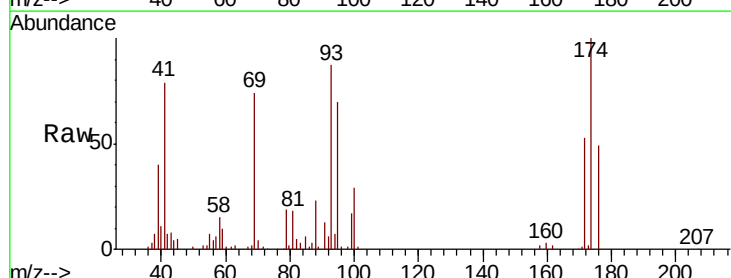
Manual Integrations
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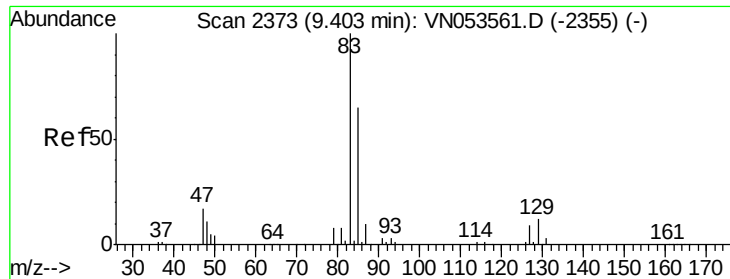
MMDadoda
 2/14/2019 10:39:08 AM



#46
 Dibromomethane
 Concen: 17.003 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Tgt Ion: 93 Resp: 69185
 Ion Ratio Lower Upper
 93 100
 95 81.6 67.3 100.9
 174 116.4 91.0 136.4





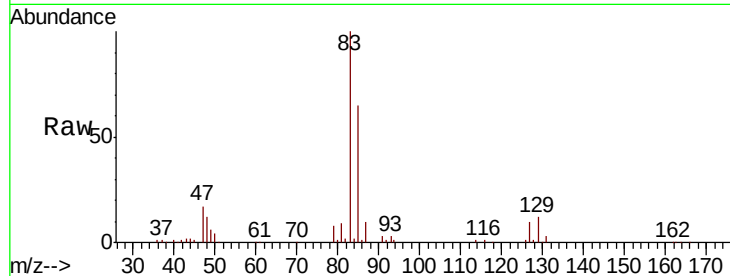
#47
Bromodichloromethane
Concen: 17.090 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0213WBS01

Tot Ion	83	Resp	144585
Ion Ratio	100	Lower	Upper
83	100		
85	65.3	51.0	76.6
127	9.5	7.0	10.6

Manual Integrations
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MMDadoda
2/14/2019 10:39:08 AM

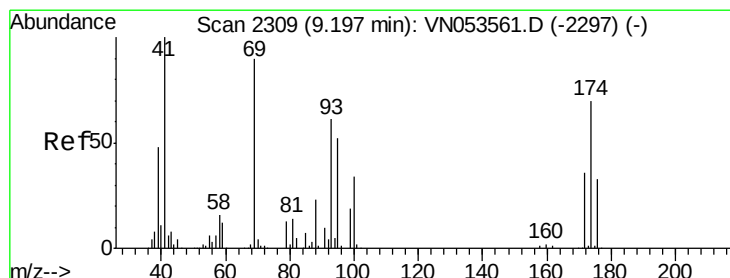
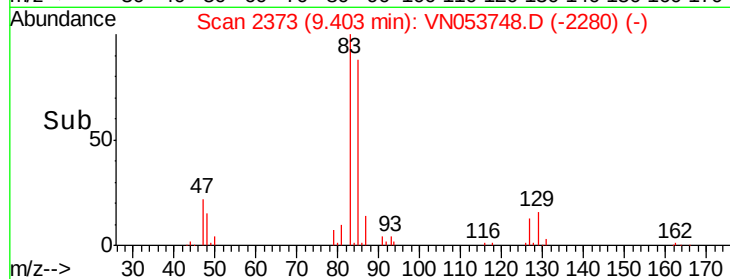
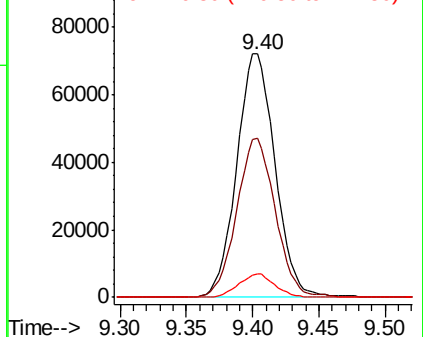


Abundance

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): VN0



#48
Methyl methacrylate
Concen: 16.427 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

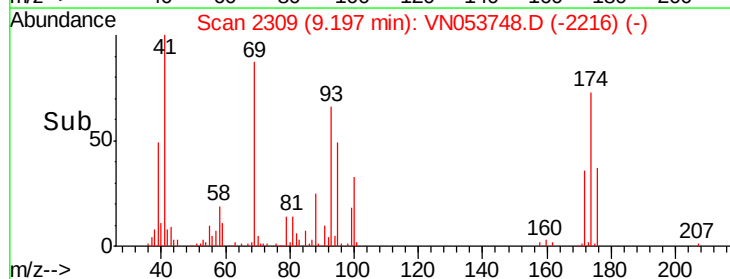
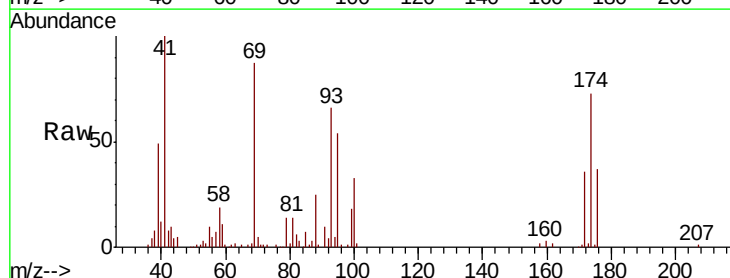
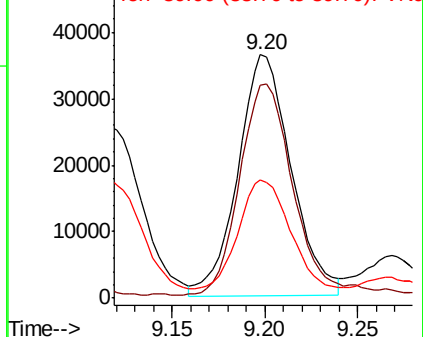
Tgt Ion	41	Resp	72380
Ion Ratio	100	Lower	Upper
41	100		
69	92.0	73.8	110.6
39	51.7	40.0	60.0

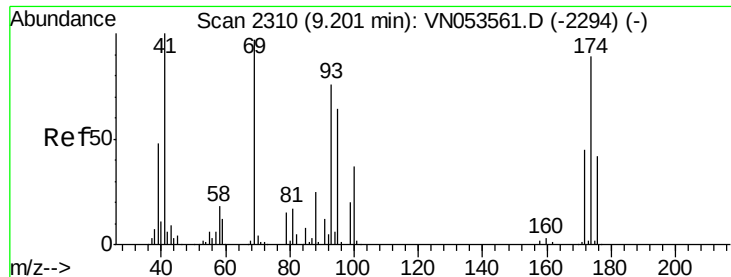
Abundance

Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





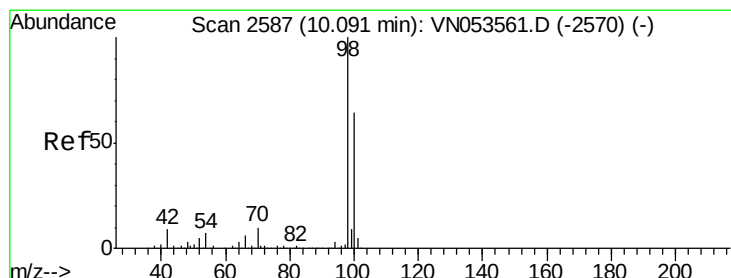
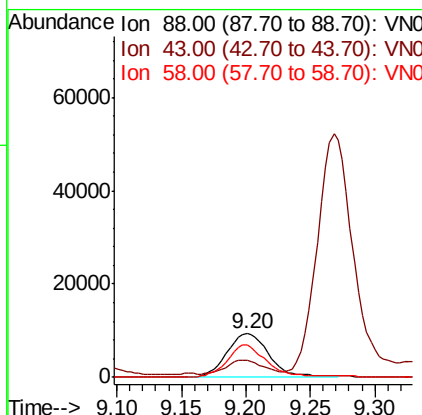
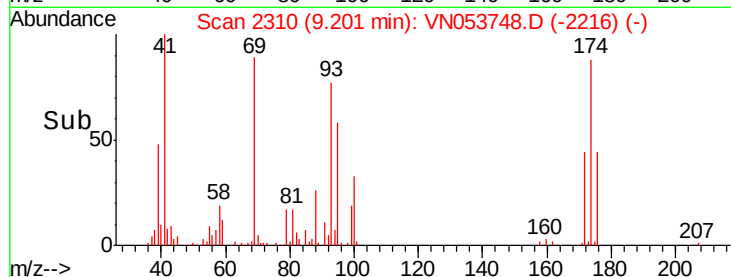
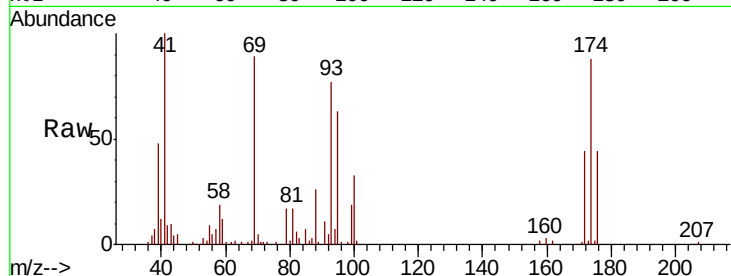
#49
1,4-Dioxane
Concen: 359.106 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0213WBS01

Tot Ion	88	Resp	21262
Ion	Ratio	Lower	Upper
88	100		
43	27.5	27.8	41.6#
58	68.5	56.5	84.7

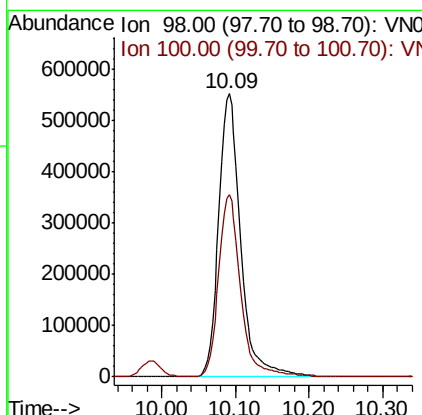
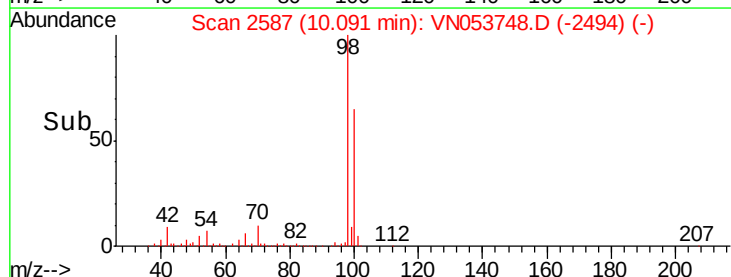
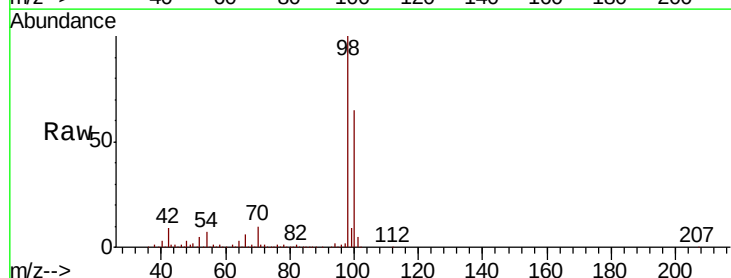
Manual Integrations
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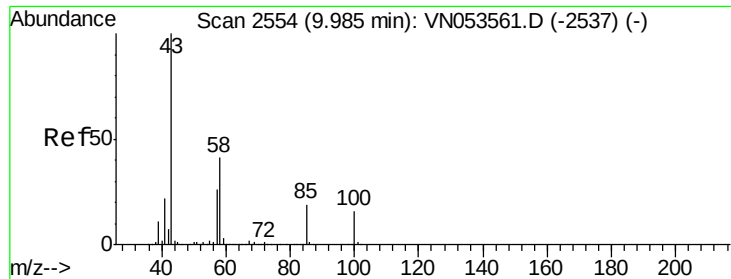
MMDadoda
2/14/2019 10:39:08 AM



#50
Toluene-d8
Concen: 50.717 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion	98	Resp	1142356
Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.4	77.0





#51

4-Methyl-2-Pentanone

Concen: 83.045 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0213WBS01

Tot Ion: 43 Resp: 376682

Ion Ratio Lower Upper

43 100

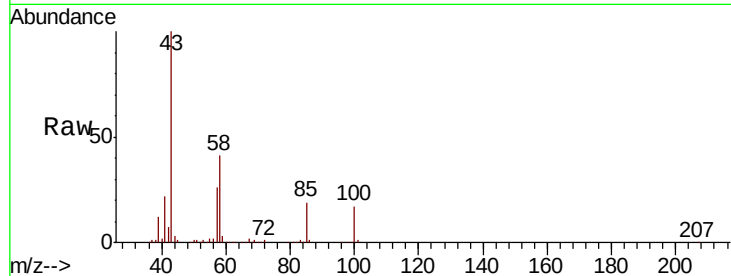
58 40.7 32.8 49.2

Manual Integrations

APPROVED

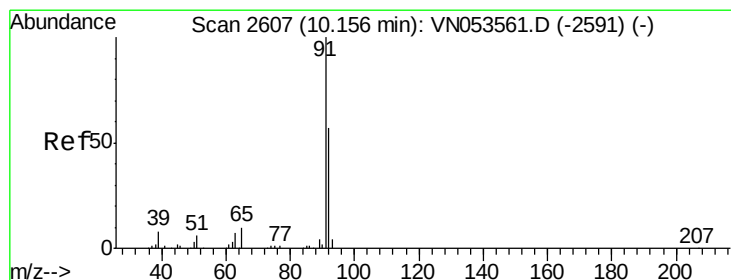
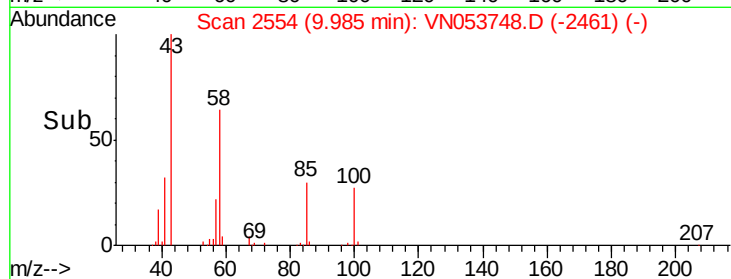
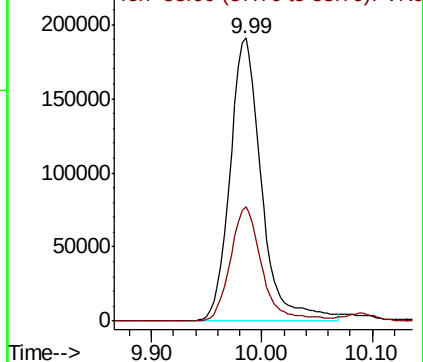
MMDadoda

2/14/2019 10:39:08 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 16.962 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053748.D

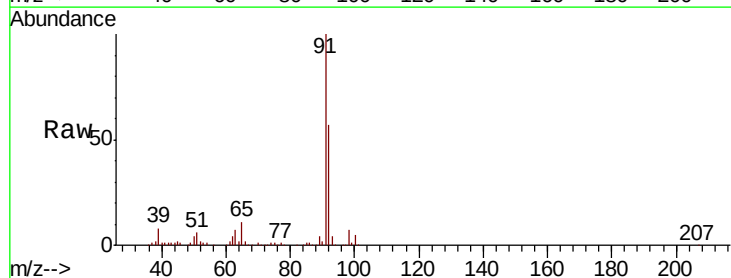
Acq: 13 Feb 2019 12:07

Tgt Ion: 92 Resp: 265661

Ion Ratio Lower Upper

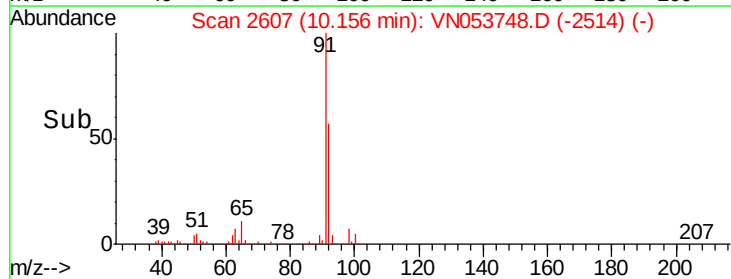
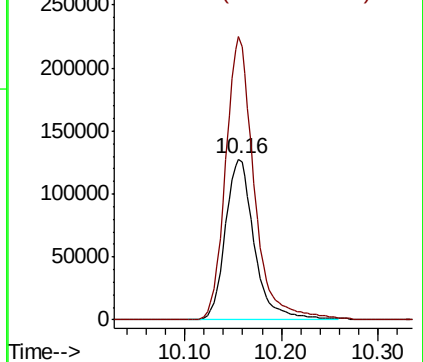
92 100

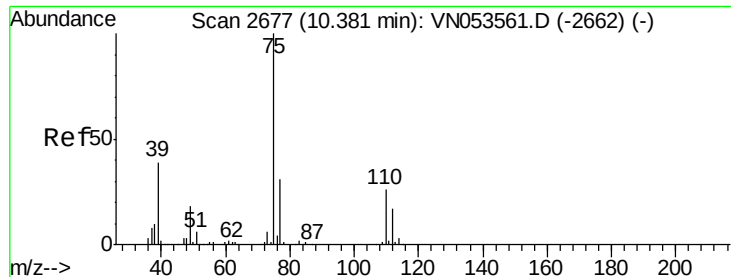
91 174.0 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





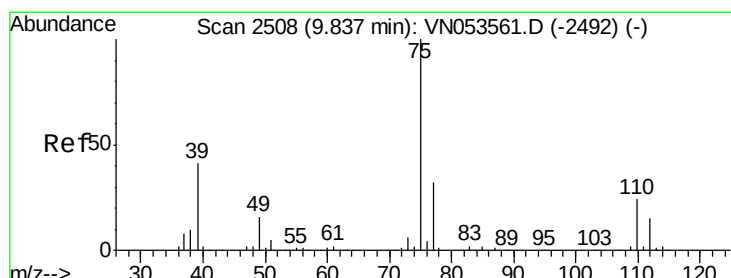
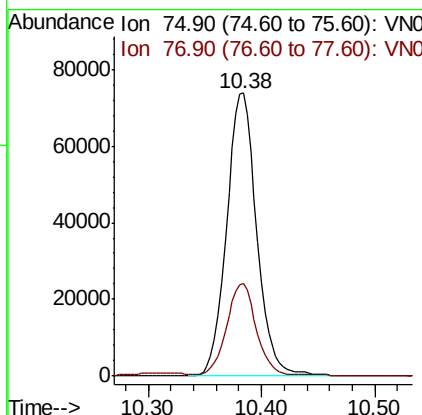
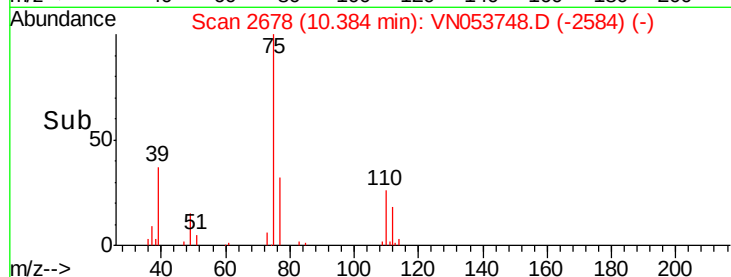
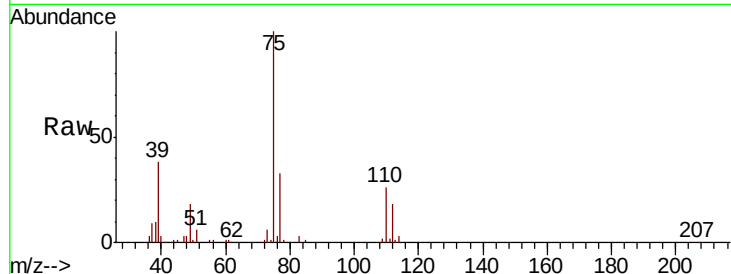
#53
t-1,3-Dichloropropene
Concen: 16.117 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampled :
VN0213WBS01

Tot Ion: 75 Resp: 136534
Ion Ratio Lower Upper
75 100
77 32.3 25.5 38.3

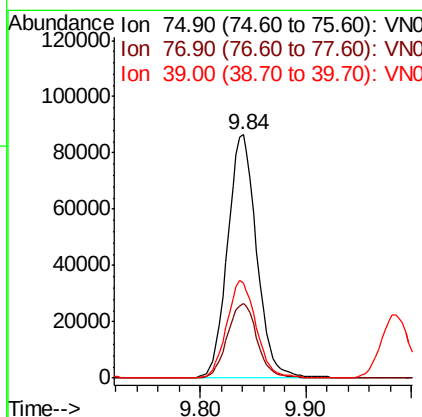
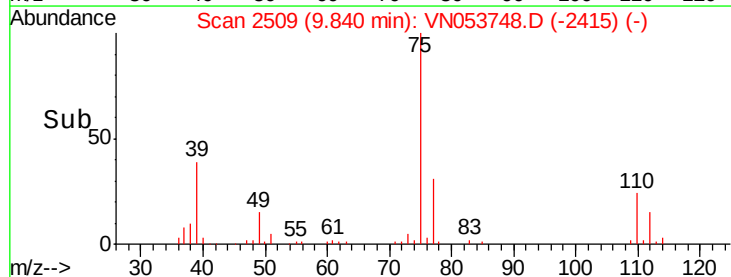
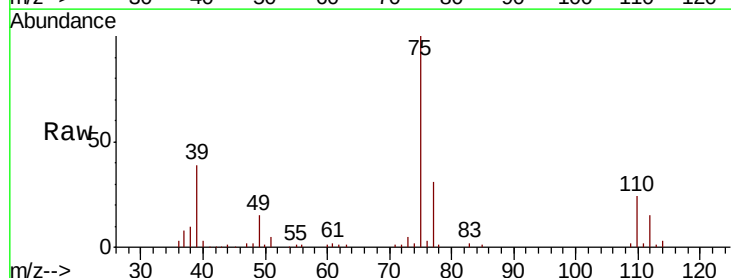
Manual Integrations
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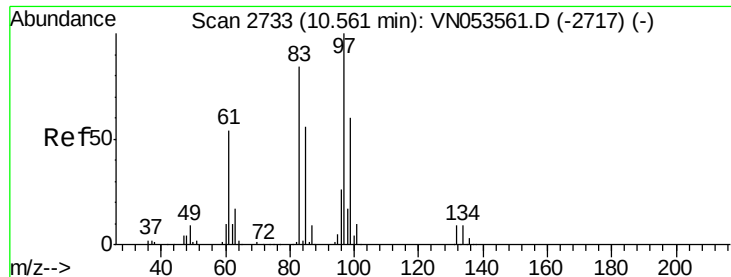
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 16.464 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion: 75 Resp: 165277
Ion Ratio Lower Upper
75 100
77 30.6 25.8 38.6
39 39.3 33.4 50.0





#55

1,1,2-Trichloroethane

Concen: 17.702 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

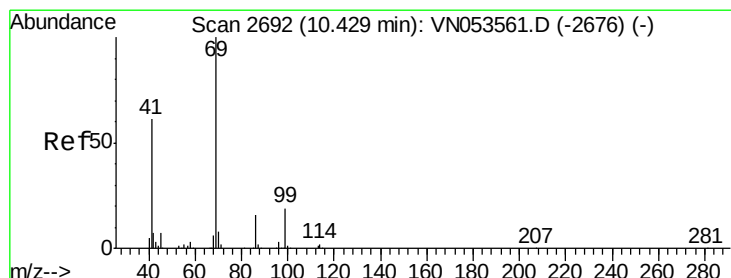
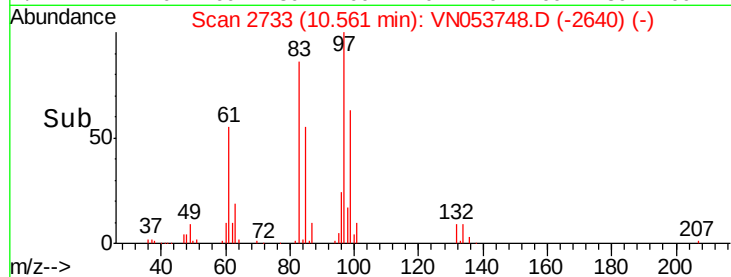
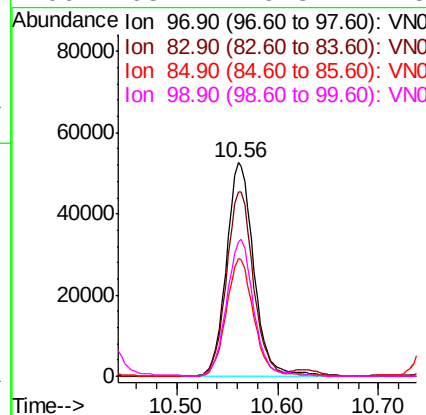
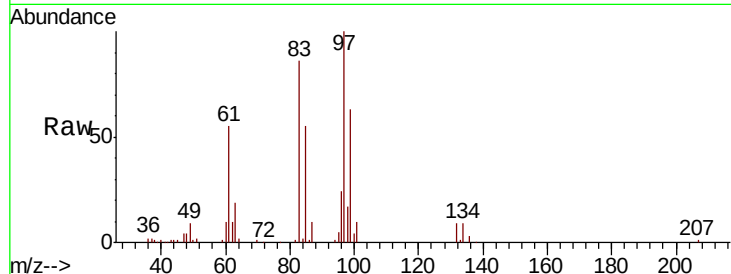
ClientSampleId :

VN0213WBS01

Tot Ion:	97	Resp:	99907
Ion	Ratio	Lower	Upper
97	100		
83	86.3	70.1	105.1
85	55.0	45.4	68.0
99	63.1	49.8	74.8

Manual Integrations
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MMDadoda
2/14/2019 10:39:08 AM



#56

Ethyl methacrylate

Concen: 16.167 ug/l

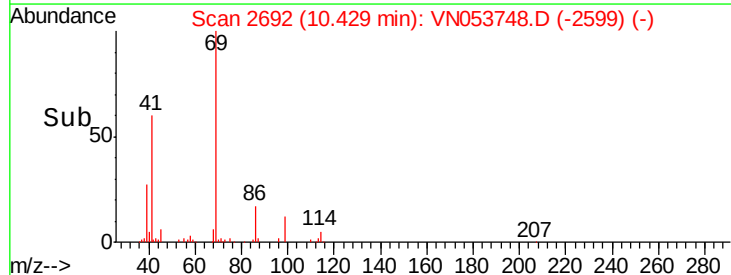
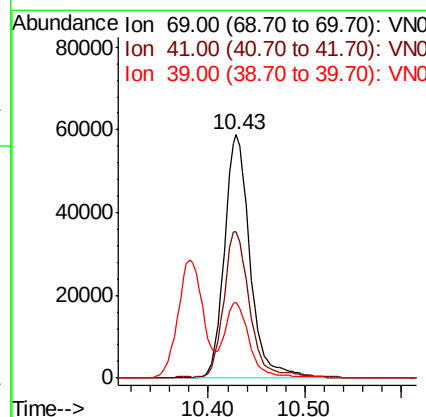
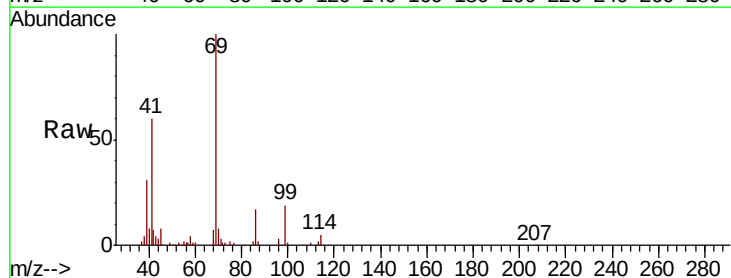
RT: 10.43 min Scan# 2692

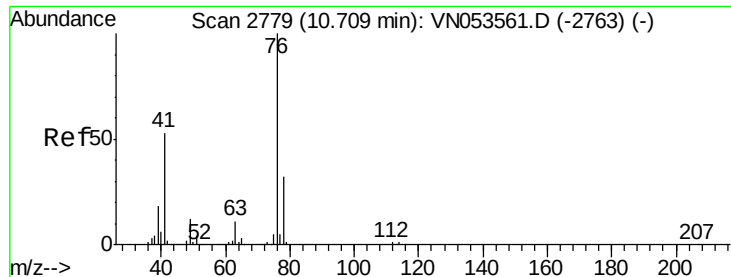
Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Tgt Ion:	69	Resp:	107943
Ion	Ratio	Lower	Upper
69	100		
41	58.6	49.4	74.0
39	30.8	23.3	34.9





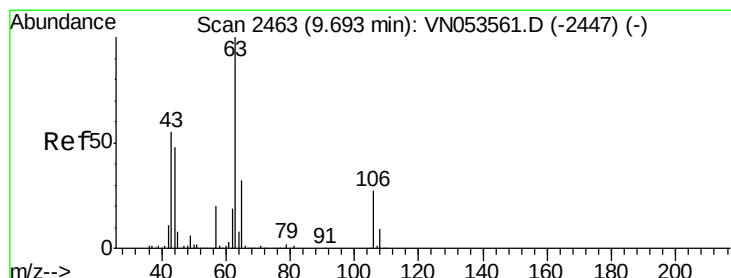
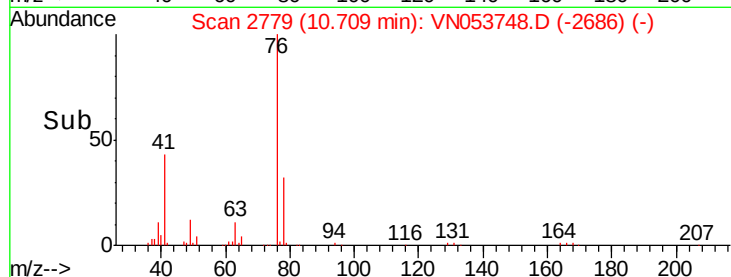
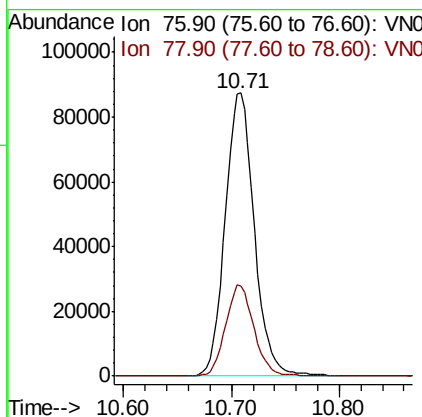
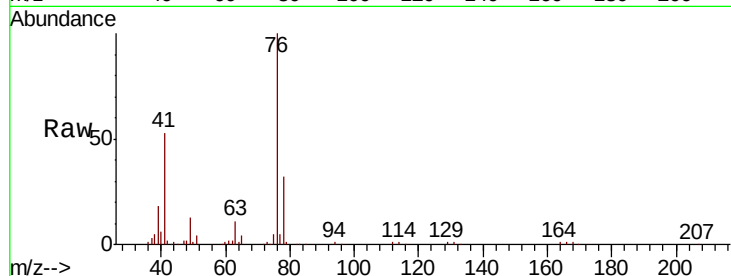
#57
 1,3-Dichloropropane
 Concen: 17.042 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0213WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.6	25.6	38.4

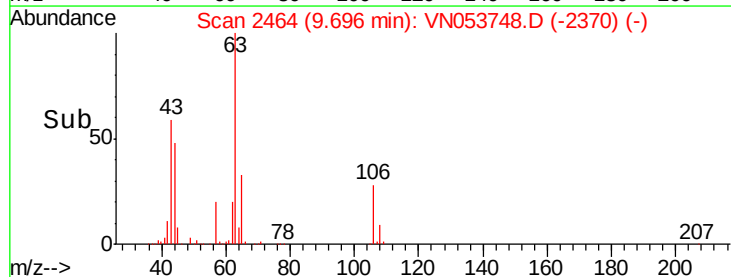
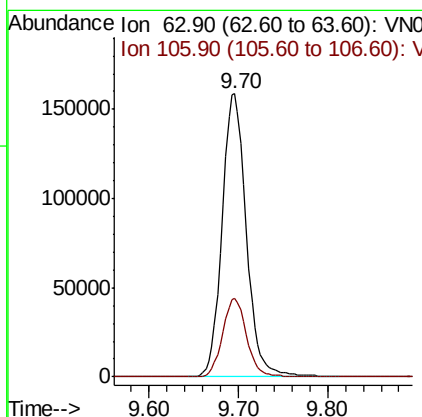
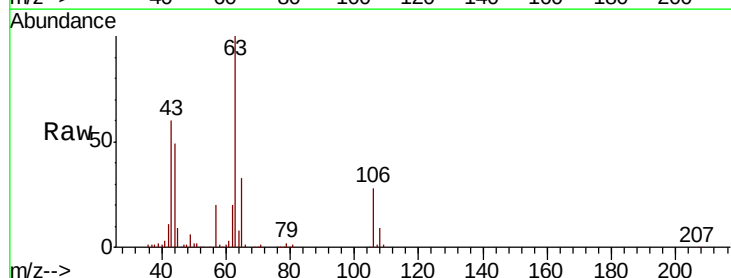
Manual Integrations
 APPROVED

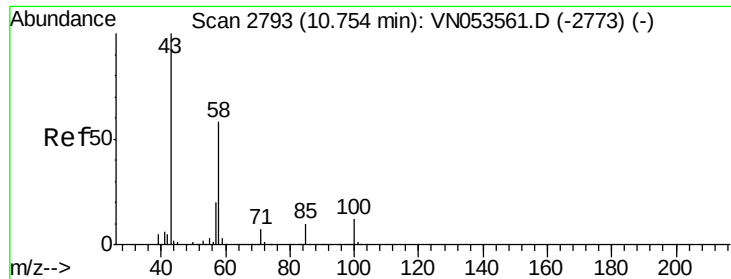
MMDadoda
 2/14/2019 10:39:08 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 77.935 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.5	32.3





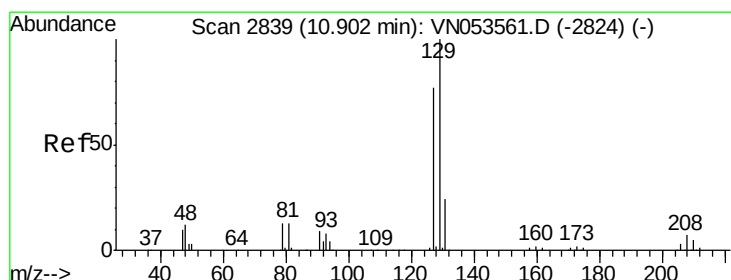
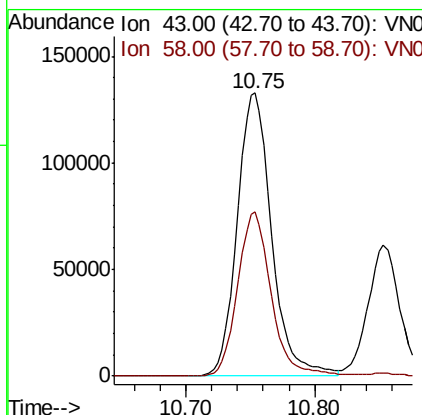
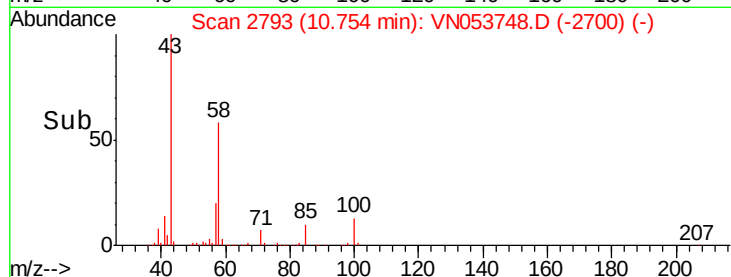
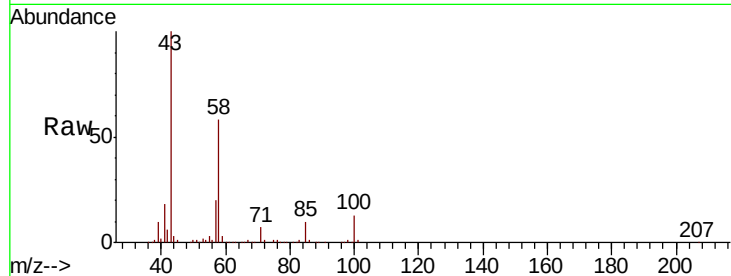
#59
2-Hexanone
Concen: 79.610 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampled :
VN0213WBS01

Tot Ion: 43 Resp: 245142
Ion Ratio Lower Upper
43 100
58 57.0 28.6 85.8

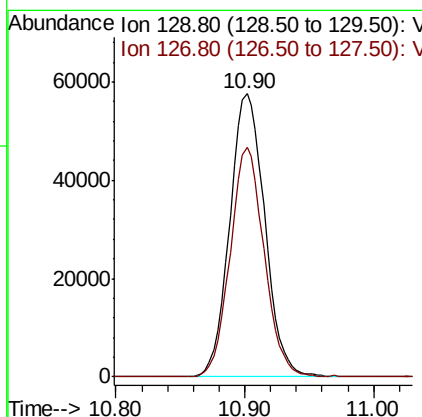
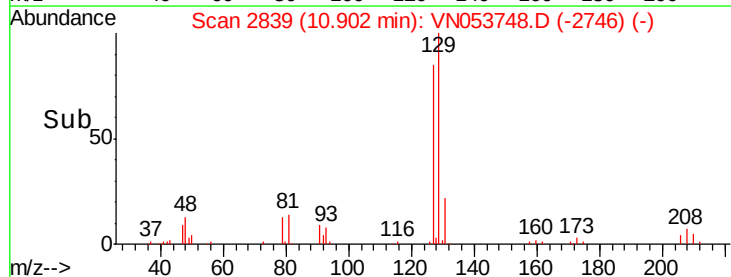
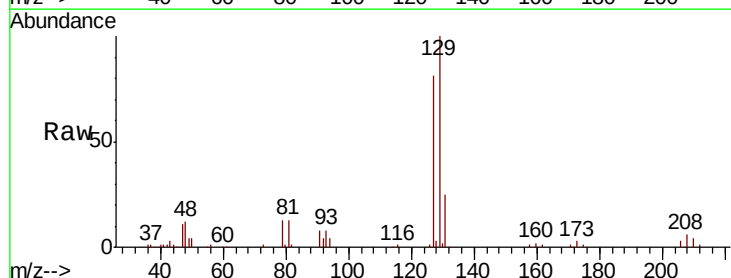
Manual Integrations
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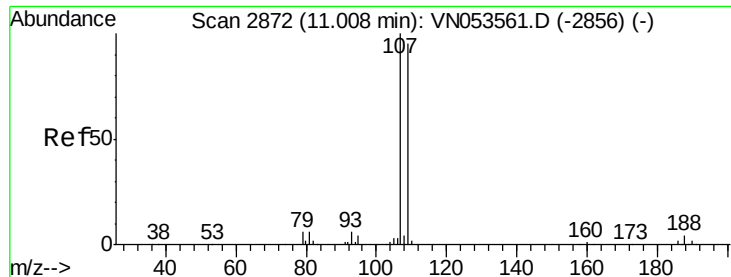
MMDadoda
2/14/2019 10:39:08 AM



#60
Dibromochloromethane
Concen: 17.077 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion: 129 Resp: 108683
Ion Ratio Lower Upper
129 100
127 78.5 38.6 115.8





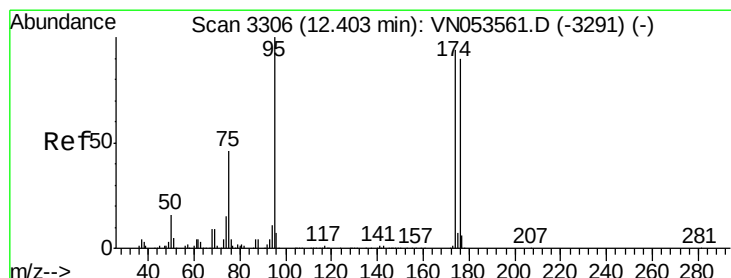
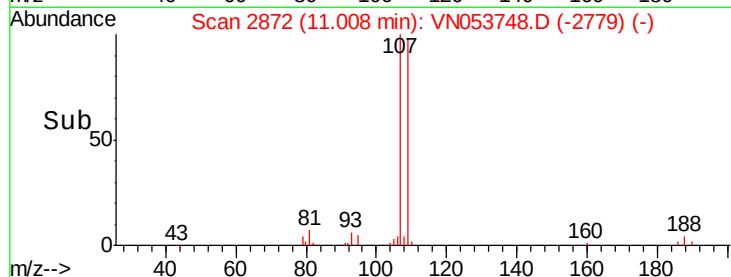
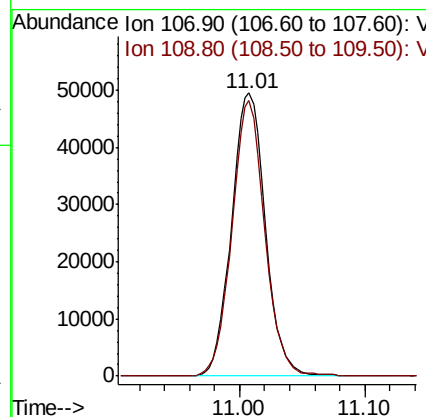
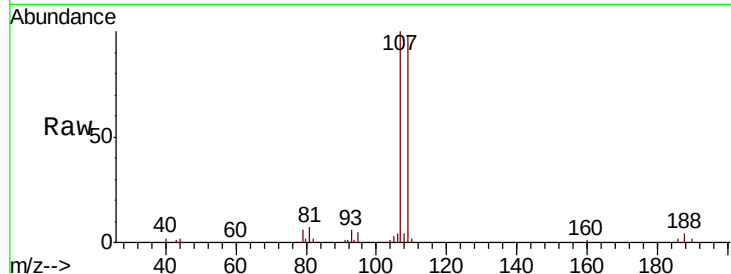
#61
 1,2-Dibromoethane
 Concen: 16.571 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0213WBS01

Tot Ion: 107 Resp: 92566
 Ion Ratio Lower Upper
 107 100
 109 94.6 75.7 113.5

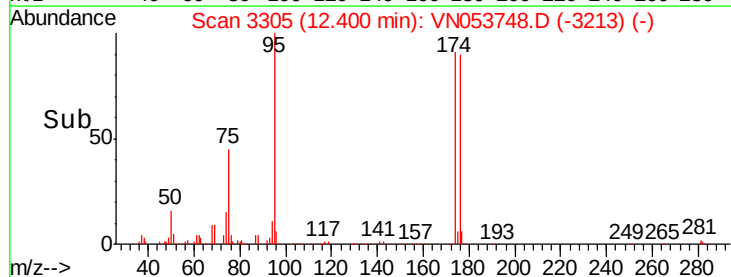
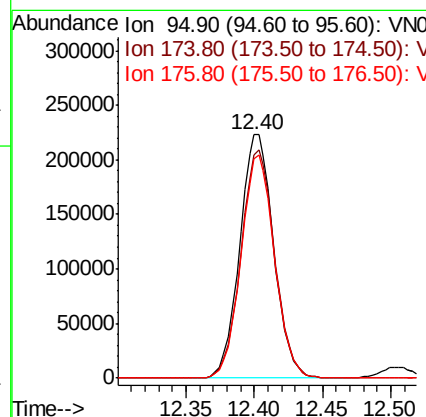
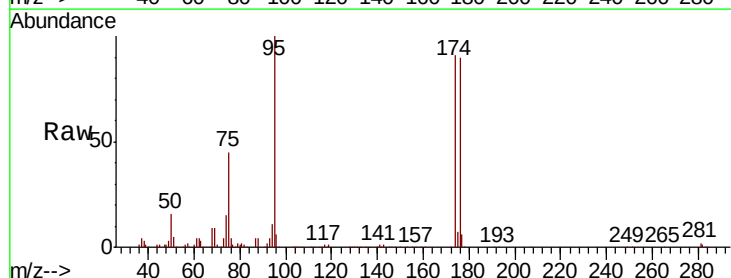
Manual Integrations
 APPROVED

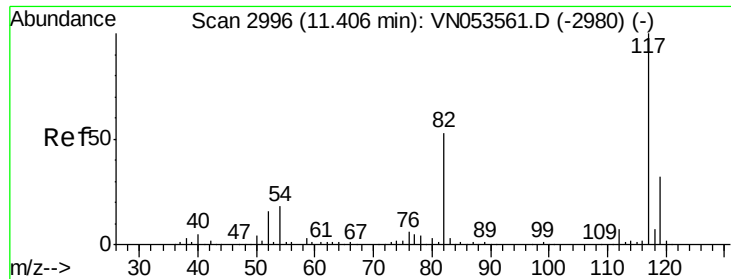
MMDadoda
 2/14/2019 10:39:08 AM



#62
 4-Bromofluorobenzene
 Concen: 50.967 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Tgt Ion: 95 Resp: 382873
 Ion Ratio Lower Upper
 95 100
 174 93.5 0.0 183.2
 176 90.8 0.0 177.4





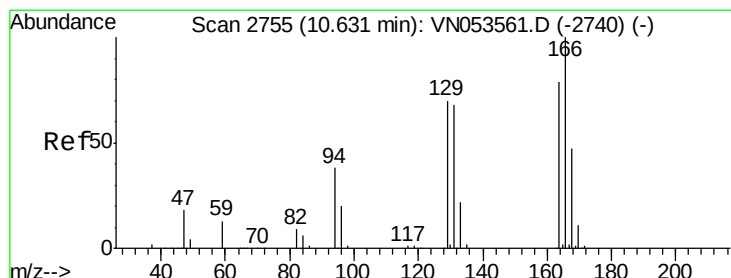
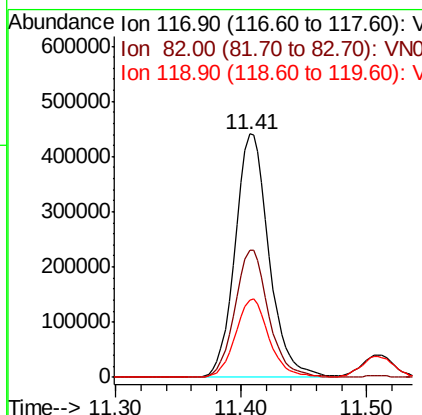
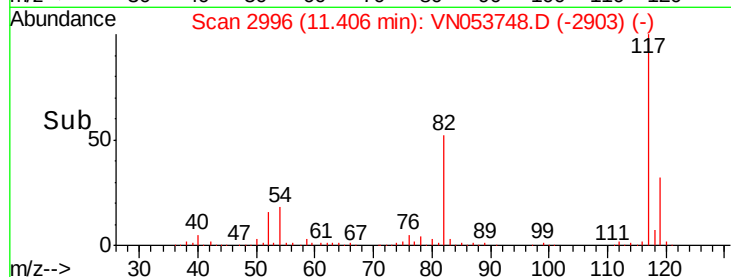
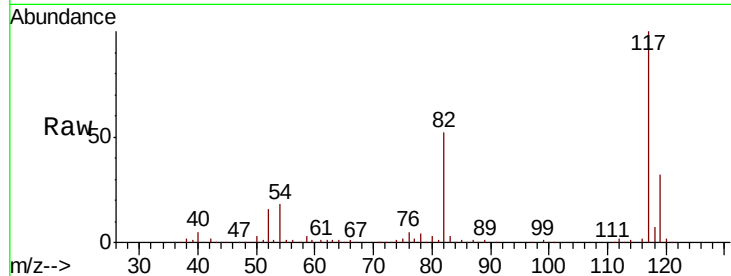
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0213WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.9	64.3
119	31.9	26.0	39.0

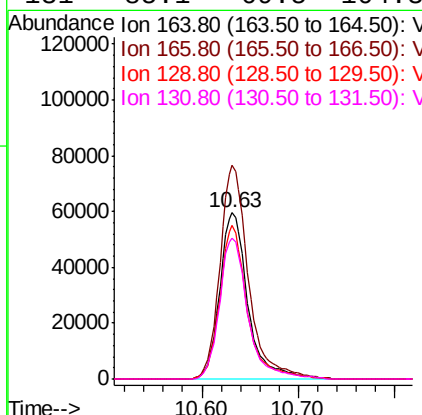
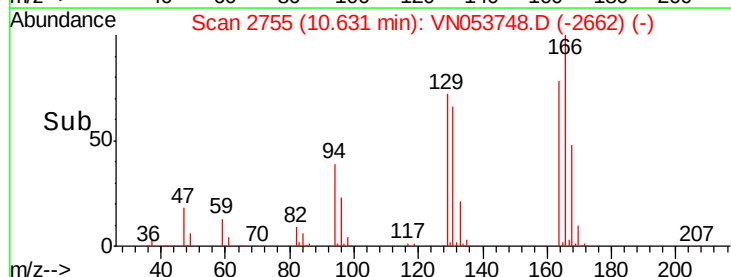
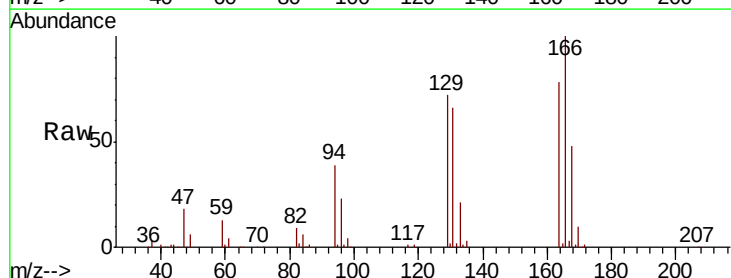
Manual Integrations
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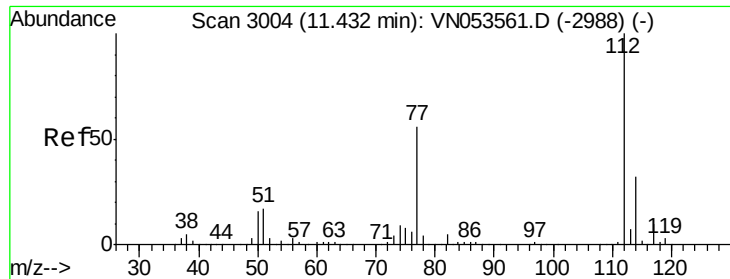
MMDadoda
2/14/2019 10:39:08 AM



#64
Tetrachloroethene
Concen: 16.963 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.7	102.2	153.4
129	92.3	72.6	109.0
131	85.1	69.5	104.3





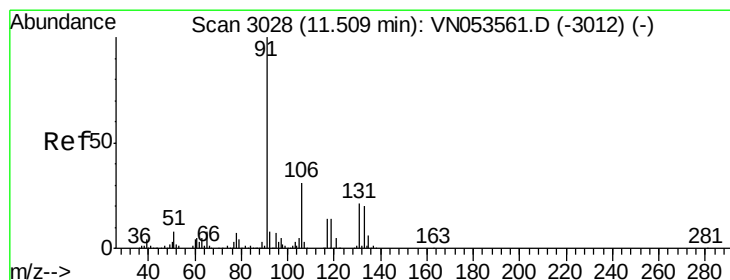
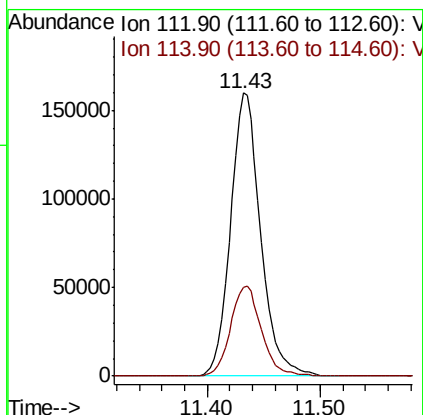
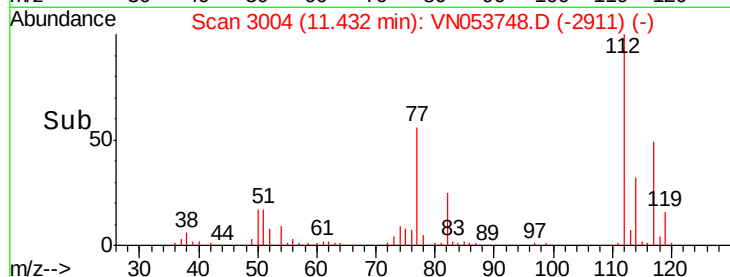
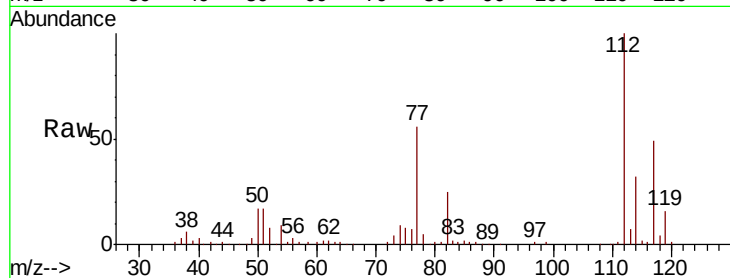
#65
Chlorobenzene
Concen: 16.764 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0213WBS01

Tot Ion:112 Resp: 294591
Ion Ratio Lower Upper
112 100
114 31.5 25.3 37.9

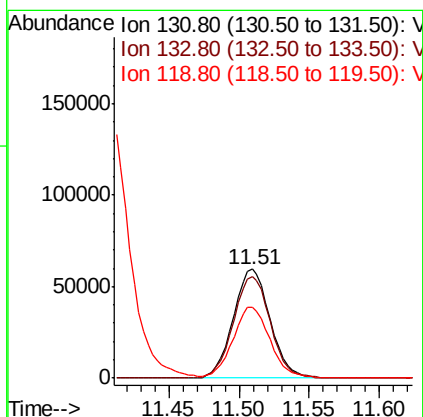
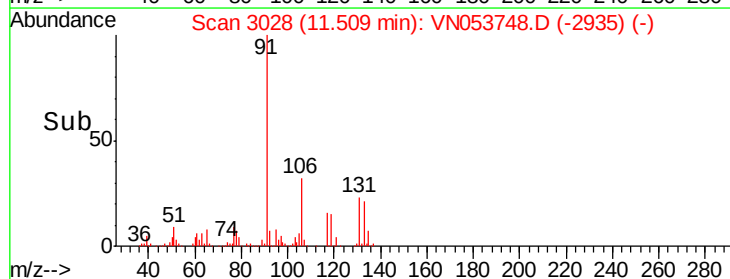
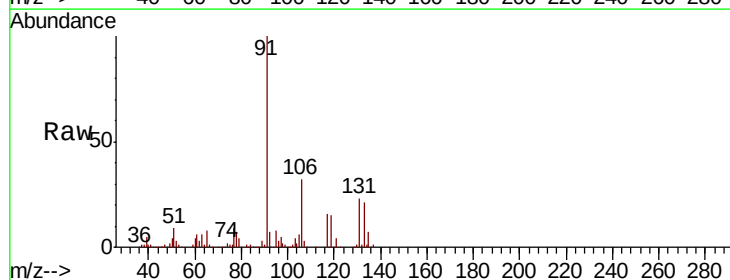
Manual Integrations
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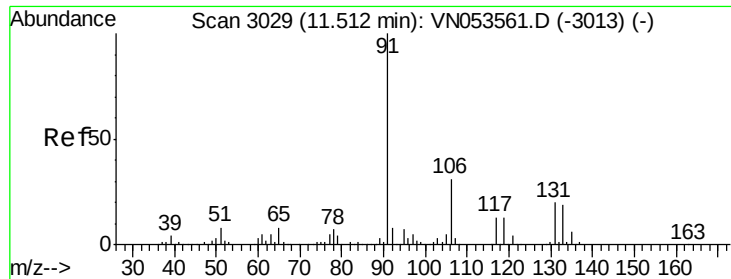
MMDadoda
2/14/2019 10:39:08 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 17.719 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion:131 Resp: 108743
Ion Ratio Lower Upper
131 100
133 94.0 48.0 144.0
119 65.6 33.5 100.5





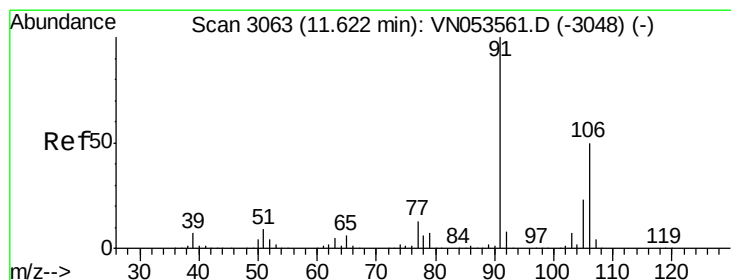
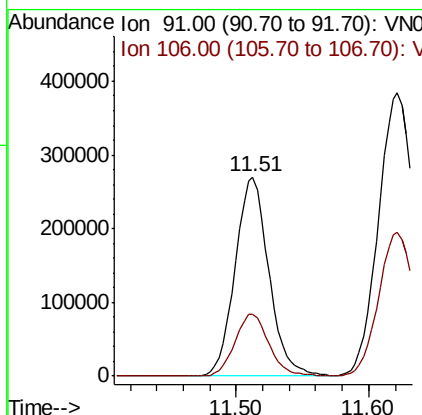
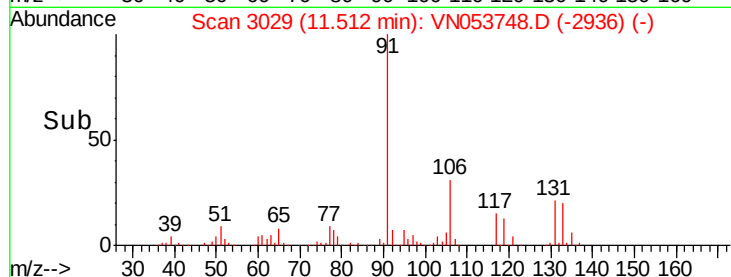
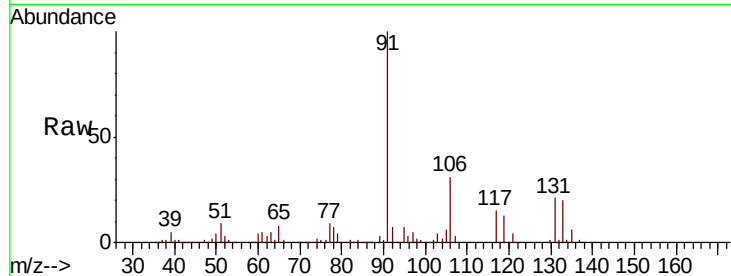
#67
Ethyl Benzene
Concen: 16.542 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0213WBS01

Tot Ion: 91 Resp: 477495
Ion Ratio Lower Upper
91 100
106 31.4 25.0 37.6

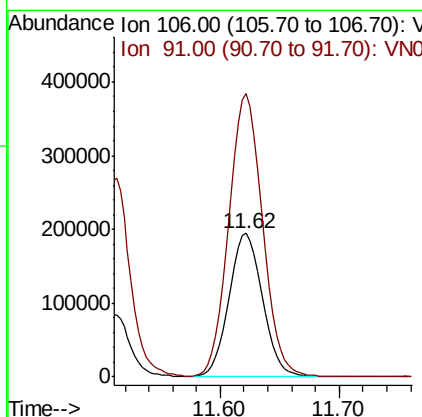
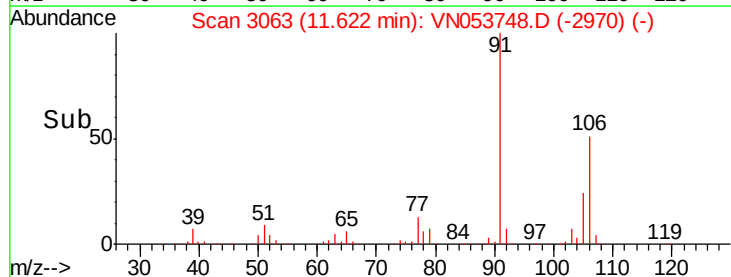
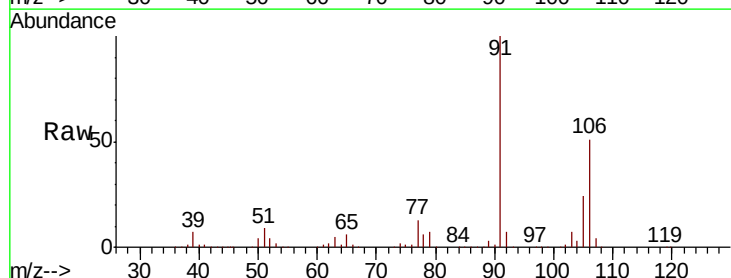
Manual Integrations
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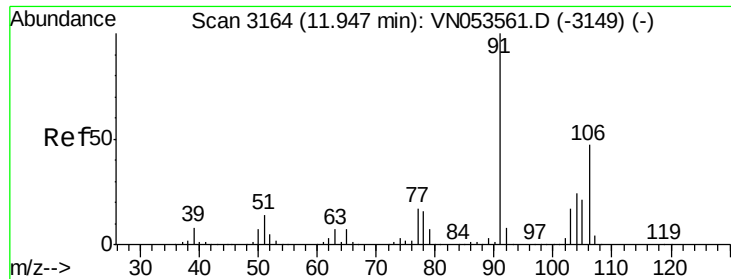
MMDadoda
2/14/2019 10:39:08 AM



#68
m/p-Xylenes
Concen: 34.561 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion: 106 Resp: 380770
Ion Ratio Lower Upper
106 100
91 198.0 161.4 242.2





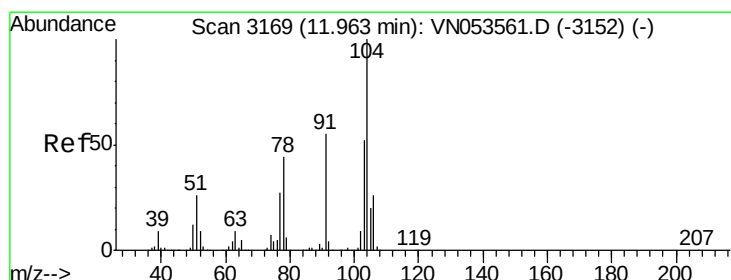
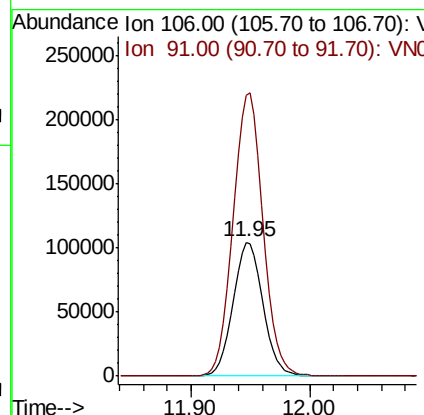
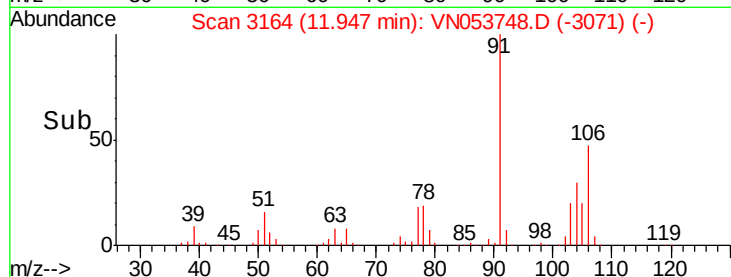
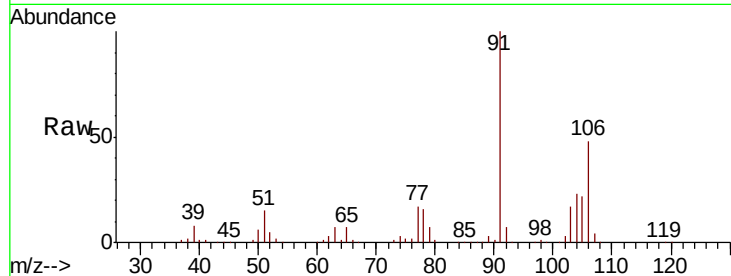
#69
o-Xylene
Concen: 17.055 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampled :
VN0213WBS01

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	212.3	106.9	320.8	

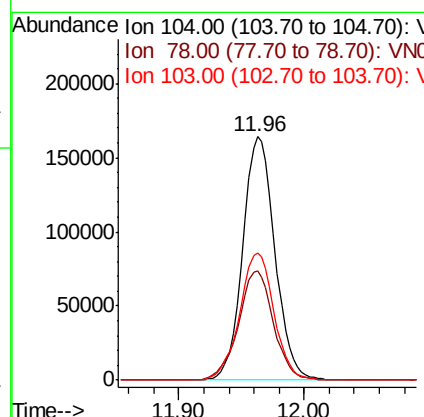
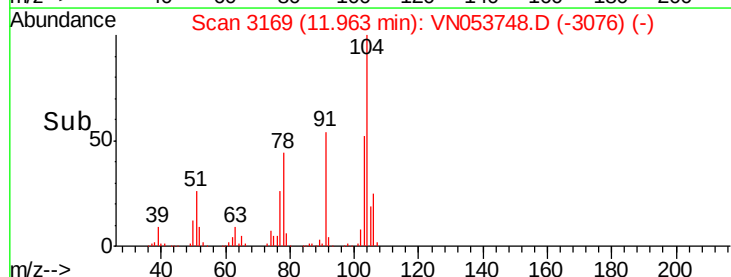
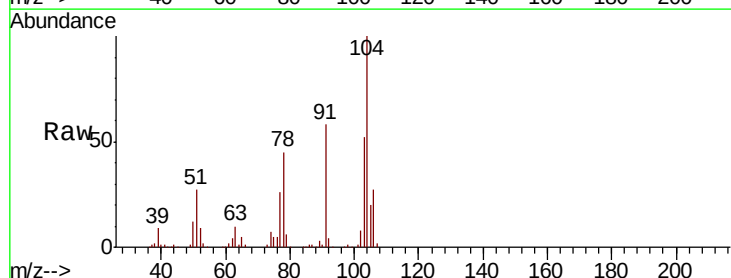
Manual Integrations
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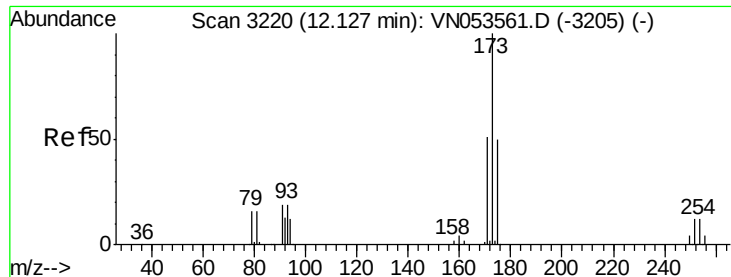
MMDadoda
2/14/2019 10:39:08 AM



#70
Styrene
Concen: 16.944 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	48.8	38.2	57.2	
103	56.0	44.4	66.6	





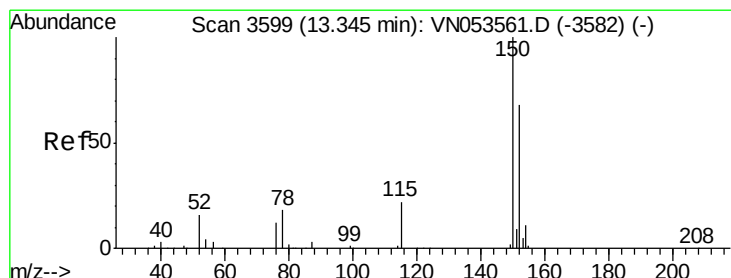
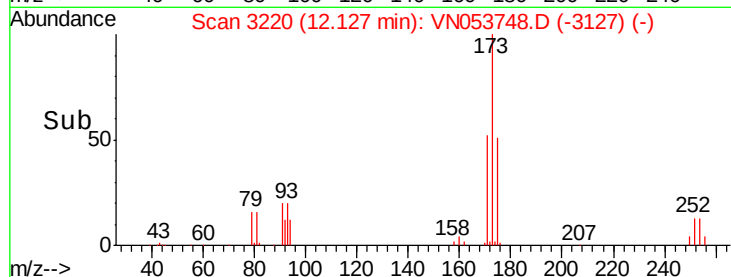
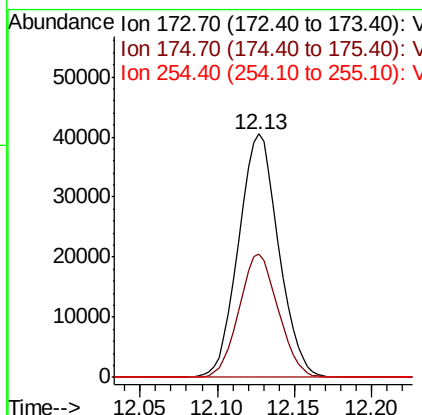
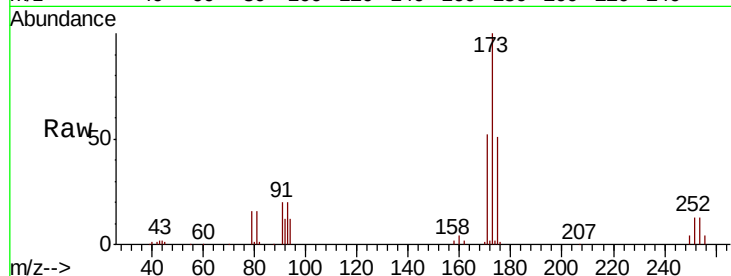
#71
Bromoform
Concen: 17.369 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0213WBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.6	74.0
254	0.0	0.2	0.2

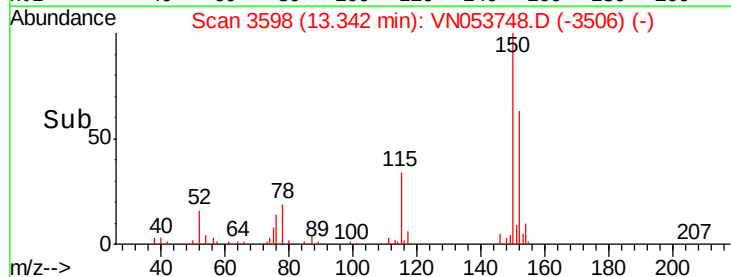
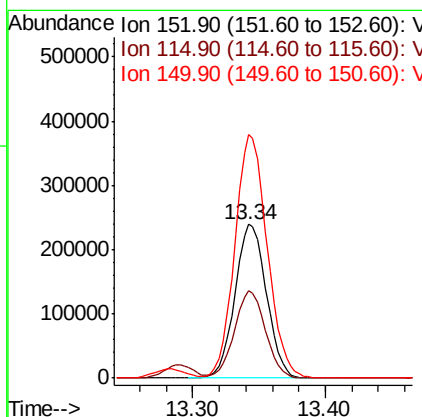
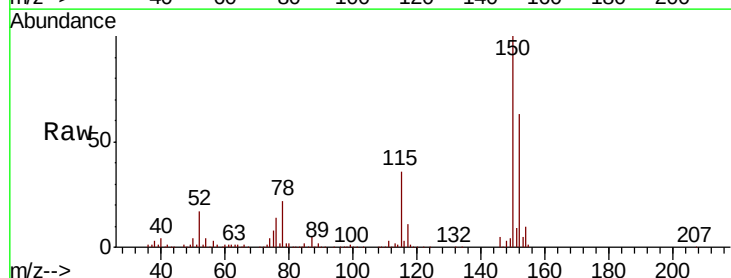
Manual Integrations
APPROVED

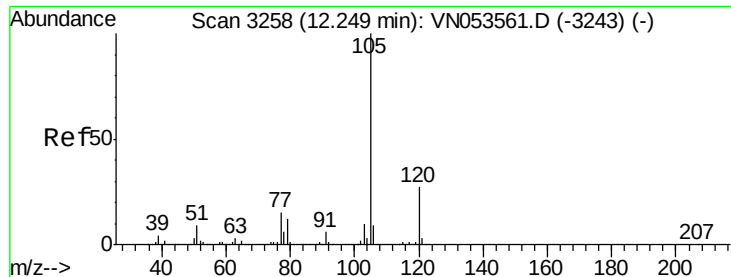
MMDadoda
2/14/2019 10:39:08 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.9	27.8	83.4
150	162.7	0.0	349.0





#73

Isopropylbenzene

Concen: 17.630 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0213WBS01

Tot Ion: 105 Resp: 488263

Ion Ratio Lower Upper

105 100

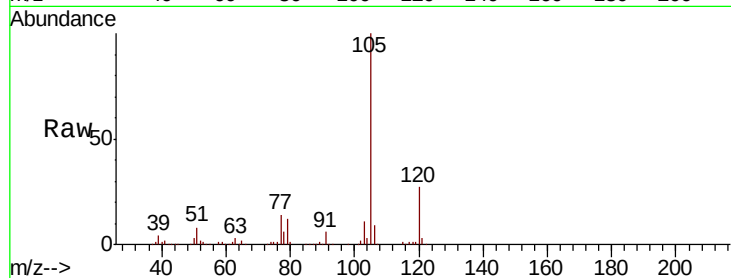
120 27.0 13.6 40.7

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

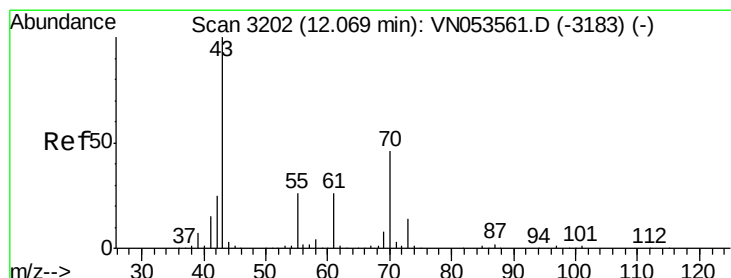
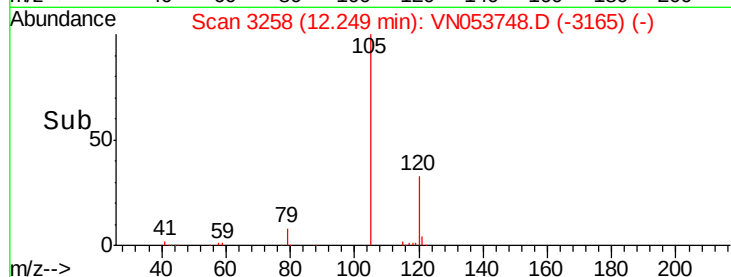
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 16.293 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Tgt Ion: 43 Resp: 108504

Ion Ratio Lower Upper

43 100

70 46.3 35.4 53.2

55 28.0 20.9 31.3

61 25.4 20.5 30.7

Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

100000

80000

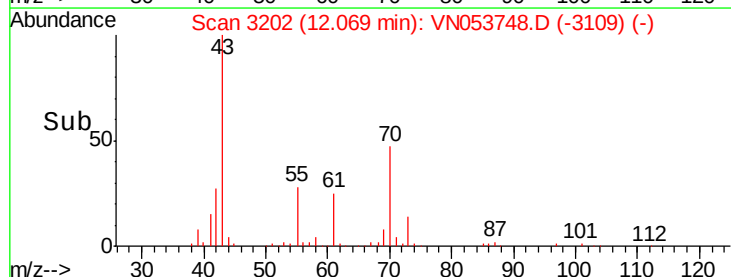
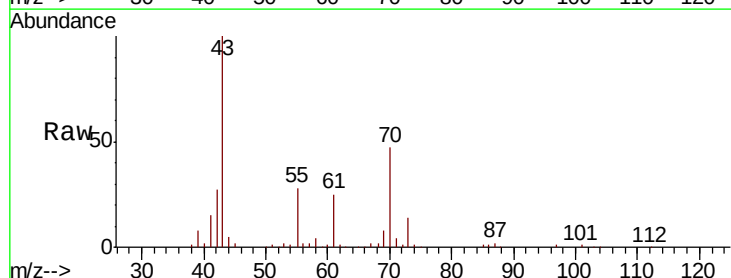
60000

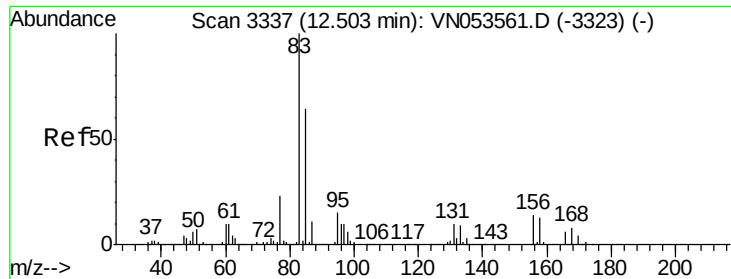
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 17.053 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

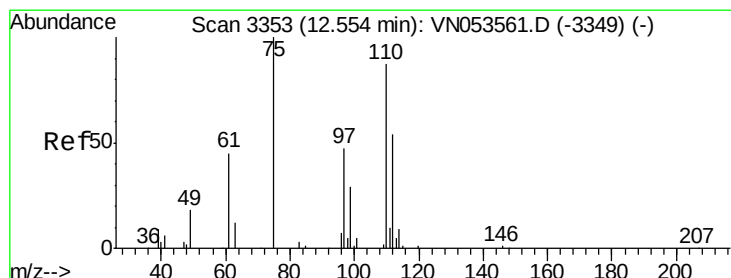
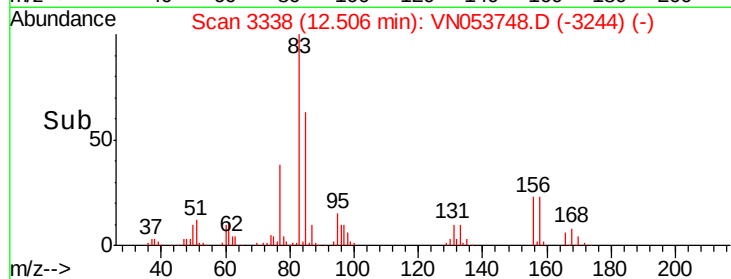
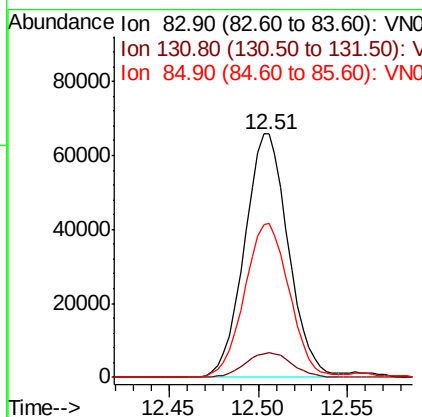
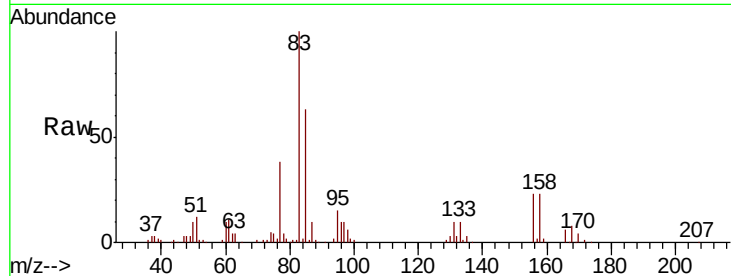
ClientSampleId :

VN0213WBS01

Tot Ion:	83	Resp:	113027
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.3	15.8
85	64.5	32.1	96.3

Manual Integrations
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2/14/2019 10:39:08 AM



#76

1,2,3-Trichloropropane

Concen: 18.551 ug/l m

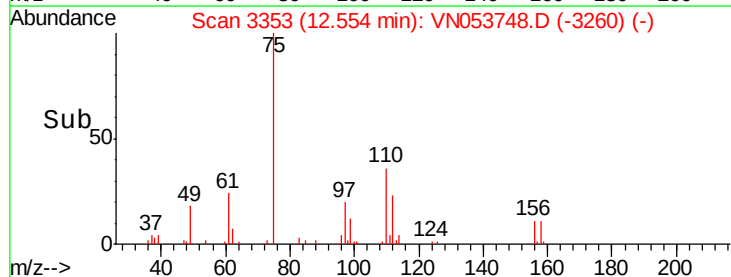
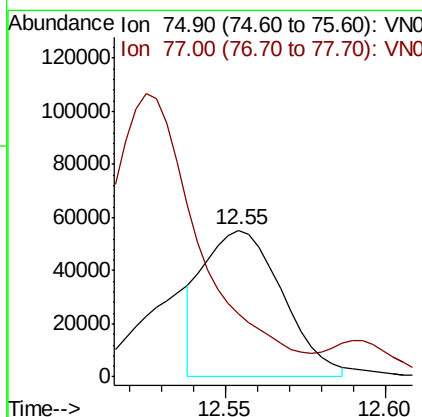
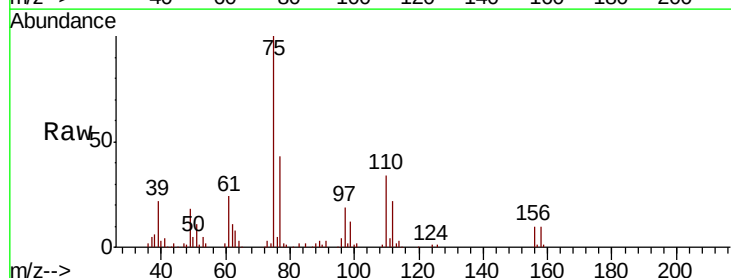
RT: 12.55 min Scan# 3353

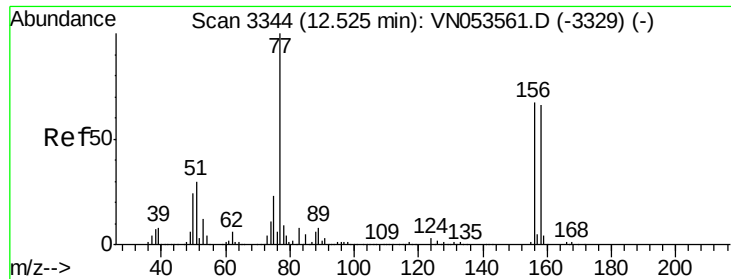
Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Tgt Ion:	75	Resp:	93871
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





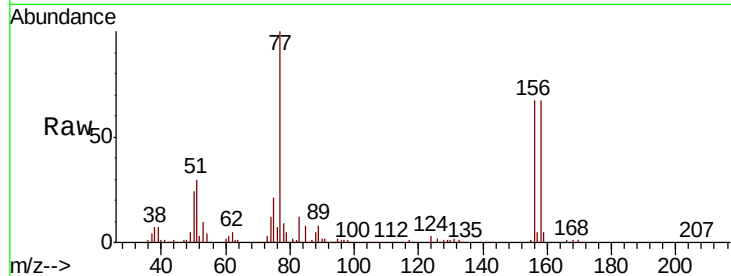
#77
Bromobenzene
Concen: 17.177 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0213WBS01

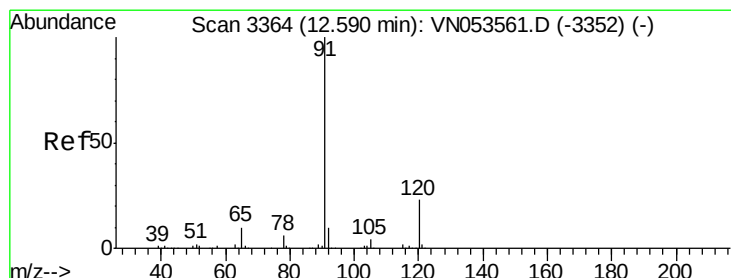
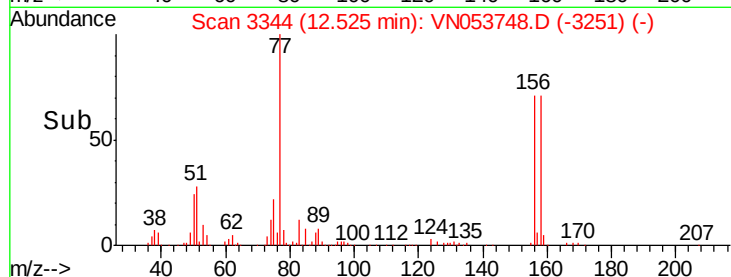
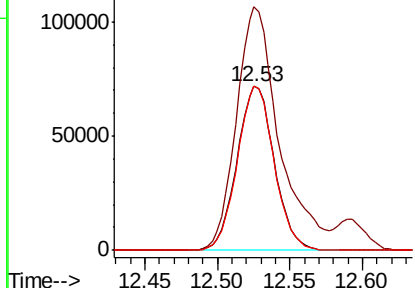
Tot Ion	Ratio	Lower	Upper
156	100		
77	170.7	87.9	263.8
158	98.7	48.8	146.4

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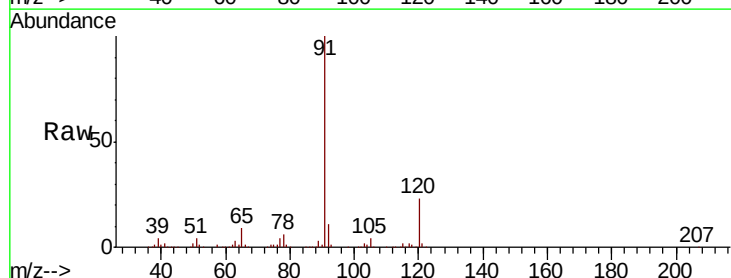


Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VN0
Ion 157.80 (157.50 to 158.50): V

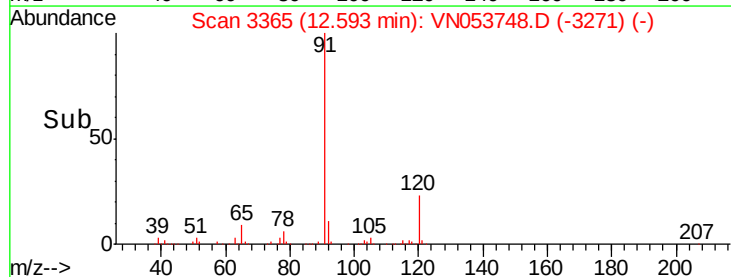
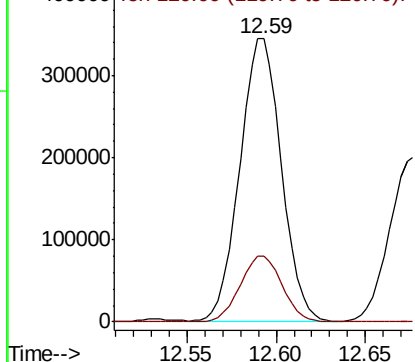


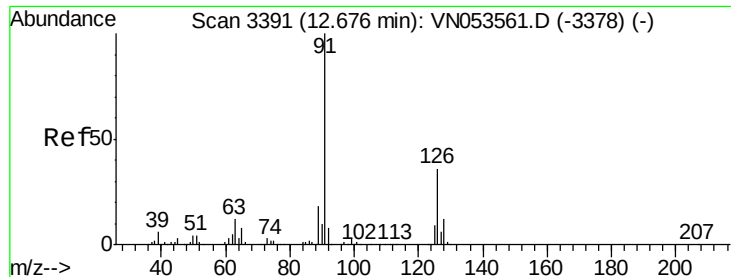
#78
n-propylbenzene
Concen: 17.383 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.9	35.5



Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 17.451 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

ClientSampled :

VN0213WBS01

Tot Ion: 91 Resp: 331471

Ion Ratio Lower Upper

91 100

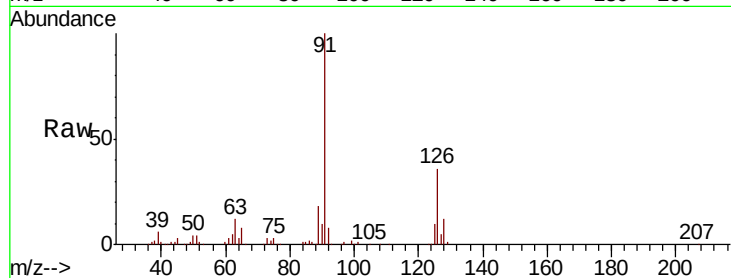
126 36.1 17.9 53.7

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN053748.D (-3298) (-)

Ion 125.90 (125.60 to 126.60): VN053748.D (-3298) (-)

300000

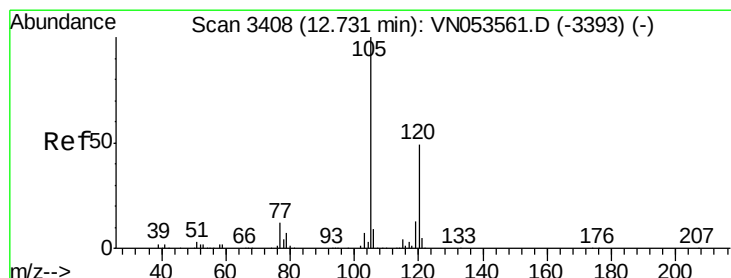
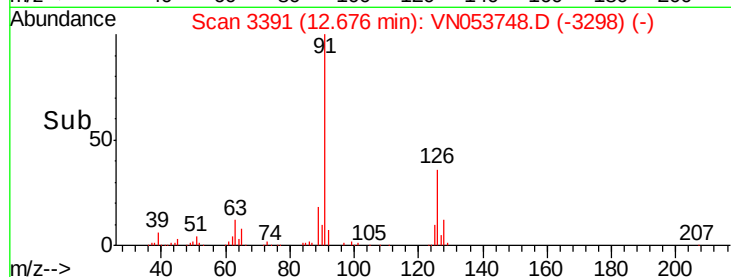
200000

100000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 18.173 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053748.D

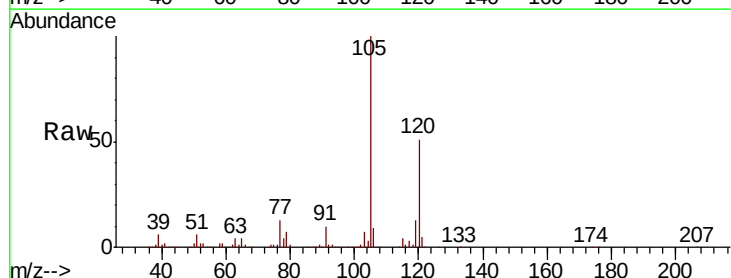
Acq: 13 Feb 2019 12:07

Tgt Ion: 105 Resp: 417372

Ion Ratio Lower Upper

105 100

120 50.4 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053748.D (-3315) (-)

Ion 120.00 (119.70 to 120.70): VN053748.D (-3315) (-)

300000

250000

200000

150000

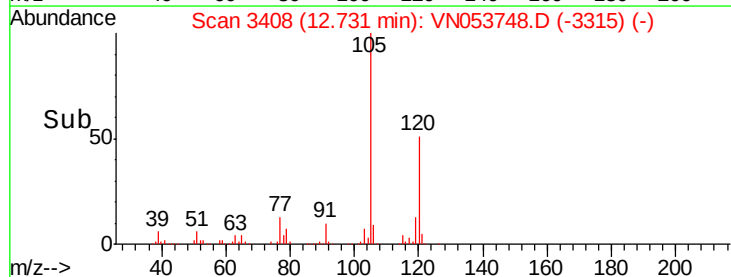
100000

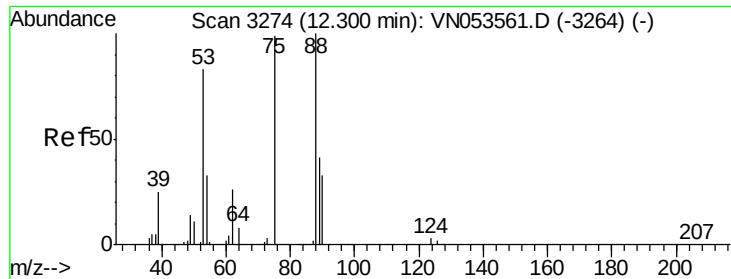
50000

0

12.70 12.80

Time-->





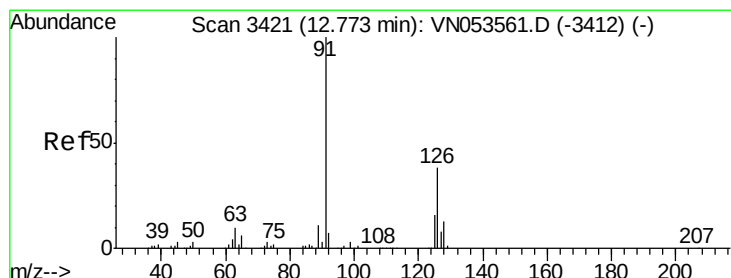
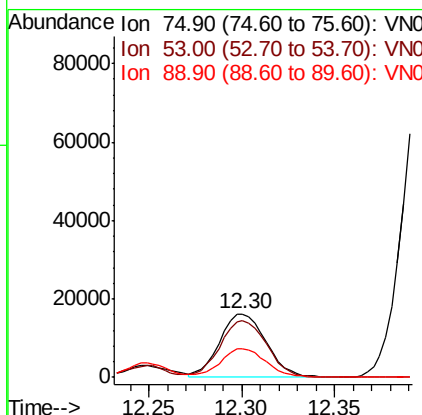
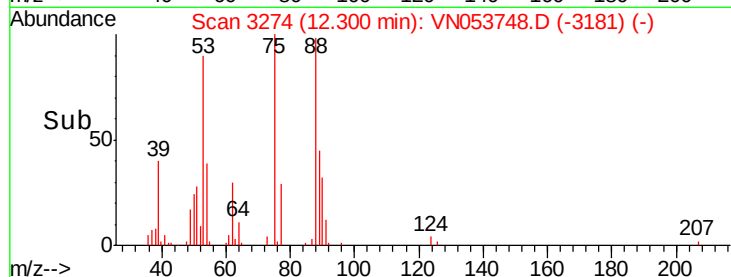
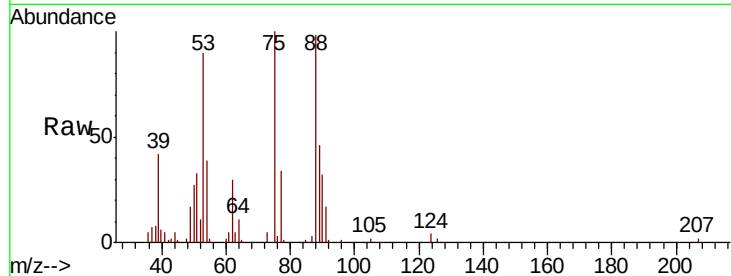
#81
trans-1,4-Dichloro-2-butene
Concen: 15.661 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0213WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	89.7	69.8	104.6
89	43.7	35.6	53.4

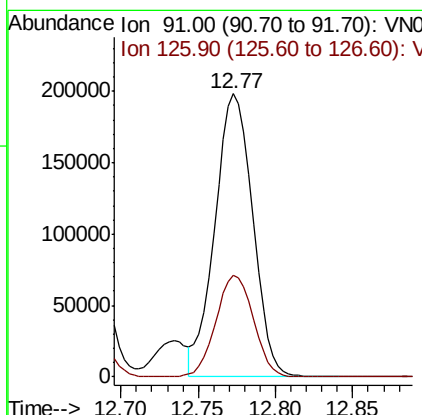
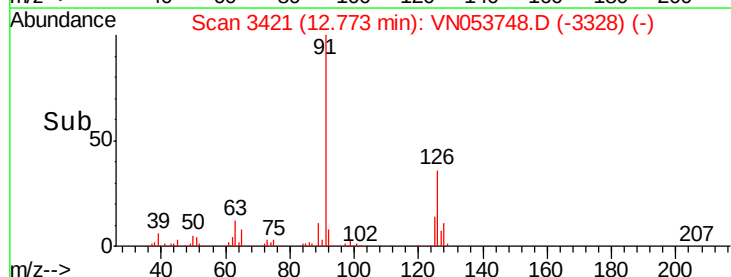
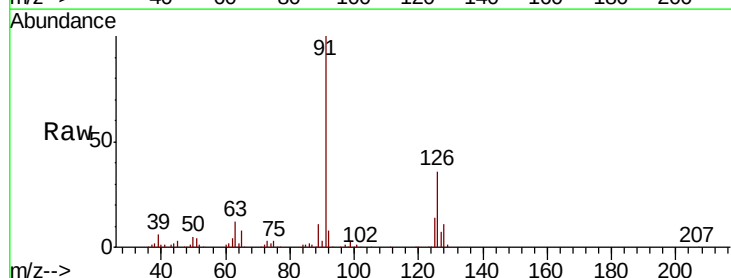
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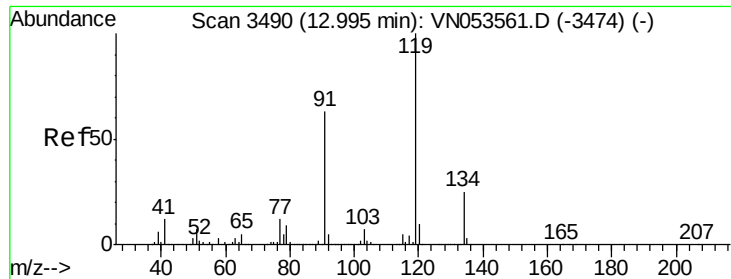
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#82
4-Chlorotoluene
Concen: 17.304 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.6	52.9





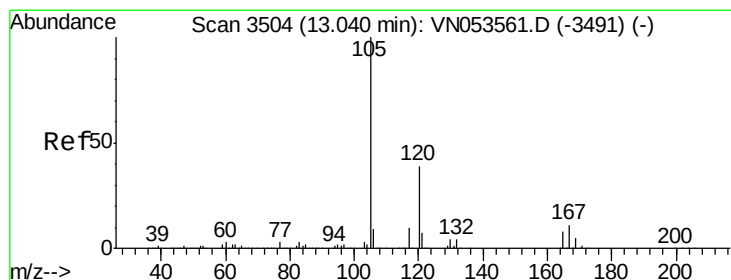
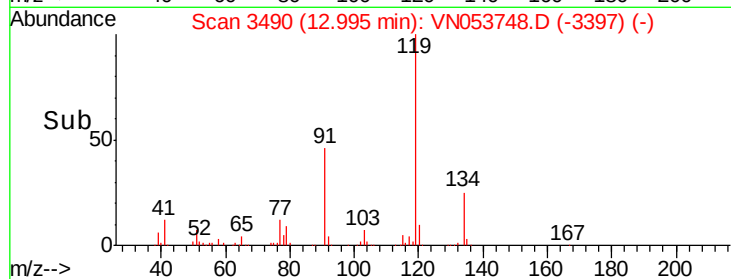
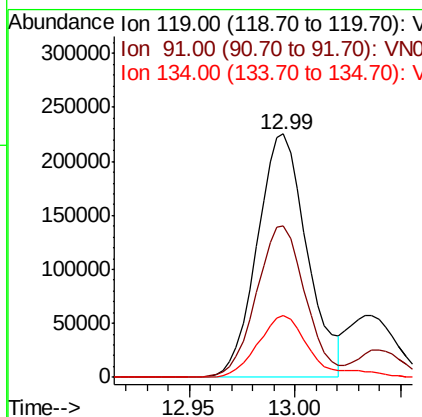
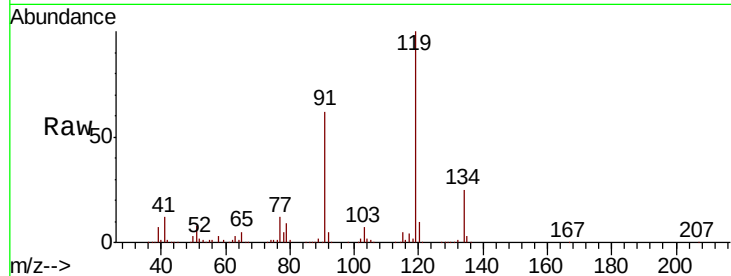
#83
 tert-Butylbenzene
 Concen: 18.285 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0213WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	371143		
91	61.4		31.3	93.8
134	26.7		12.9	38.7

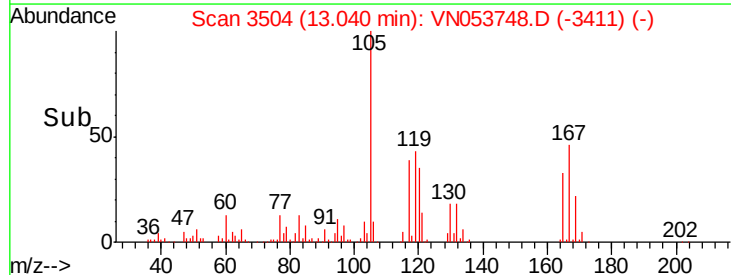
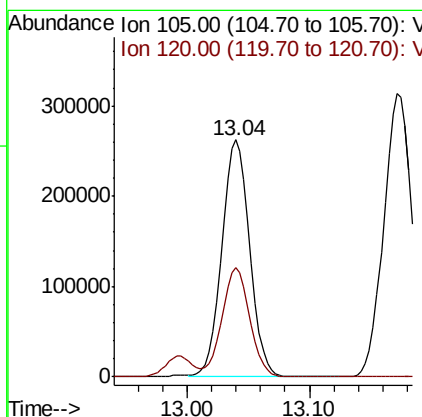
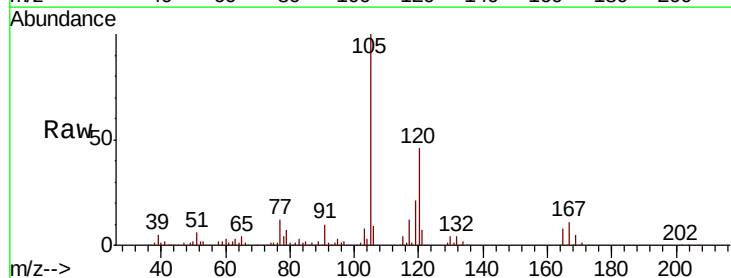
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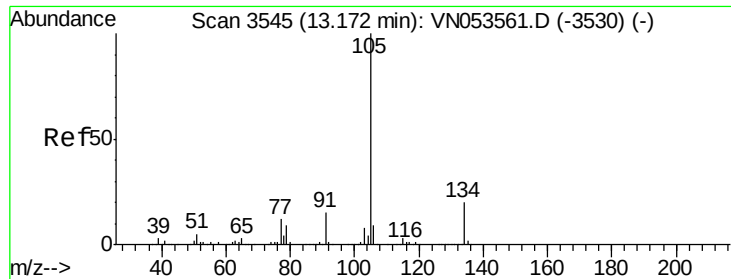
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#84
 1,2,4-Trimethylbenzene
 Concen: 17.985 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	420821		
120	45.8		23.0	69.0





#85

sec-Butylbenzene

Concen: 18.344 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0213WBS01

Tot Ion:105 Resp: 506678

Ion Ratio Lower Upper

105 100

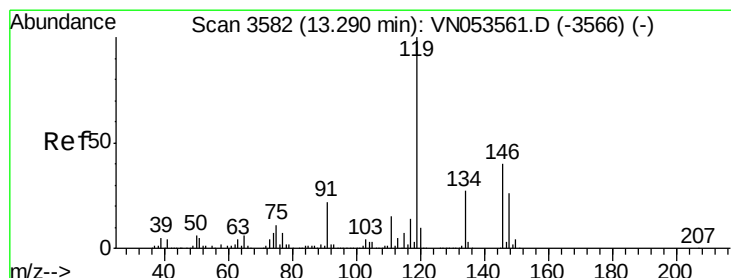
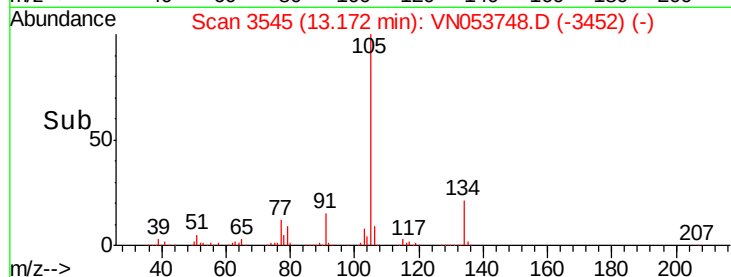
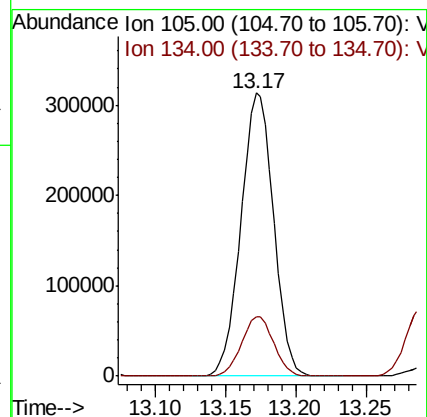
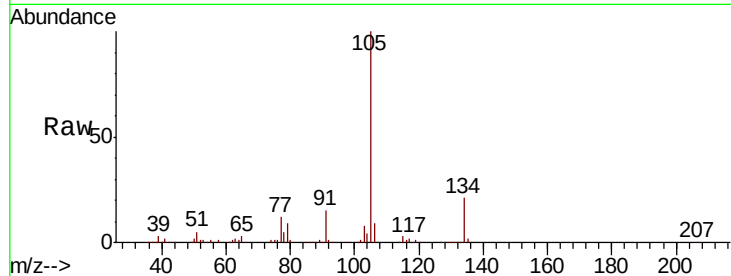
134 20.7 10.2 30.6

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#86

p-Isopropyltoluene

Concen: 18.088 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

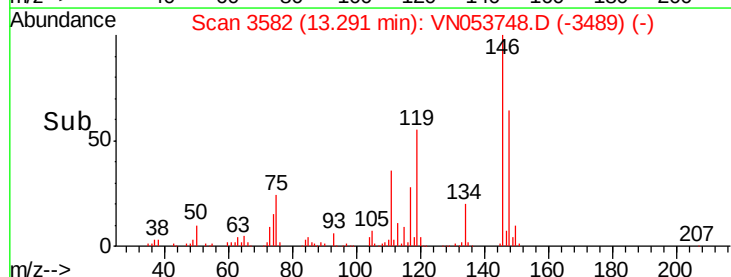
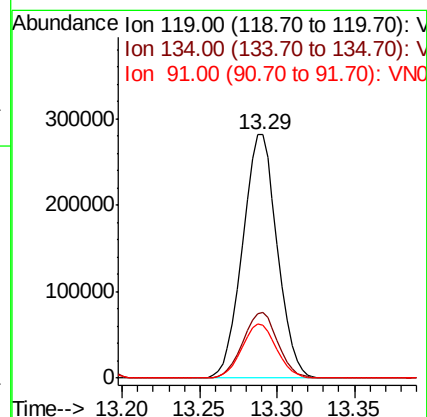
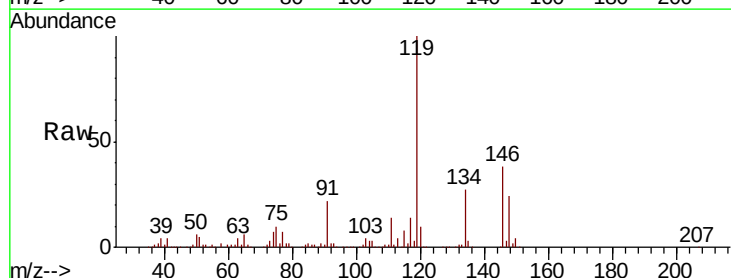
Tgt Ion:119 Resp: 436964

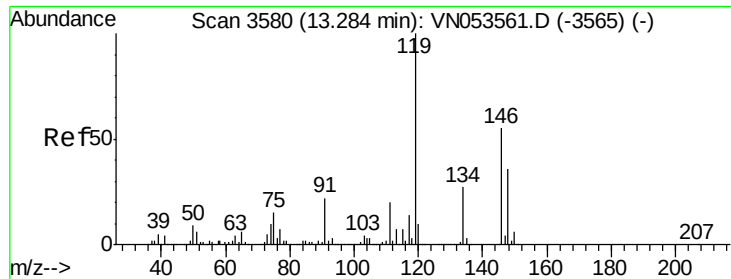
Ion Ratio Lower Upper

119 100

134 27.0 13.5 40.4

91 22.4 11.0 33.0





#87

1,3-Dichlorobenzene

Concen: 16.830 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Instrument :

MSVOA_N

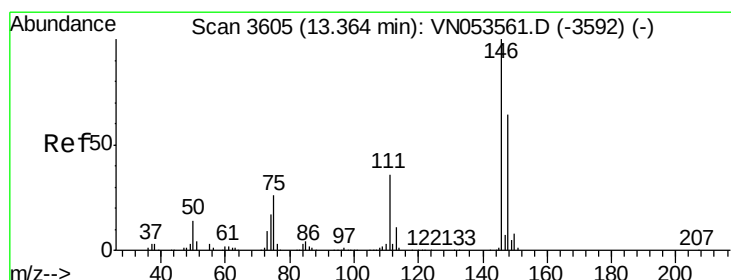
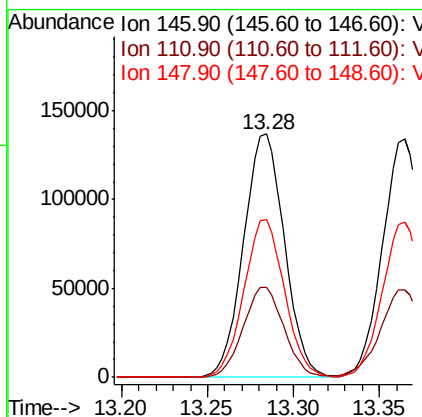
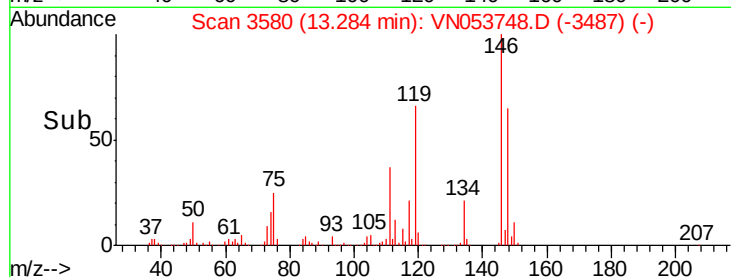
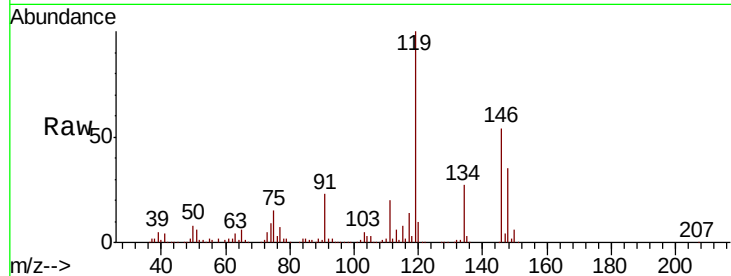
ClientSampleId :

VN0213WBS01

Tot Ion:	146	Resp:	225820
Ion Ratio	Lower	Upper	
146	100		
111	36.9	18.8	56.3
148	64.4	32.0	96.2

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#88

1,4-Dichlorobenzene

Concen: 16.728 ug/l

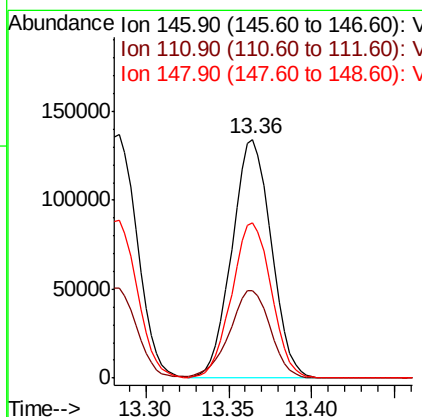
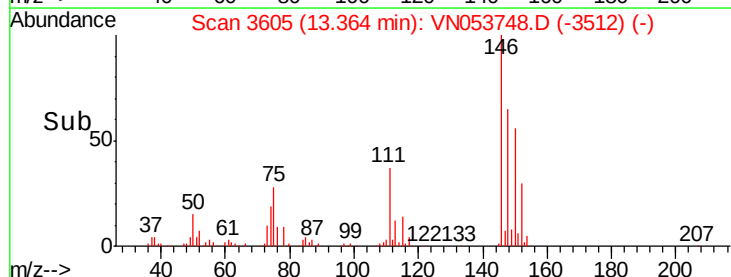
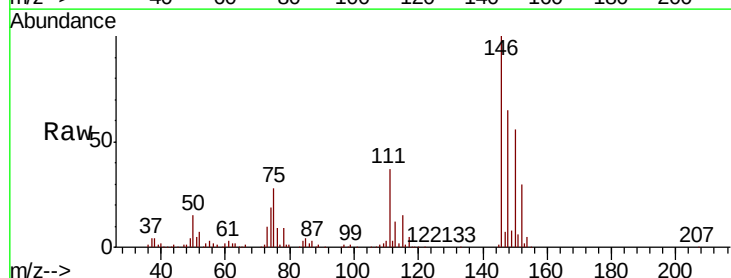
RT: 13.36 min Scan# 3605

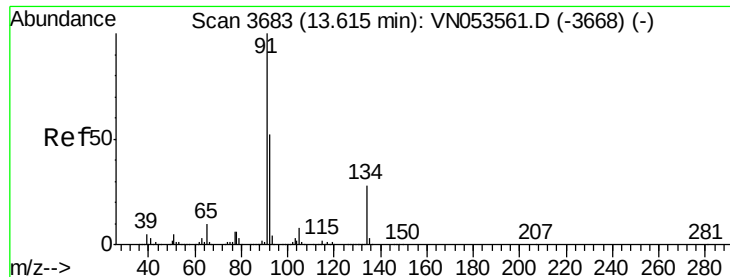
Delta R.T. 0.00 min

Lab File: VN053748.D

Acq: 13 Feb 2019 12:07

Tgt Ion:	146	Resp:	222019
Ion Ratio	Lower	Upper	
146	100		
111	38.3	18.6	55.8
148	65.5	32.4	97.0





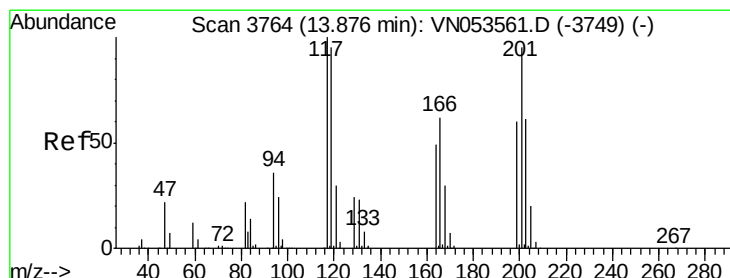
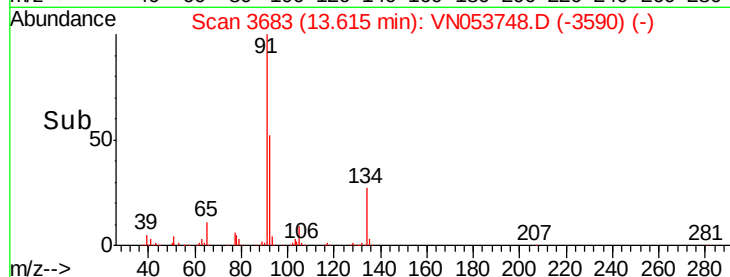
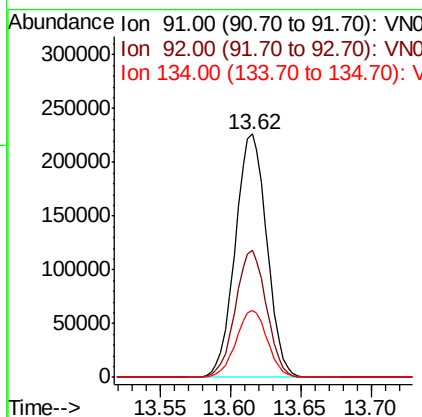
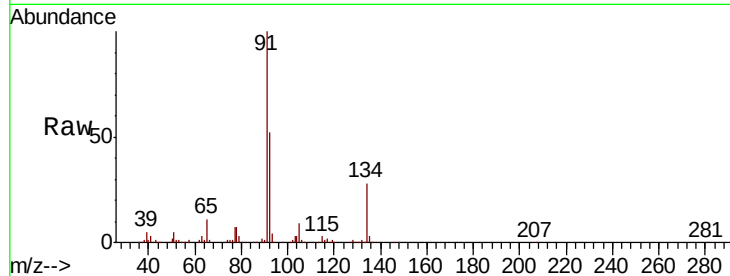
#89
n-Butylbenzene
Concen: 16.998 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0213WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.5	26.3	78.8
134	27.3	13.5	40.5

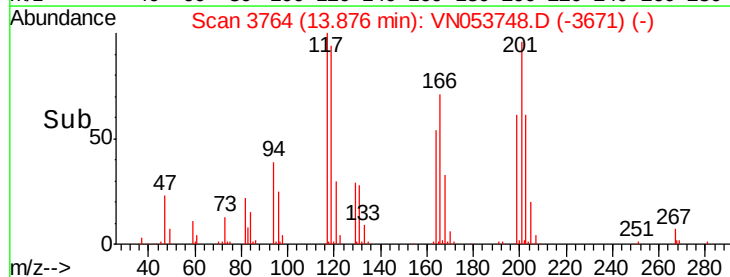
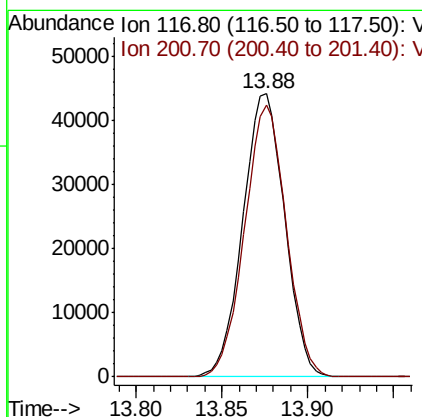
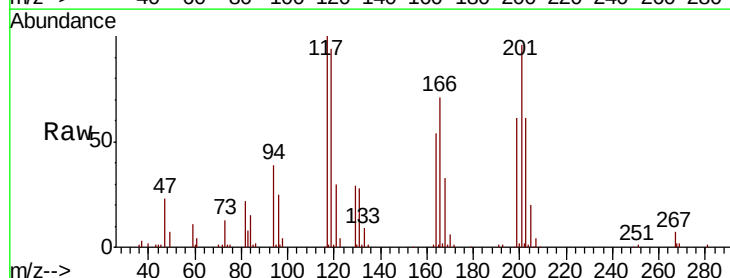
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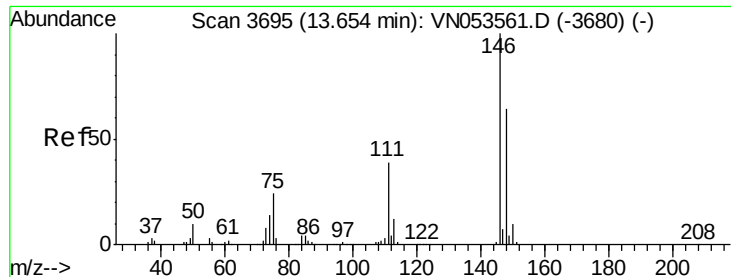
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#90
Hexachloroethane
Concen: 18.675 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Lower	Upper
117	100		
201	95.3	46.8	140.4





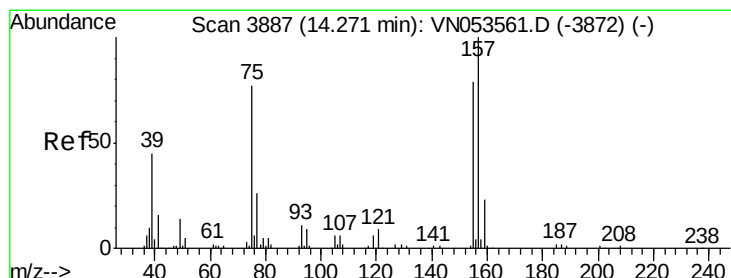
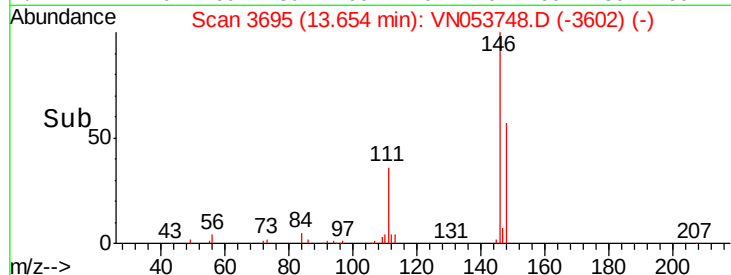
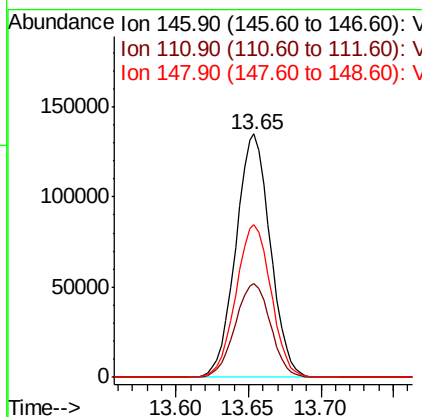
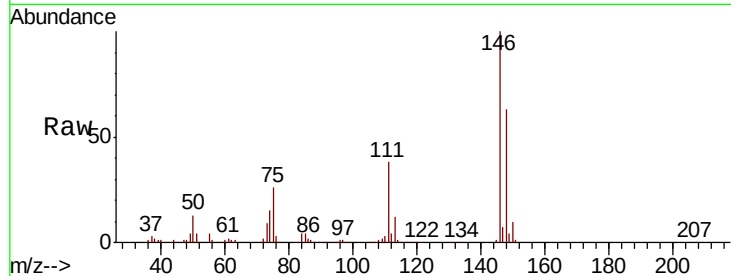
#91
 1,2-Dichlorobenzene
 Concen: 17.305 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0213WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.5	58.5
148	63.9	31.9	95.9

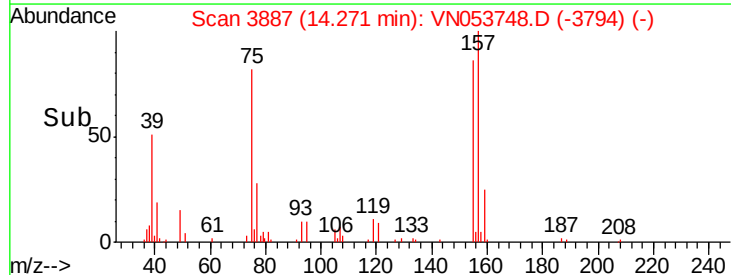
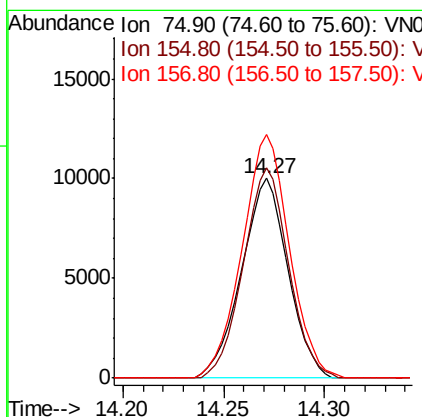
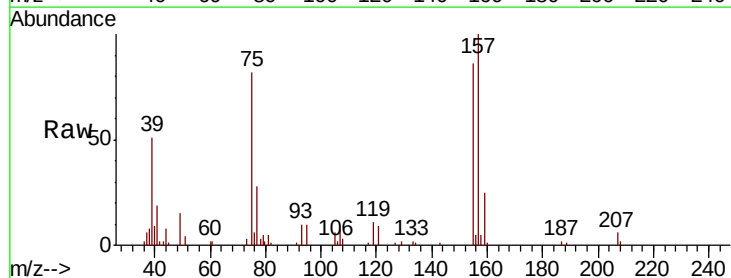
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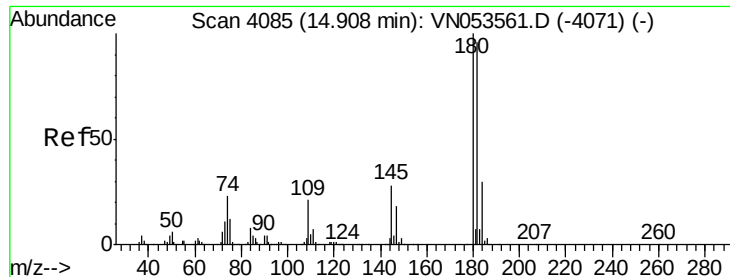
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.088 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	102.6	48.9	146.7
157	124.2	63.7	191.3





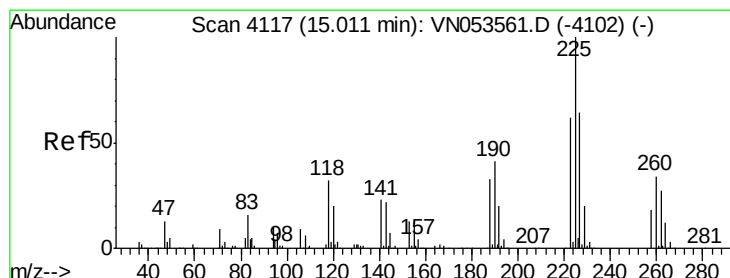
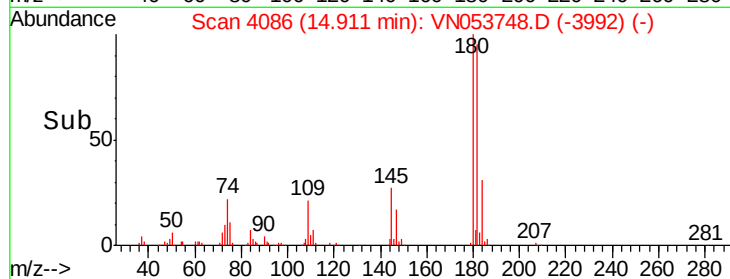
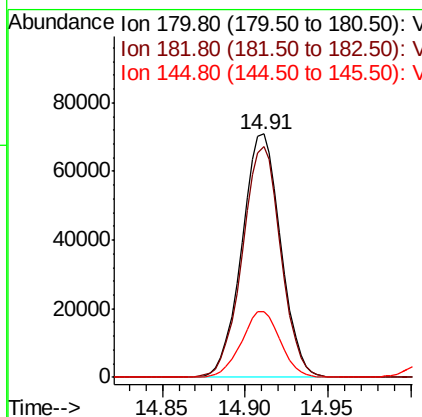
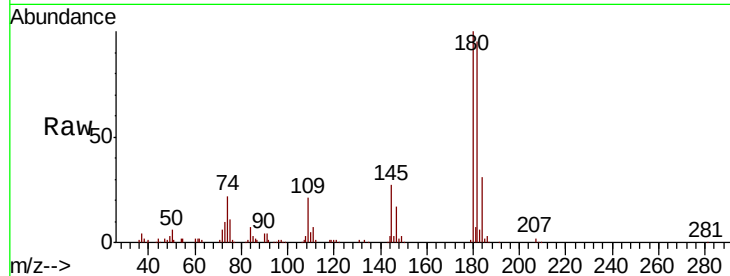
#93
 1,2,4-Trichlorobenzene
 Concen: 15.640 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0213WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	115222		
182	94.1	48.1	144.3	
145	27.2	13.9	41.6	

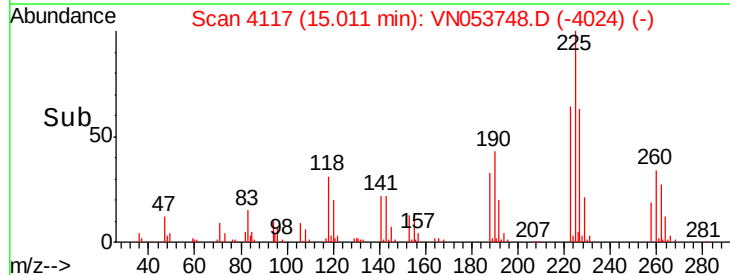
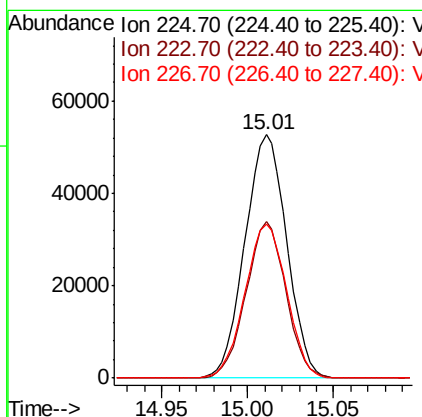
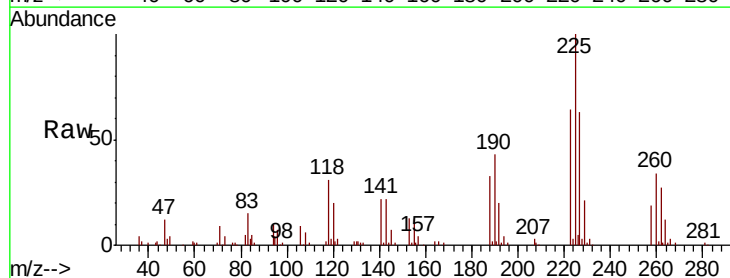
Manual Integrations
 APPROVED

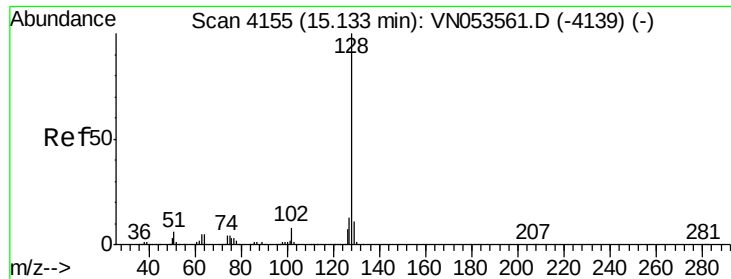
MMDadoda
 2/14/2019 10:39:08 AM



#94
 Hexachlorobutadiene
 Concen: 19.354 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053748.D
 Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	88797		
223	61.2	31.1	93.2	
227	62.8	32.0	96.2	





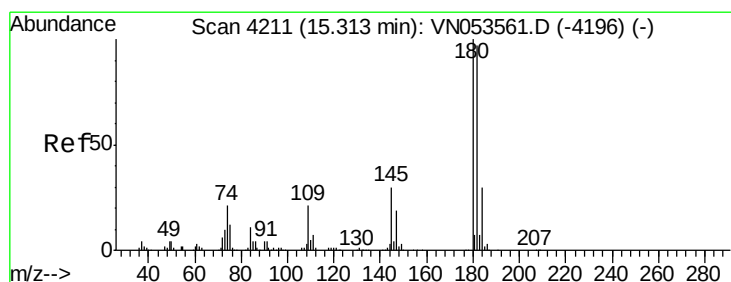
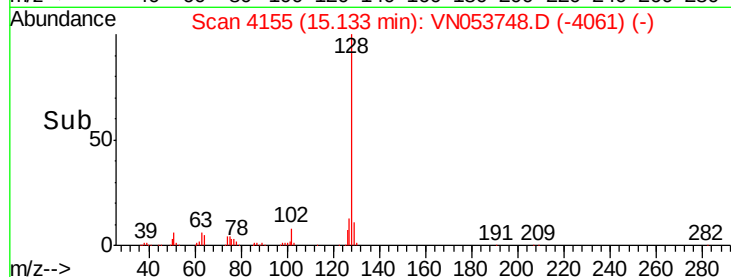
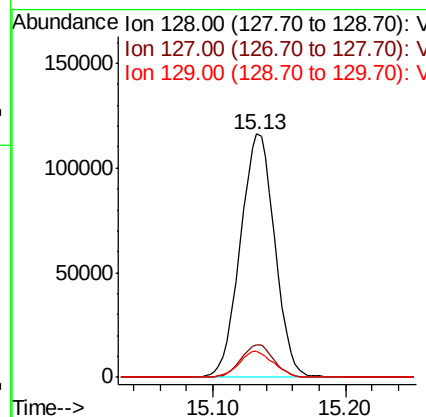
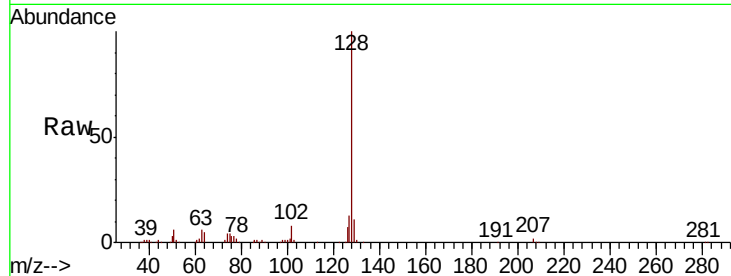
#95
Naphthalene
Concen: 13.401 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0213WBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	209137		
127	12.9		10.3	15.5
129	10.6		8.6	13.0

Manual Integrations
APPROVED

MMDadoda
2/14/2019 10:39:08 AM



#96
1,2,3-Trichlorobenzene
Concen: 16.323 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN053748.D
Acq: 13 Feb 2019 12:07

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	111579		
182	93.6		47.9	143.8
145	29.0		14.7	44.1

