

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121818\
 Data File : VN052962.D
 Acq On : 18 Dec 2018 15:44
 Operator : MD\SY
 Sample : J6378-13MSD 20X
 Misc : 2.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-SD012-0612-01MSD

Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 12:06:45 PM

Quant Time: Dec 19 04:07:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	987375	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1548254	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1383998	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	670702	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	533694	53.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.52%	
35) Dibromofluoromethane	7.59	113	378038	53.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.90%	
50) Toluene-d8	10.09	98	1819819	47.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.86%	
62) 4-Bromofluorobenzene	12.40	95	645412	48.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.84%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	473557	47.389	ug/l	100
3) Chloromethane	2.06	50	602853	49.784	ug/l	99
4) Vinyl Chloride	2.19	62	590675	48.163	ug/l	100
5) Bromomethane	2.56	94	378551	44.552	ug/l	100
6) Chloroethane	2.71	64	350039	48.192	ug/l	99
7) Trichlorofluoromethane	3.02	101	739585	48.409	ug/l	99
8) Diethyl Ether	3.41	74	311516	54.048	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.76	101	450985	46.297	ug/l	98
10) Methyl Iodide	3.96	142	709972	51.900	ug/l	99
11) Tert butyl alcohol	4.77	59	176704	289.025	ug/l	99
12) 1,1-Dichloroethene	3.74	96	451992	48.028	ug/l	99
13) Acrolein	3.61	56	137058	247.235	ug/l	99
14) Allyl chloride	4.33	41	735078	50.426	ug/l	94
15) Acrylonitrile	4.99	53	925496	272.483	ug/l	100
16) Acetone	3.81	43	593769	302.233	ug/l	96
17) Carbon Disulfide	4.06	76	1317690	42.933	ug/l	99
18) Methyl Acetate	4.32	43	509284	56.974	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	1386328	55.047	ug/l	97
20) Methylene Chloride	4.55	84	539446	50.337	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	483641	47.832	ug/l	99
22) Diisopropyl ether	5.95	45	1655840	53.216	ug/l	97
23) Vinyl Acetate	5.89	43	4643161	259.506	ug/l	98
24) 1,1-Dichloroethane	5.85	63	942715	50.986	ug/l	99
25) 2-Butanone	6.83	43	968639	293.786	ug/l	98
26) 2,2-Dichloropropane	6.83	77	424545	30.079	ug/l	95
27) cis-1,2-Dichloroethene	6.83	96	571993	49.968	ug/l	96
28) Bromochloromethane	7.19	49	427118	53.310	ug/l	94
29) Tetrahydrofuran	7.21	42	694889	282.189	ug/l	98
30) Chloroform	7.37	83	921387	50.728	ug/l	99
31) Cyclohexane	7.65	56	833987	48.052	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	759143	49.063	ug/l	99
36) 1,1-Dichloropropene	7.79	75	681057	45.830	ug/l	99
37) Ethyl Acetate	6.93	43	461534	55.634	ug/l	99
38) Carbon Tetrachloride	7.78	117	646827	47.487	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	800586	44.347	ug/l	98
40) Benzene	8.04	78	2132668	48.248	ug/l	99
41) Methacrylonitrile	7.17	41	279265	58.262	ug/l	93
42) 1,2-Dichloroethane	8.12	62	653277	50.028	ug/l	98
43) Isopropyl Acetate	8.16	43	855206	53.340	ug/l	99
44) Trichloroethene	8.83	130	595949	46.613	ug/l	96
45) 1,2-Dichloropropane	9.12	63	571723	49.657	ug/l	99
46) Dibromomethane	9.21	93	334027	49.802	ug/l	98
47) Bromodichloromethane	9.40	83	702308	49.260	ug/l	99
48) Methyl methacrylate	9.20	41	428367	53.213	ug/l	99
49) 1,4-Dioxane	9.20	88	104080	1022.095	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	2199713	273.803	ug/l	99
52) Toluene	10.16	92	1377880	50.291	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	686912	45.819	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	789090	45.855	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	483421	50.576	ug/l	100
56) Ethyl methacrylate	10.43	69	674467	53.312	ug/l	97
57) 1,3-Dichloropropane	10.71	76	824643	50.312	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	1834385	264.111	ug/l	98
59) 2-Hexanone	10.75	43	1485233	273.241	ug/l	99
60) Dibromochloromethane	10.90	129	542104	49.547	ug/l	100
61) 1,2-Dibromoethane	11.00	107	491318	50.613	ug/l	99
64) Tetrachloroethene	10.63	164	691815	46.146	ug/l	99
65) Chlorobenzene	11.43	112	1541048	50.231	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	521895	48.919	ug/l	99
67) Ethyl Benzene	11.51	91	3011622	57.081	ug/l	100
68) m/p-Xylenes	11.62	106	3697381	184.342	ug/l	99
69) o-Xylene	11.95	106	1367033	71.027	ug/l	100
70) Styrene	11.96	104	1570223	50.033	ug/l	96
71) Bromoform	12.13	173	382198	49.590	ug/l #	100
73) Isopropylbenzene	12.25	105	2469562	47.060	ug/l	100
74) N-amyl acetate	12.07	43	762168	52.313	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	533628	51.833	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	480326m	42.542	ug/l	
77) Bromobenzene	12.53	156	685957	50.287	ug/l	92
78) n-propylbenzene	12.59	91	2809757	47.013	ug/l	100
79) 2-Chlorotoluene	12.67	91	1654837	44.670	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	2044337	47.795	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	151732	43.315	ug/l	95
82) 4-Chlorotoluene	12.77	91	1693246	46.692	ug/l	99
83) tert-Butylbenzene	12.99	119	1752261	46.321	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2176234	50.611	ug/l	100
85) sec-Butylbenzene	13.17	105	2364431	46.210	ug/l	100
86) p-Isopropyltoluene	13.29	119	2118238	47.910	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	1156267	47.893	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1265861	51.775	ug/l	99
89) n-Butylbenzene	13.62	91	1739656	45.736	ug/l	99
90) Hexachloroethane	13.88	117	317438	46.787	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	1114568	49.052	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	92078	51.727	ug/l	98

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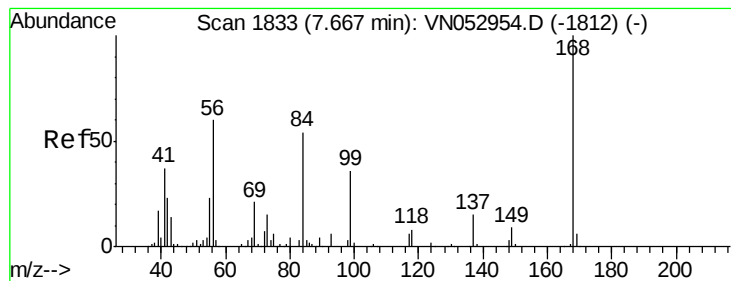
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	605458	50.291	ug/l	100
94) Hexachlorobutadiene	15.01	225	329546	53.045	ug/l	99
95) Naphthalene	15.13	128	1464203	55.398	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	547610	50.510	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion:168 Resp: 987375

Ion Ratio Lower Upper

168 100

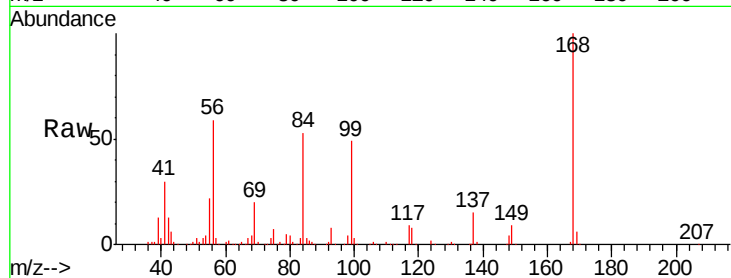
99 49.3 40.2 60.2

Manual Integrations

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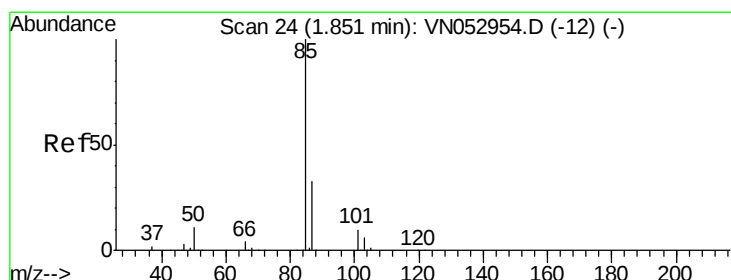
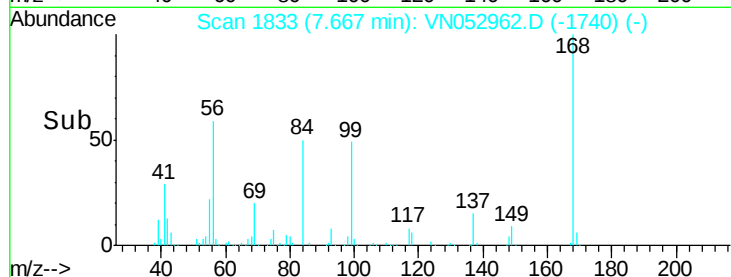
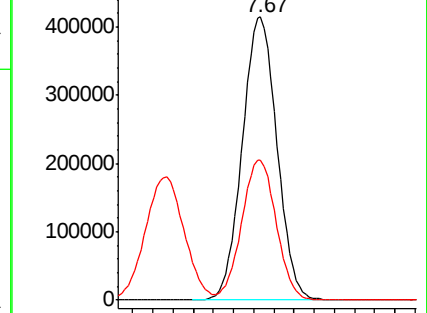
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 47.389 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052962.D

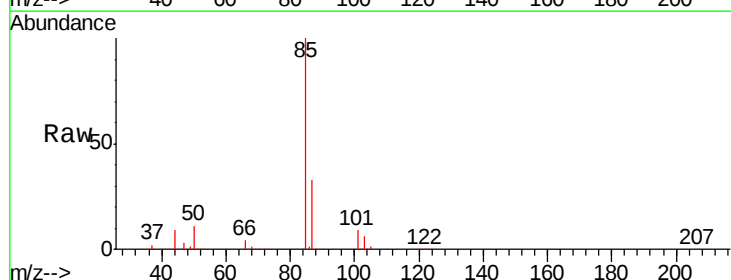
Acq: 18 Dec 2018 15:44

Tgt Ion: 85 Resp: 473557

Ion Ratio Lower Upper

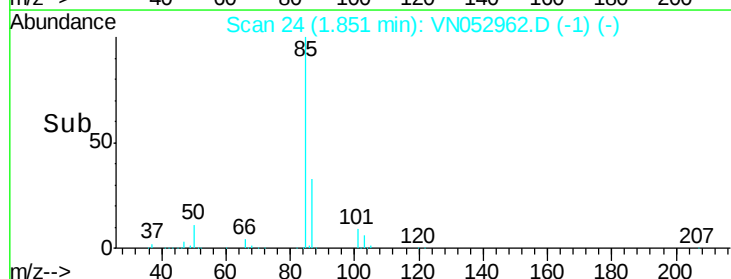
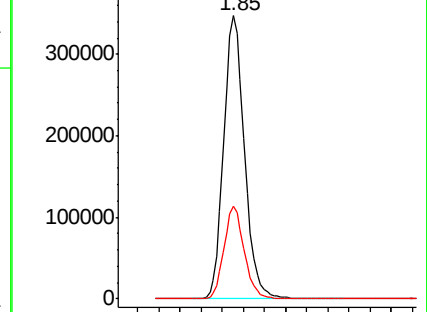
85 100

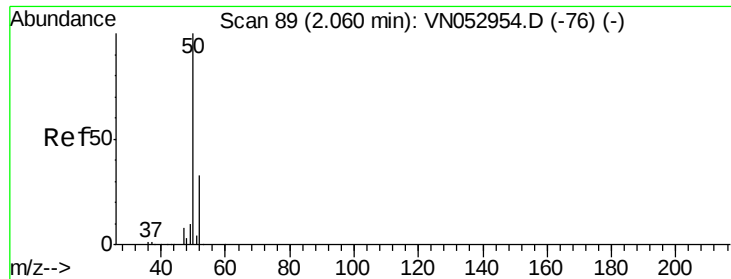
87 32.6 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 49.784 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion: 50 Resp: 602853

Ion Ratio Lower Upper

50 100

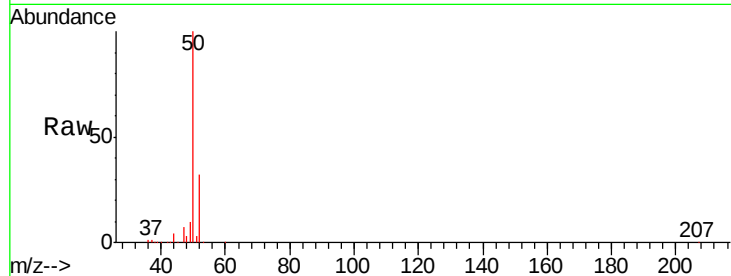
52 32.4 26.2 39.4

Manual Integrations

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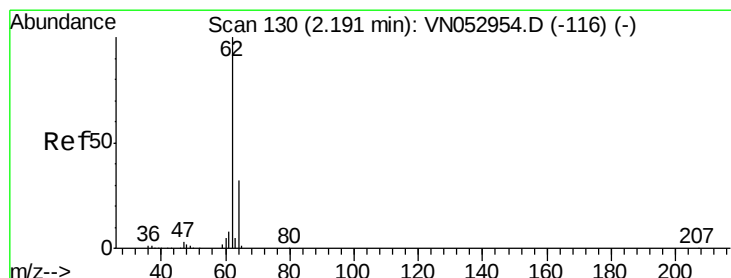
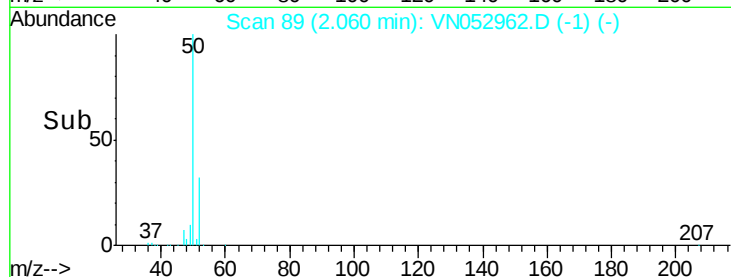
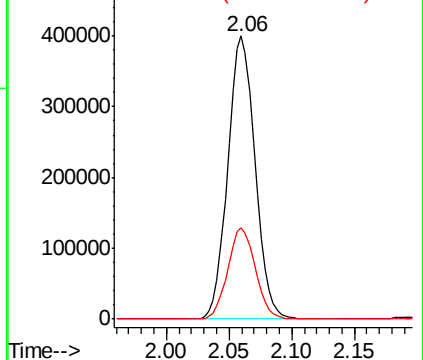
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 48.163 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052962.D

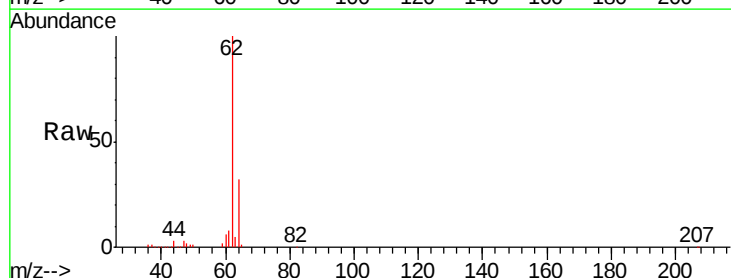
Acq: 18 Dec 2018 15:44

Tgt Ion: 62 Resp: 590675

Ion Ratio Lower Upper

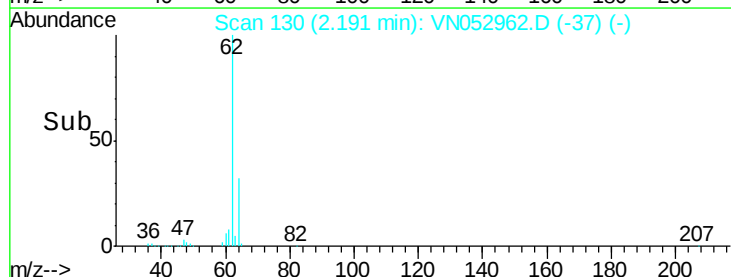
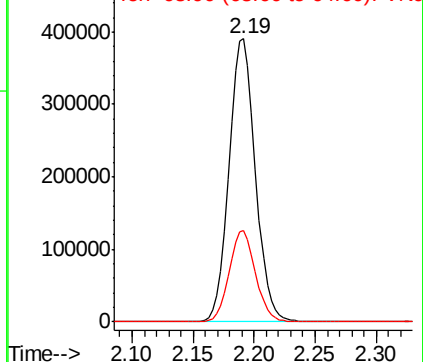
62 100

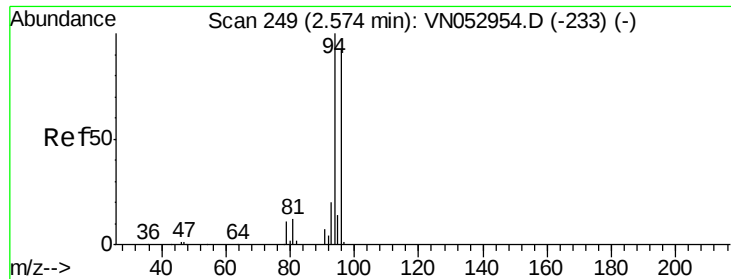
64 32.1 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 44.552 ug/l

RT: 2.56 min Scan# 246

Delta R.T. -0.01 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

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Tgt Ion: 94 Resp: 378551

Ion Ratio Lower Upper

94 100

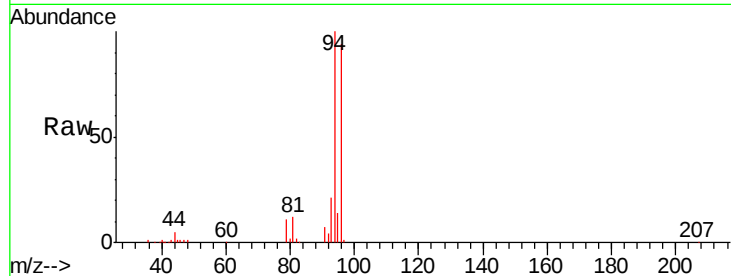
96 93.6 75.0 112.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

200000

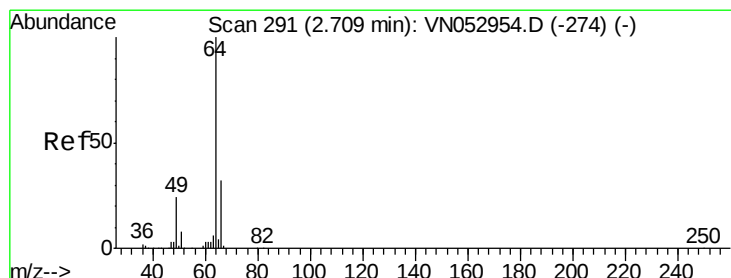
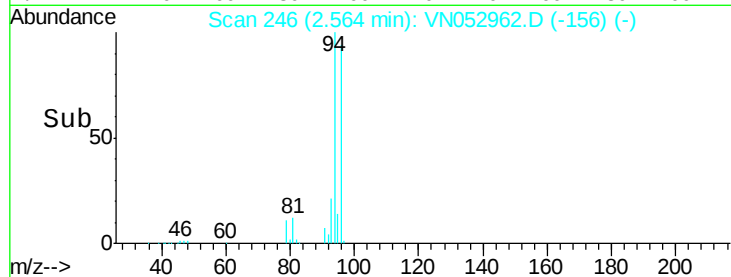
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 48.192 ug/l

RT: 2.71 min Scan# 290

Delta R.T. -0.00 min

Lab File: VN052962.D

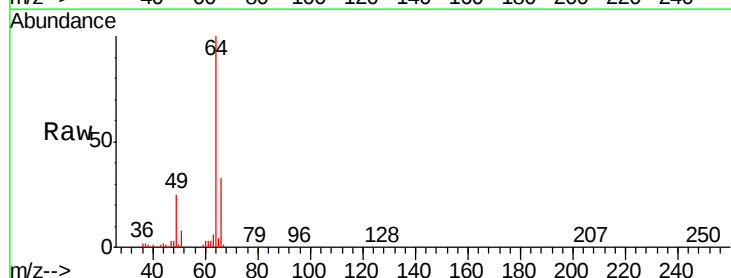
Acq: 18 Dec 2018 15:44

Tgt Ion: 64 Resp: 350039

Ion Ratio Lower Upper

64 100

66 33.2 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.71

200000

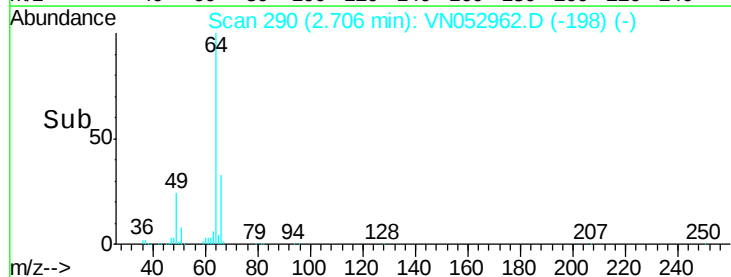
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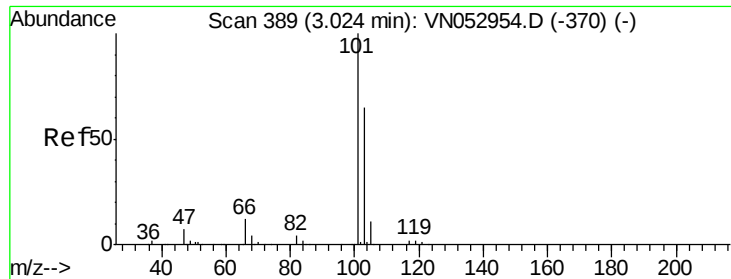
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50000

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Time-->





#7

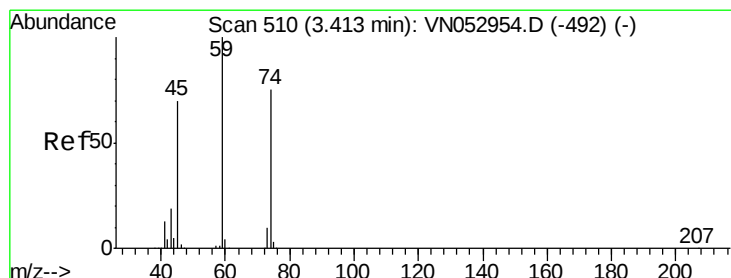
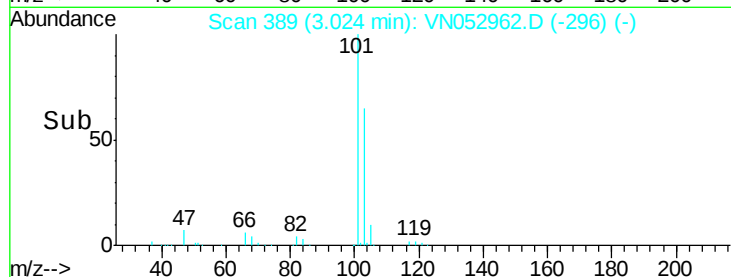
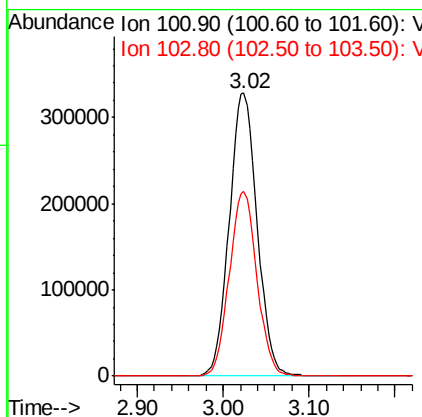
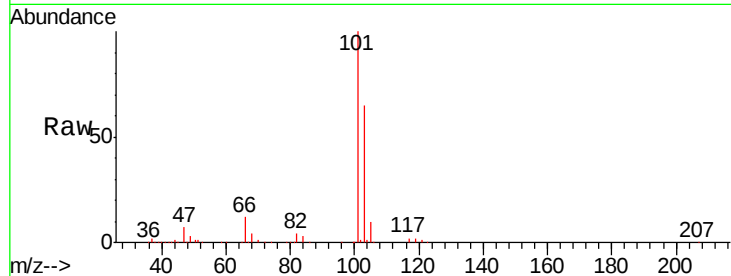
Trichlorofluoromethane
Concen: 48.409 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

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Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.2	51.8	77.6

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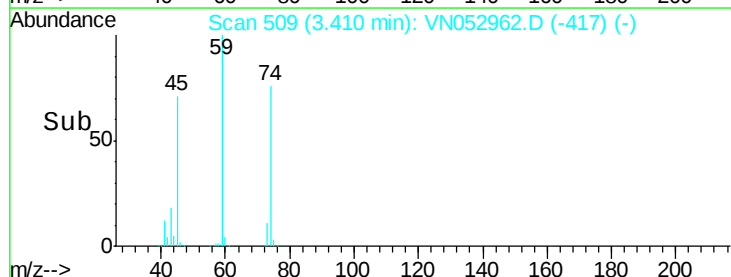
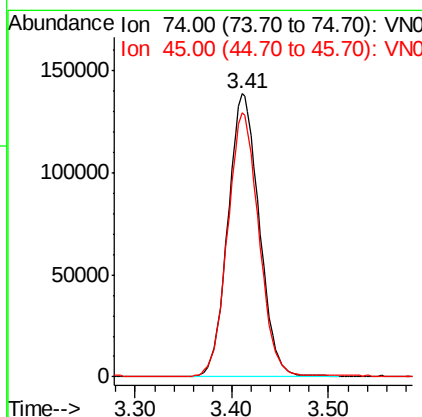
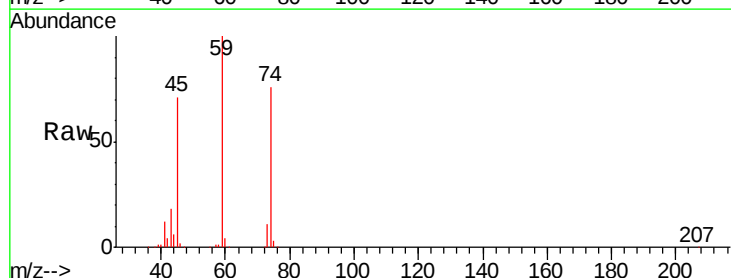
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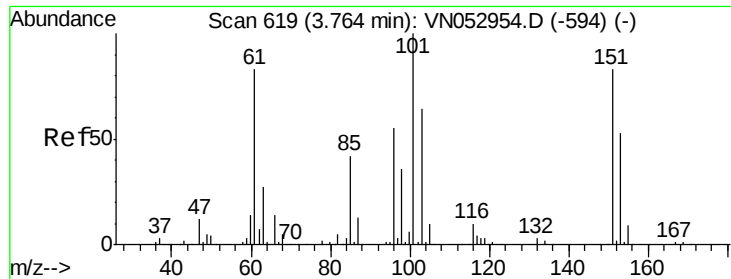


#8

Diethyl Ether
Concen: 54.048 ug/l
RT: 3.41 min Scan# 509
Delta R.T. -0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion	Ratio	Lower	Upper
74	100		
45	92.8	49.4	148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.297 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

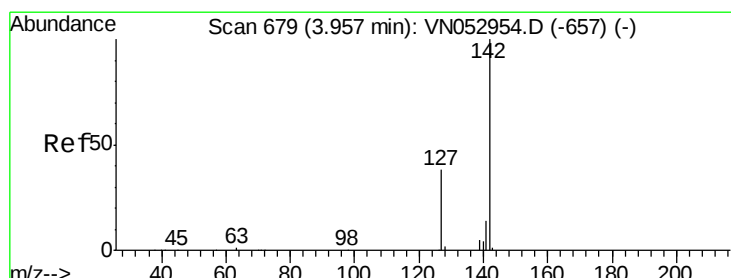
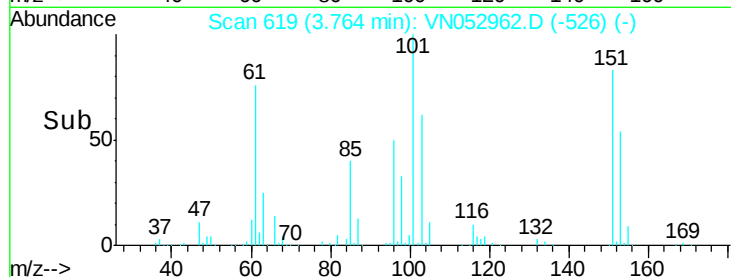
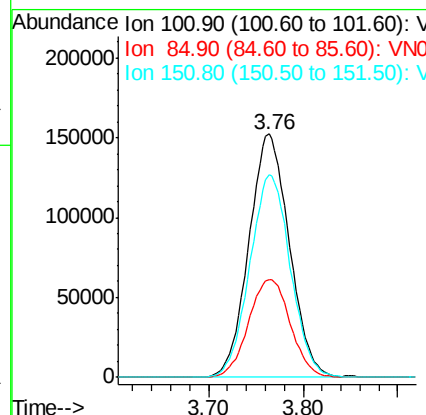
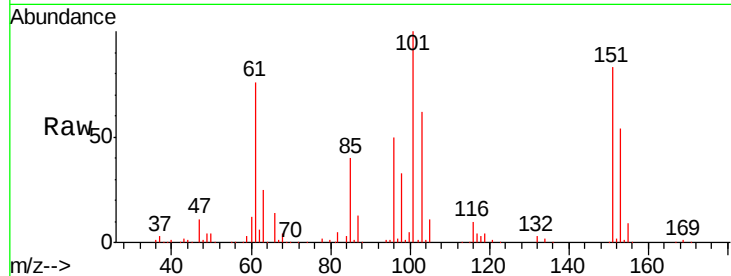
ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion:	101	Resp:	450985
Ion Ratio	Lower	Upper	
101	100		
85	41.5	33.6	50.4
151	83.7	65.5	98.3

Manual Integrations
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#10

Methyl Iodide

Concen: 51.900 ug/l

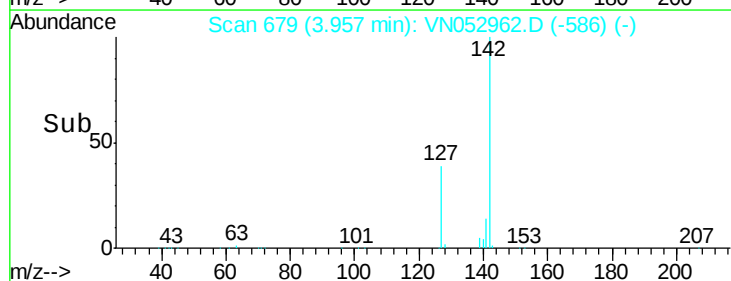
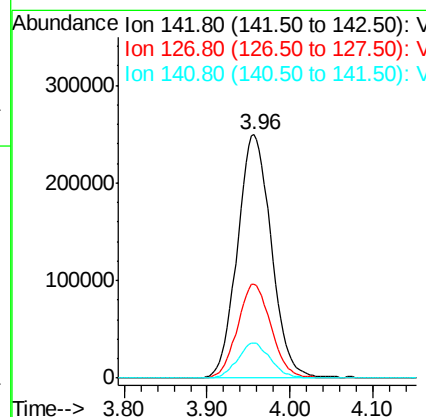
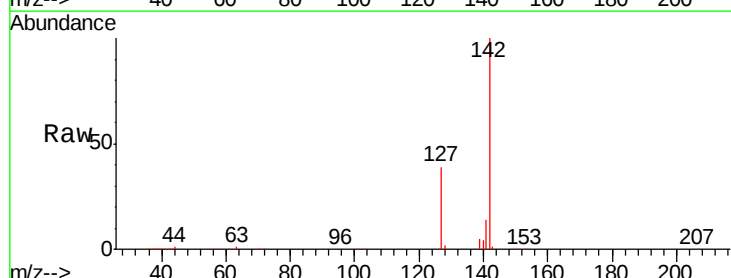
RT: 3.96 min Scan# 679

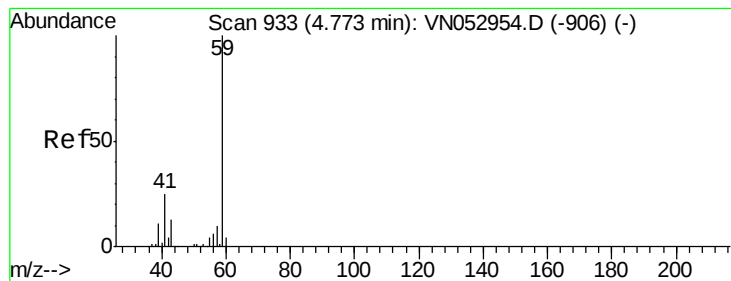
Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Tgt Ion:	142	Resp:	709972
Ion Ratio	Lower	Upper	
142	100		
127	38.4	31.0	46.6
141	14.1	11.2	16.8





#11

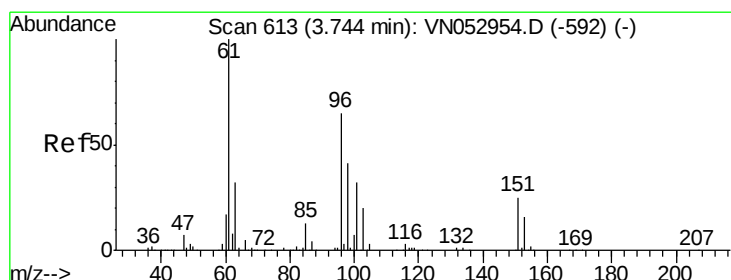
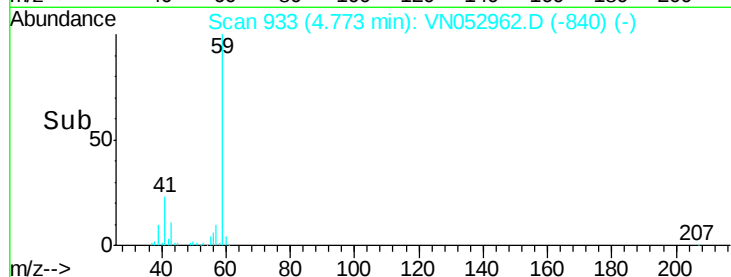
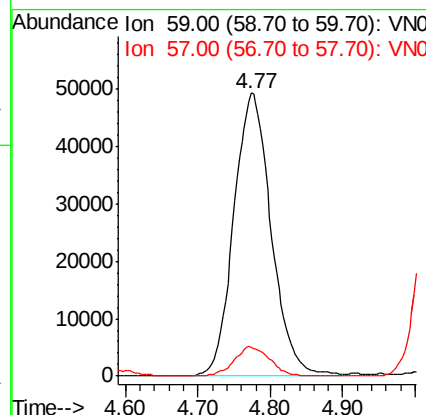
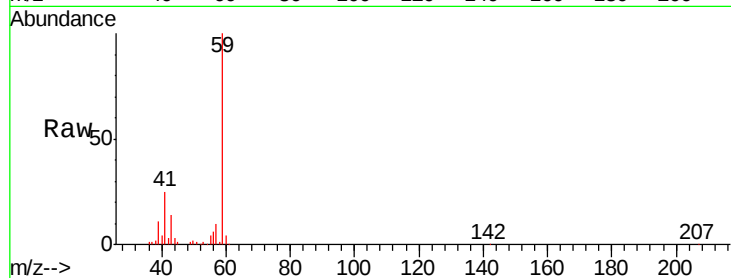
Tert butyl alcohol
Concen: 289.025 ug/l
RT: 4.77 min Scan# 933
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion: 59 Resp: 176704
Ion Ratio Lower Upper
59 100
57 9.8 7.7 11.5

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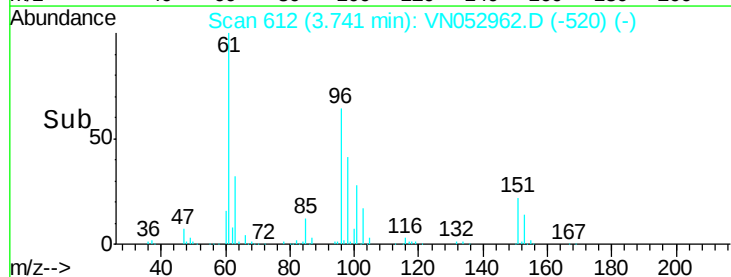
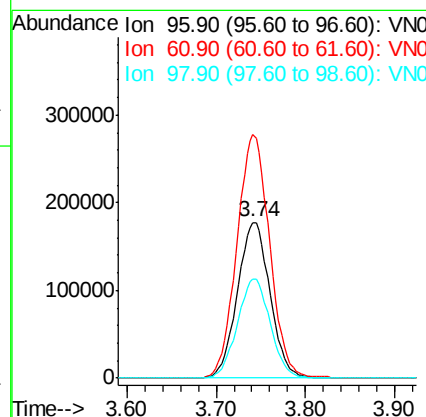
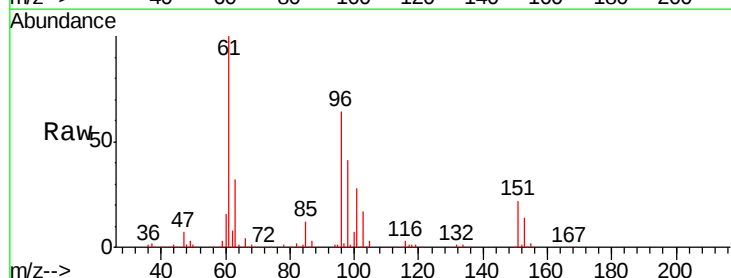
MMDadoda
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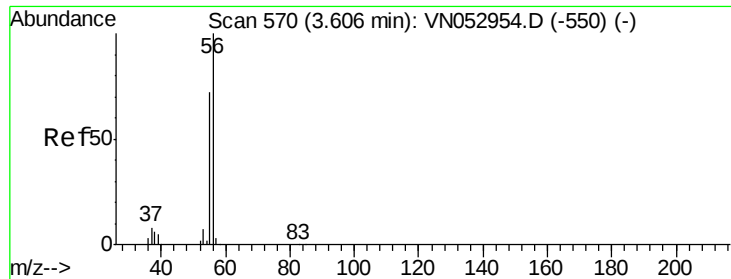


#12

1,1-Dichloroethene
Concen: 48.028 ug/l
RT: 3.74 min Scan# 612
Delta R.T. -0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion: 96 Resp: 451992
Ion Ratio Lower Upper
96 100
61 156.5 125.6 188.4
98 63.8 50.6 75.8





#13

Acrolein

Concen: 247.235 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion: 56 Resp: 137058

Ion Ratio Lower Upper

56 100

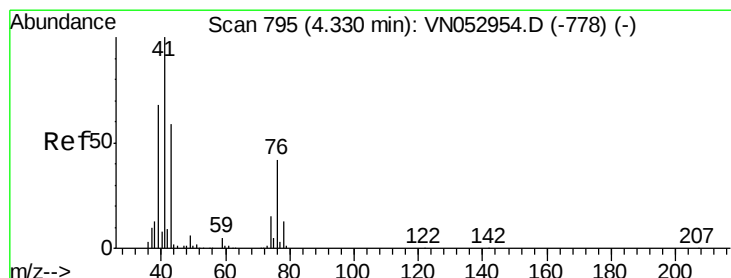
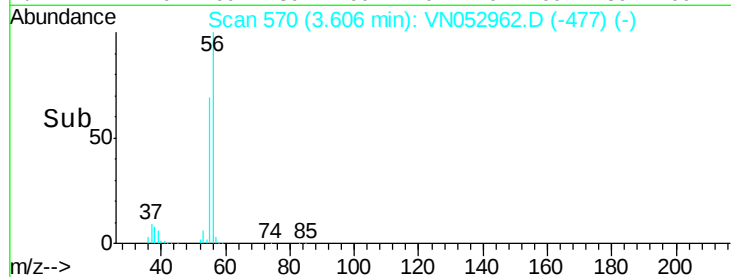
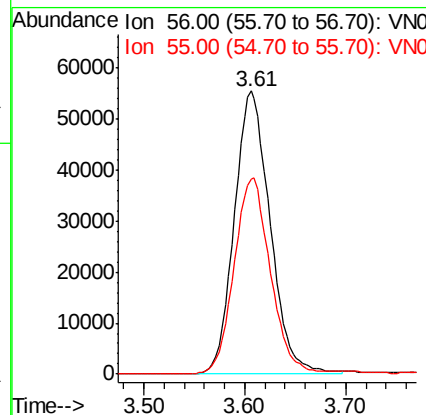
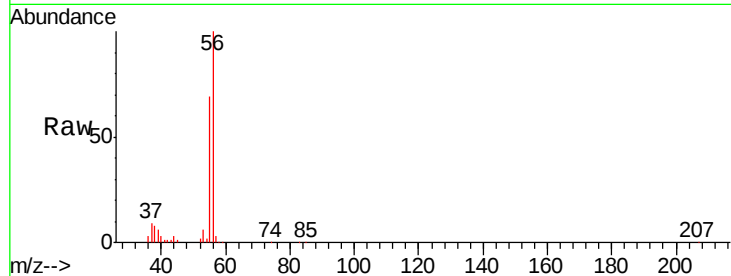
55 70.1 56.6 85.0

Manual Integrations

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#14

Allyl chloride

Concen: 50.426 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

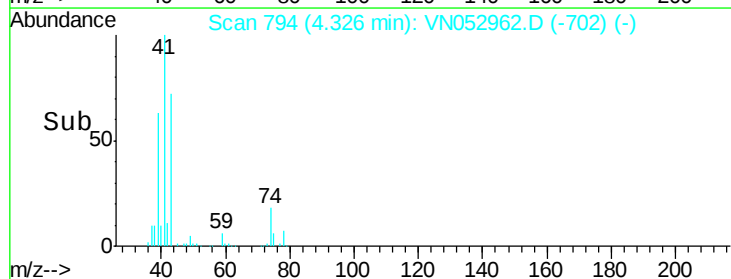
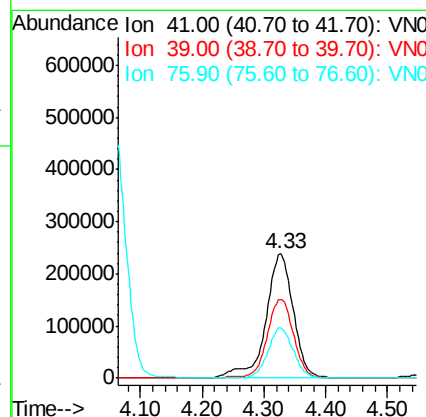
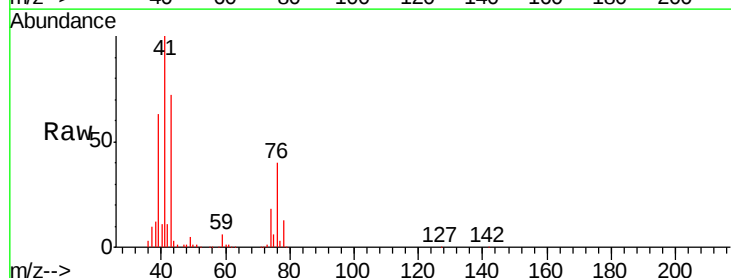
Tgt Ion: 41 Resp: 735078

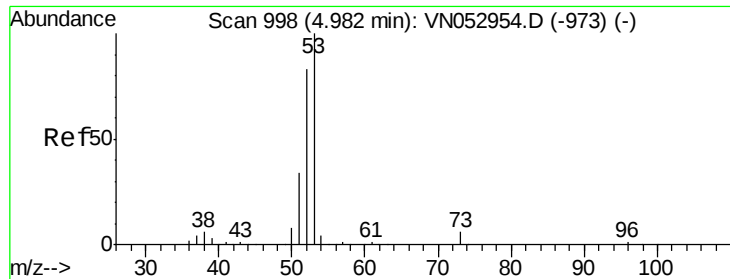
Ion Ratio Lower Upper

41 100

39 61.4 54.1 81.1

76 36.1 30.3 45.5





#15

Acrylonitrile

Concen: 272.483 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

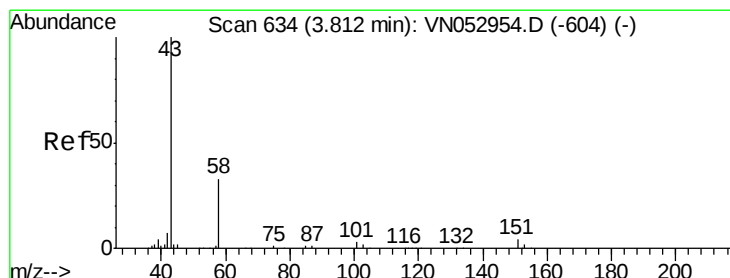
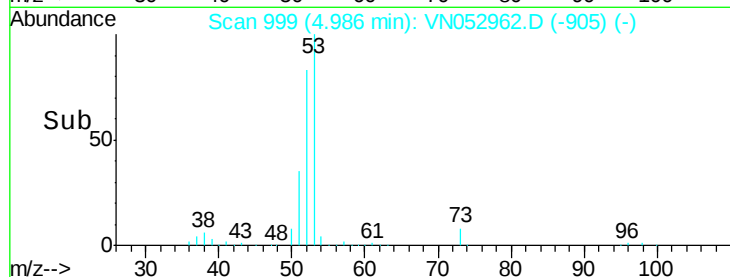
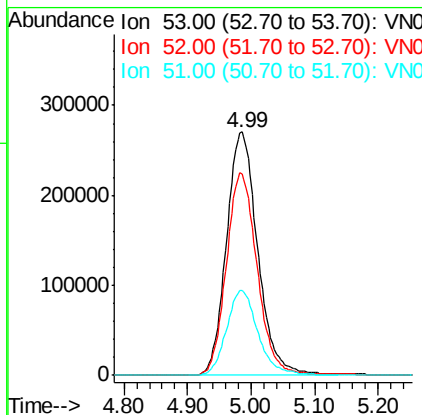
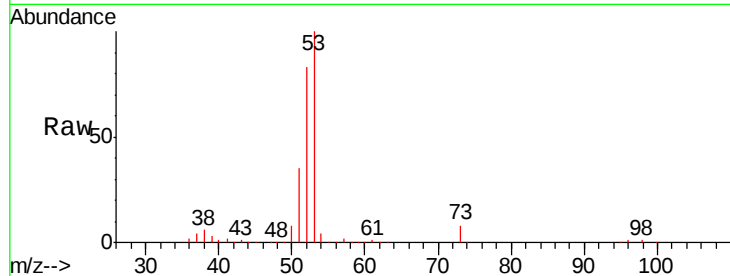
ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion:	53	Resp:	925496
Ion	Ratio	Lower	Upper
53	100		
52	81.7	65.1	97.7
51	35.1	28.1	42.1

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#16

Acetone

Concen: 302.233 ug/l

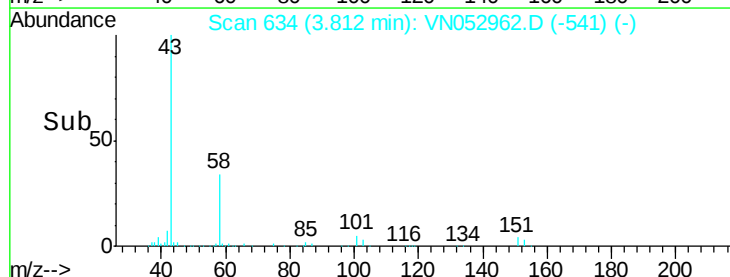
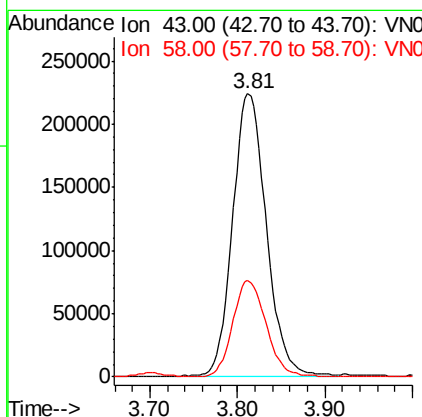
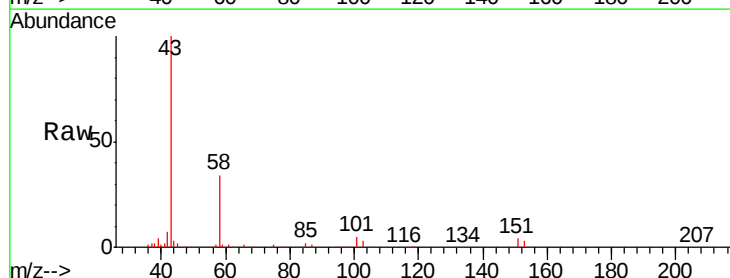
RT: 3.81 min Scan# 634

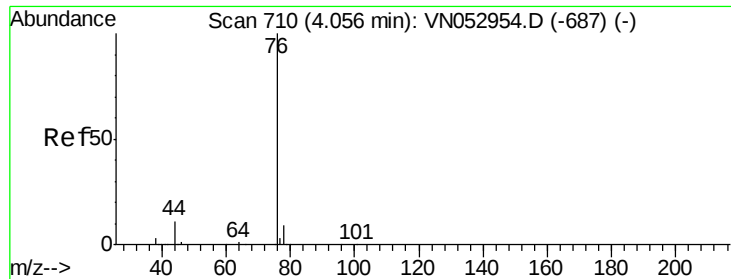
Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Tgt Ion:	43	Resp:	593769
Ion	Ratio	Lower	Upper
43	100		
58	33.9	25.4	38.0





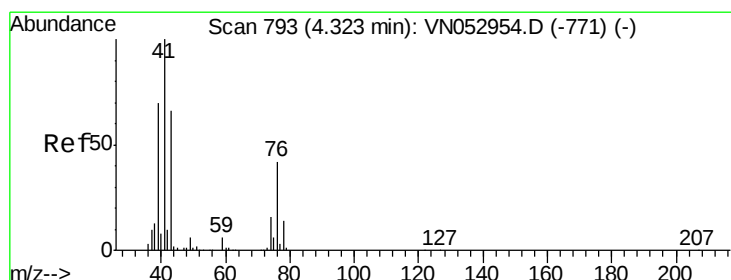
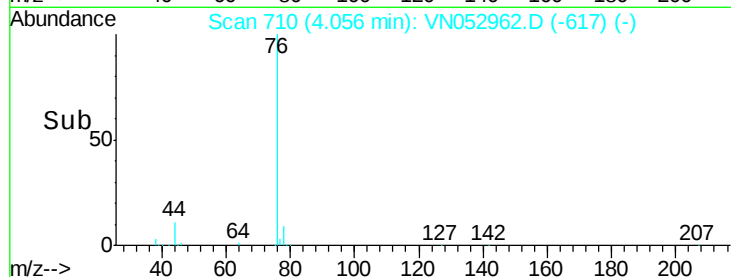
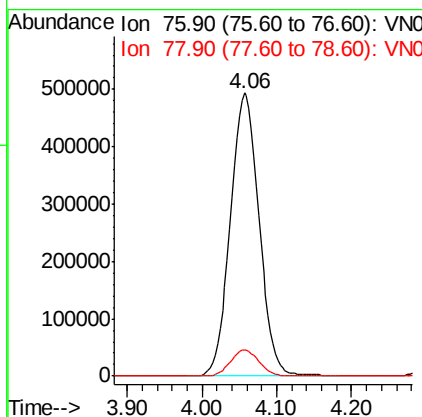
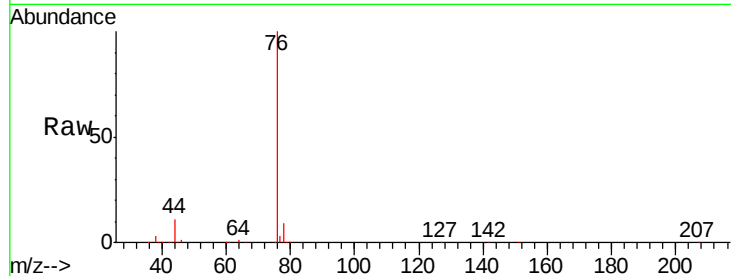
#17
Carbon Disulfide
Concen: 42.933 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion: 76 Resp: 1317690
Ion Ratio Lower Upper
76 100
78 9.4 7.1 10.7

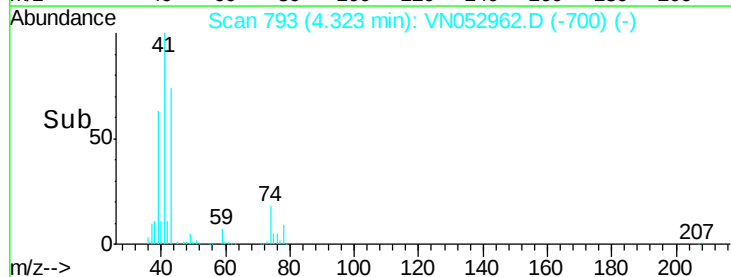
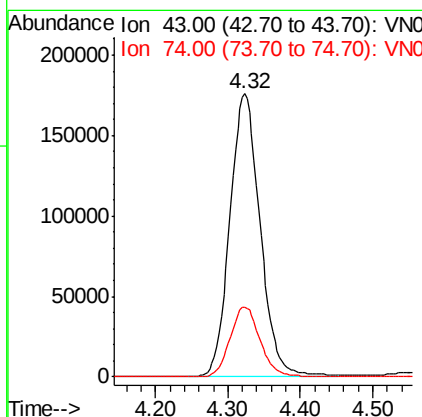
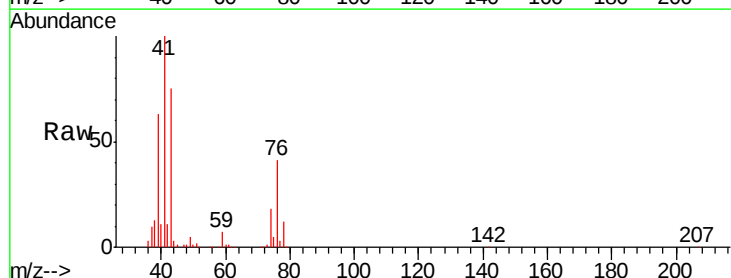
Manual Integrations
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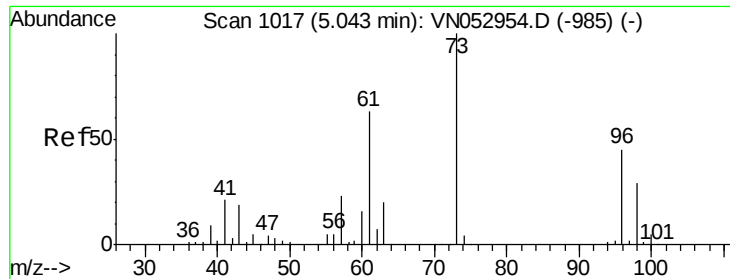
MMDadoda
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#18
Methyl Acetate
Concen: 56.974 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion: 43 Resp: 509284
Ion Ratio Lower Upper
43 100
74 24.7 19.2 28.8





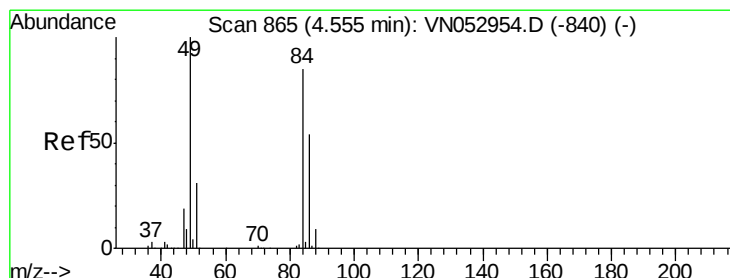
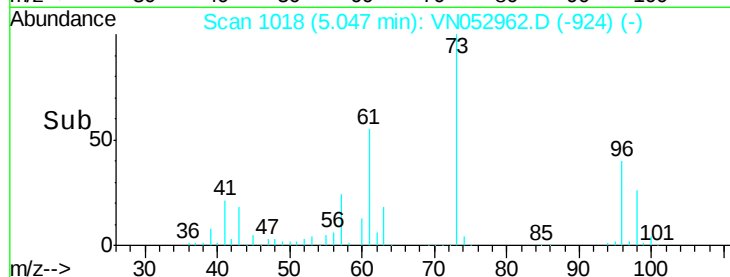
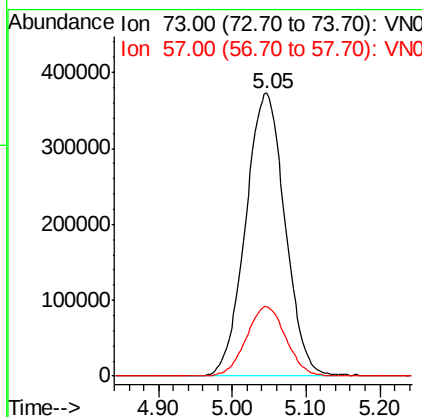
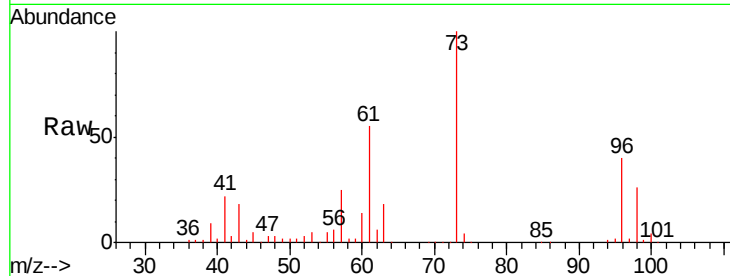
#19
Methyl tert-butyl Ether
Concen: 55.047 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion: 73 Resp: 1386328
Ion Ratio Lower Upper
73 100
57 24.6 18.4 27.6

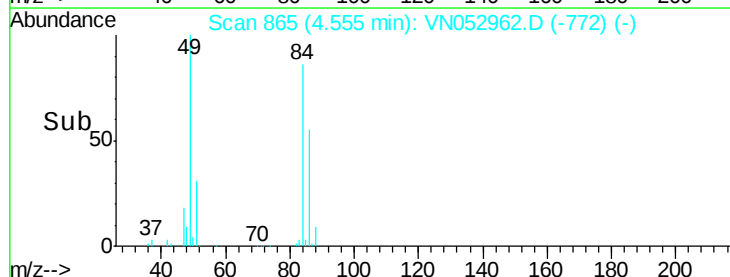
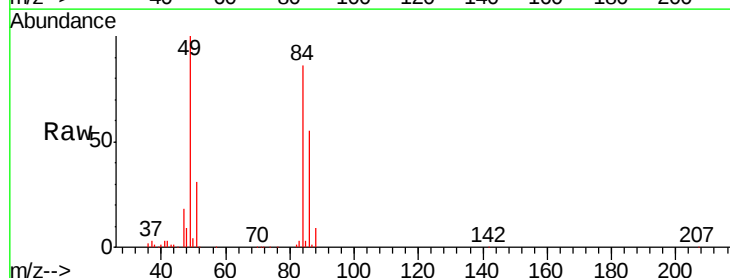
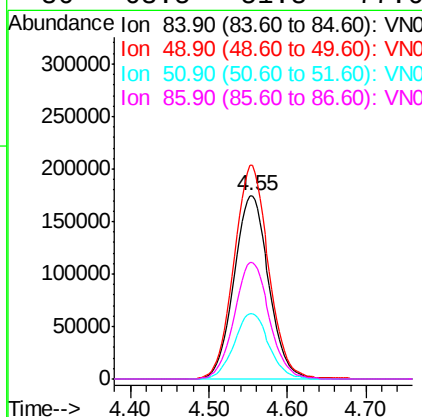
Manual Integrations
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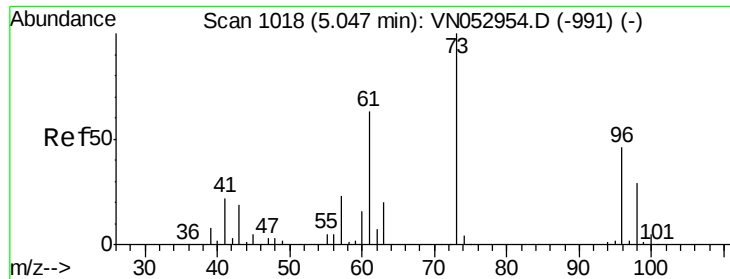
MMDadoda
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#20
Methylene Chloride
Concen: 50.337 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion: 84 Resp: 539446
Ion Ratio Lower Upper
84 100
49 116.1 96.8 145.2
51 35.6 29.9 44.9
86 63.5 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 47.832 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

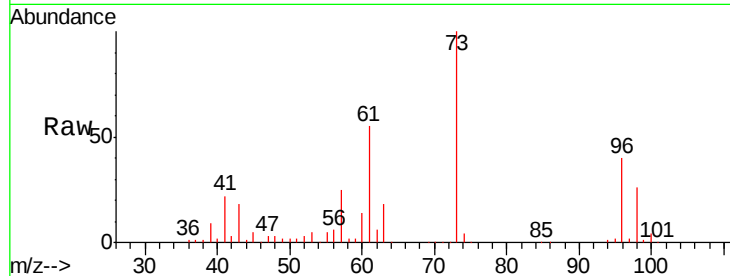
ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion:	96	Resp:	483641
Ion	Ratio	Lower	Upper
96	100		
61	137.6	110.8	166.2
98	63.8	51.4	77.2

Manual Integrations
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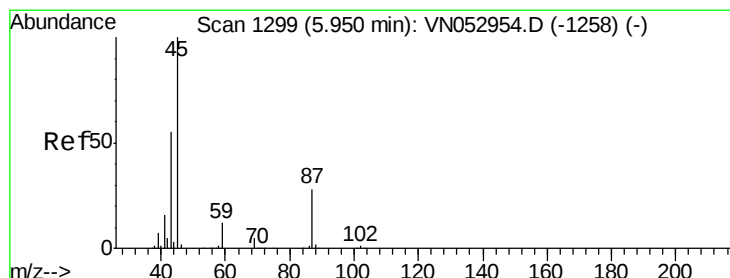
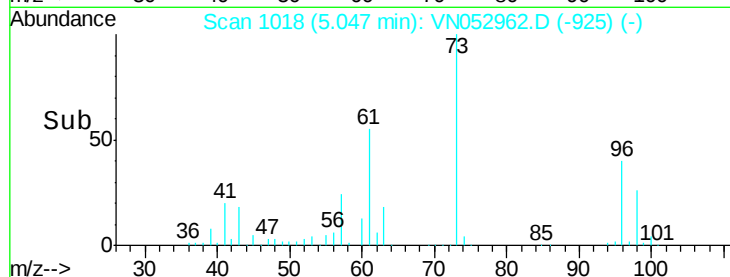
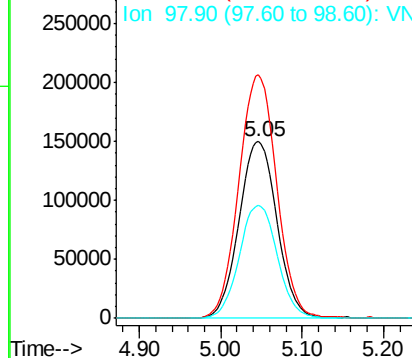


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 53.216 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Tgt Ion:	45	Resp:	1655840
Ion	Ratio	Lower	Upper
45	100		
43	54.7	45.5	68.3
87	28.7	22.0	33.0
59	12.0	9.4	14.0

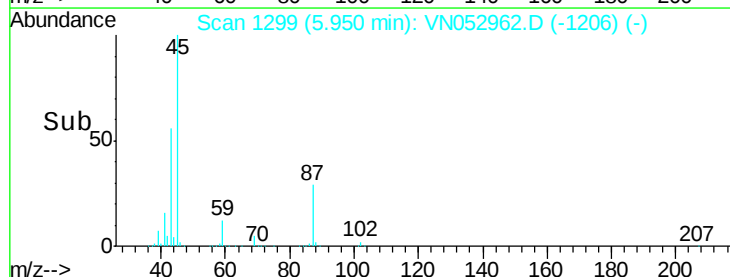
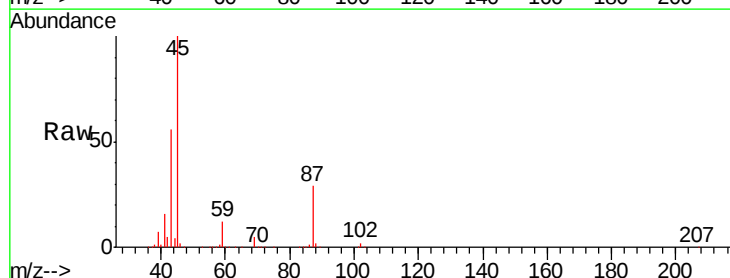
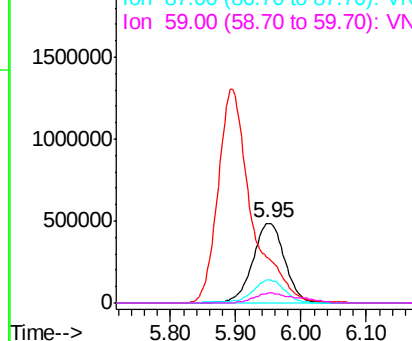
Abundance

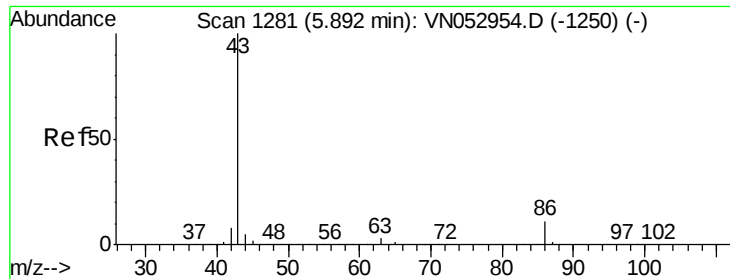
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





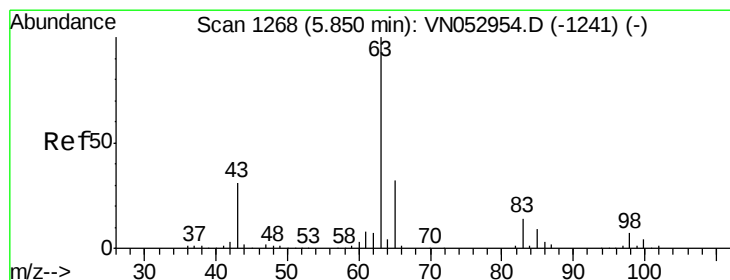
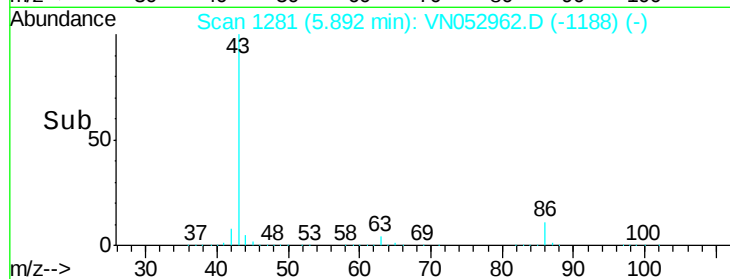
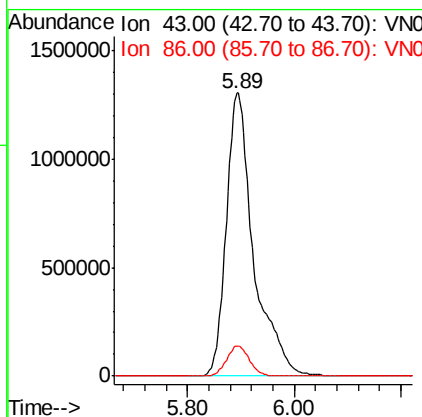
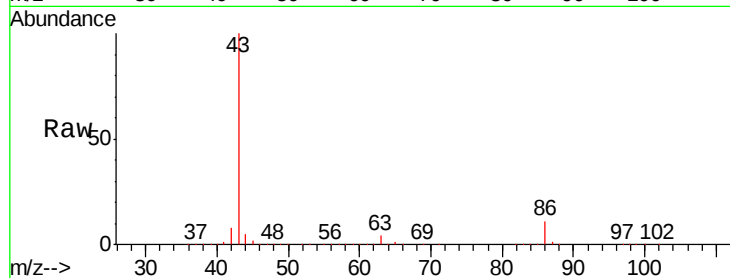
#23
 Vinyl Acetate
 Concen: 259.506 ug/l
 RT: 5.89 min Scan# 1281
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-SD012-0612-01MSD

Tgt Ion: 43 Resp: 4643161
 Ion Ratio Lower Upper
 43 100
 86 10.7 8.1 12.1

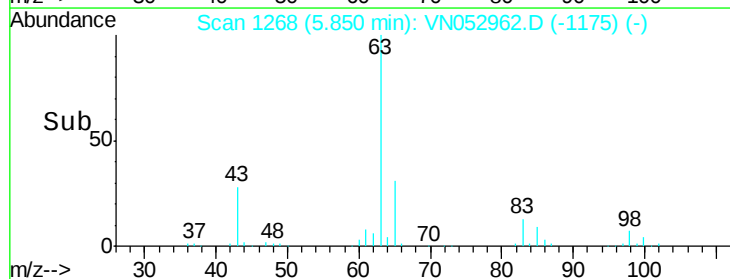
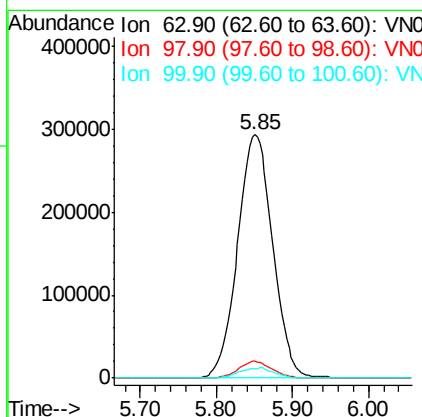
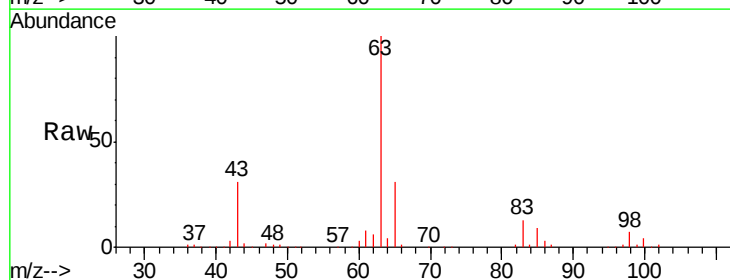
Manual Integrations
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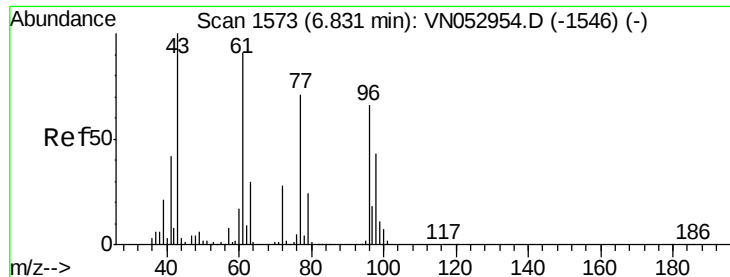
MMDadoda
 12/19/2018 12:06:45 PM



#24
 1,1-Dichloroethane
 Concen: 50.986 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Tgt Ion: 63 Resp: 942715
 Ion Ratio Lower Upper
 63 100
 98 7.0 3.1 9.4
 100 3.8 2.0 5.8





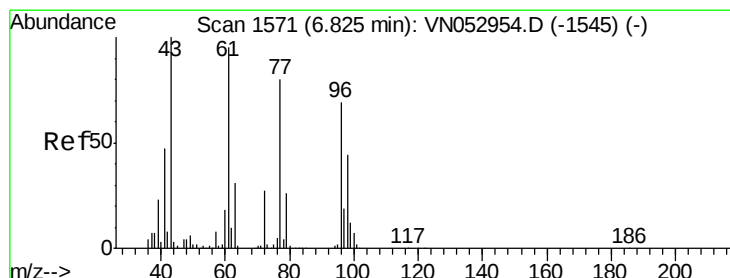
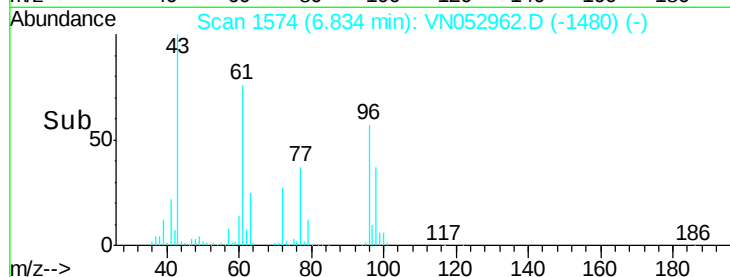
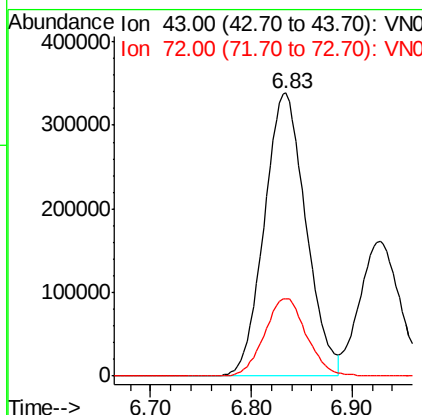
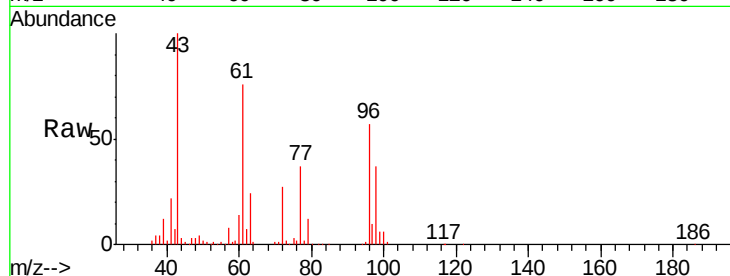
#25
2-Butanone
Concen: 293.786 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion: 43 Resp: 968639
Ion Ratio Lower Upper
43 100
72 27.4 21.0 31.6

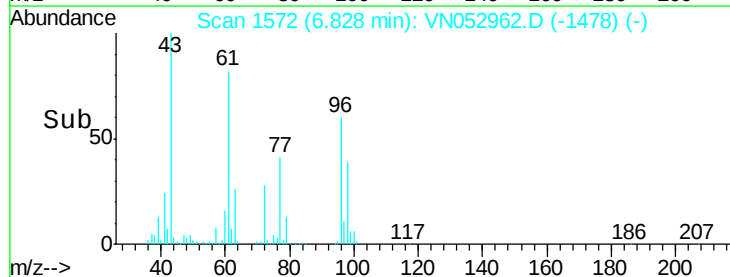
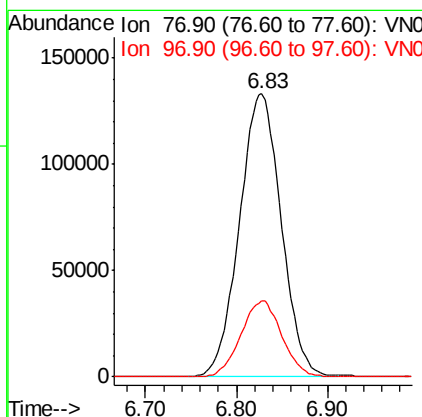
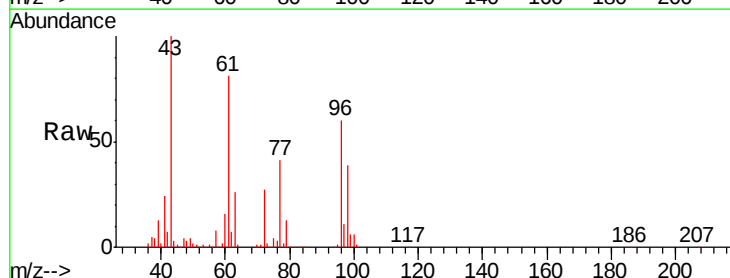
Manual Integrations
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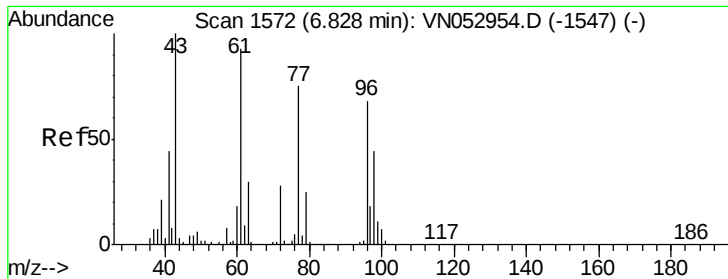
MMDadoda
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#26
2,2-Dichloropropane
Concen: 30.079 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion: 77 Resp: 424545
Ion Ratio Lower Upper
77 100
97 26.4 11.9 35.9





#27

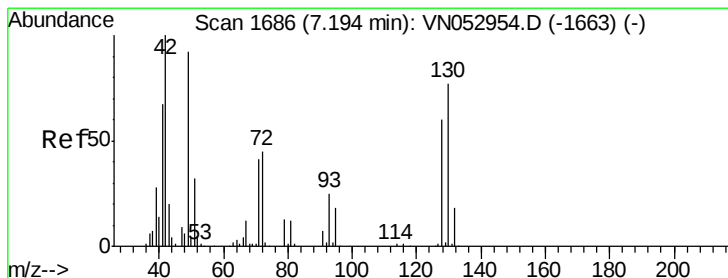
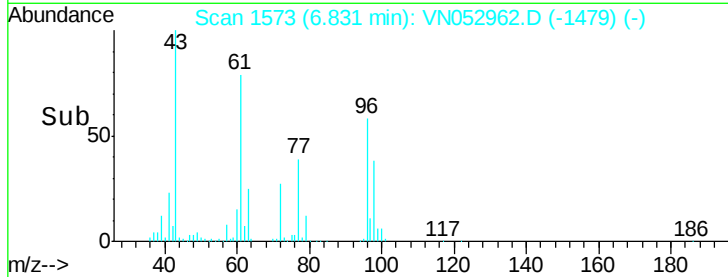
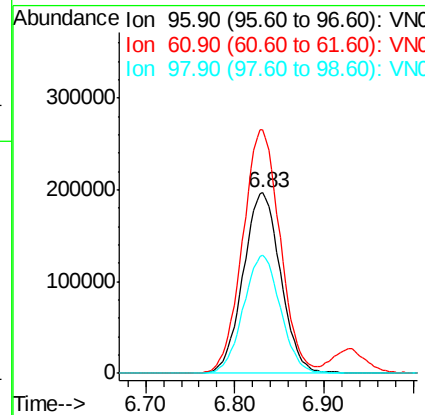
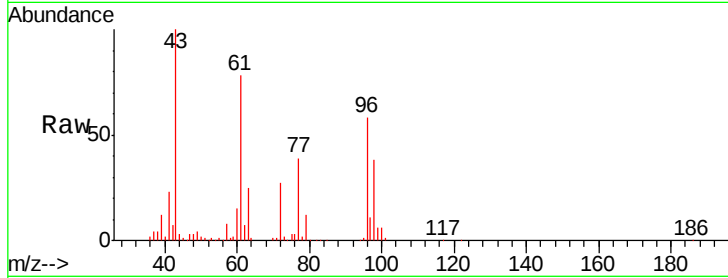
cis-1,2-Dichloroethene
Concen: 49.968 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	571993		
61	135.0	0.0	284.2	
98	65.0	0.0	129.2	

Manual Integrations
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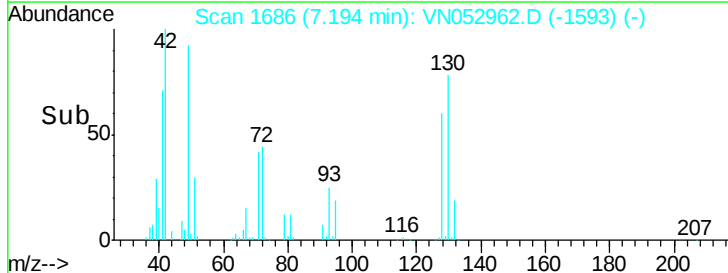
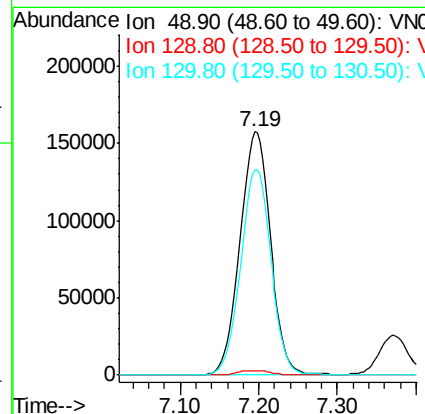
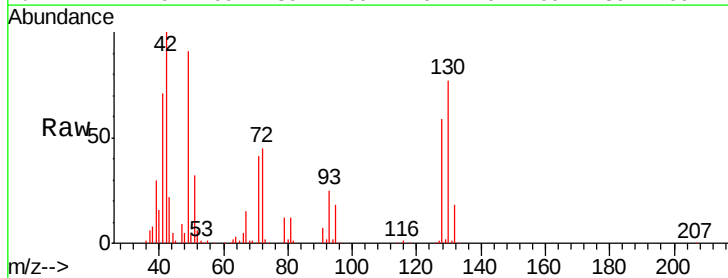
MMDadoda
12/19/2018 12:06:45 PM



#28

Bromochloromethane
Concen: 53.310 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	427118		
129	1.0	0.0	4.0	
130	84.3	63.3	94.9	





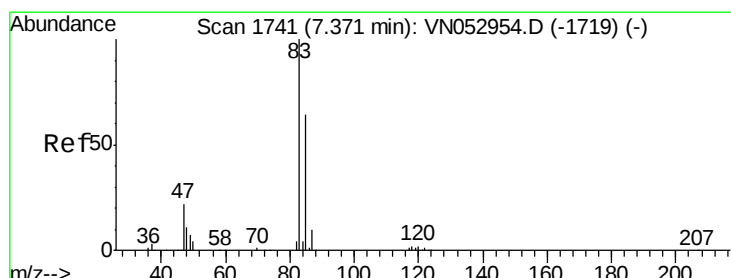
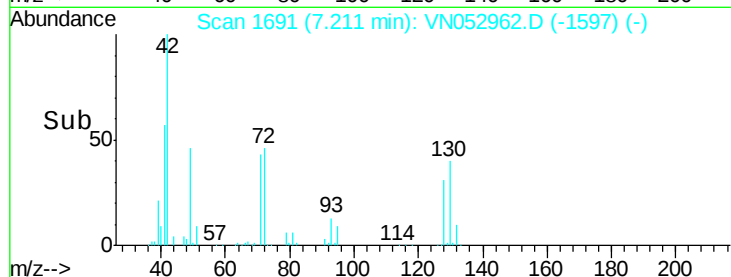
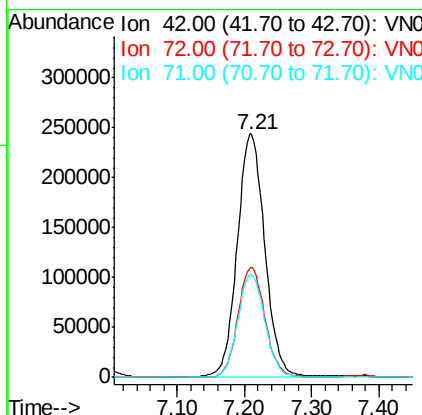
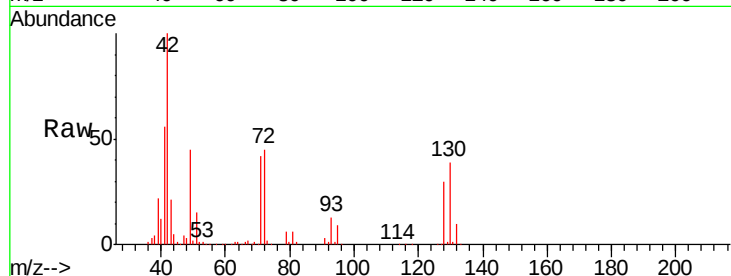
#29
Tetrahydrofuran
Concen: 282.189 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion: 42 Resp: 694889
Ion Ratio Lower Upper
42 100
72 44.3 34.7 52.1
71 41.7 32.3 48.5

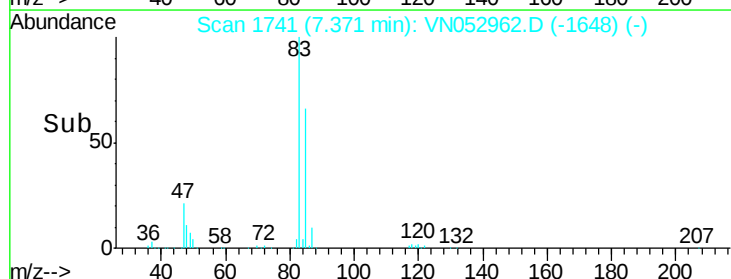
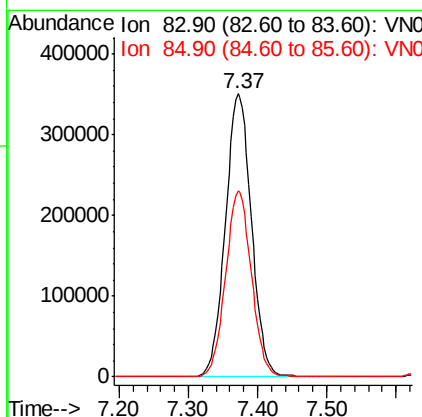
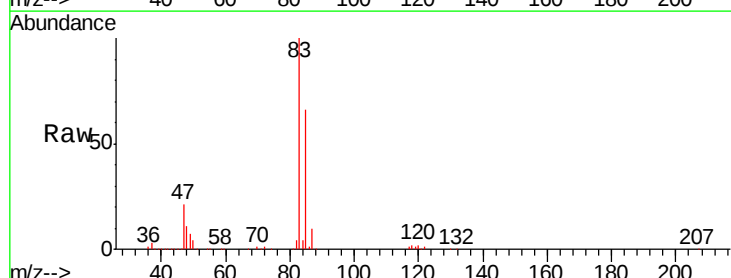
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#30
Chloroform
Concen: 50.728 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion: 83 Resp: 921387
Ion Ratio Lower Upper
83 100
85 65.8 52.1 78.1





#31

Cyclohexane

Concen: 48.052 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion: 56 Resp: 833987
Ion Ratio Lower Upper

56 100

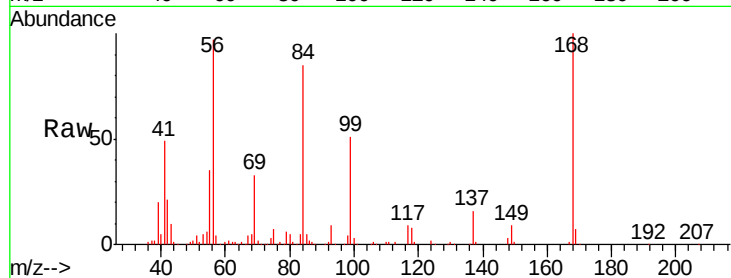
69 33.6 26.6 39.8

84 85.8 68.4 102.6

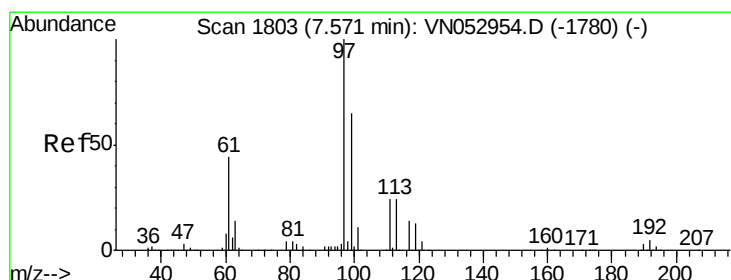
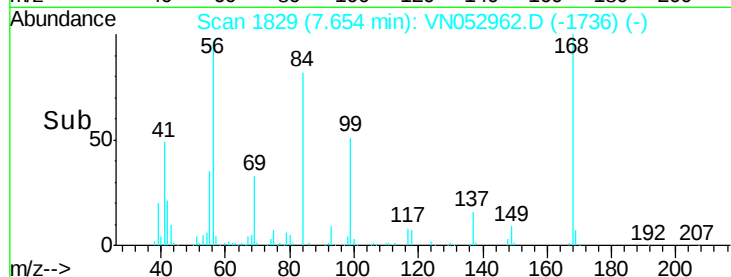
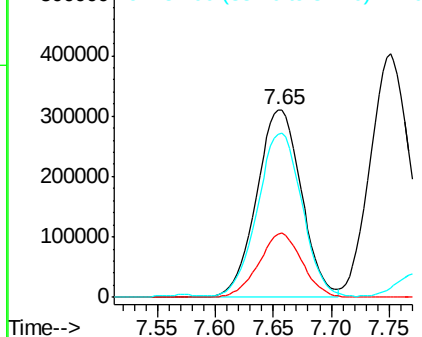
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Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO



#32

1,1,1-Trichloroethane

Concen: 49.063 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN052962.D

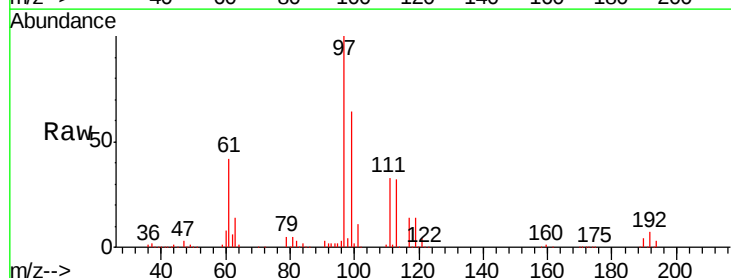
Acq: 18 Dec 2018 15:44

Tgt Ion: 97 Resp: 759143
Ion Ratio Lower Upper

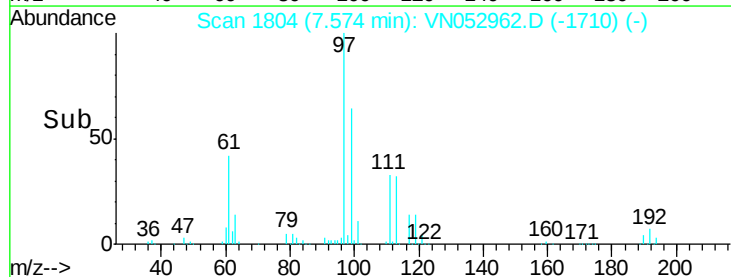
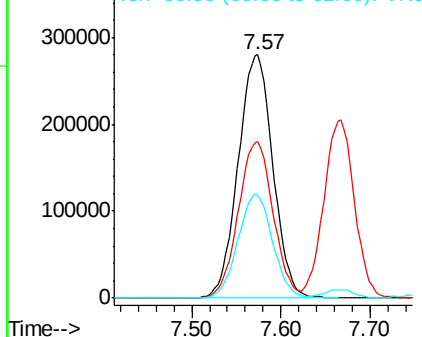
97 100

99 64.3 51.1 76.7

61 42.6 35.0 52.6



Abundance Ion 96.90 (96.60 to 97.60): VNO
Ion 98.90 (98.60 to 99.60): VNO
Ion 60.90 (60.60 to 61.60): VNO





#33

1,2-Dichloroethane-d4

Concen: 49.063 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion: 65 Resp: 533694

Ion Ratio Lower Upper

65 100

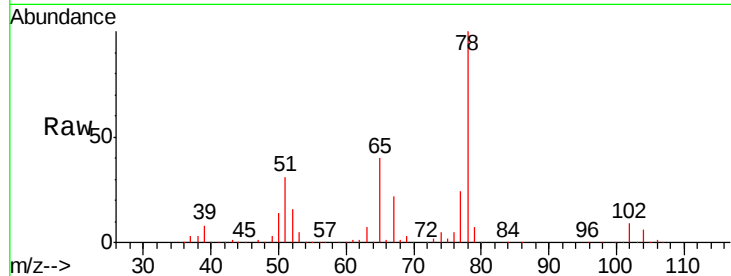
67 55.6 0.0 110.4

Manual Integrations

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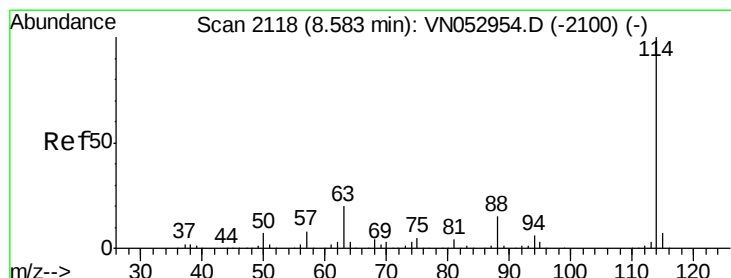
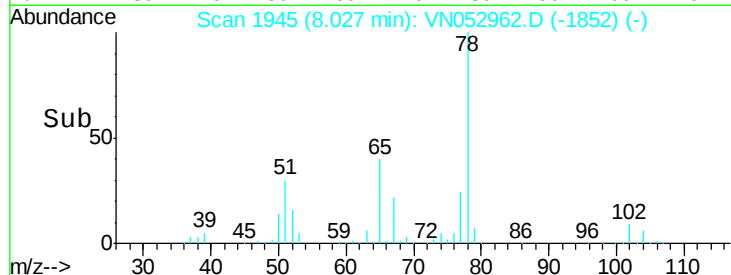
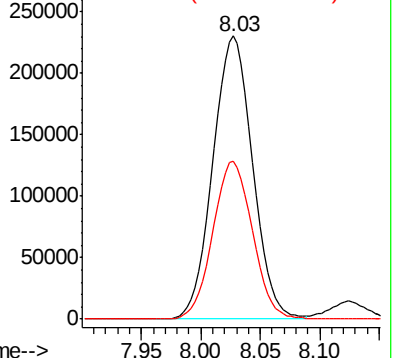
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Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

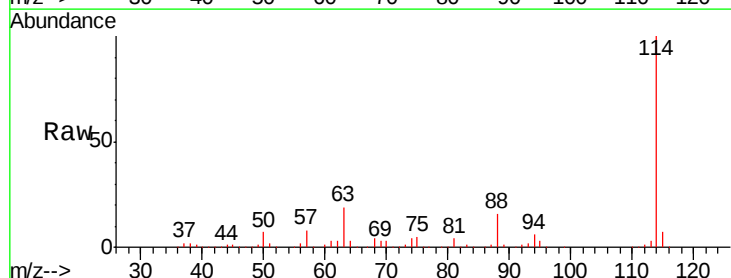
Tgt Ion: 114 Resp: 1548254

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.8

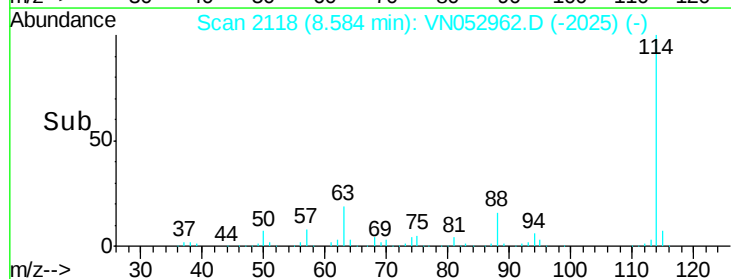
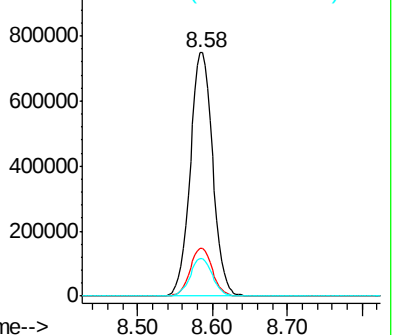
88 15.6 0.0 31.0

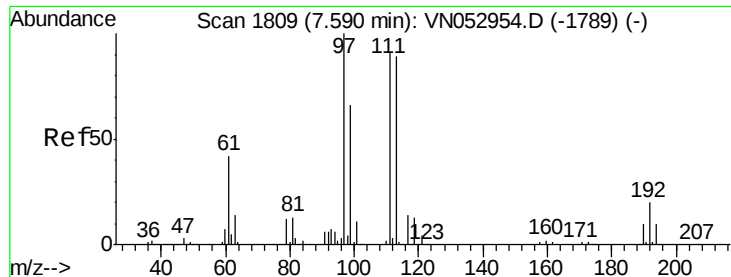


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





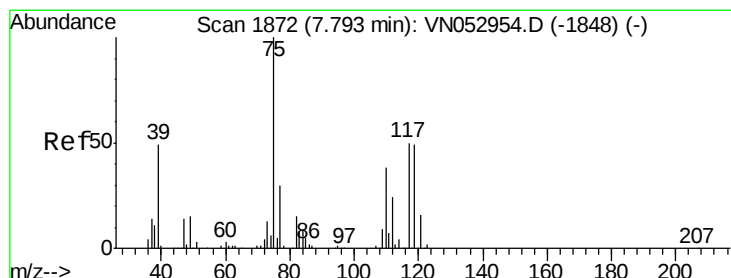
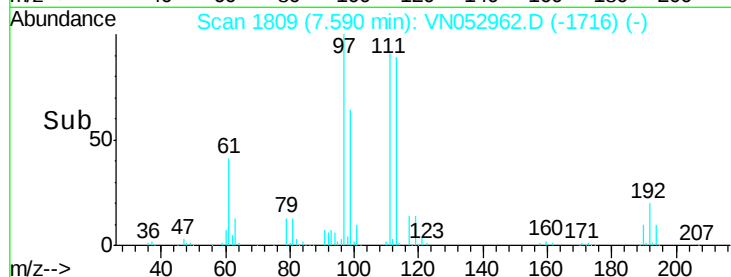
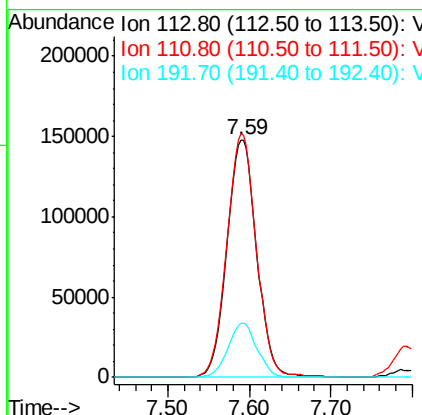
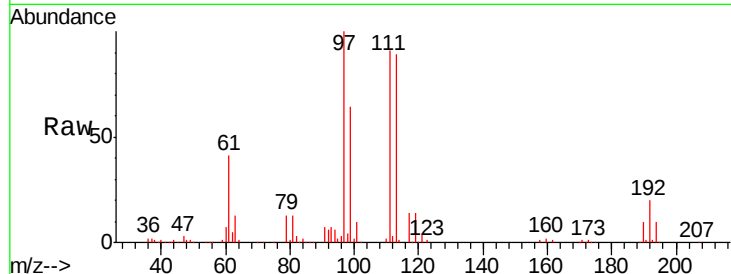
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-SD012-0612-01MSD

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	378038		
111	101.7	83.0	124.4	
192	22.3	17.5	26.3	

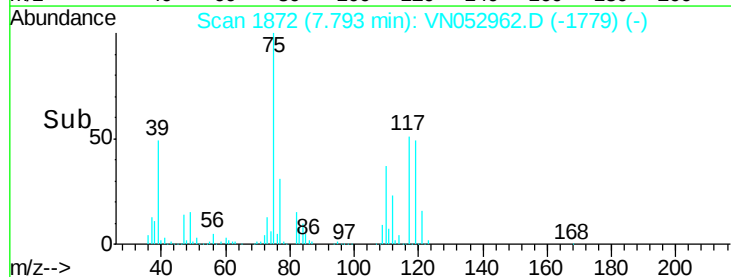
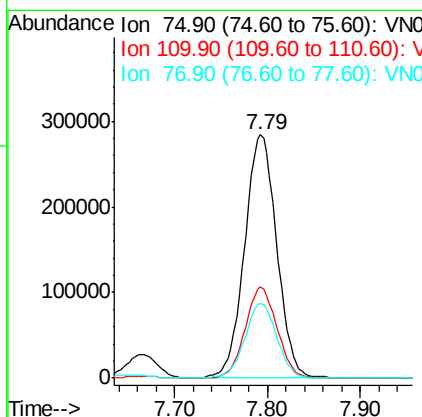
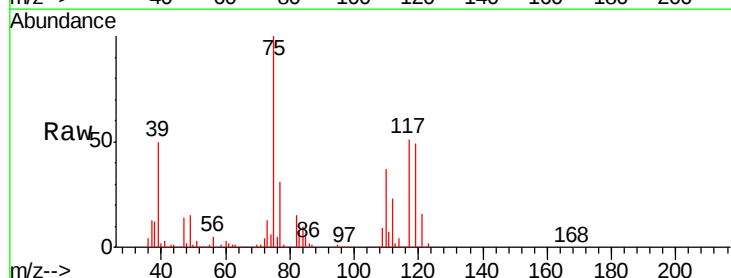
Manual Integrations
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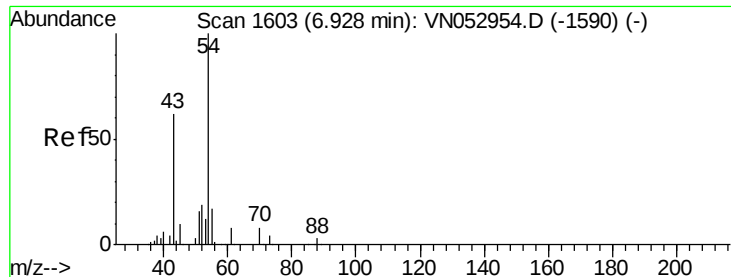
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 12/19/2018 12:06:45 PM



#36
 1,1-Dichloropropene
 Concen: 45.830 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	681057		
110	37.0	18.2	54.6	
77	30.8	24.9	37.3	





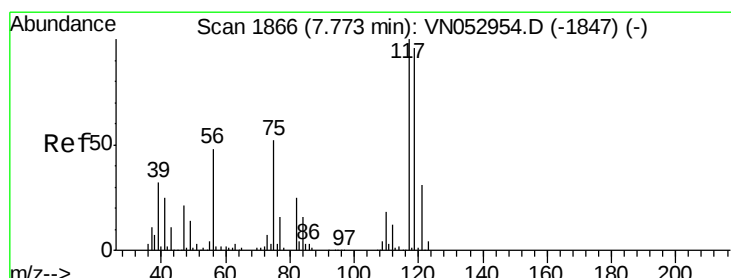
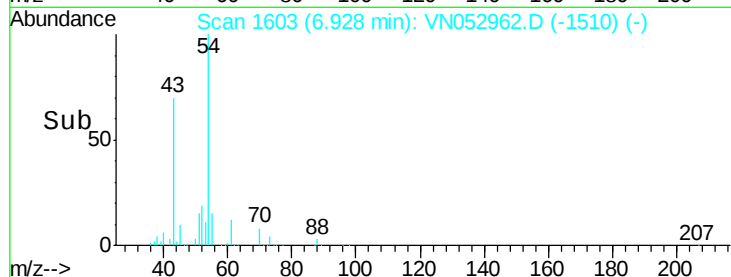
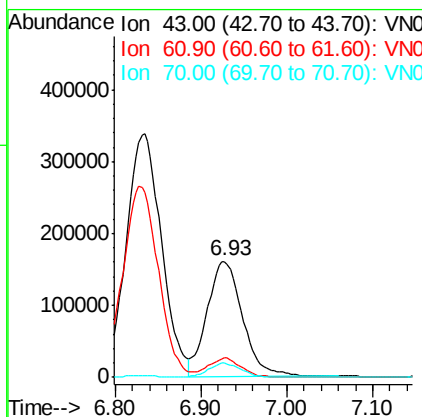
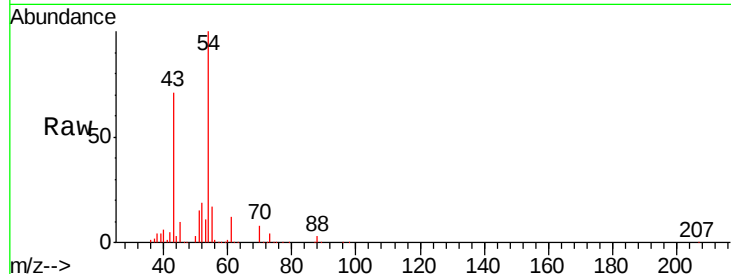
#37
Ethyl Acetate
Concen: 55.634 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.2	11.8	17.6
70	11.0	8.4	12.6

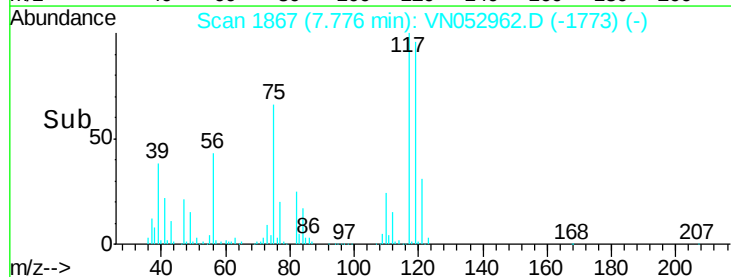
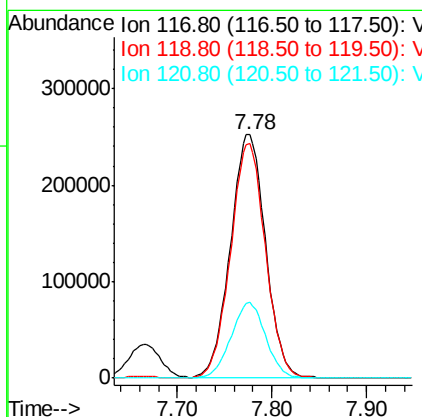
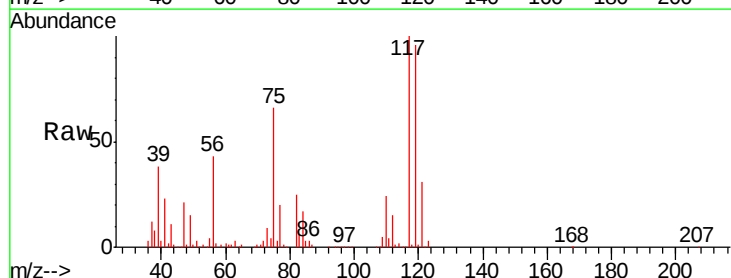
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#38
Carbon Tetrachloride
Concen: 47.487 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.6	77.1	115.7
121	31.1	24.9	37.3





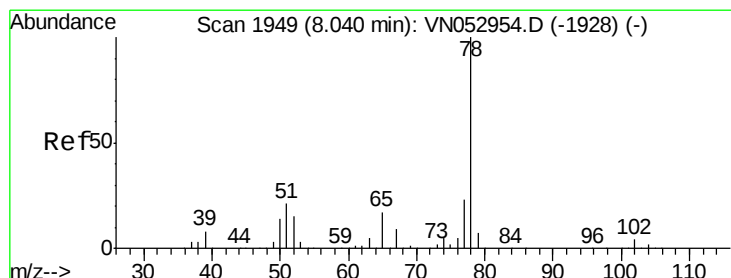
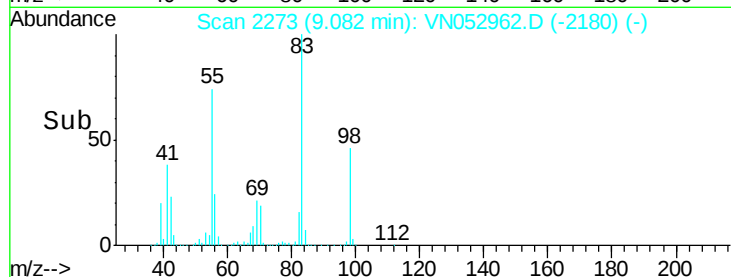
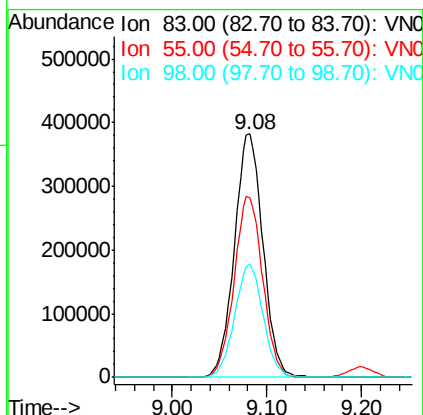
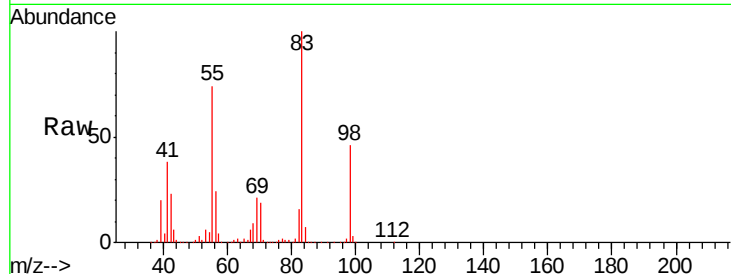
#39
Methylcyclohexane
Concen: 44.347 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion	Ratio	Lower	Upper
83	100		
55	73.9	61.3	91.9
98	46.2	37.0	55.4

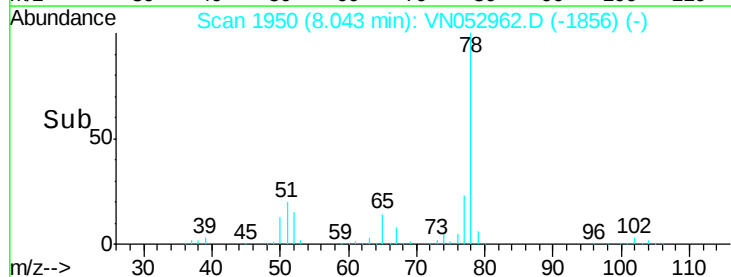
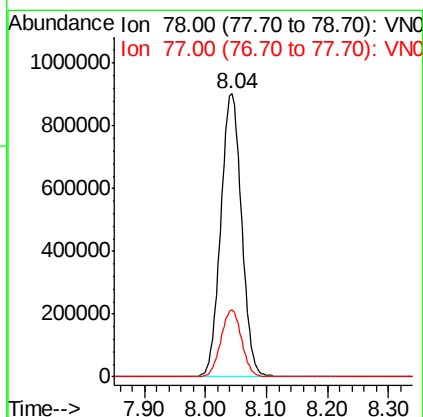
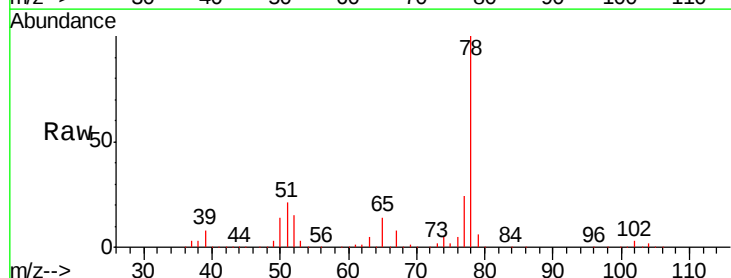
Manual Integrations
APPROVED

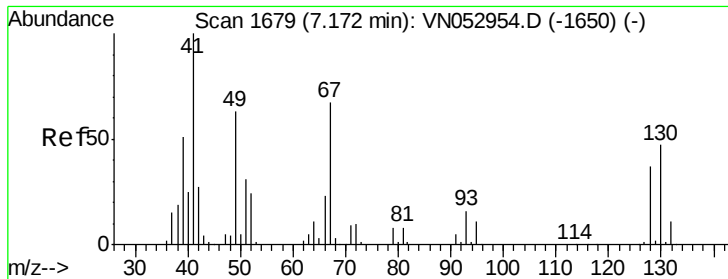
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#40
Benzene
Concen: 48.248 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.5	27.7





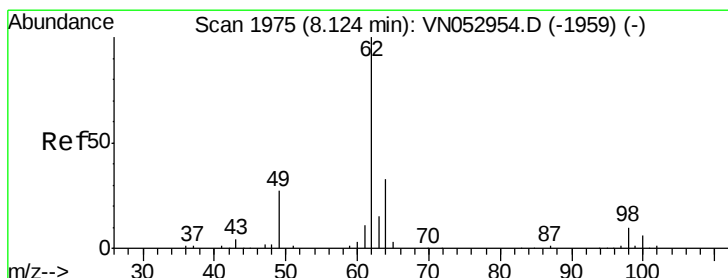
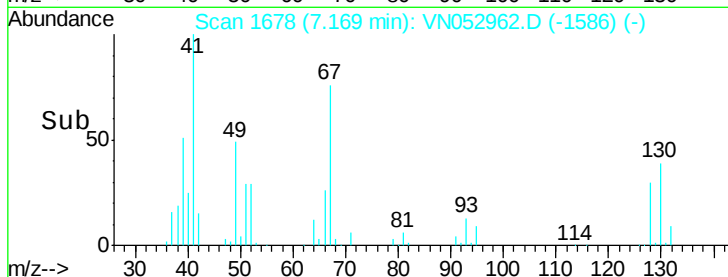
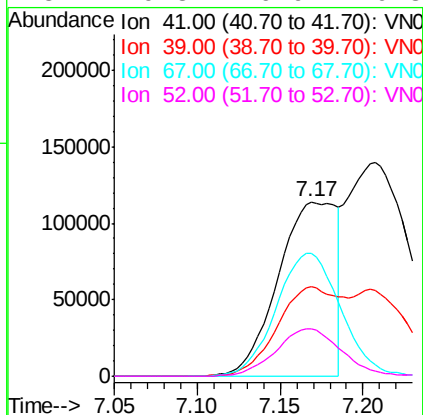
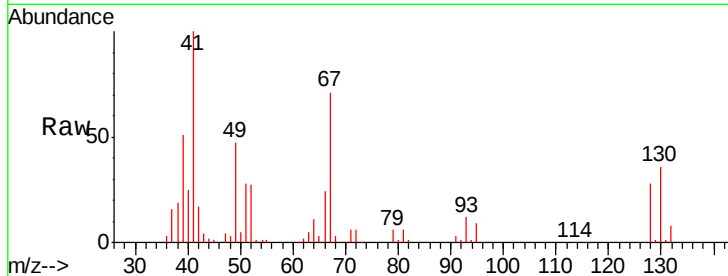
#41
Methacrylonitrile
Concen: 58.262 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion	Ratio	Lower	Upper
41	100		
39	57.7	48.0	72.0
67	78.4	70.3	105.5
52	29.8	26.9	40.3

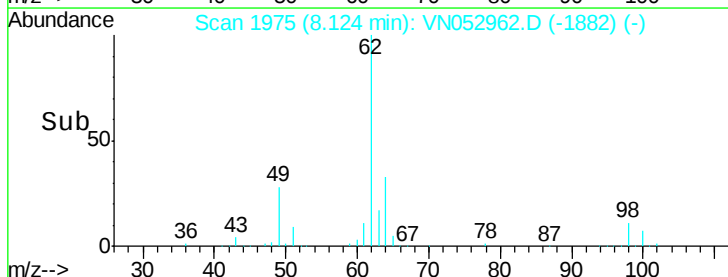
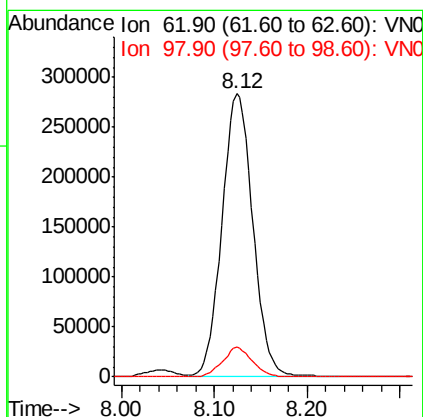
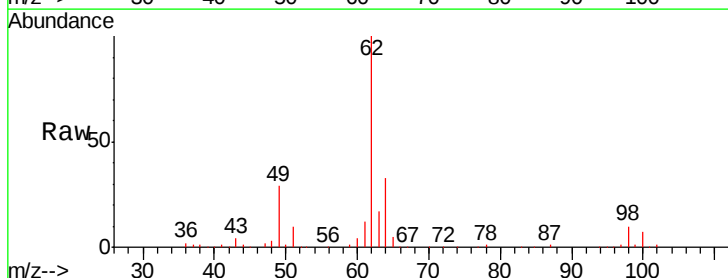
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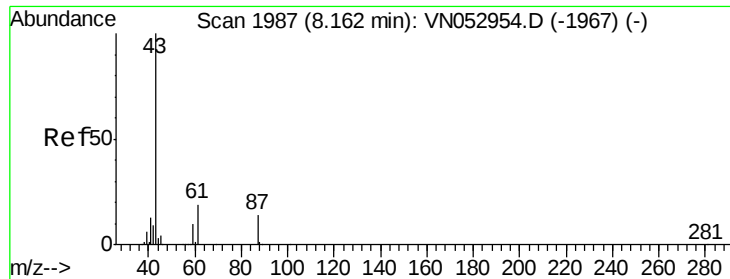
MMDadoda
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#42
1,2-Dichloroethane
Concen: 50.028 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	19.0





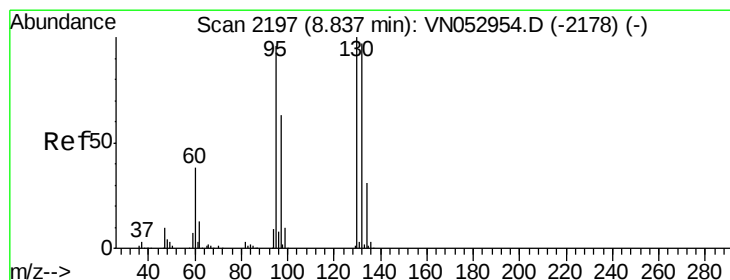
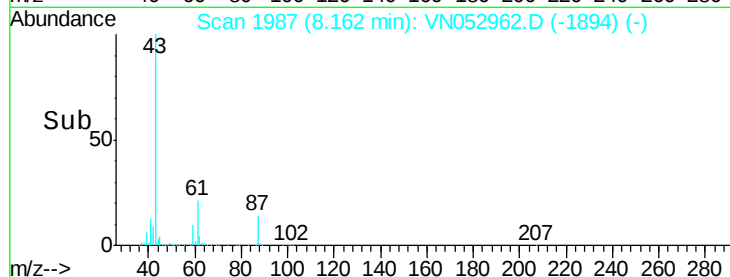
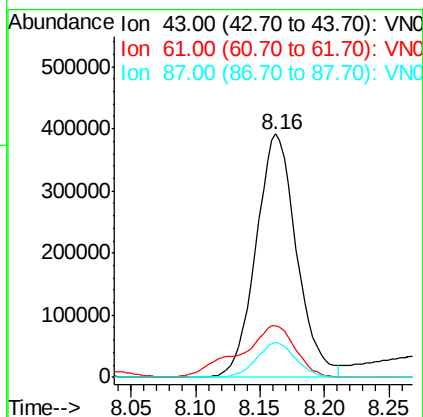
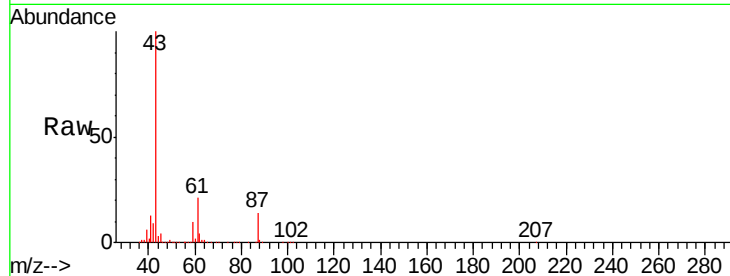
#43
Isopropyl Acetate
Concen: 53.340 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion	Ratio	Lower	Upper
43	100		
61	28.6	22.9	34.3
87	13.9	10.6	15.8

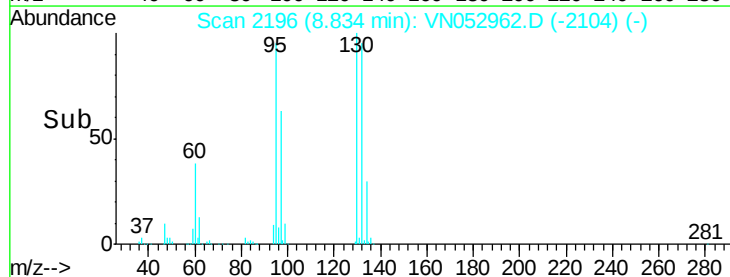
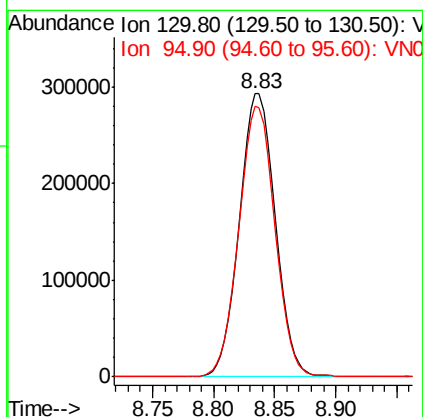
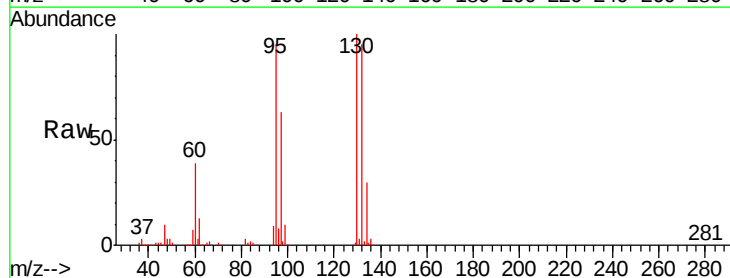
Manual Integrations
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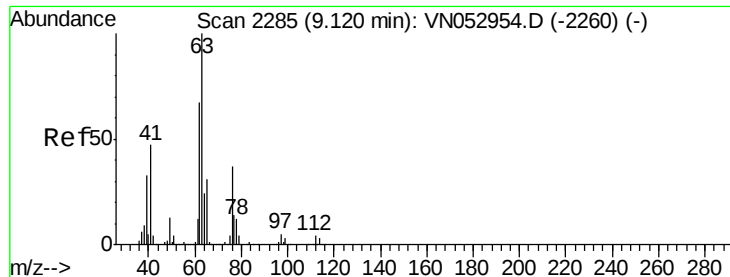
MMDadoda
12/19/2018 12:06:45 PM



#44
Trichloroethene
Concen: 46.613 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.4	0.0	197.8





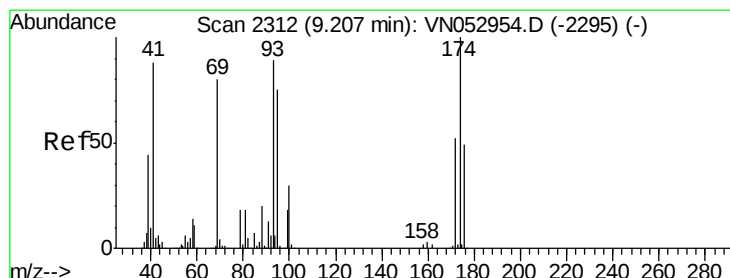
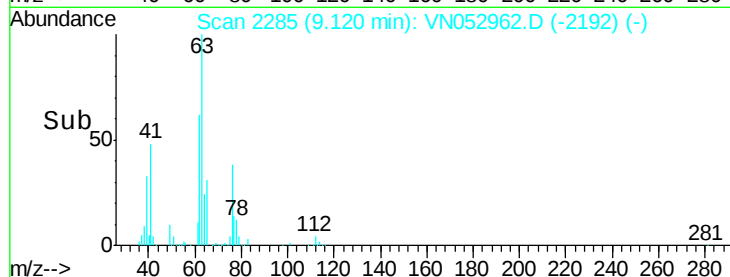
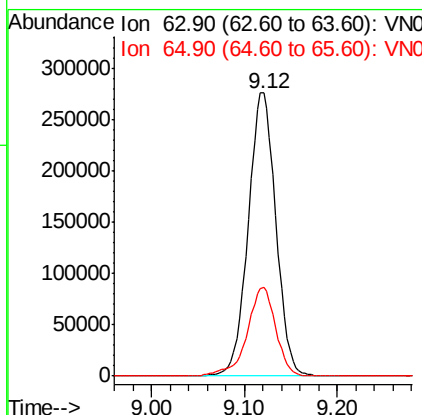
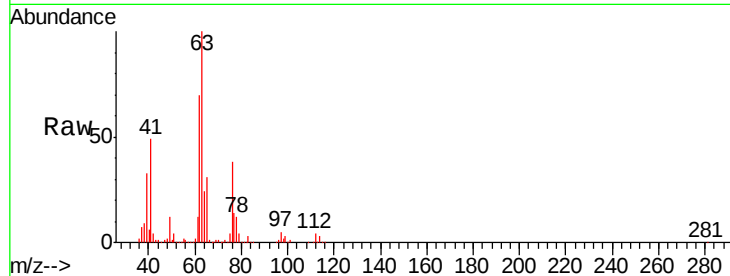
#45
 1,2-Dichloropropane
 Concen: 49.657 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-SD012-0612-01MSD

Tgt Ion: 63 Resp: 571723
 Ion Ratio Lower Upper
 63 100
 65 31.3 24.6 37.0

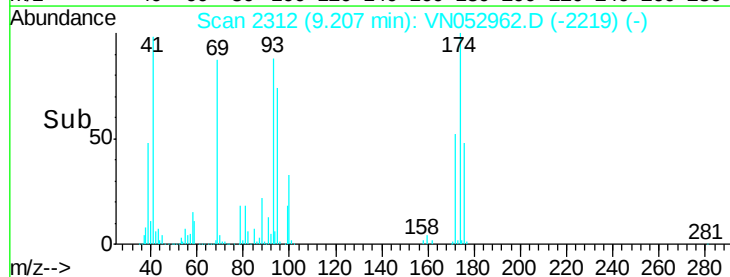
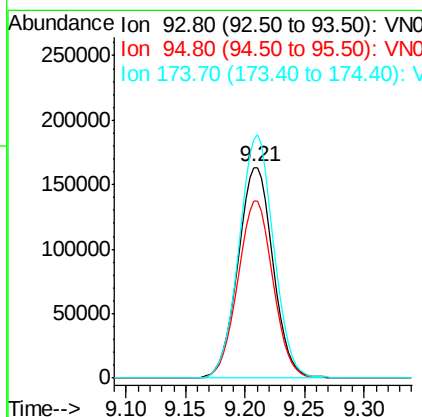
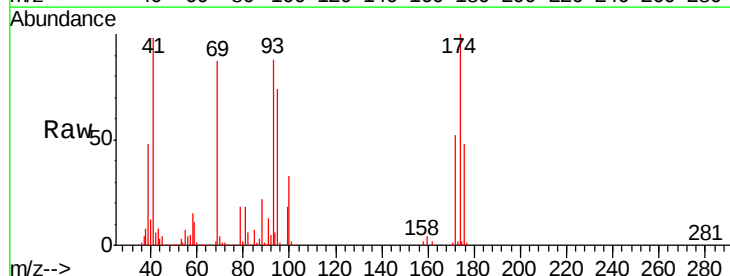
Manual Integrations
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#46
 Dibromomethane
 Concen: 49.802 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Tgt Ion: 93 Resp: 334027
 Ion Ratio Lower Upper
 93 100
 95 84.5 67.8 101.6
 174 114.0 89.0 133.4





#47

Bromodichloromethane

Concen: 49.260 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

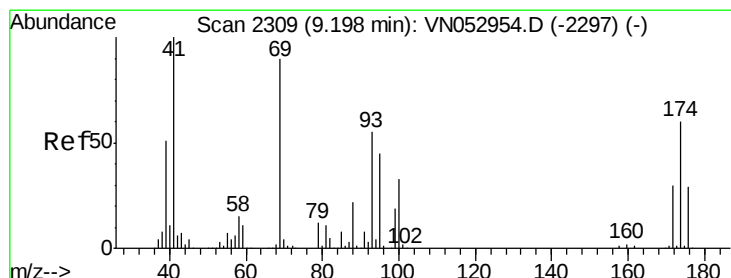
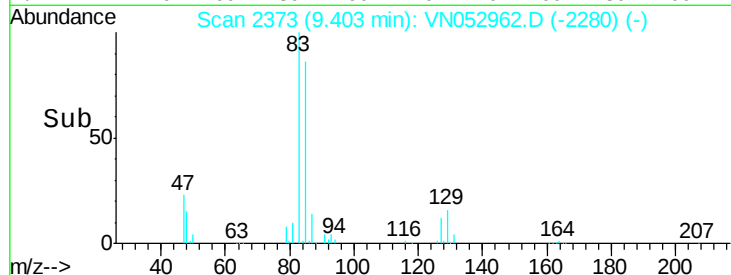
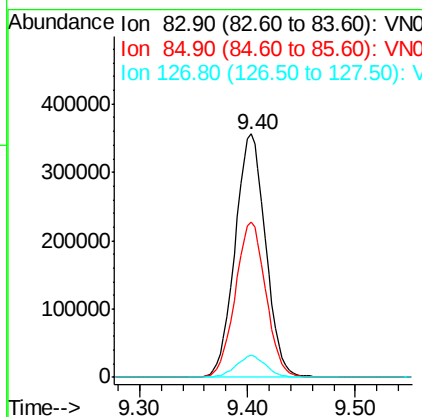
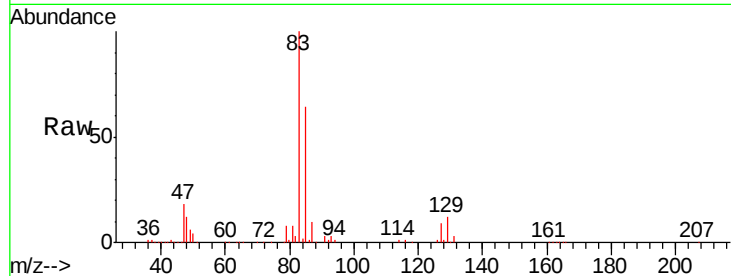
ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion:	83	Resp:	702308
Ion Ratio	Lower	Upper	
83	100		
85	64.0	51.6	77.4
127	8.9	7.1	10.7

Manual Integrations
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#48

Methyl methacrylate

Concen: 53.213 ug/l

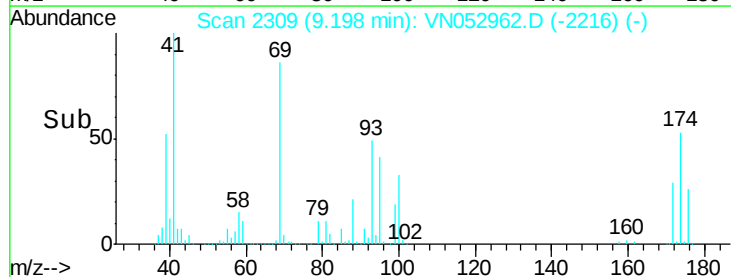
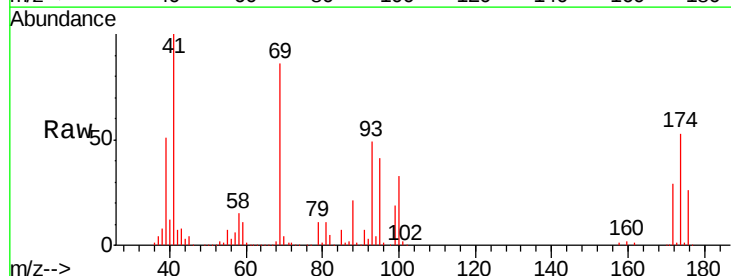
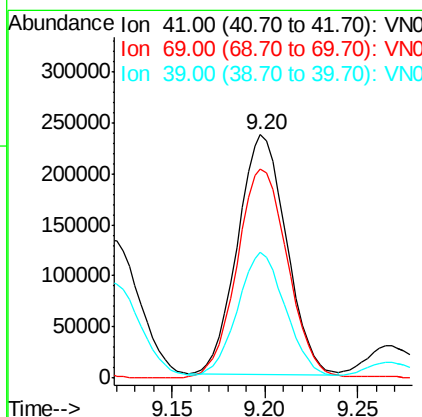
RT: 9.20 min Scan# 2309

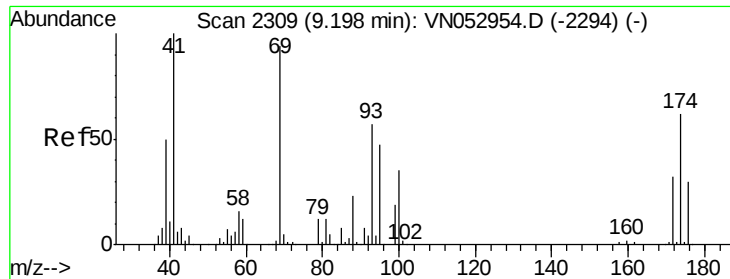
Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Tgt Ion:	41	Resp:	428367
Ion Ratio	Lower	Upper	
41	100		
69	91.9	72.2	108.2
39	52.5	41.9	62.9





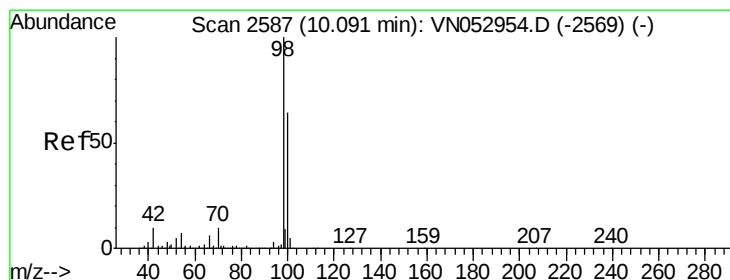
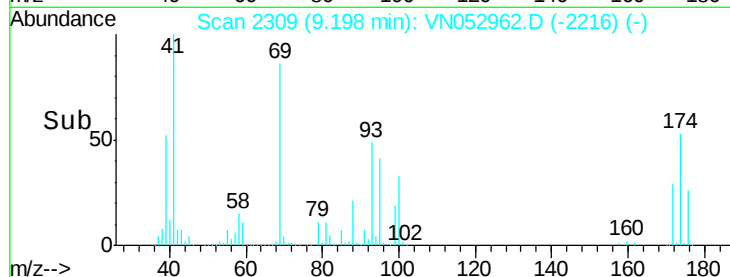
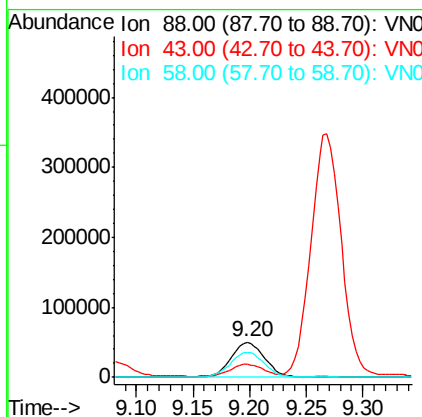
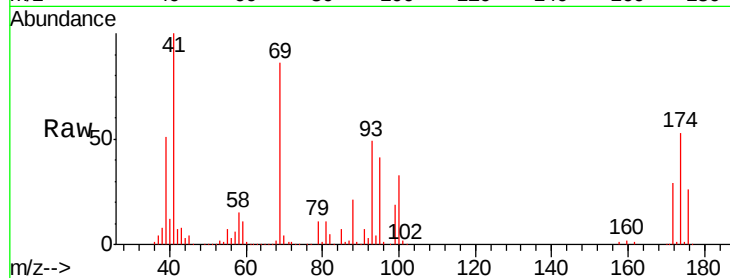
#49
1,4-Dioxane
Concen: 1022.095 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion: 88 Resp: 104080
Ion Ratio Lower Upper
88 100
43 32.8 26.6 40.0
58 71.7 58.4 87.6

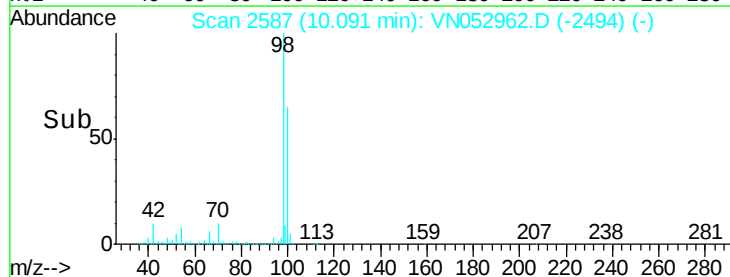
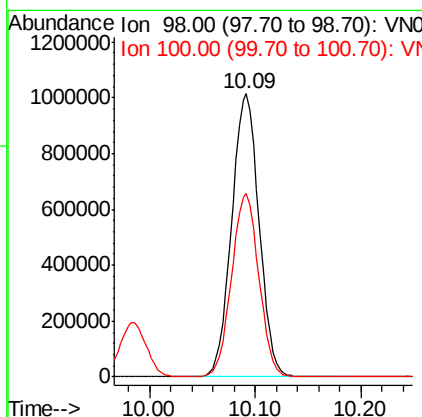
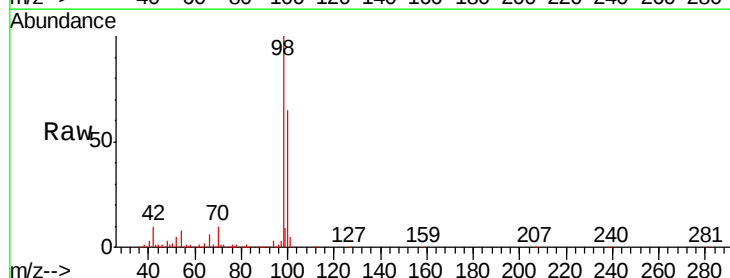
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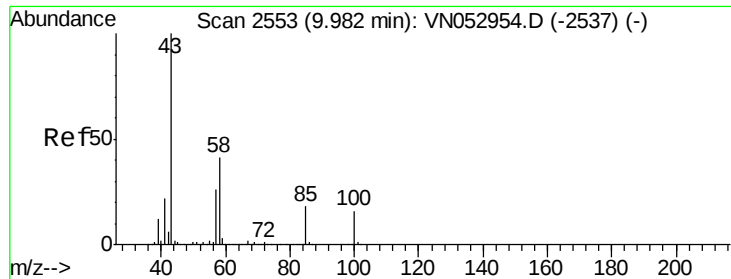
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#50
Toluene-d8
Concen: 1022.095 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion: 98 Resp: 1819819
Ion Ratio Lower Upper
98 100
100 64.6 51.6 77.4





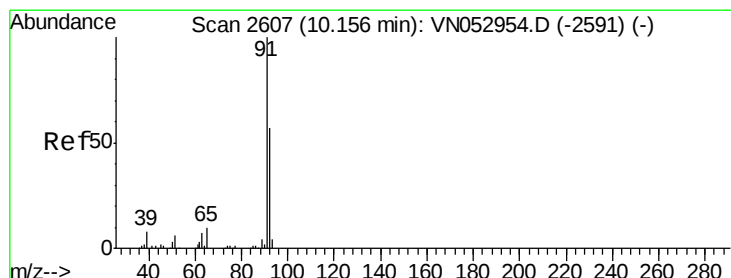
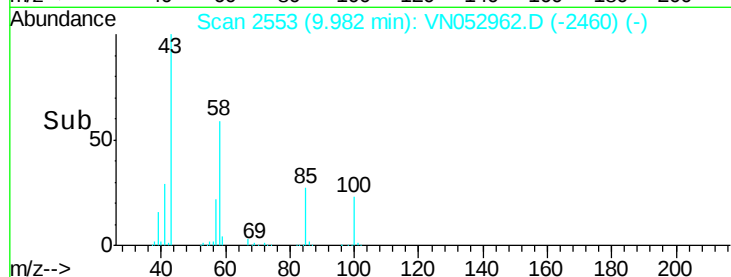
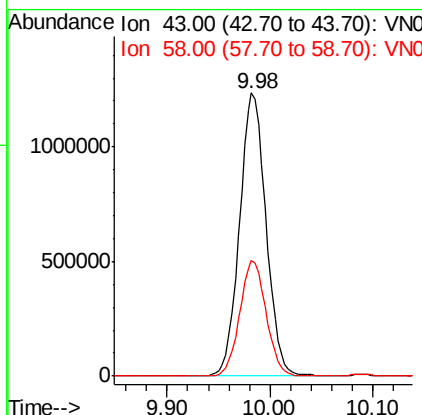
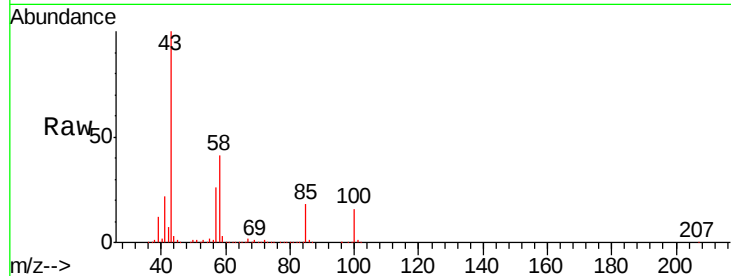
#51
 4-Methyl-2-Pentanone
 Concen: 273.803 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-SD012-0612-01MSD

Tgt Ion: 43 Resp: 2199713
 Ion Ratio Lower Upper
 43 100
 58 41.0 32.2 48.4

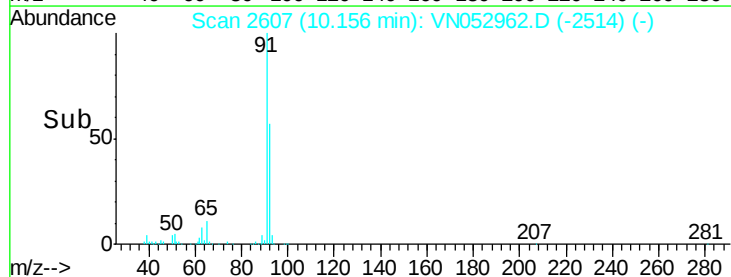
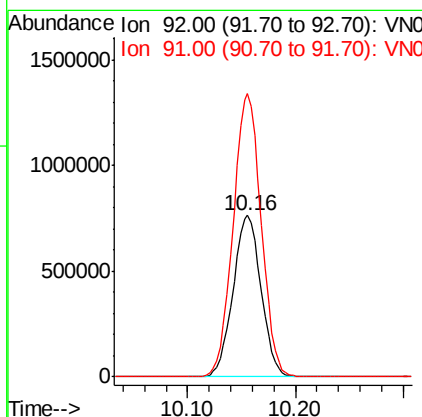
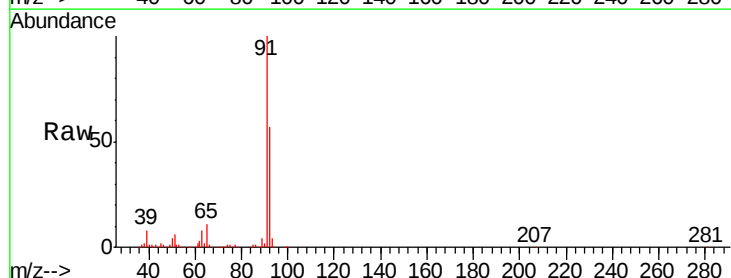
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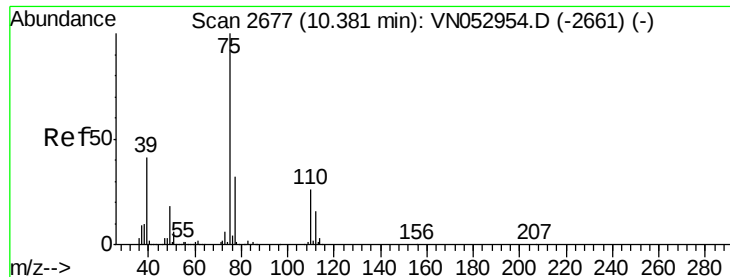
MMDadoda
 12/19/2018 12:06:45 PM



#52
 Toluene
 Concen: 50.291 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Tgt Ion: 92 Resp: 1377880
 Ion Ratio Lower Upper
 92 100
 91 176.1 139.8 209.6





#53

t-1,3-Dichloropropene

Concen: 45.819 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion: 75 Resp: 686912

Ion Ratio Lower Upper

75 100

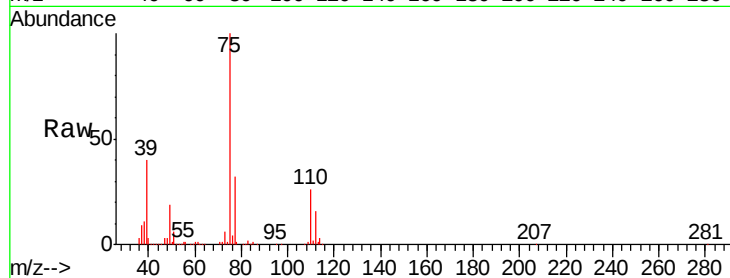
77 31.8 25.6 38.4

Manual Integrations

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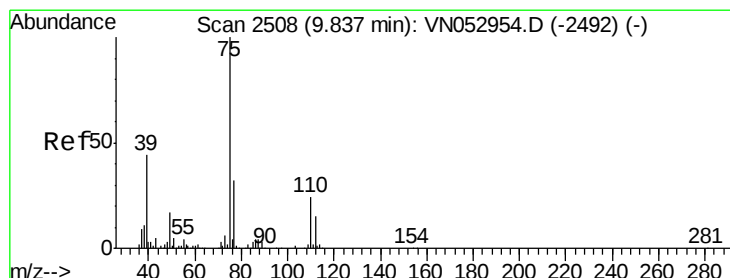
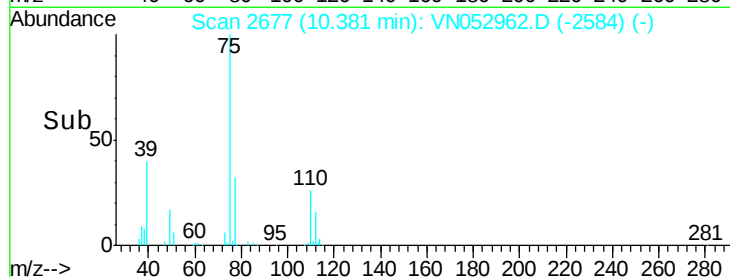
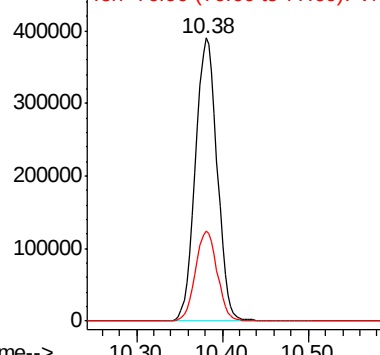
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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 45.855 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

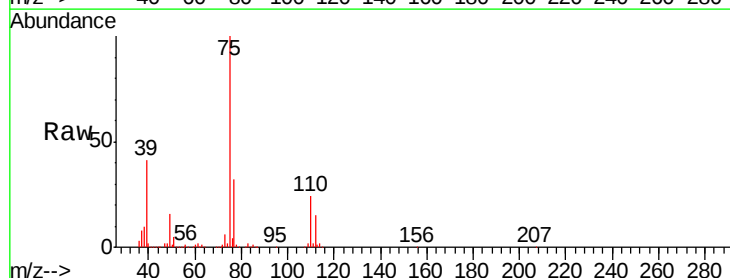
Tgt Ion: 75 Resp: 789090

Ion Ratio Lower Upper

75 100

77 32.1 25.8 38.8

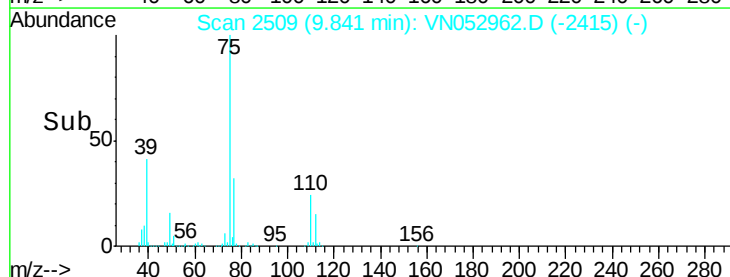
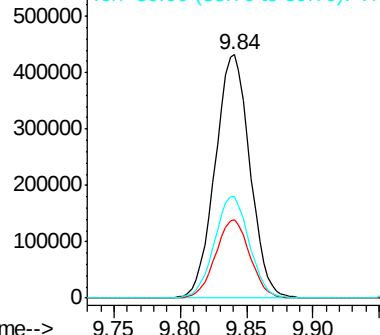
39 41.4 34.8 52.2

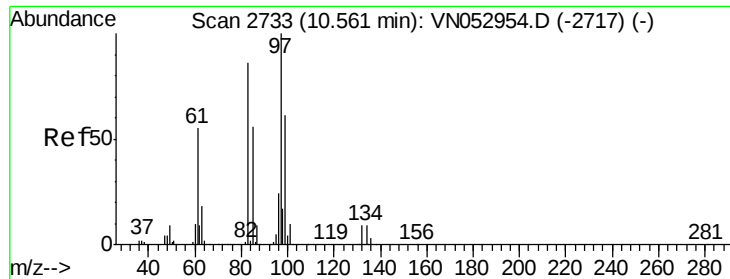


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





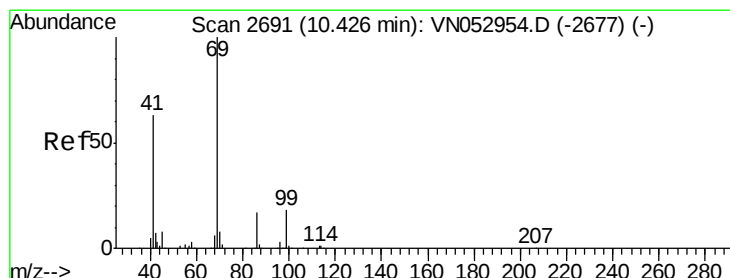
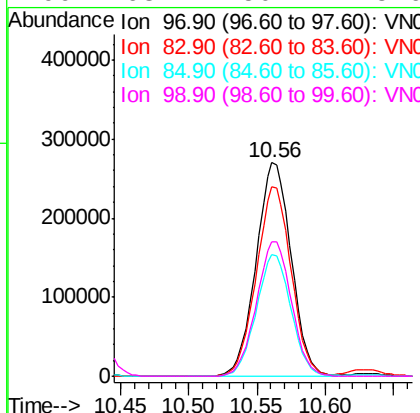
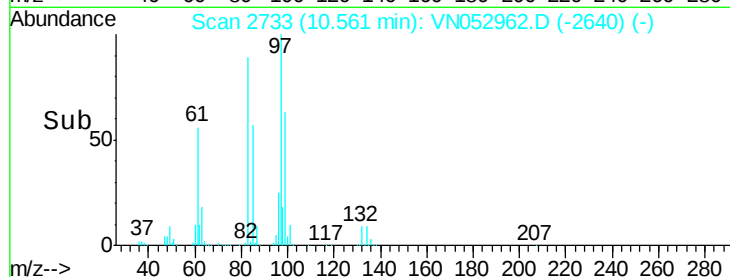
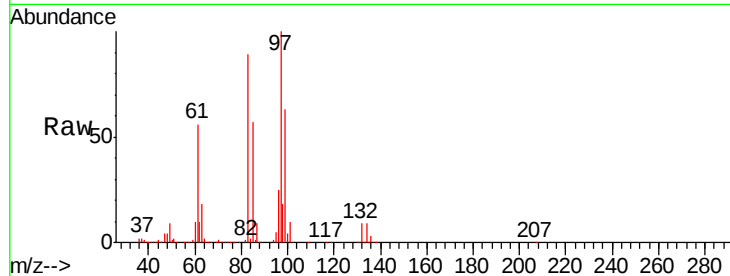
#55
 1,1,2-Trichloroethane
 Concen: 50.576 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-SD012-0612-01MSD

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
83	88.7	70.9	106.3	
85	57.1	45.4	68.2	
99	63.2	50.4	75.6	

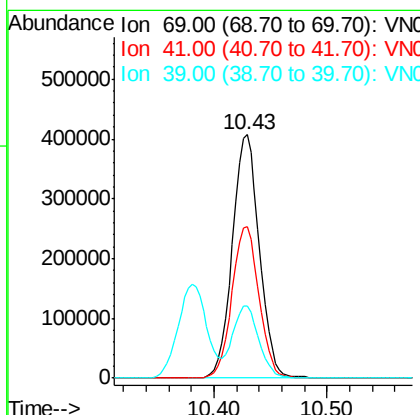
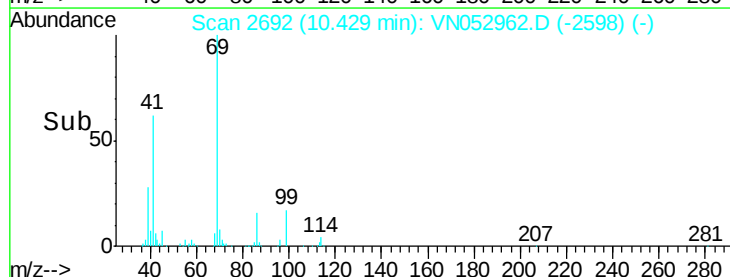
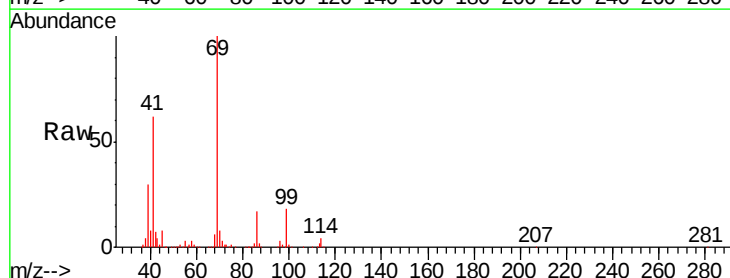
Manual Integrations
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#56
 Ethyl methacrylate
 Concen: 53.312 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	61.9	51.7	77.5	
39	28.8	24.6	37.0	





#57

1,3-Dichloropropane

Concen: 50.312 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion: 76 Resp: 824643

Ion Ratio Lower Upper

76 100

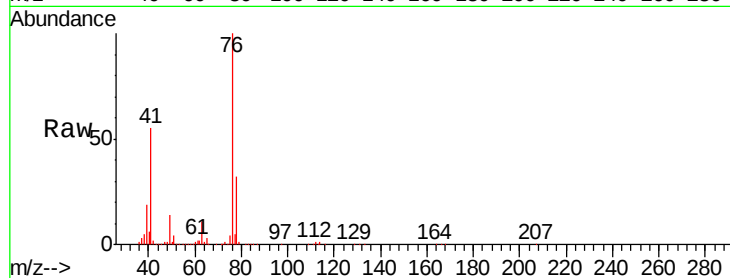
78 32.0 25.8 38.8

Manual Integrations

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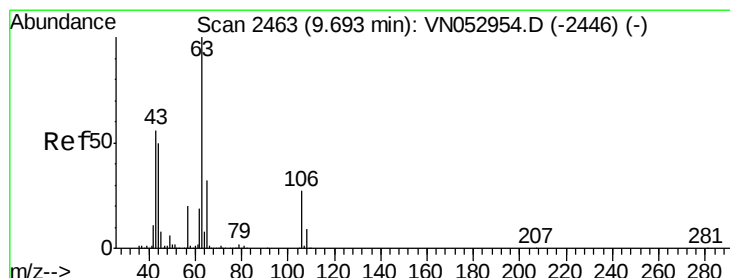
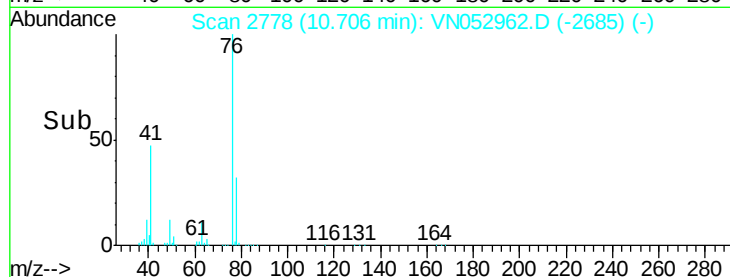
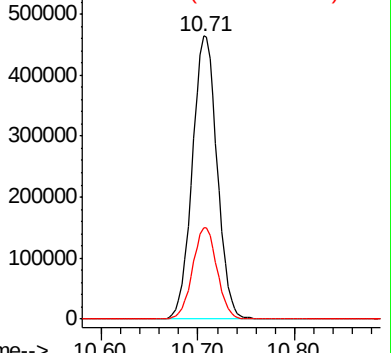
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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 264.111 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN052962.D

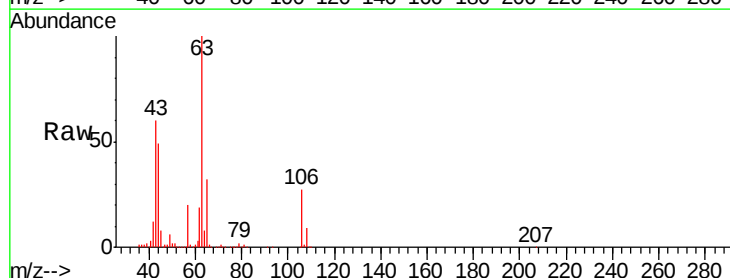
Acq: 18 Dec 2018 15:44

Tgt Ion: 63 Resp: 1834385

Ion Ratio Lower Upper

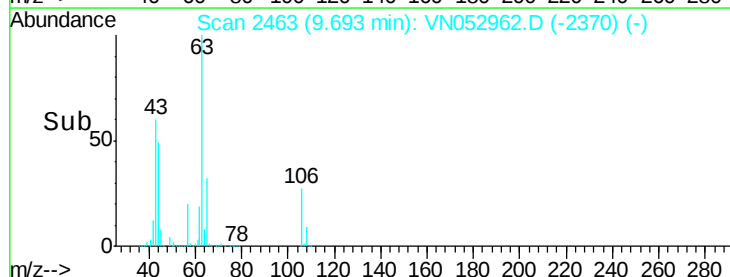
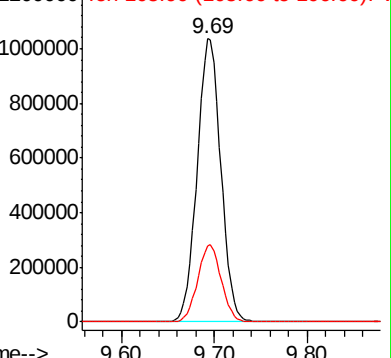
63 100

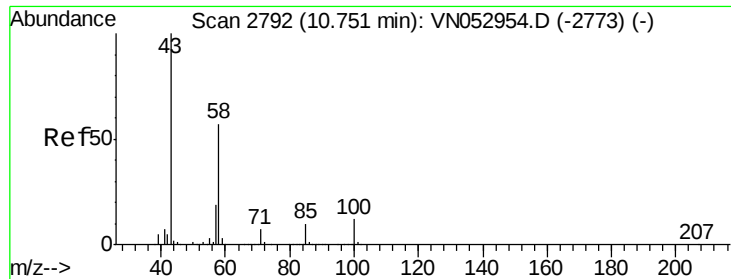
106 27.1 21.0 31.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





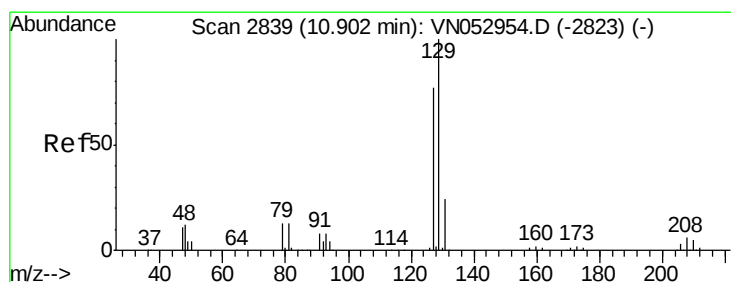
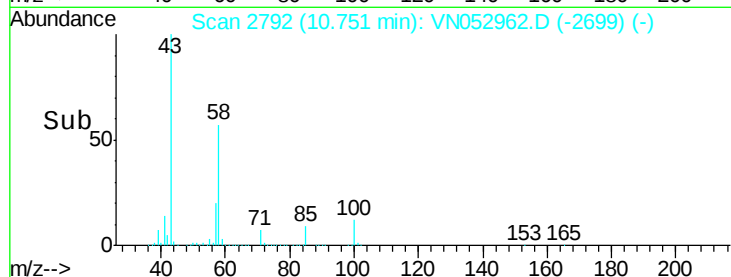
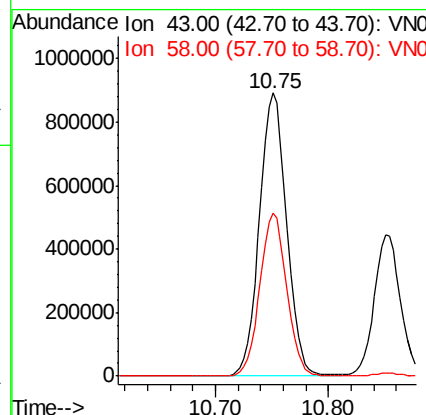
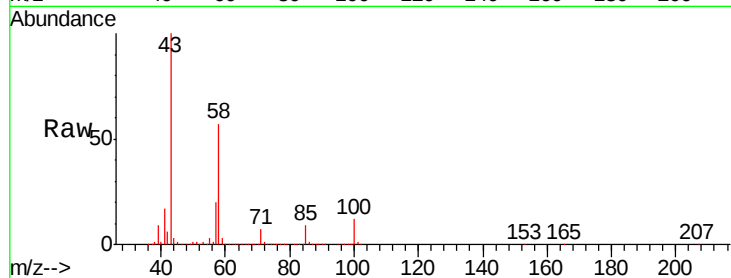
#59
2-Hexanone
Concen: 273.241 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion: 43 Resp: 1485233
Ion Ratio Lower Upper
43 100
58 57.0 28.1 84.3

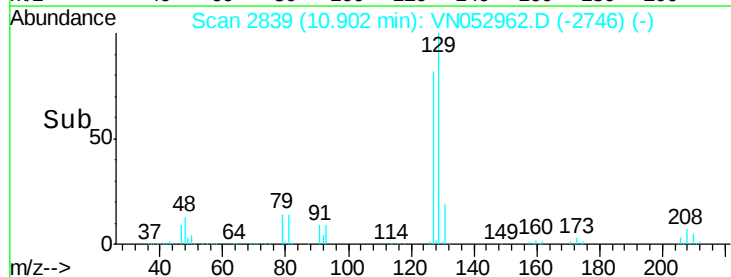
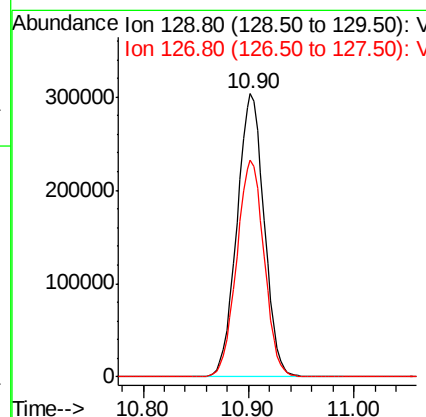
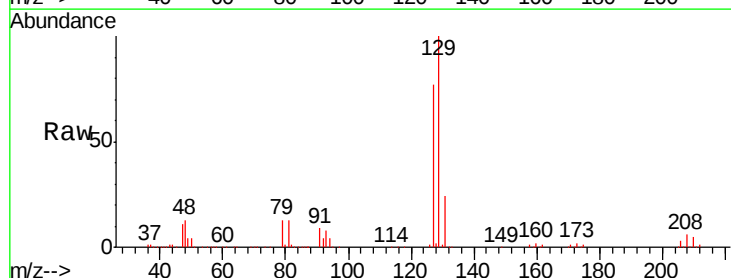
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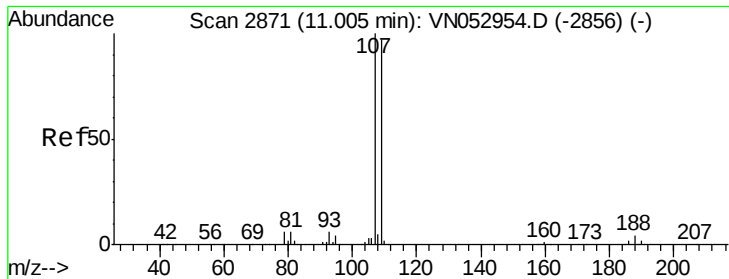
MMDadoda
12/19/2018 12:06:45 PM



#60
Dibromochloromethane
Concen: 49.547 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion: 129 Resp: 542104
Ion Ratio Lower Upper
129 100
127 77.1 38.6 116.0





#61

1,2-Dibromoethane

Concen: 50.613 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion: 107 Resp: 491318

Ion Ratio Lower Upper

107 100

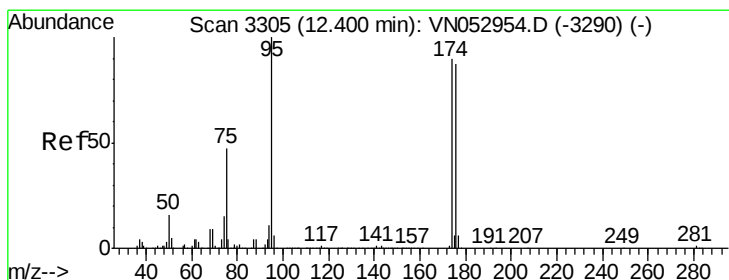
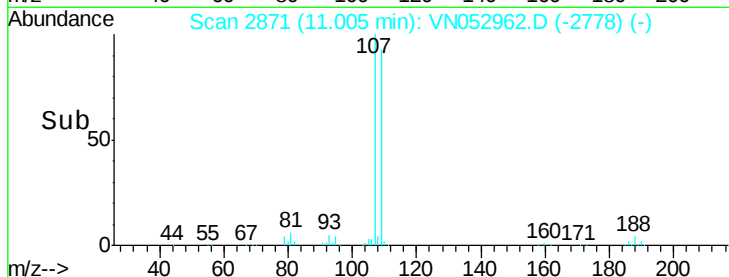
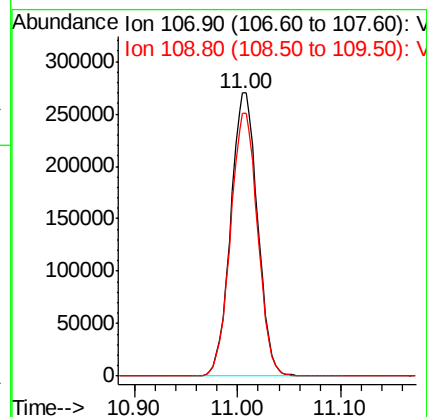
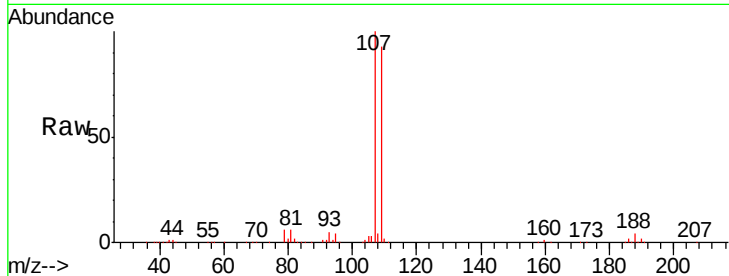
109 93.7 75.4 113.0

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#62

4-Bromofluorobenzene

Concen: 50.613 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

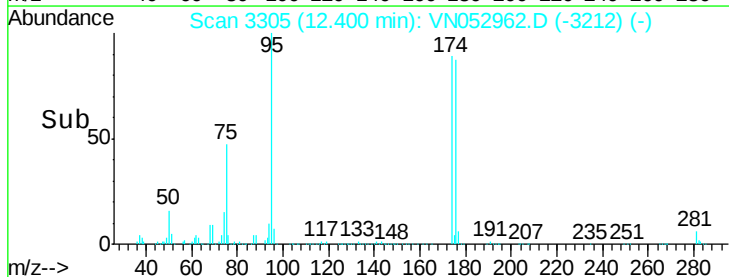
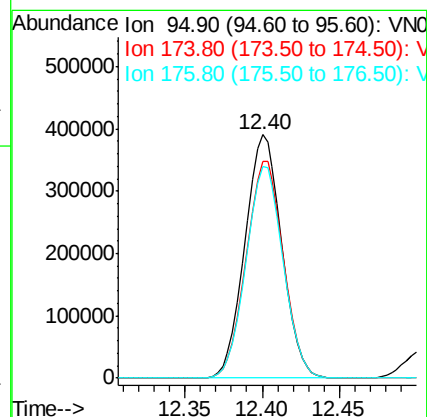
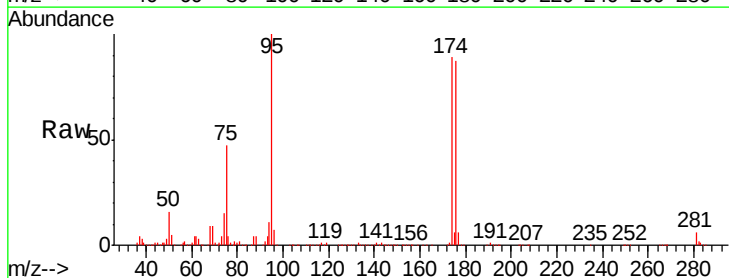
Tgt Ion: 95 Resp: 645412

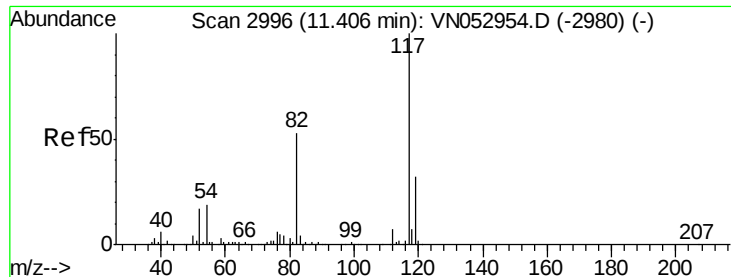
Ion Ratio Lower Upper

95 100

174 90.0 0.0 178.8

176 87.7 0.0 173.8





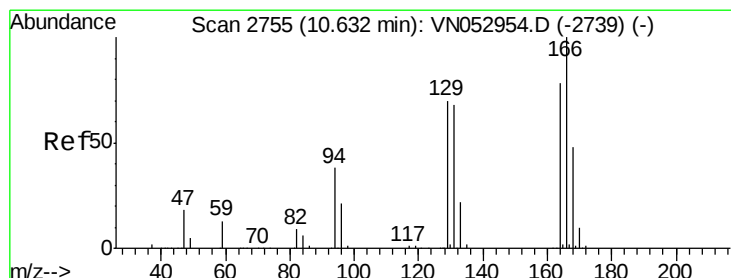
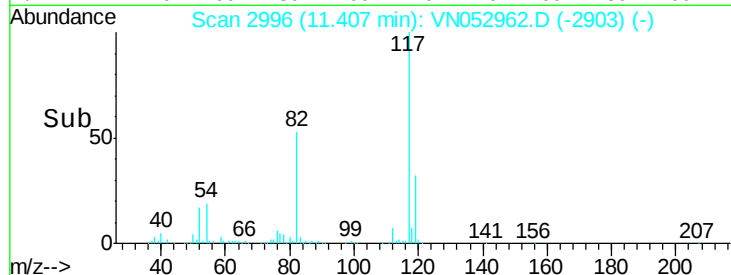
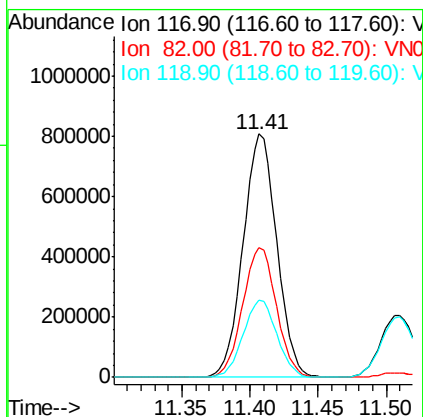
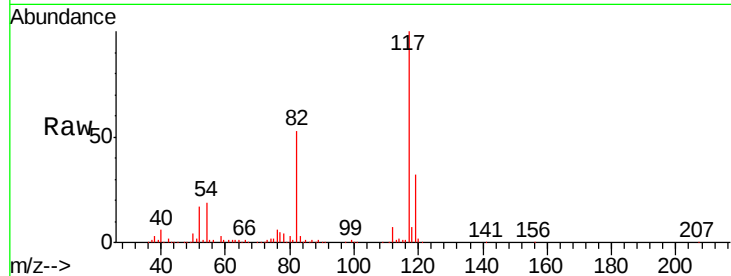
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.3	42.8	64.2
119	31.7	25.5	38.3

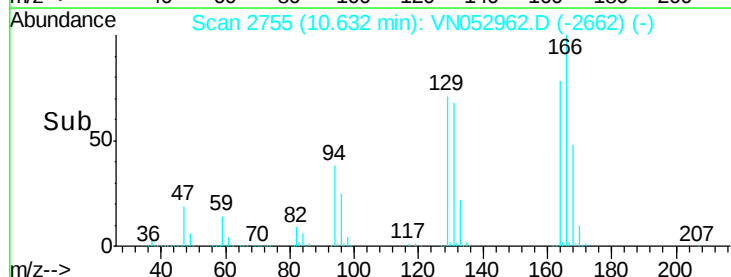
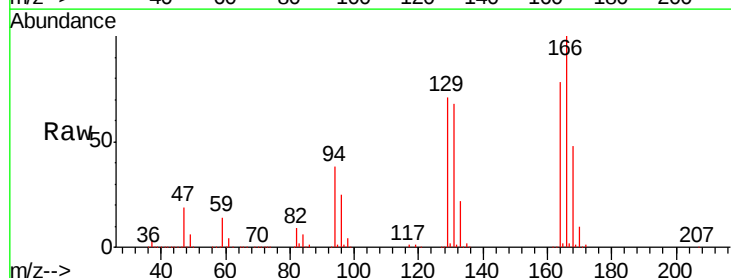
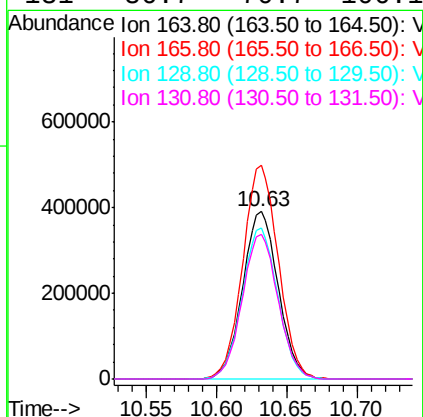
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#64
Tetrachloroethene
Concen: 46.146 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.7	102.9	154.3
129	90.2	73.7	110.5
131	86.7	70.7	106.1





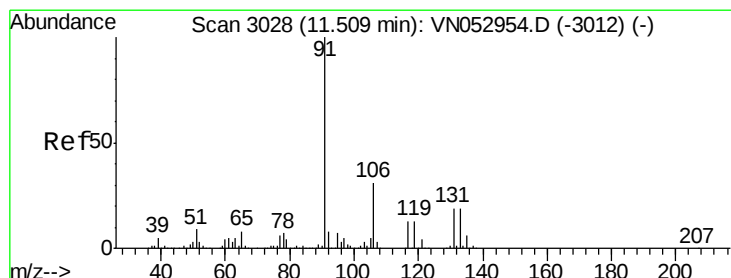
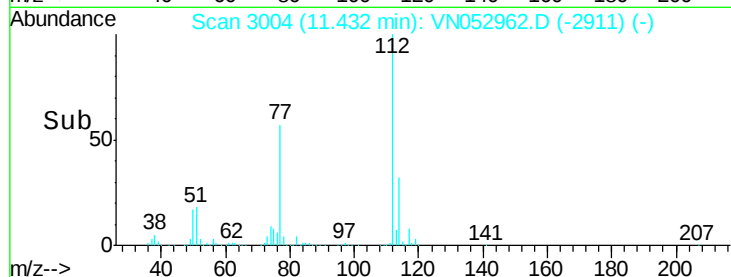
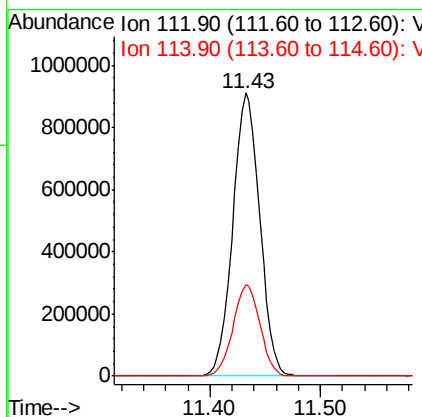
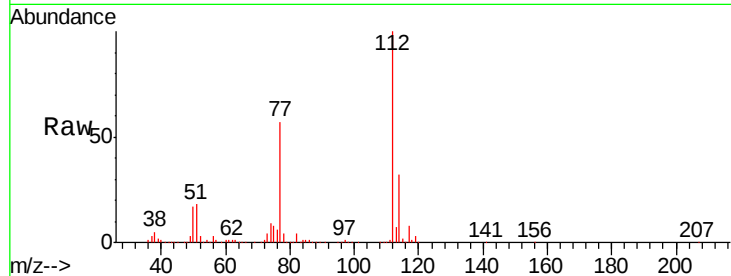
#65
Chlorobenzene
Concen: 50.231 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion:112 Resp: 1541048
Ion Ratio Lower Upper
112 100
114 32.2 25.5 38.3

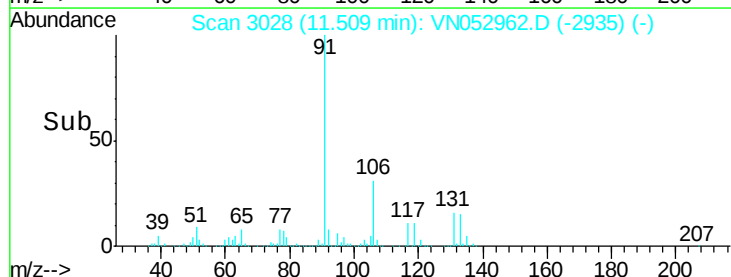
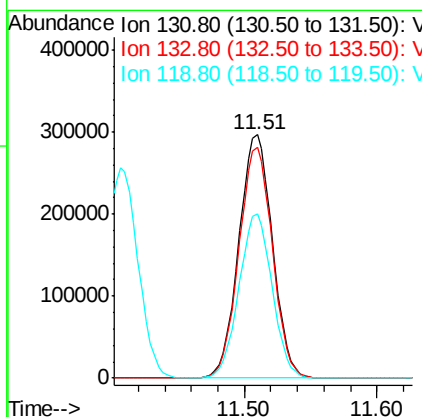
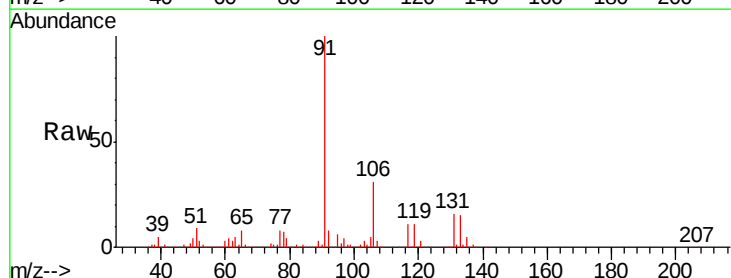
Manual Integrations
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#66
1,1,1,2-Tetrachloroethane
Concen: 48.919 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion:131 Resp: 521895
Ion Ratio Lower Upper
131 100
133 94.6 47.6 142.9
119 66.6 33.3 99.8





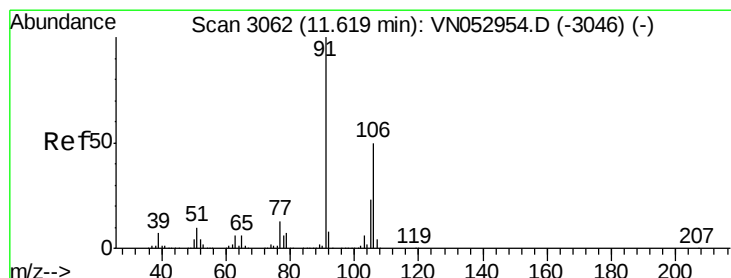
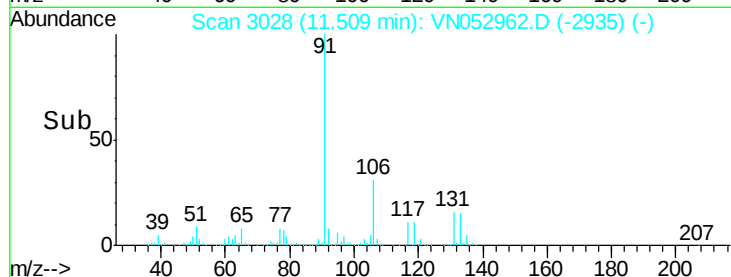
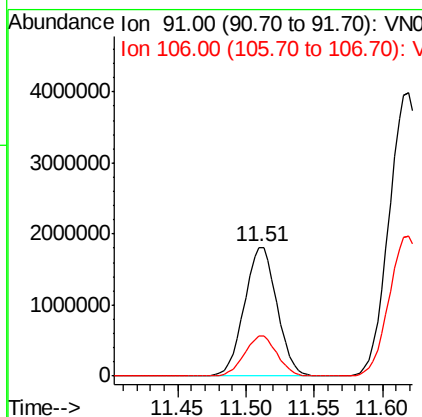
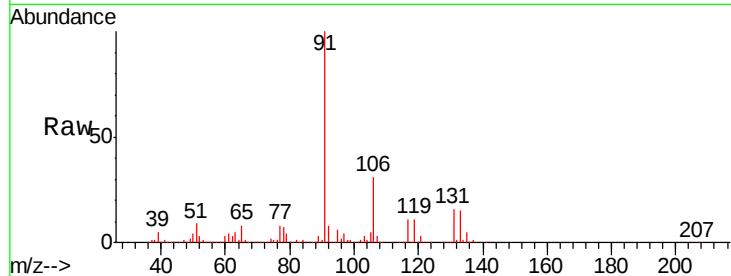
#67
Ethyl Benzene
Concen: 57.081 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion: 91 Resp: 3011622
Ion Ratio Lower Upper
91 100
106 31.1 24.9 37.3

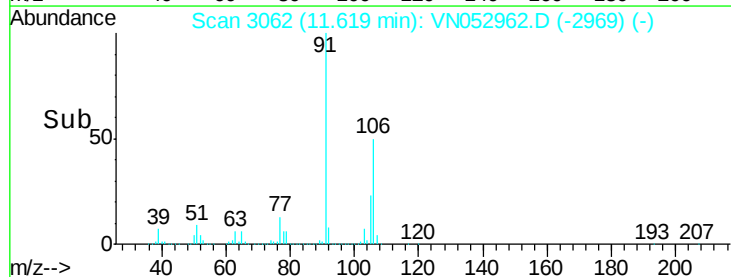
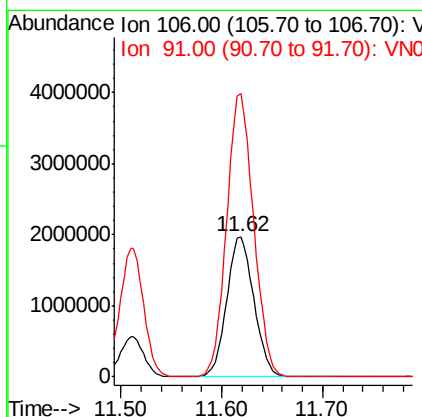
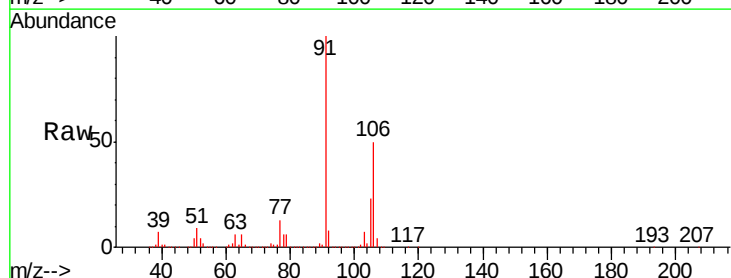
Manual Integrations
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#68
m/p-Xylenes
Concen: 184.342 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion: 106 Resp: 3697381
Ion Ratio Lower Upper
106 100
91 201.2 162.2 243.4





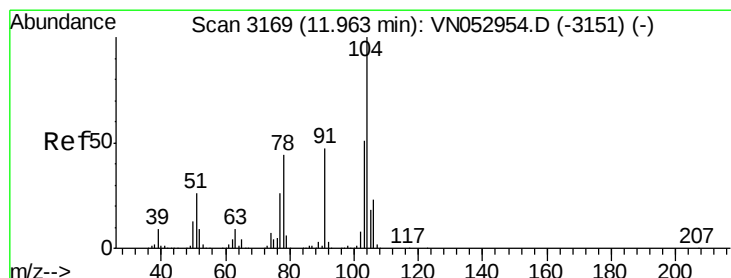
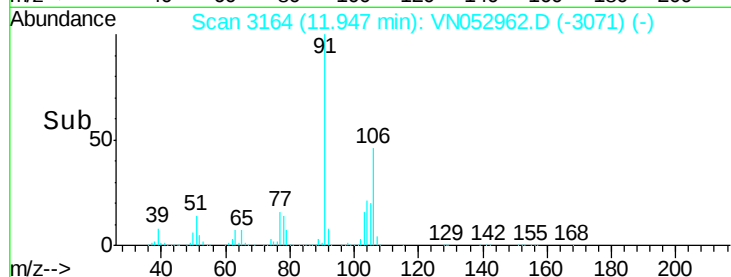
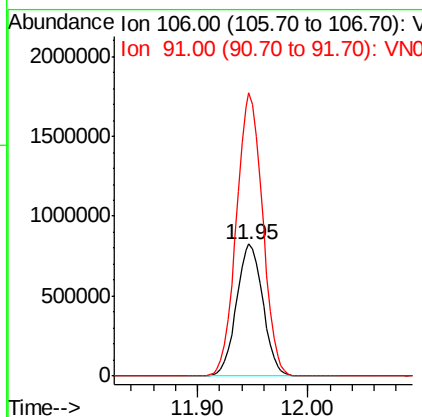
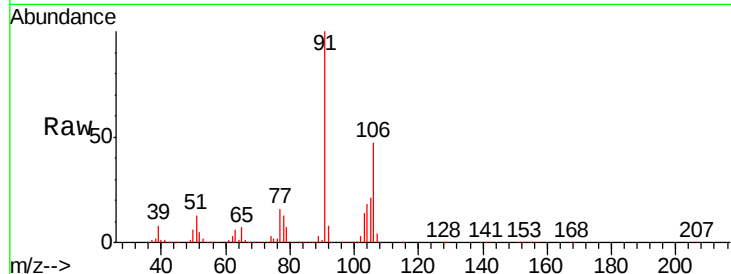
#69
o-Xylene
Concen: 71.027 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion:106 Resp: 1367033
Ion Ratio Lower Upper
106 100
91 212.7 106.6 319.8

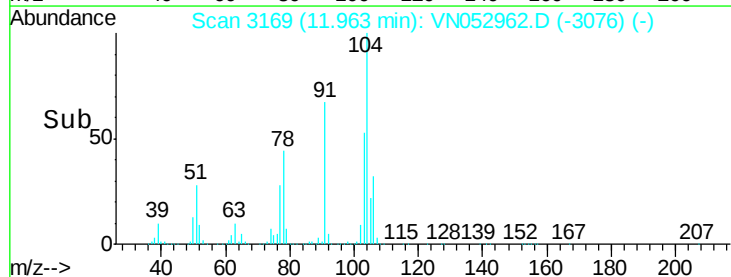
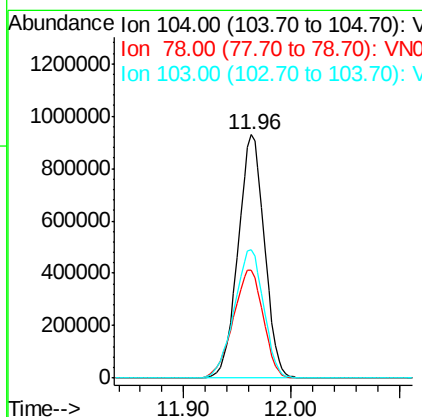
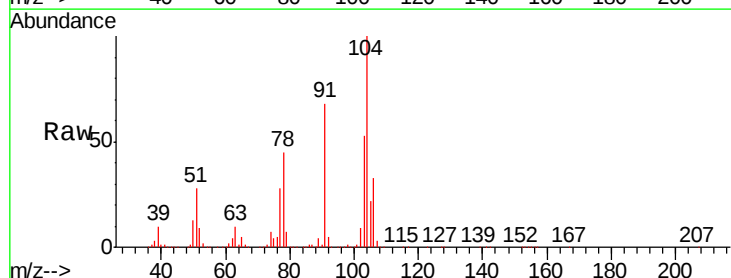
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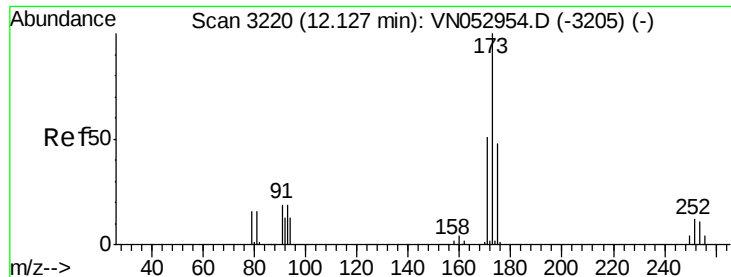
MMDadoda
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#70
Styrene
Concen: 50.033 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion:104 Resp: 1570223
Ion Ratio Lower Upper
104 100
78 51.0 38.9 58.3
103 59.0 44.3 66.5





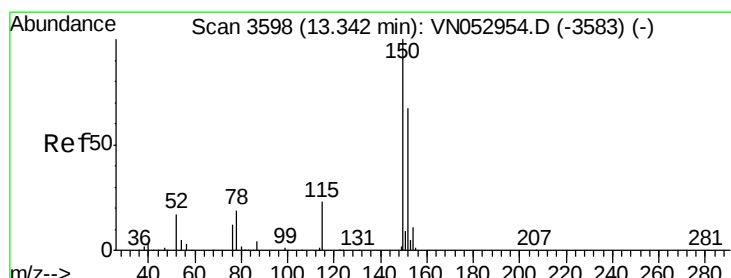
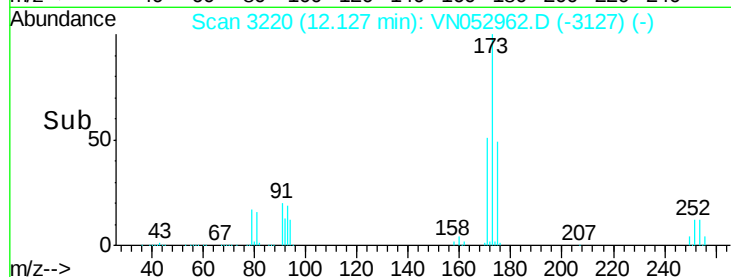
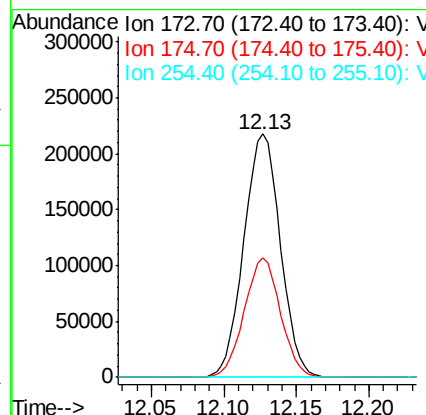
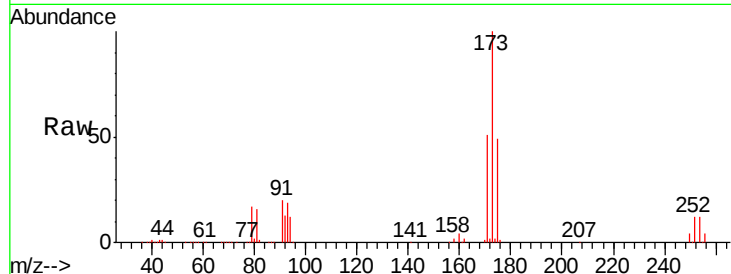
#71
Bromoform
Concen: 49.590 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.3	72.9
254	0.1	0.1	0.1

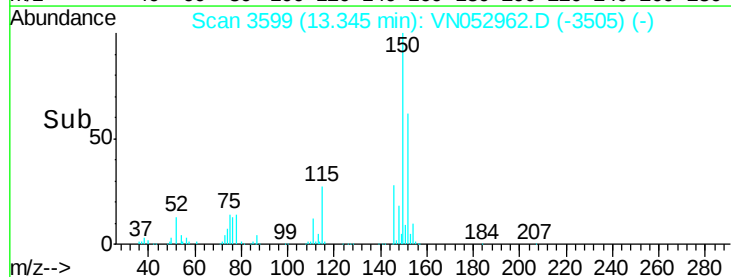
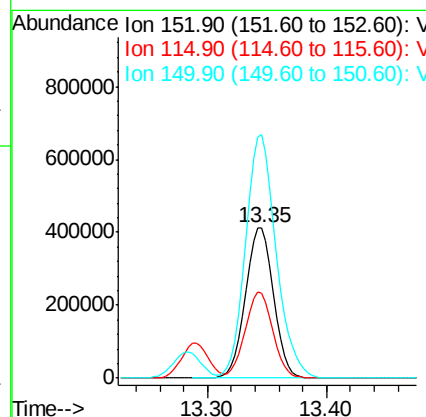
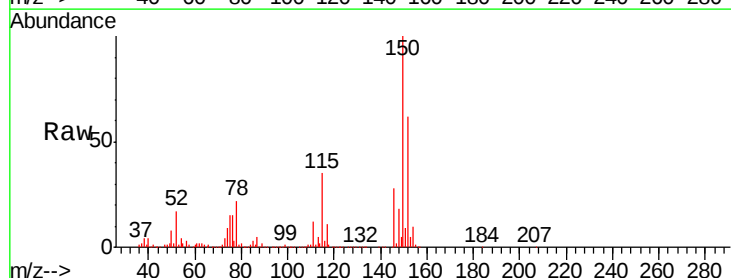
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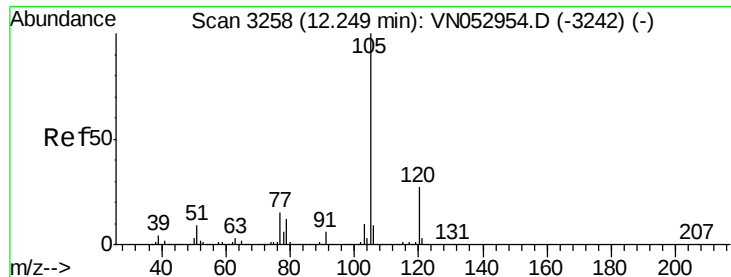
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.8	28.3	85.0
150	177.1	0.0	347.8





#73

Isopropylbenzene

Concen: 47.060 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion: 105 Resp: 2469562

Ion Ratio Lower Upper

105 100

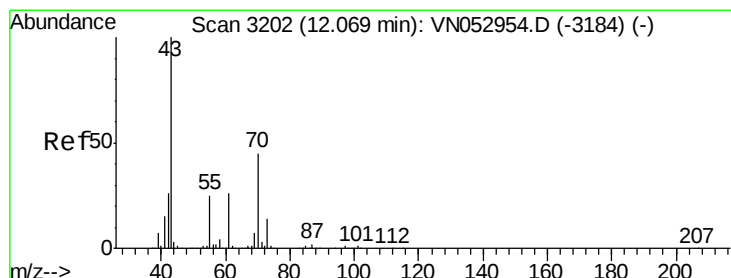
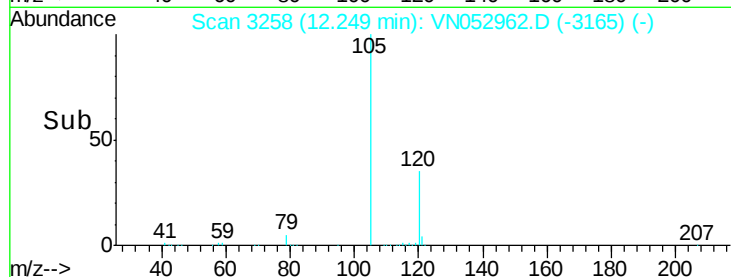
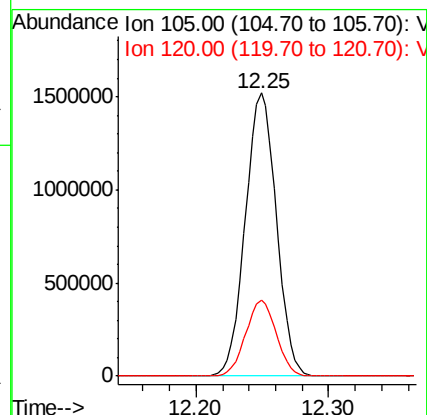
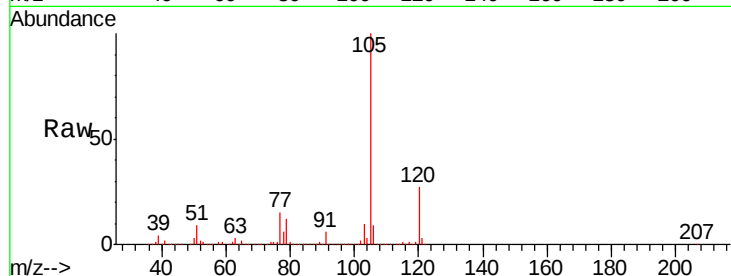
120 26.5 13.3 39.9

Manual Integrations

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#74

N-ethyl acetate

Concen: 52.313 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Tgt Ion: 43 Resp: 762168

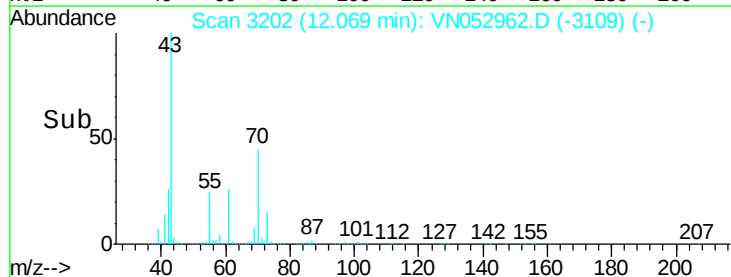
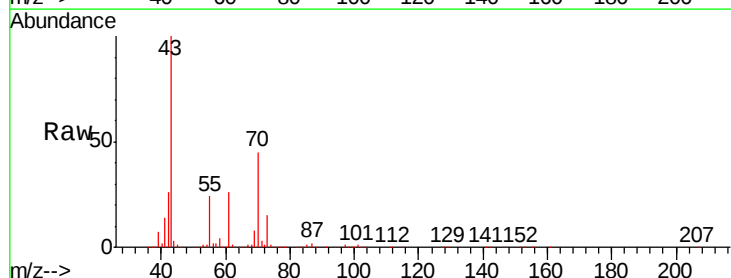
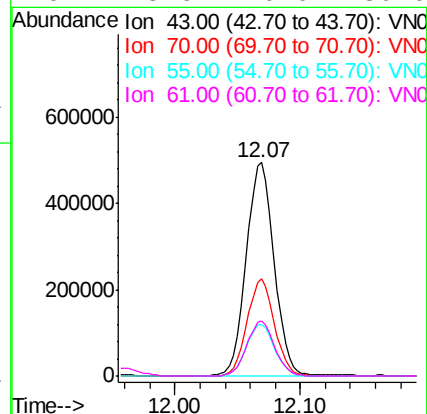
Ion Ratio Lower Upper

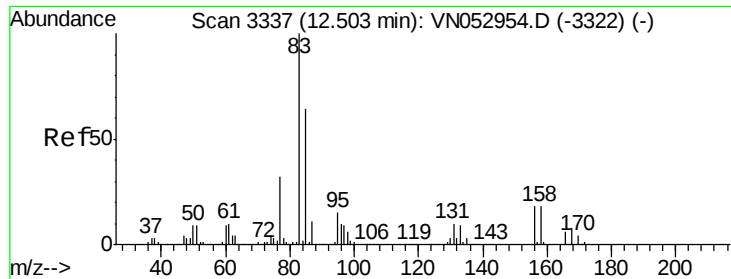
43 100

70 44.6 34.2 51.4

55 24.5 20.3 30.5

61 25.6 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 51.833 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion: 83 Resp: 533628

Ion Ratio Lower Upper

83 100

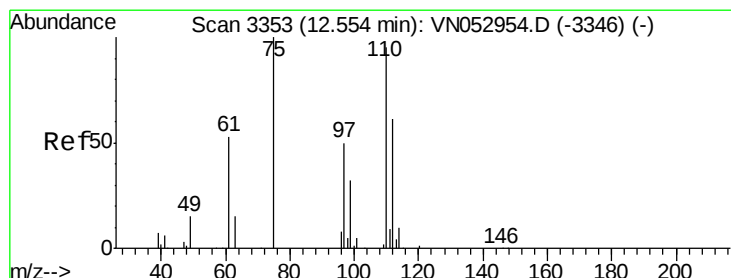
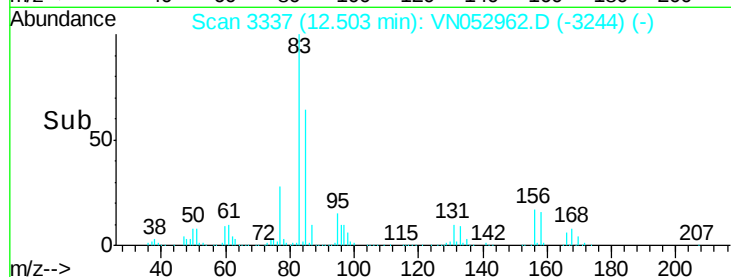
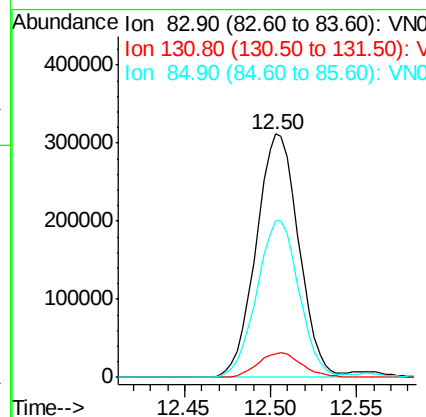
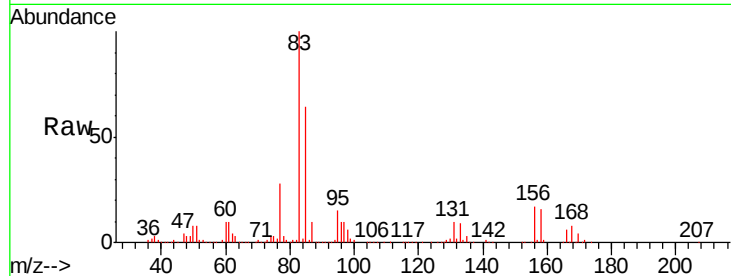
131 10.6 5.2 15.6

85 64.0 32.4 97.0

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#76

1,2,3-Trichloropropane

Concen: 42.542 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN052962.D

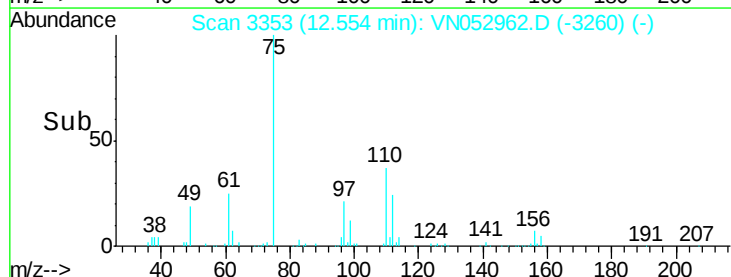
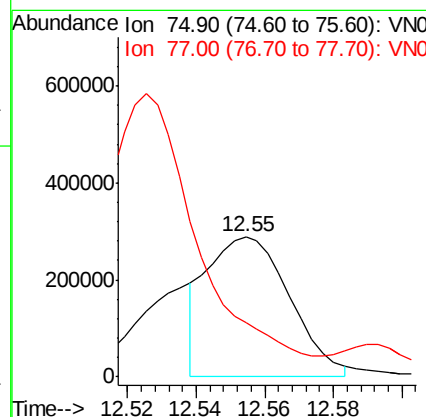
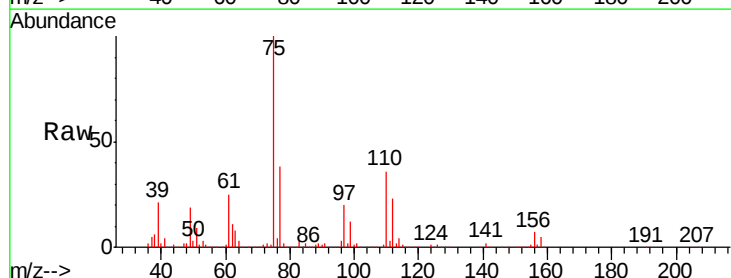
Acq: 18 Dec 2018 15:44

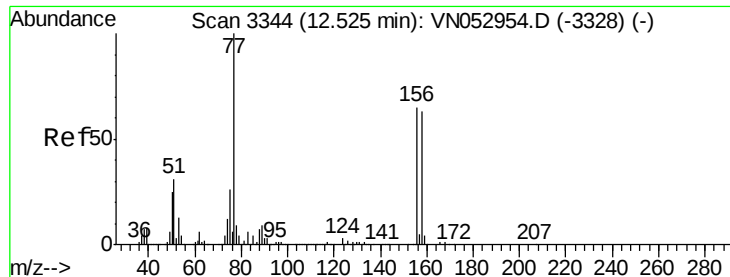
Tgt Ion: 75 Resp: 480326

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 50.287 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

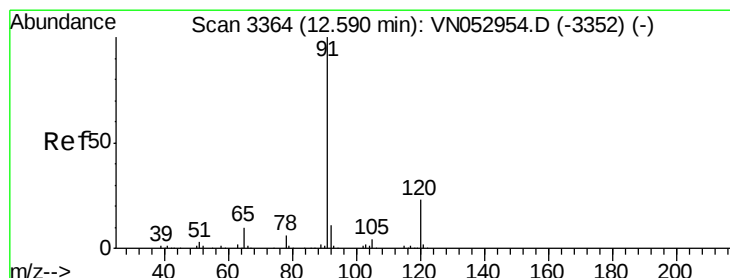
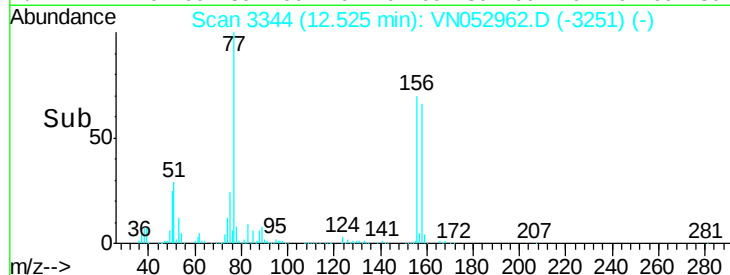
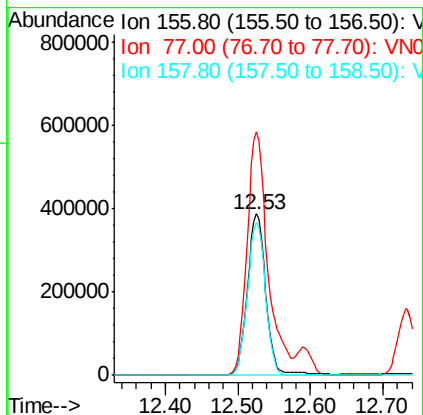
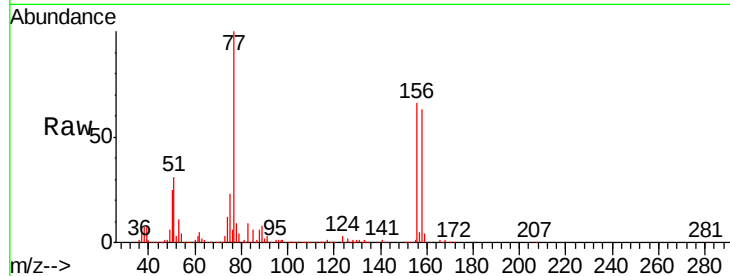
ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion:	156	Resp:	685957
Ion Ratio	Lower	Upper	
156	100		
77	168.8	91.3	273.8
158	91.9	49.0	147.2

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#78

n-propylbenzene

Concen: 47.013 ug/l

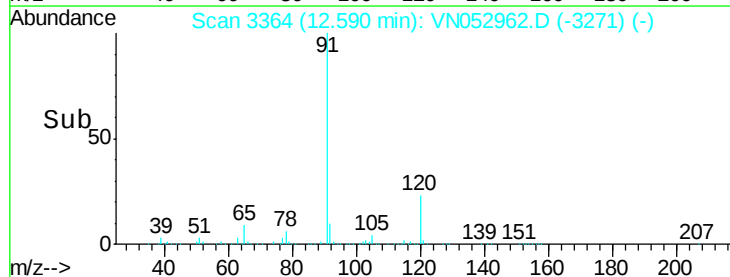
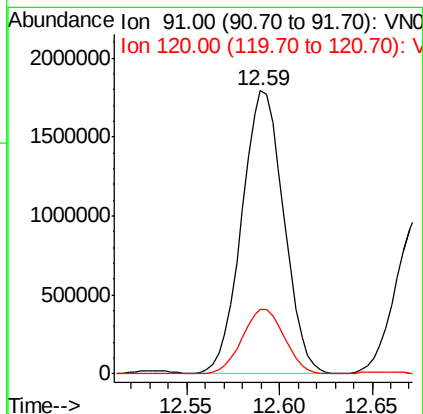
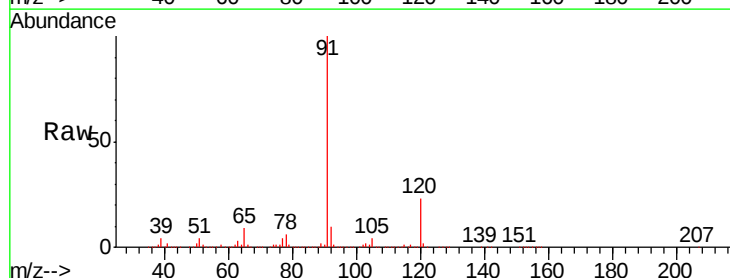
RT: 12.59 min Scan# 3364

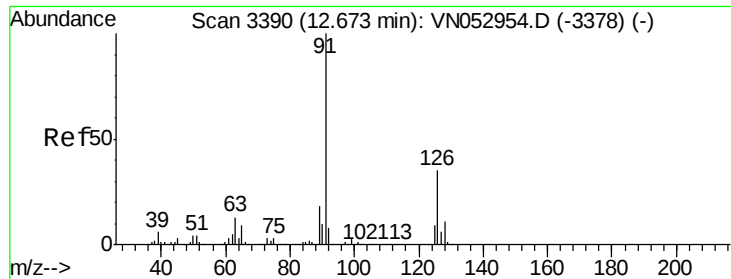
Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Tgt Ion:	91	Resp:	2809757
Ion Ratio	Lower	Upper	
91	100		
120	23.2	11.5	34.5





#79

2-Chlorotoluene

Concen: 44.670 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion: 91 Resp: 1654837

Ion Ratio Lower Upper

91 100

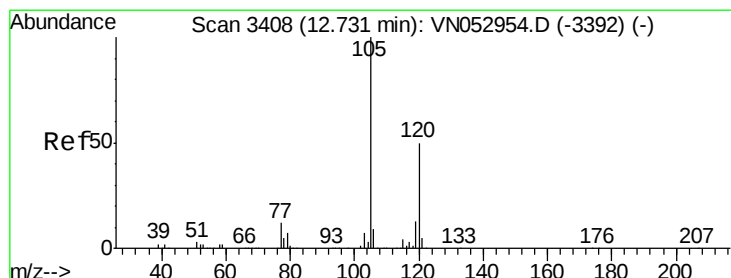
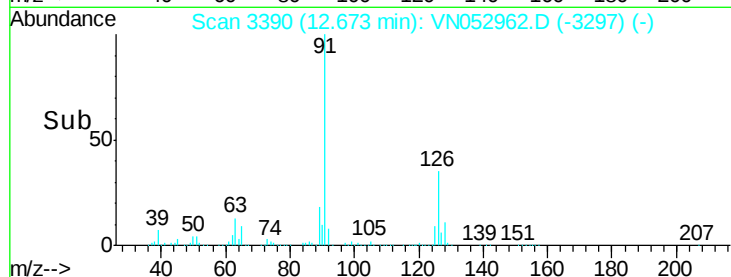
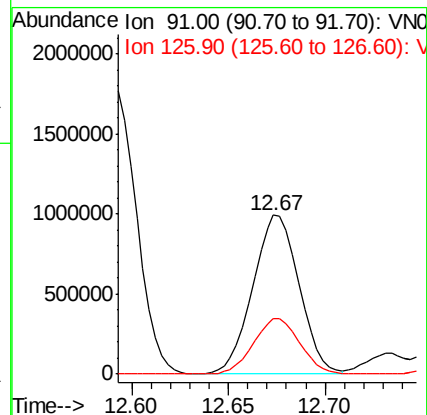
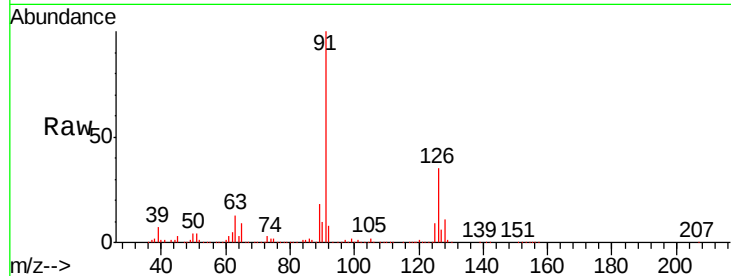
126 35.0 17.4 52.3

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#80

1,3,5-Trimethylbenzene

Concen: 47.795 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052962.D

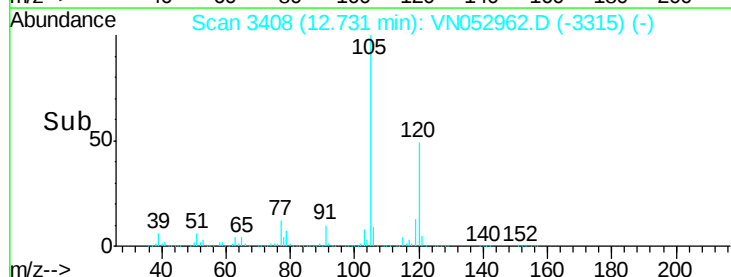
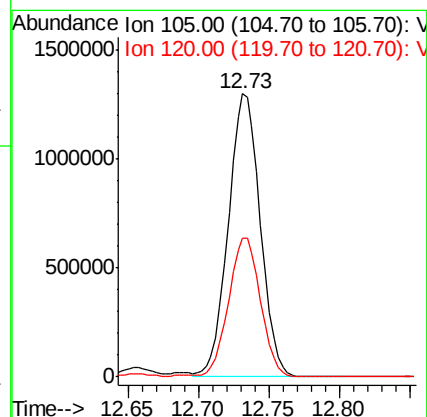
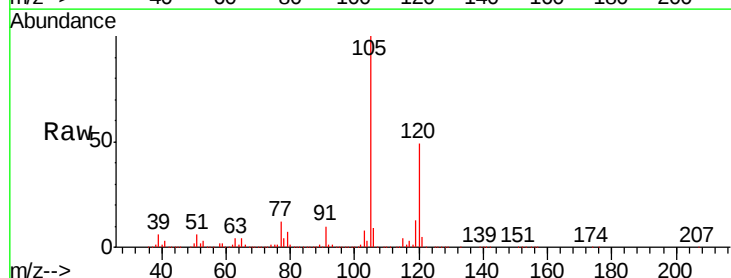
Acq: 18 Dec 2018 15:44

Tgt Ion: 105 Resp: 2044337

Ion Ratio Lower Upper

105 100

120 49.5 24.4 73.2





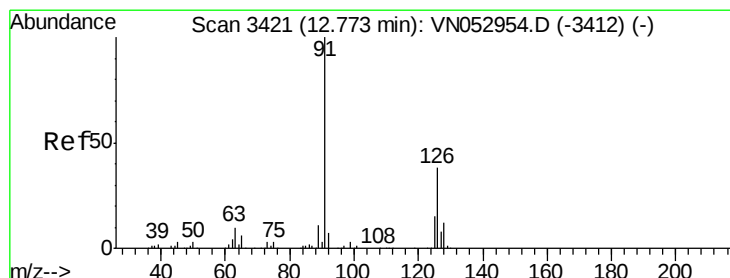
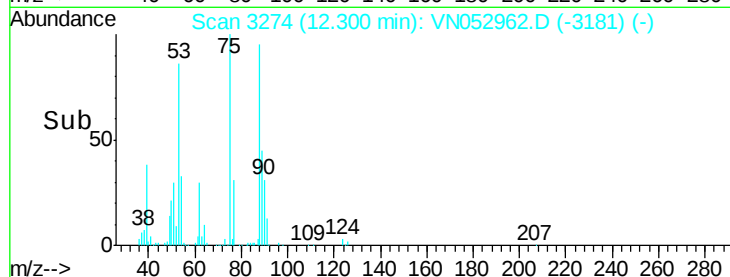
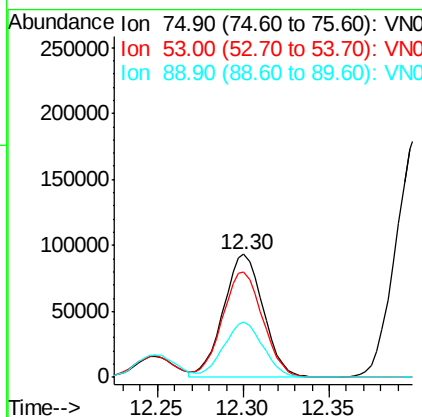
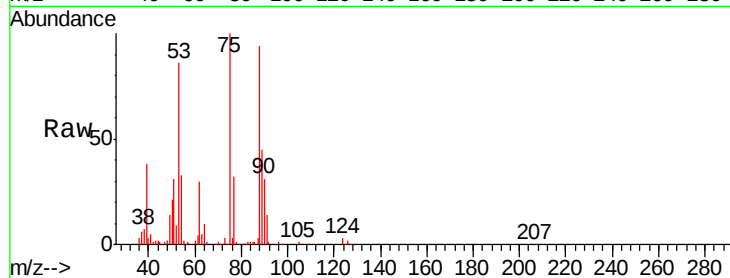
#81
trans-1,4-Dichloro-2-butene
Concen: 43.315 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
P001-SD012-0612-01MSD

Tgt Ion	Ratio	Lower	Upper
75	100		
53	87.2	74.7	112.1
89	44.2	36.1	54.1

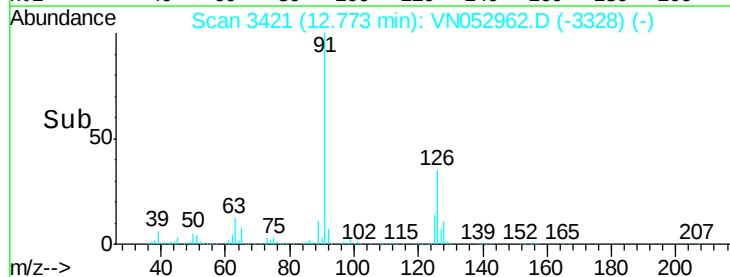
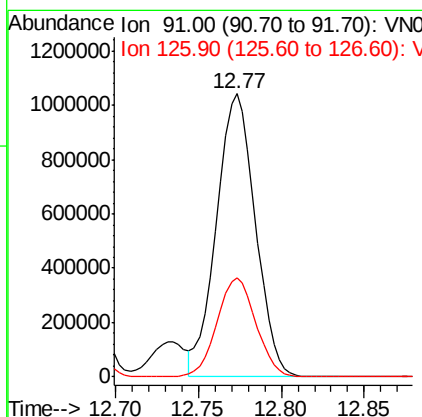
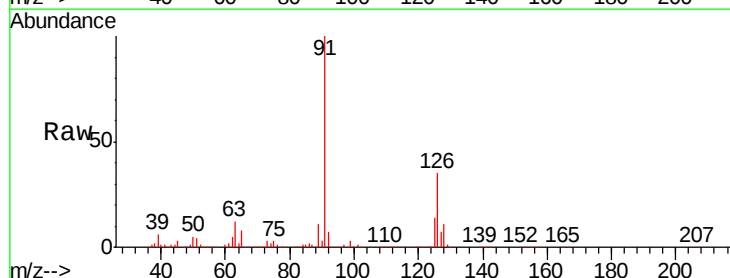
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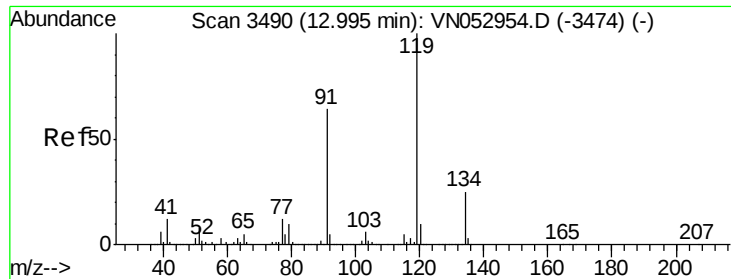
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#82
4-Chlorotoluene
Concen: 46.692 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN052962.D
Acq: 18 Dec 2018 15:44

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.3	51.7





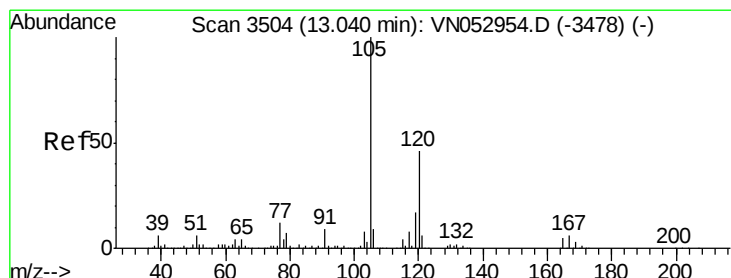
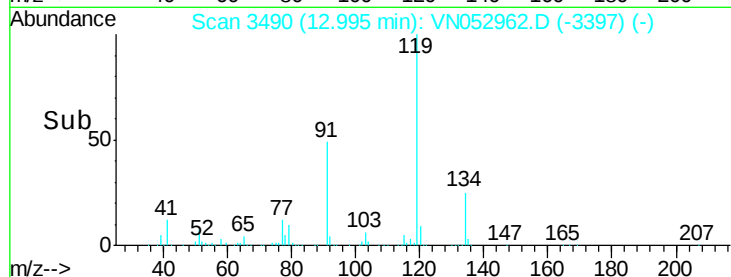
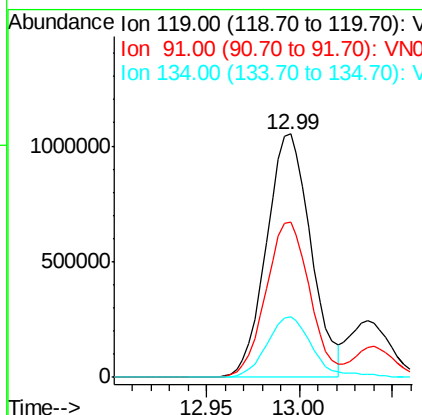
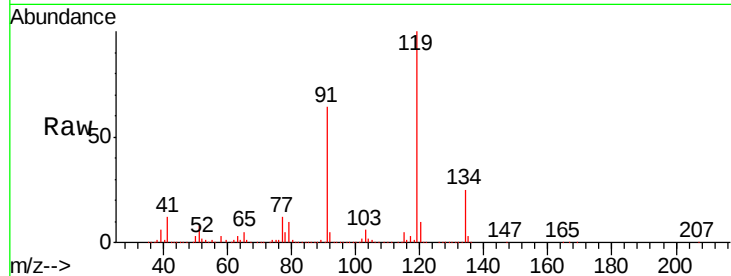
#83
 tert-Butylbenzene
 Concen: 46.321 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-SD012-0612-01MSD

Tgt Ion:119 Resp: 1752261
 Ion Ratio Lower Upper
 119 100
 91 62.6 31.9 95.5
 134 25.6 12.8 38.4

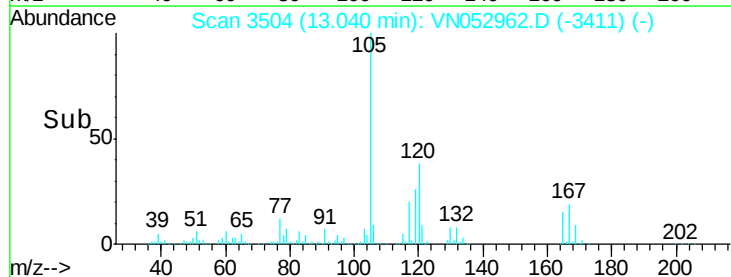
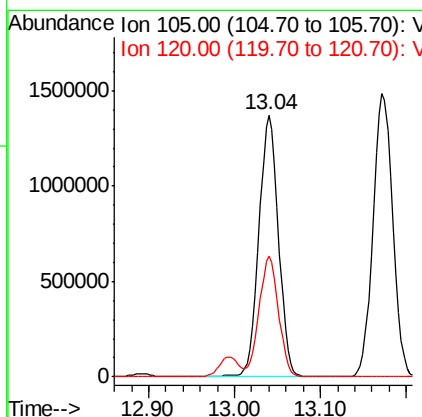
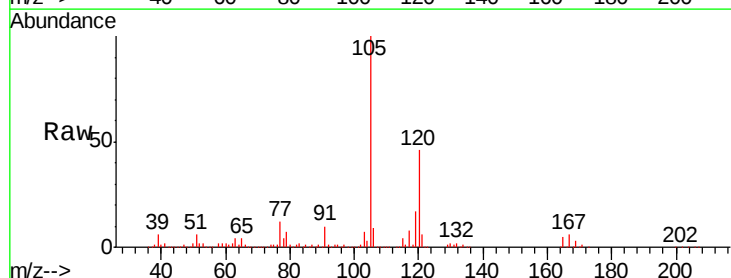
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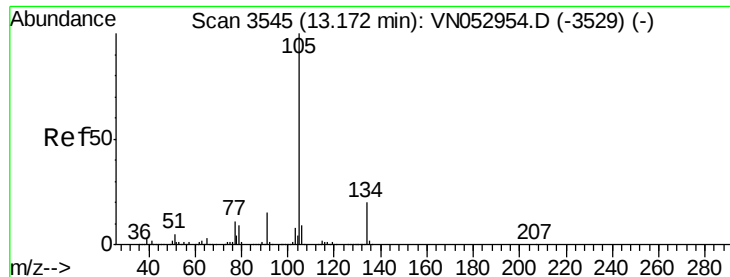
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#84
 1,2,4-Trimethylbenzene
 Concen: 50.611 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Tgt Ion:105 Resp: 2176234
 Ion Ratio Lower Upper
 105 100
 120 46.0 22.9 68.8





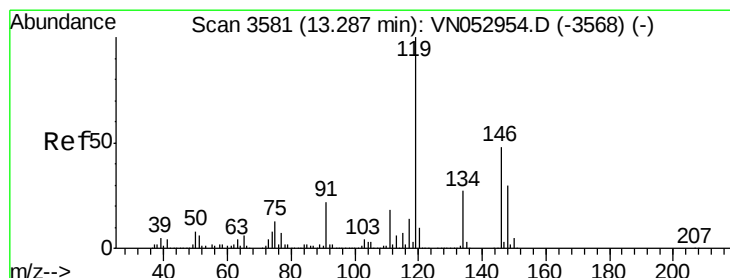
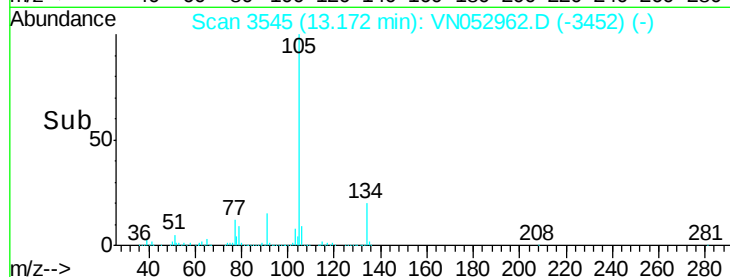
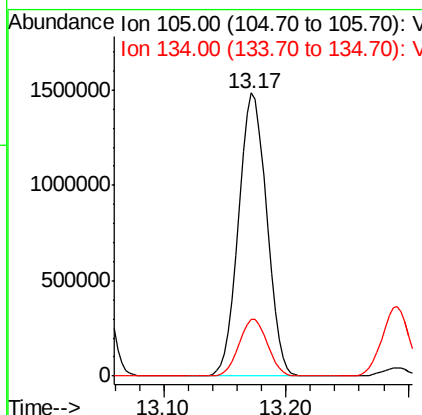
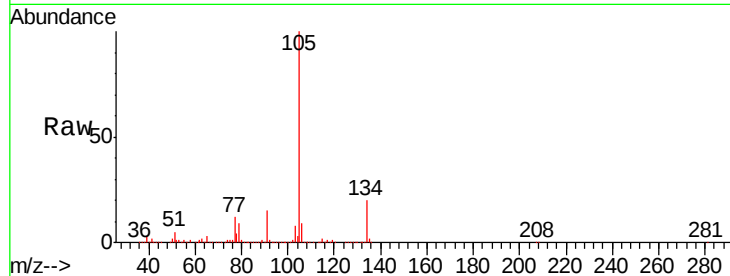
#85
 sec-Butylbenzene
 Concen: 46.210 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-SD012-0612-01MSD

Tgt Ion:105 Resp: 2364431
 Ion Ratio Lower Upper
 105 100
 134 20.3 10.1 30.3

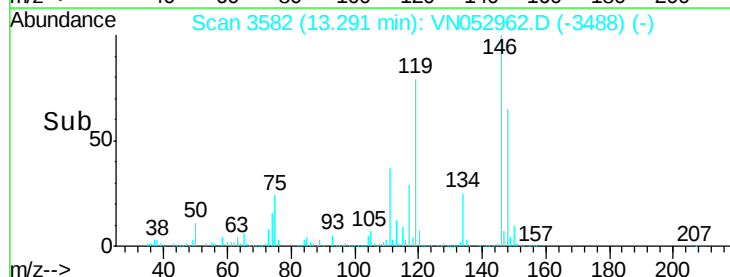
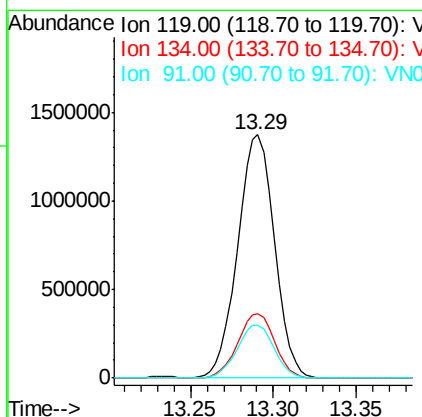
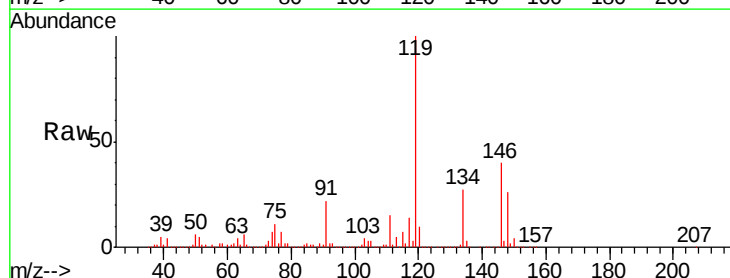
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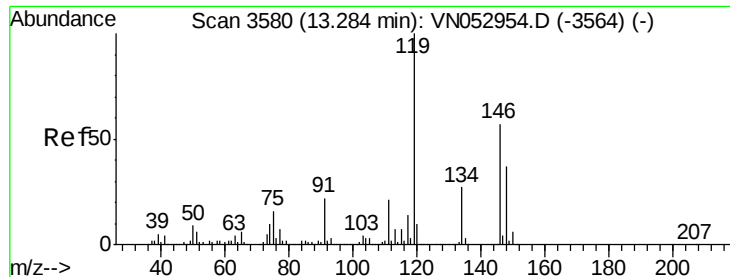
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#86
 p-Isopropyltoluene
 Concen: 47.910 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Tgt Ion:119 Resp: 2118238
 Ion Ratio Lower Upper
 119 100
 134 26.6 13.4 40.2
 91 21.8 11.1 33.3





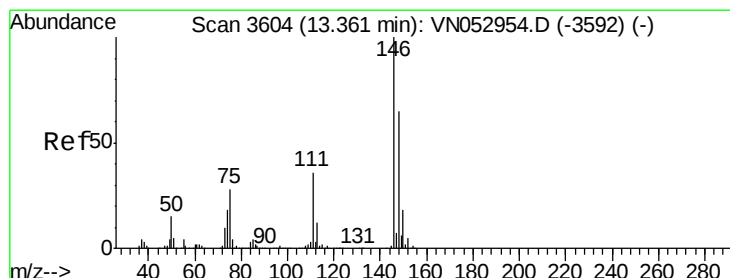
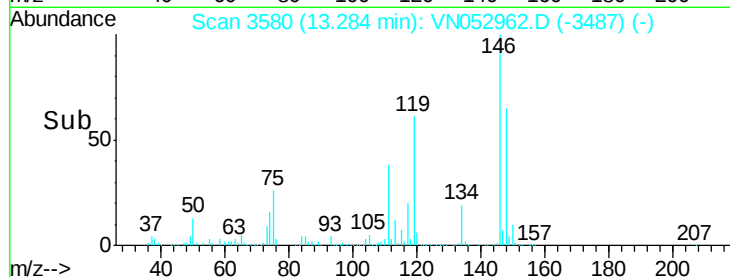
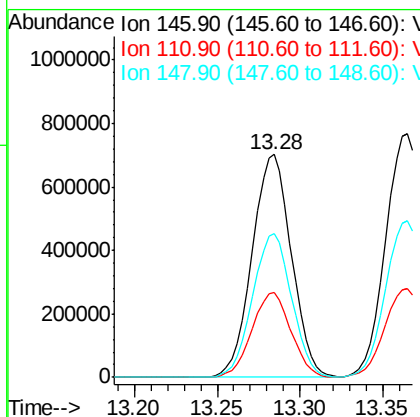
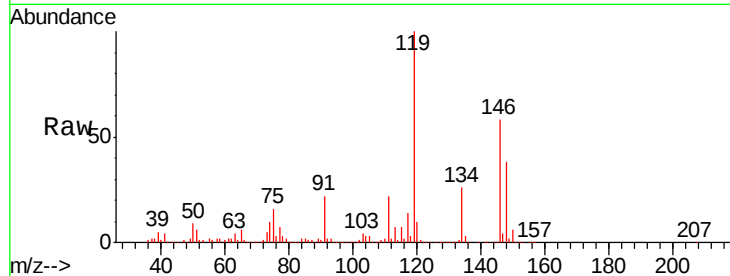
#87
 1,3-Dichlorobenzene
 Concen: 47.893 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-SD012-0612-01MSD

Tgt Ion:146 Resp: 1156267
 Ion Ratio Lower Upper
 146 100
 111 37.8 19.1 57.1
 148 64.3 32.0 96.0

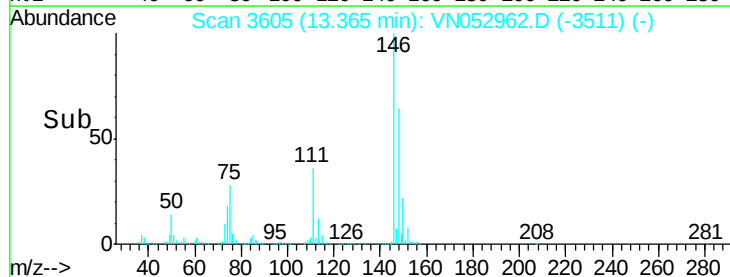
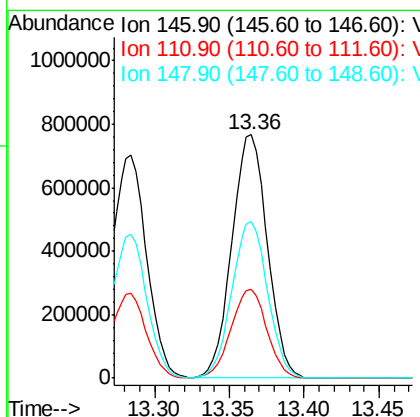
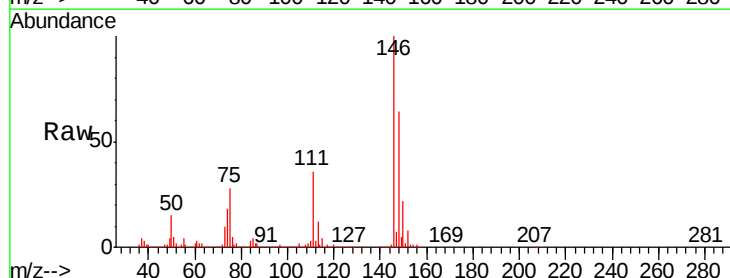
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#88
 1,4-Dichlorobenzene
 Concen: 51.775 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Tgt Ion:146 Resp: 1265861
 Ion Ratio Lower Upper
 146 100
 111 36.8 18.6 55.8
 148 64.8 32.1 96.5





#89

n-Butylbenzene

Concen: 45.736 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion: 91 Resp: 1739656

Ion Ratio Lower Upper

91 100

92 52.7 26.3 78.9

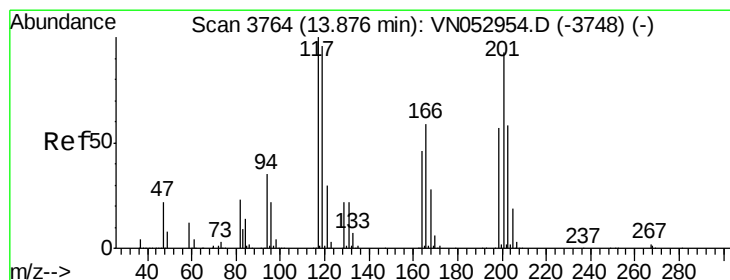
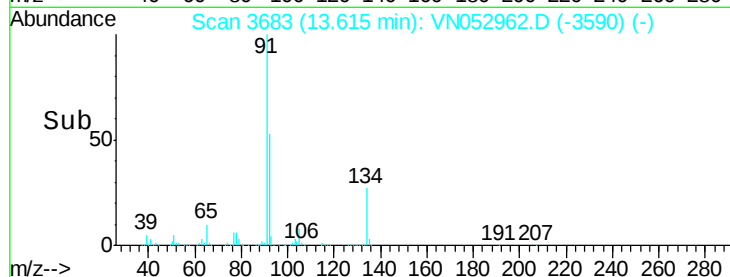
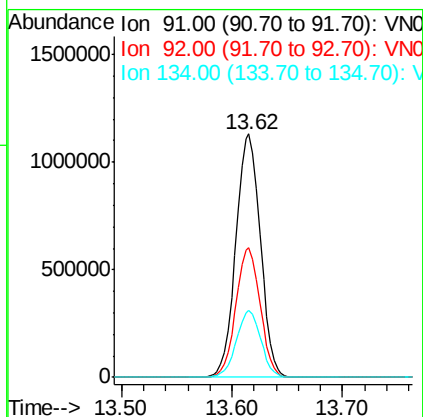
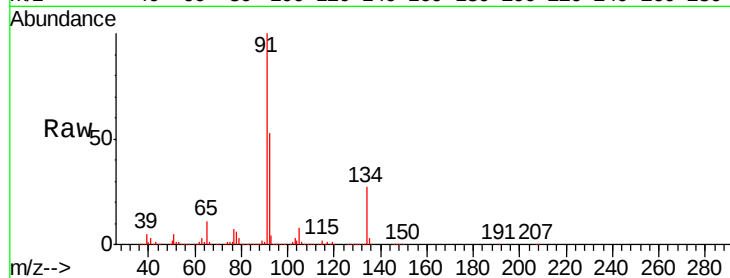
134 27.5 13.3 39.8

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#90

Hexachloroethane

Concen: 46.787 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN052962.D

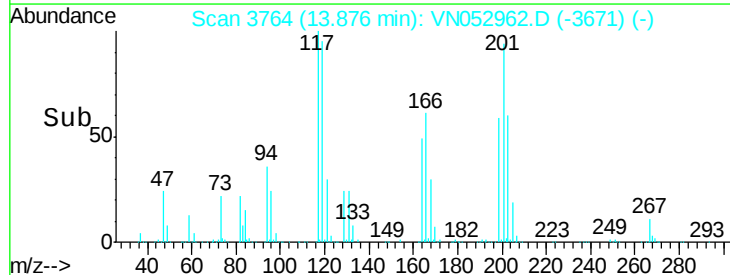
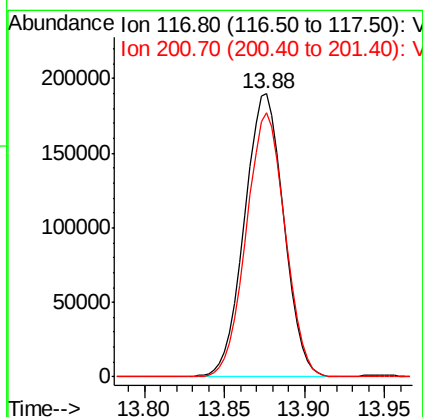
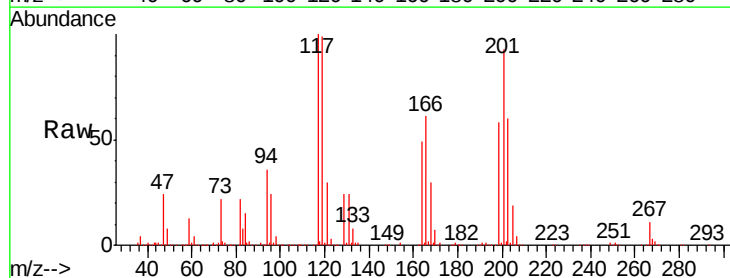
Acq: 18 Dec 2018 15:44

Tgt Ion: 117 Resp: 317438

Ion Ratio Lower Upper

117 100

201 92.6 45.7 137.1





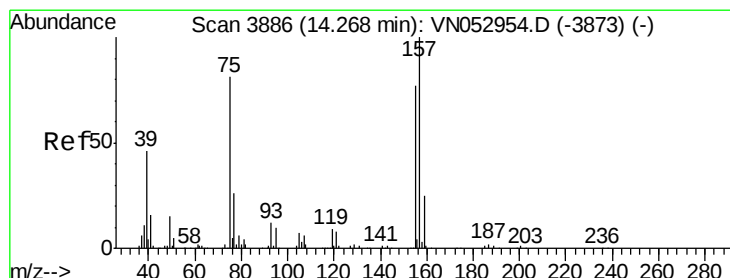
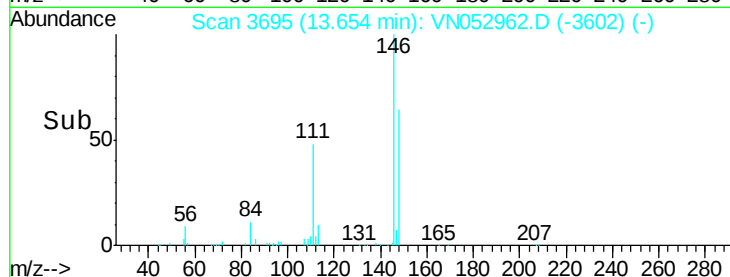
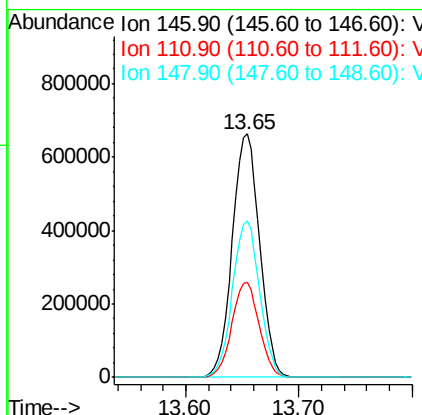
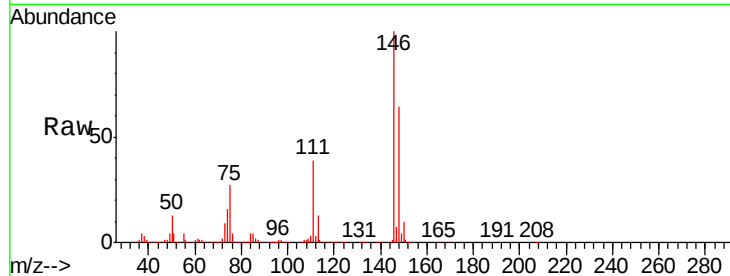
#91
 1,2-Dichlorobenzene
 Concen: 49.052 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-SD012-0612-01MSD

Tgt Ion: 146 Resp: 1114568
 Ion Ratio Lower Upper
 146 100
 111 39.0 19.7 59.0
 148 63.9 32.0 96.0

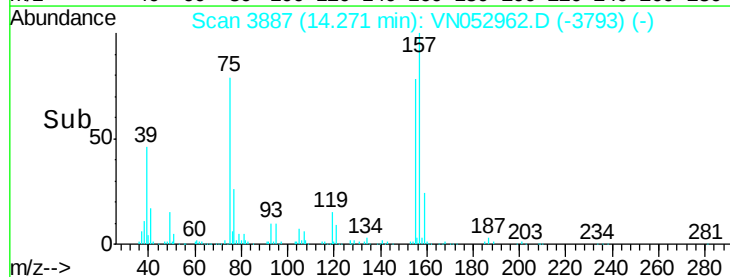
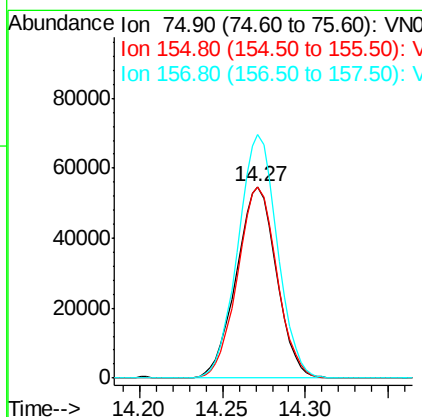
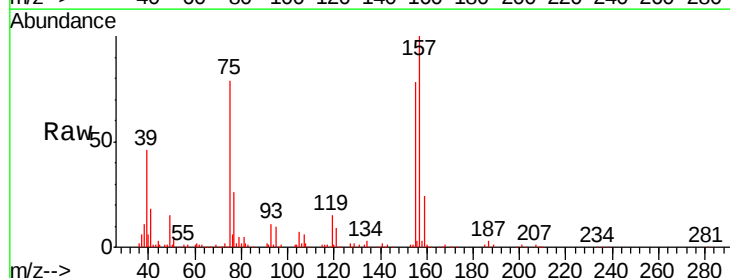
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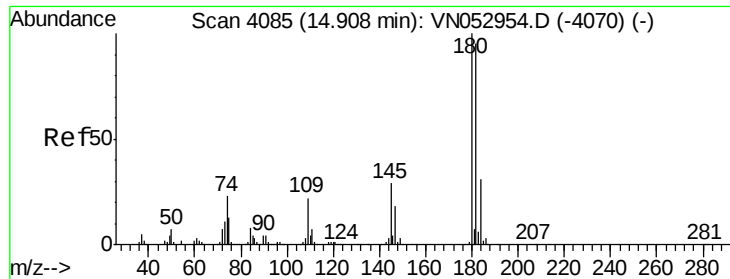
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 51.727 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Tgt Ion: 75 Resp: 92078
 Ion Ratio Lower Upper
 75 100
 155 97.9 48.2 144.6
 157 125.2 61.2 183.5





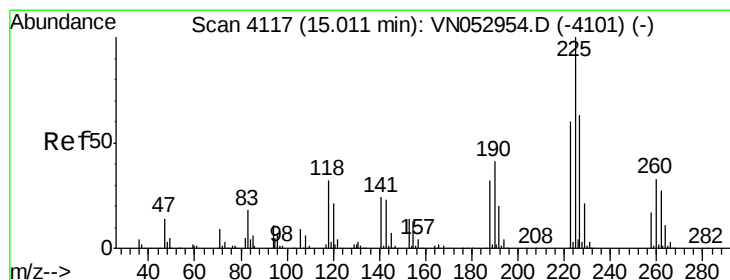
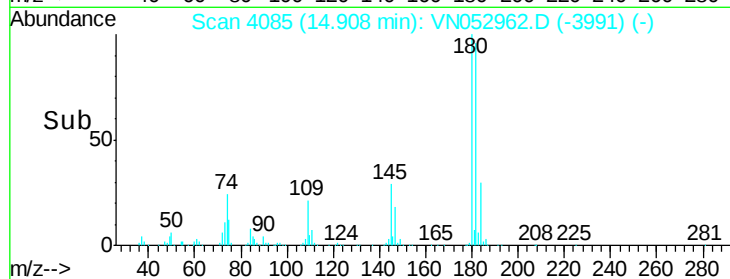
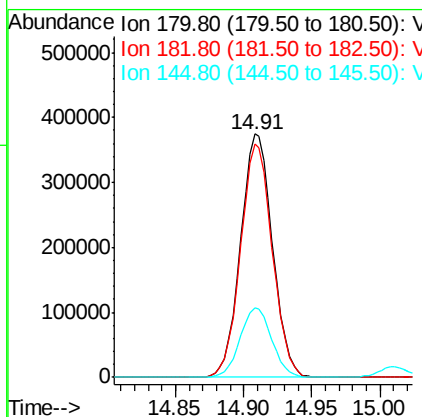
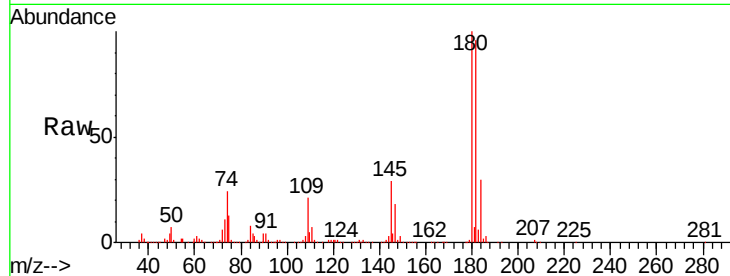
#93
 1,2,4-Trichlorobenzene
 Concen: 50.291 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-SD012-0612-01MSD

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	605458		
182	95.4	47.8	143.3	
145	28.5	14.2	42.6	

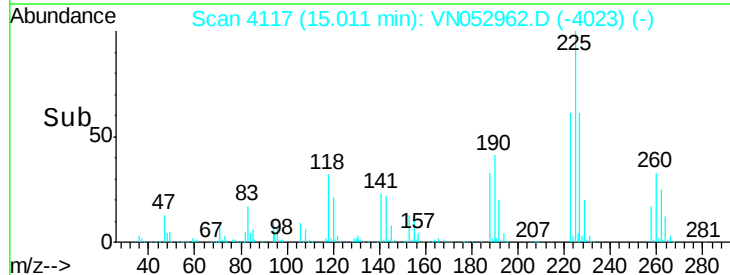
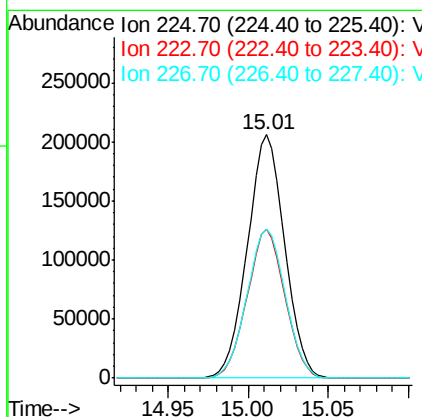
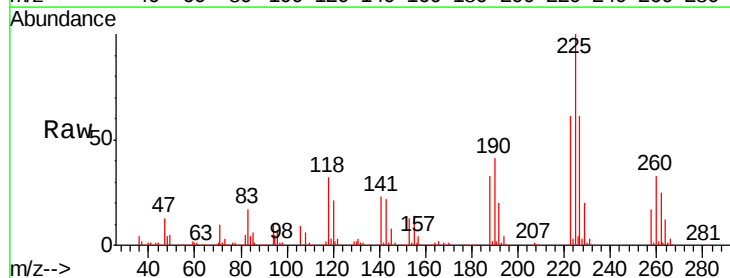
Manual Integrations
 APPROVED

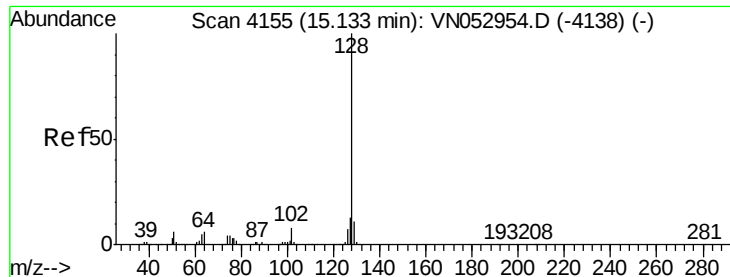
MMDadoda
 12/19/2018 12:06:45 PM



#94
 Hexachlorobutadiene
 Concen: 53.045 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052962.D
 Acq: 18 Dec 2018 15:44

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	329546		
223	61.9	31.5	94.5	
227	63.1	31.9	95.7	





#95

Naphthalene

Concen: 55.398 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

P001-SD012-0612-01MSD

Tgt Ion:128 Resp: 1464203

Ion Ratio Lower Upper

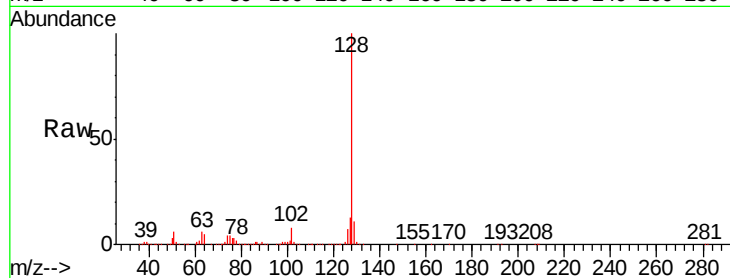
128 100

127 12.9 10.2 15.4

129 10.8 8.6 13.0

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:06:45 PM



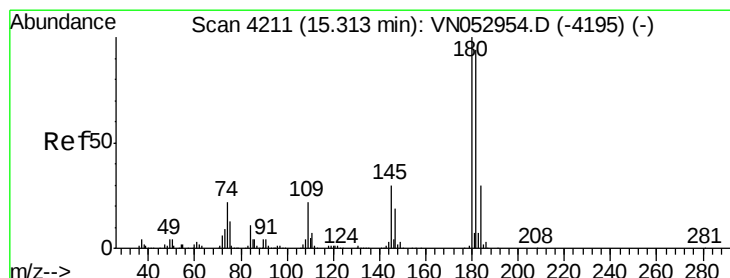
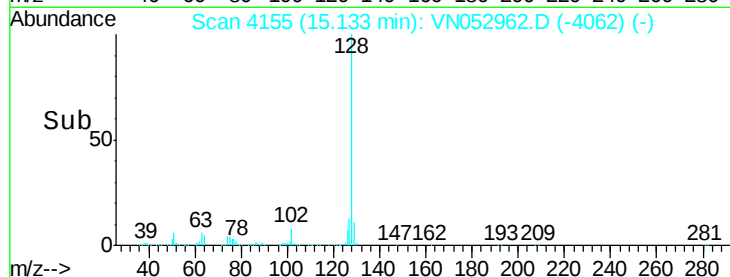
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.13

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 50.510 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052962.D

Acq: 18 Dec 2018 15:44

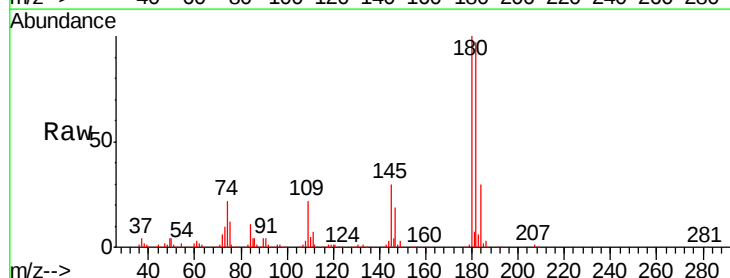
Tgt Ion:180 Resp: 547610

Ion Ratio Lower Upper

180 100

182 95.7 47.9 143.7

145 30.2 15.0 45.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

15.32

Time-->

