

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102318\
 Data File : VN051961.D
 Acq On : 23 Oct 2018 13:34
 Operator : MD\SY
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 10:09:15 AM

Quant Time: Oct 24 04:36:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 04:09:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1018863	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1481460	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1353717	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	697358	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	186630	20.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.14%	
35) Dibromofluoromethane	7.59	113	187673	19.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.70%	
50) Toluene-d8	10.09	98	666511	19.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.02%	
62) 4-Bromofluorobenzene	12.40	95	220424	18.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.54%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	123091	19.038	ug/l	100
3) Chloromethane	2.06	50	114485	19.665	ug/l	97
4) Vinyl Chloride	2.19	62	149261	19.128	ug/l	100
5) Bromomethane	2.58	94	139974	18.735	ug/l	96
6) Chloroethane	2.71	64	111946	19.323	ug/l	96
7) Trichlorofluoromethane	3.03	101	269273	19.366	ug/l	98
8) Diethyl Ether	3.42	74	81087	19.615	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.77	101	159839	19.190	ug/l	99
10) Methyl Iodide	3.96	142	233660	18.961	ug/l	99
11) Tert butyl alcohol	4.77	59	45388m	96.098	ug/l	
12) 1,1-Dichloroethene	3.74	96	145993	19.572	ug/l	96
13) Acrolein	3.61	56	23447	99.862	ug/l	99
14) Allyl chloride	4.33	41	150735	21.207	ug/l	97
15) Acrylonitrile	5.00	53	200861	104.142	ug/l	98
16) Acetone	3.82	43	142129	95.067	ug/l	100
17) Carbon Disulfide	4.06	76	320132	18.055	ug/l	98
18) Methyl Acetate	4.33	43	92148	18.267	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	401785	20.063	ug/l	94
20) Methylene Chloride	4.55	84	166377	18.970	ug/l	96
21) trans-1,2-Dichloroethene	5.05	96	161699	19.141	ug/l	98
22) Diisopropyl ether	5.95	45	358236	20.288	ug/l	97
23) Vinyl Acetate	5.90	43	1209497	98.457	ug/l	100
24) 1,1-Dichloroethane	5.86	63	262148	19.884	ug/l	99
25) 2-Butanone	6.84	43	221399	103.879	ug/l	99
26) 2,2-Dichloropropane	6.83	77	232333	19.261	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	194928	19.840	ug/l	98
28) Bromochloromethane	7.20	49	114988	21.640	ug/l	100
29) Tetrahydrofuran	7.21	42	137942	95.526	ug/l	97
30) Chloroform	7.38	83	316152	19.639	ug/l	99
31) Cyclohexane	7.66	56	220682	15.539	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	282592	19.197	ug/l	99
36) 1,1-Dichloropropene	7.80	75	214102	18.840	ug/l	99
37) Ethyl Acetate	6.93	43	104365	20.939	ug/l	100
38) Carbon Tetrachloride	7.78	117	243757	18.684	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.09	83	265654	19.139	ug/l	100
40) Benzene	8.05	78	668803	19.821	ug/l	98
41) Methacrylonitrile	7.17	41	48668	19.058	ug/l	94
42) 1,2-Dichloroethane	8.13	62	210537	19.461	ug/l	100
43) Isopropyl Acetate	8.17	43	188698	19.827	ug/l	98
44) Trichloroethene	8.84	130	207377	19.148	ug/l	99
45) 1,2-Dichloropropane	9.12	63	153291	20.083	ug/l	98
46) Dibromomethane	9.21	93	123647	20.096	ug/l	97
47) Bromodichloromethane	9.40	83	225625	19.417	ug/l	100
48) Methyl methacrylate	9.20	41	91244	19.835	ug/l	98
49) 1,4-Dioxane	9.20	88	33160	393.125	ug/l	94
51) 4-Methyl-2-Pentanone	9.99	43	524693	100.227	ug/l	98
52) Toluene	10.16	92	447599	19.563	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	204693	19.226	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	238703	19.654	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	166145	19.653	ug/l	98
56) Ethyl methacrylate	10.43	69	180062	19.815	ug/l	98
57) 1,3-Dichloropropane	10.71	76	250453	19.515	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	491218	103.309	ug/l	97
59) 2-Hexanone	10.75	43	353490	100.498	ug/l	98
60) Dibromochloromethane	10.90	129	178384	18.829	ug/l	100
61) 1,2-Dibromoethane	11.01	107	174311	19.556	ug/l	99
64) Tetrachloroethene	10.63	164	194513	18.721	ug/l	99
65) Chlorobenzene	11.43	112	530761	19.419	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	187404	19.076	ug/l	99
67) Ethyl Benzene	11.51	91	855020	19.461	ug/l	100
68) m/p-Xylenes	11.62	106	681550	38.827	ug/l	98
69) o-Xylene	11.95	106	333623	19.543	ug/l	97
70) Styrene	11.96	104	533233	19.543	ug/l	99
71) Bromoform	12.13	173	106131	17.710	ug/l #	98
73) Isopropylbenzene	12.25	105	890148	20.127	ug/l	100
74) N-amyl acetate	12.07	43	173478	19.928	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	191754	20.983	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	160030m	22.534	ug/l	
77) Bromobenzene	12.53	156	240634	19.715	ug/l	97
78) n-propylbenzene	12.59	91	971622	20.366	ug/l	98
79) 2-Chlorotoluene	12.67	91	575384	20.710	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	728191	20.522	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	37287	19.203	ug/l	92
82) 4-Chlorotoluene	12.77	91	582205	20.240	ug/l	99
83) tert-Butylbenzene	12.99	119	666480	19.859	ug/l	94
84) 1,2,4-Trimethylbenzene	13.04	105	749893	20.488	ug/l	100
85) sec-Butylbenzene	13.17	105	883534	20.158	ug/l	99
86) p-Isopropyltoluene	13.29	119	799098	20.250	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	431815	19.182	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	426522	19.218	ug/l	97
89) n-Butylbenzene	13.62	91	628788	20.011	ug/l	99
90) Hexachloroethane	13.88	117	112135	19.074	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	432625	19.865	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	28190	20.091	ug/l	93

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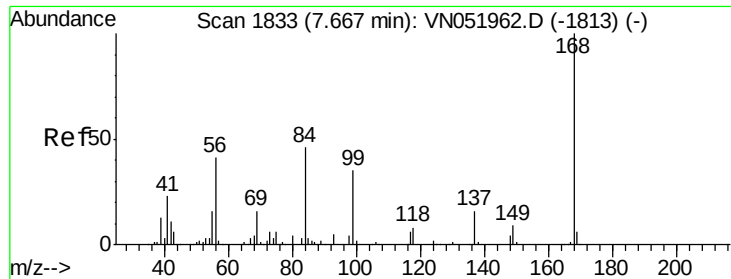
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	241975	18.810	ug/l	99
94) Hexachlorobutadiene	15.01	225	127274	19.255	ug/l	100
95) Naphthalene	15.13	128	562426	20.131	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	236304	19.218	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 1018863

Ion Ratio Lower Upper

168 100

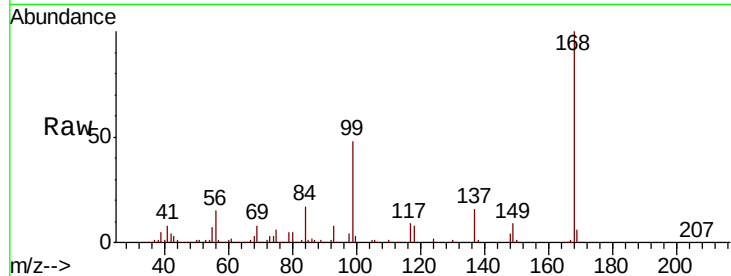
99 47.7 37.8 56.6

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

300000

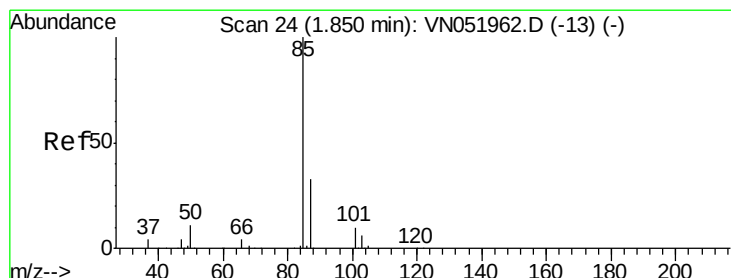
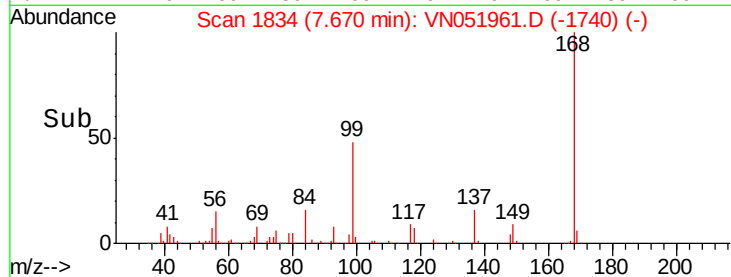
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 19.038 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051961.D

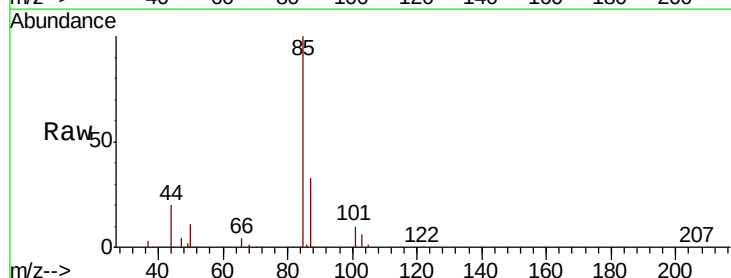
Acq: 23 Oct 2018 13:34

Tgt Ion: 85 Resp: 123091

Ion Ratio Lower Upper

85 100

87 32.7 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

100000

80000

60000

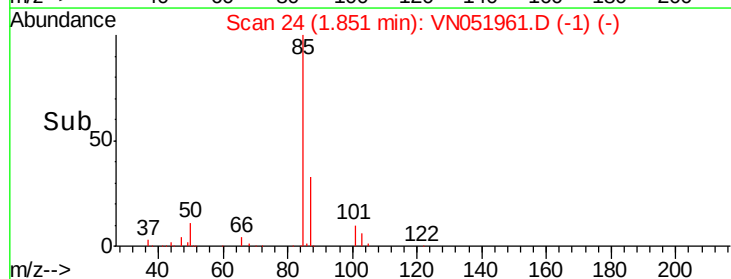
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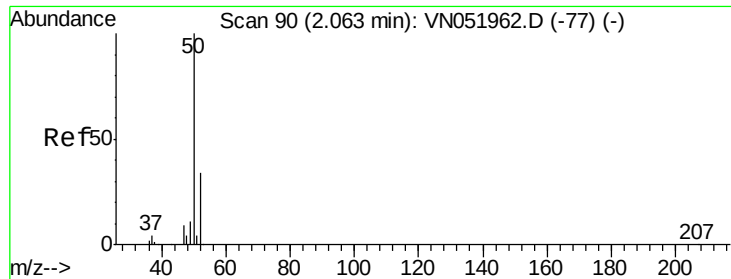
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 19.665 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 114485

Ion Ratio Lower Upper

50 100

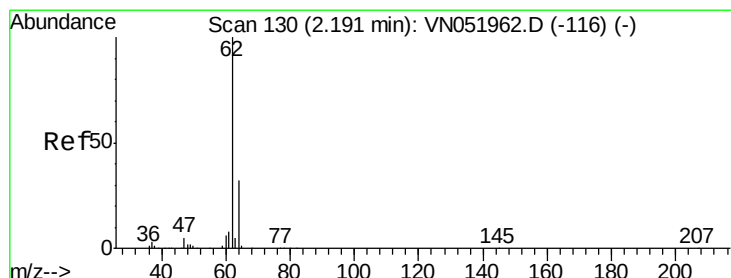
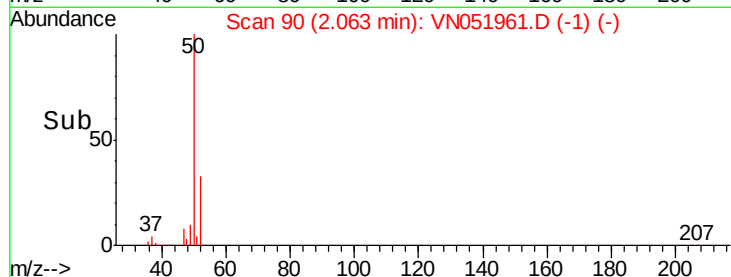
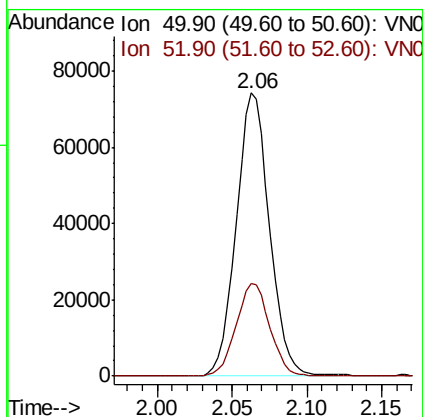
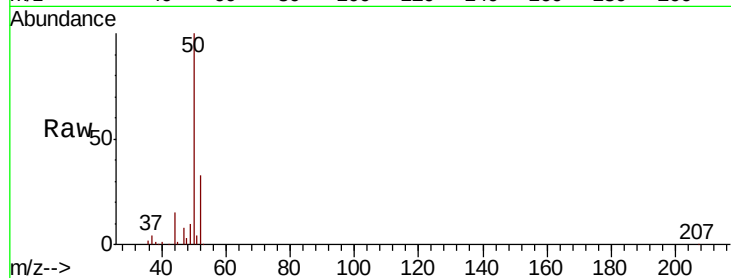
52 32.7 27.5 41.3

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.128 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN051961.D

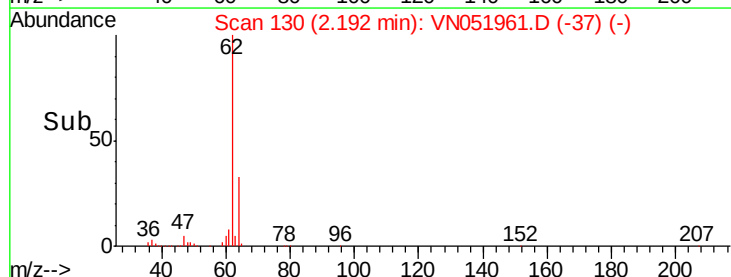
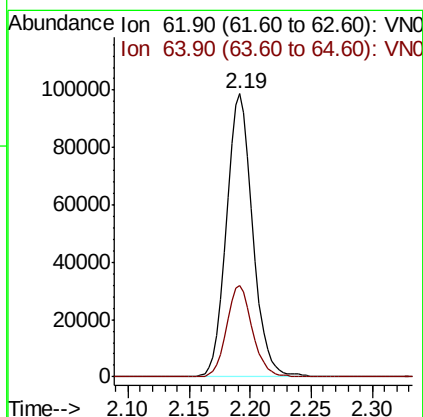
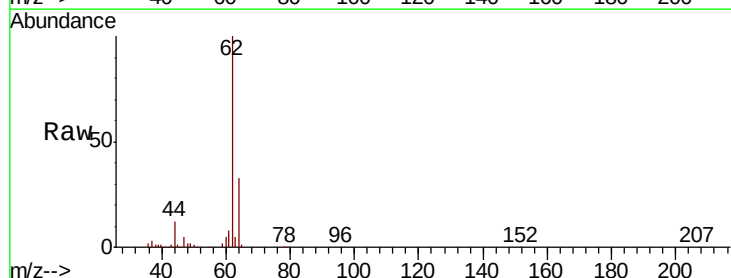
Acq: 23 Oct 2018 13:34

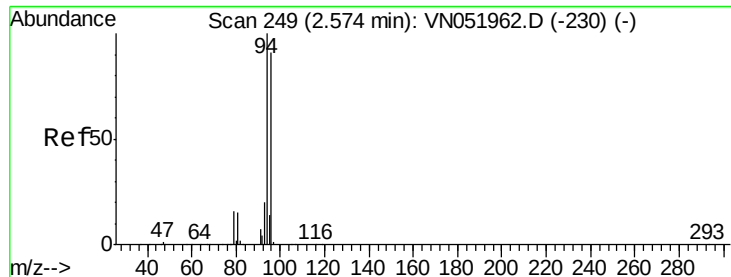
Tgt Ion: 62 Resp: 149261

Ion Ratio Lower Upper

62 100

64 32.5 26.0 39.0





#5

Bromomethane

Concen: 18.735 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

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Tot Ion: 94 Resp: 139974

Ion Ratio Lower Upper

94 100

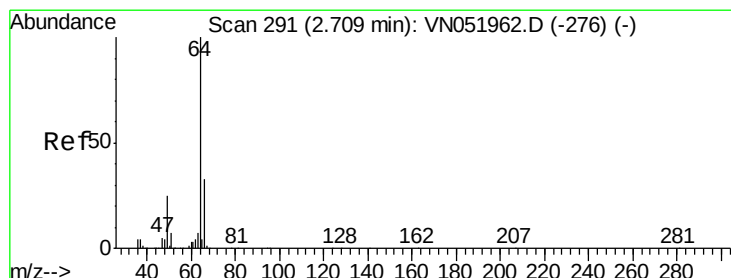
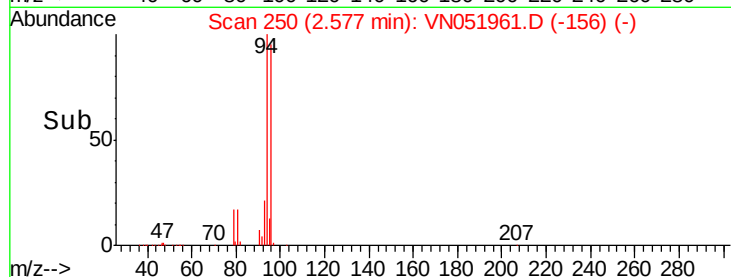
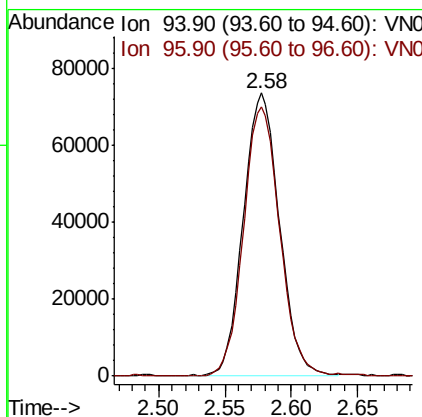
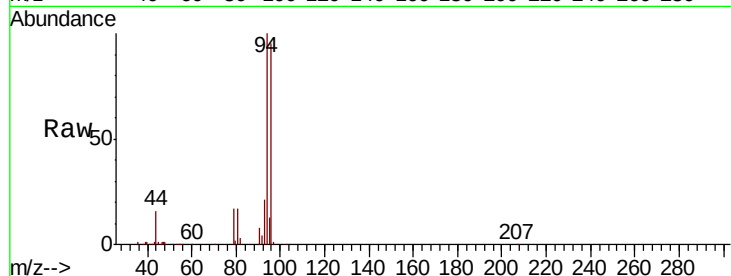
96 95.0 73.0 109.6

Manual Integrations

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#6

Chloroethane

Concen: 19.323 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN051961.D

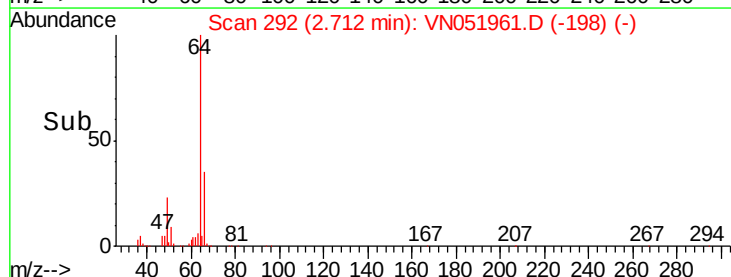
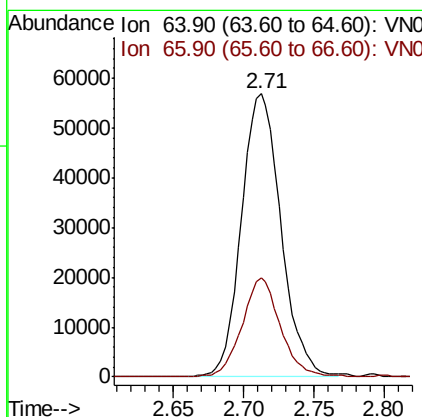
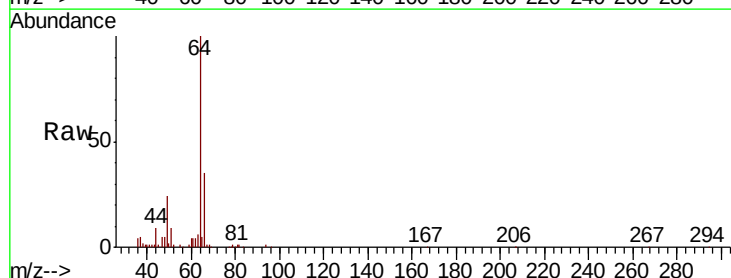
Acq: 23 Oct 2018 13:34

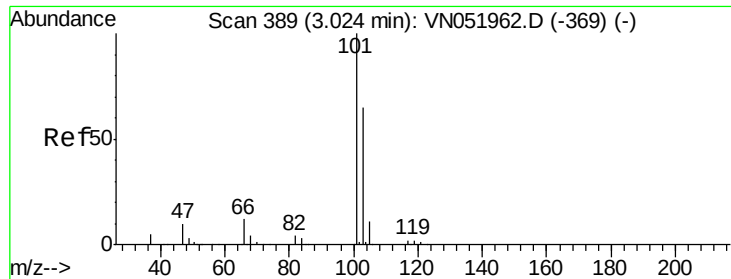
Tgt Ion: 64 Resp: 111946

Ion Ratio Lower Upper

64 100

66 34.8 26.2 39.2





#7

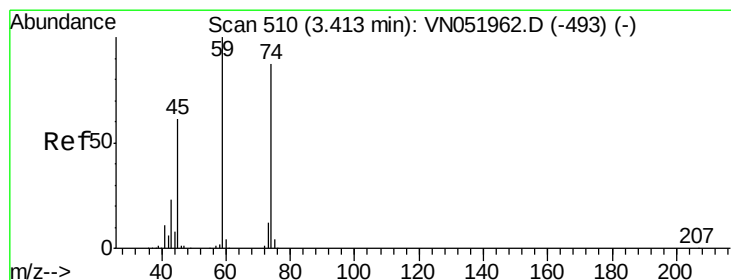
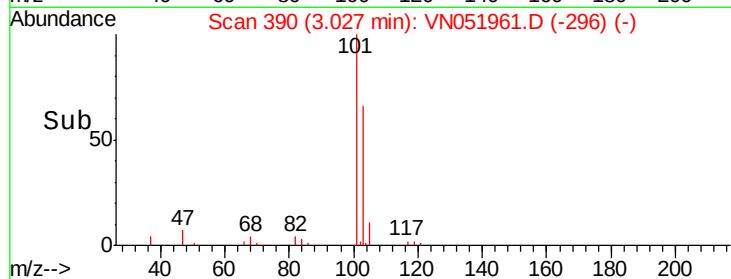
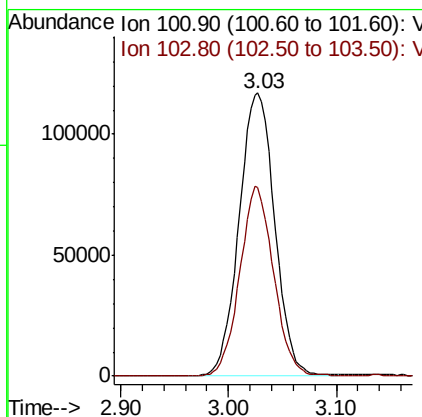
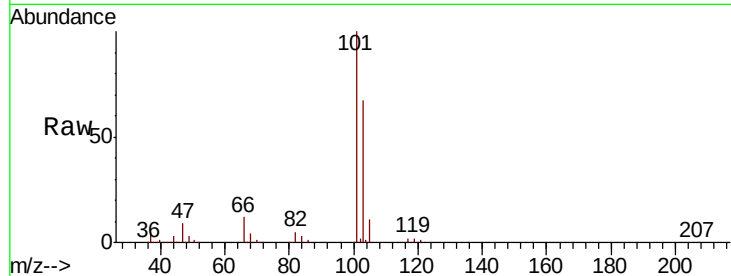
Trichlorofluoromethane
 Concen: 19.366 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

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Tot Ion	Ratio	Lower	Upper
101	100		
103	66.4	52.0	78.0

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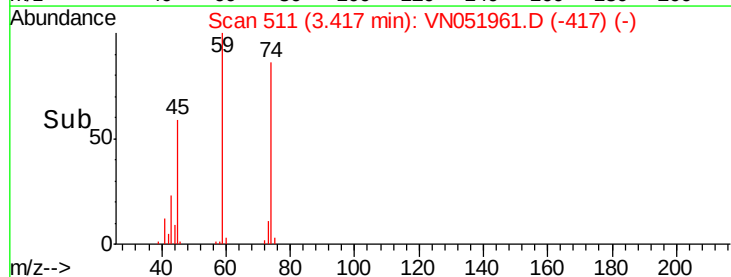
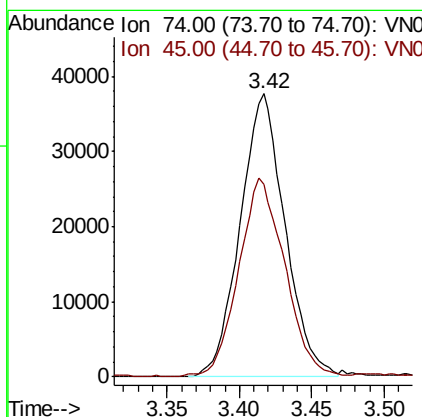
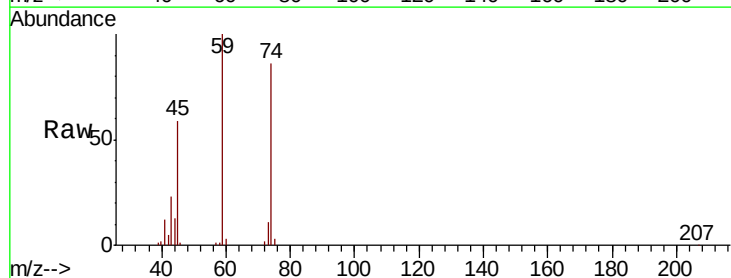
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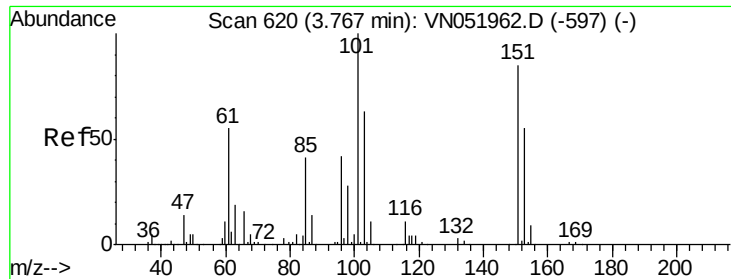


#8

Diethyl Ether
 Concen: 19.615 ug/l
 RT: 3.42 min Scan# 511
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Lower	Upper
74	100		
45	72.2	35.5	106.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.190 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

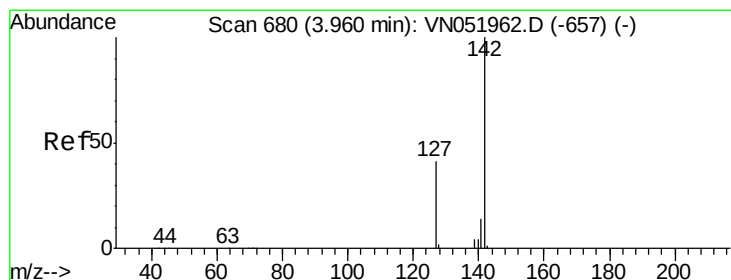
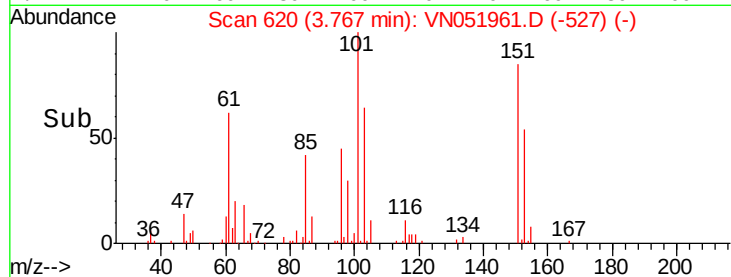
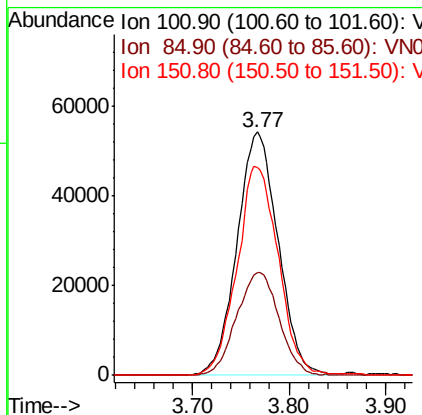
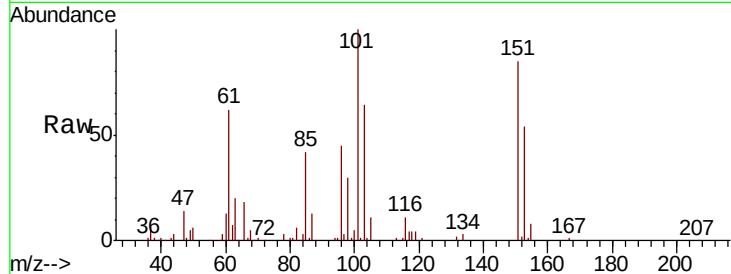
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	159839
Ion Ratio	Lower	Upper	
101	100		
85	43.5	34.2	51.4
151	86.1	69.1	103.7

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#10

Methyl Iodide

Concen: 18.961 ug/l

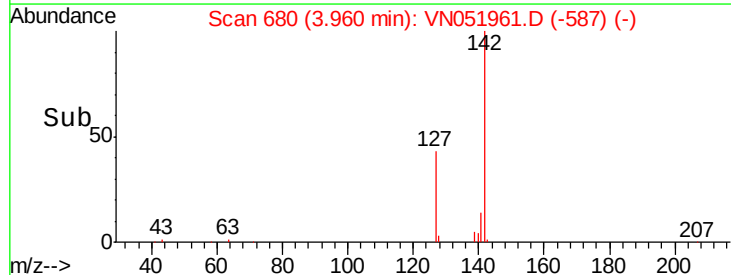
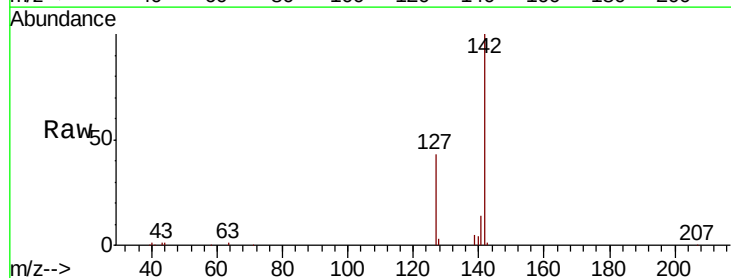
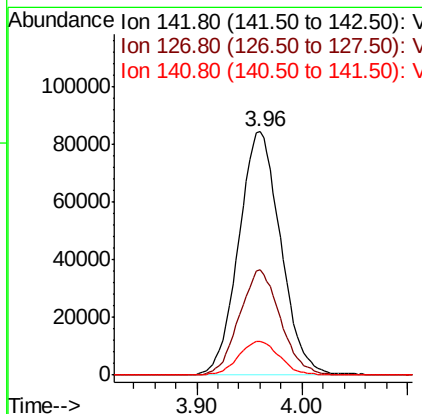
RT: 3.96 min Scan# 680

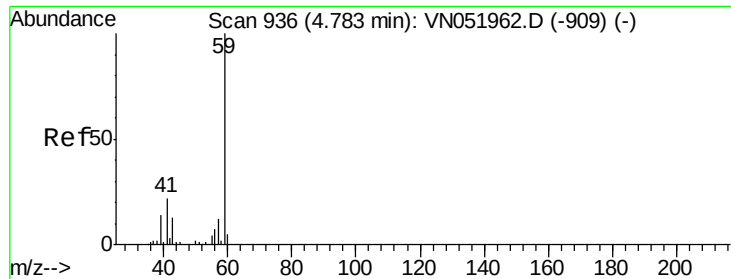
Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Tgt Ion:	142	Resp:	233660
Ion Ratio	Lower	Upper	
142	100		
127	42.2	34.3	51.5
141	13.6	11.4	17.0





#11

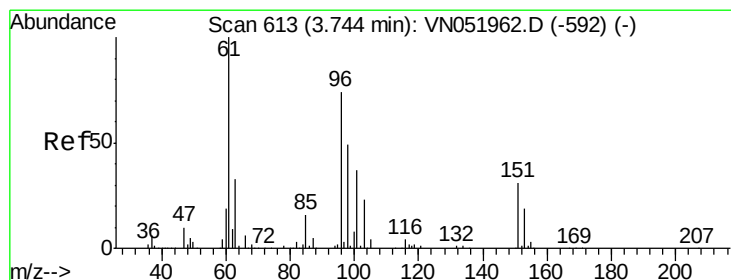
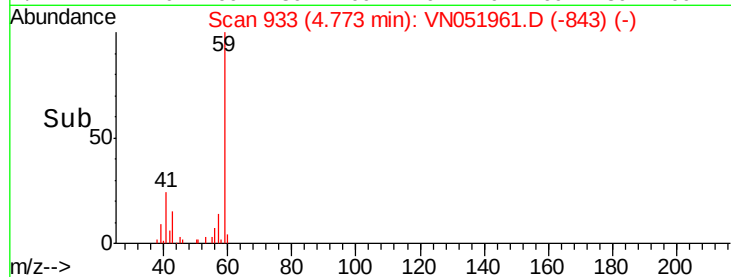
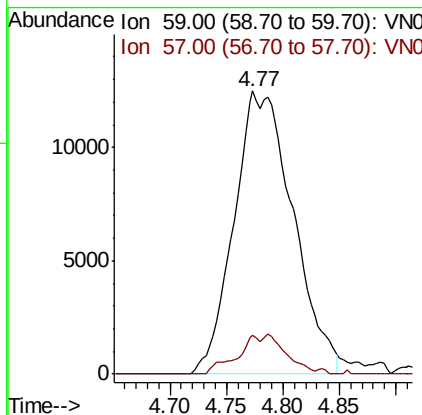
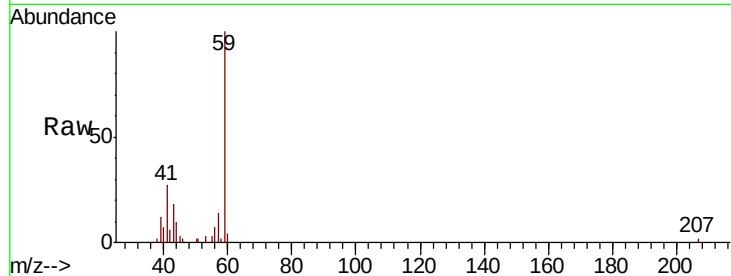
Tert butyl alcohol
Concen: 96.098 ug/l m
RT: 4.77 min Scan# 933
Delta R.T. -0.01 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	59	57	Ratio	100	5.5	Resp	45388	Lower	8.2	Upper	12.4#
Ion	59	57	Ratio	100	5.5	Resp	45388	Lower	8.2	Upper	12.4#

Manual Integrations
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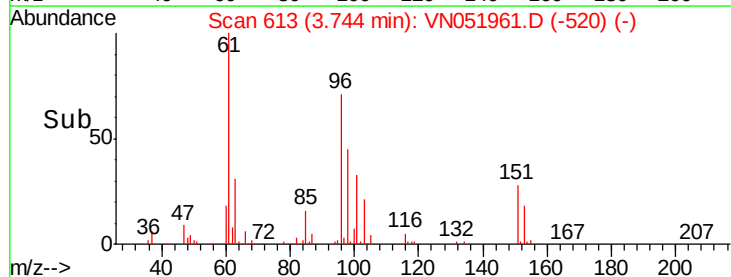
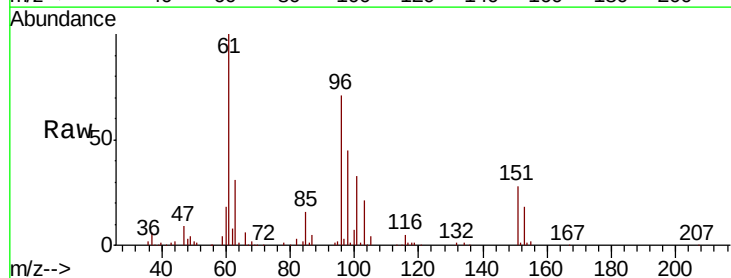
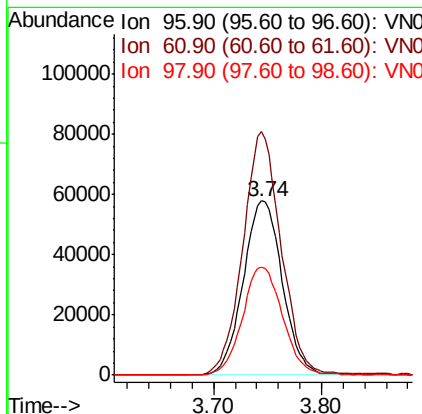
MMDadoda
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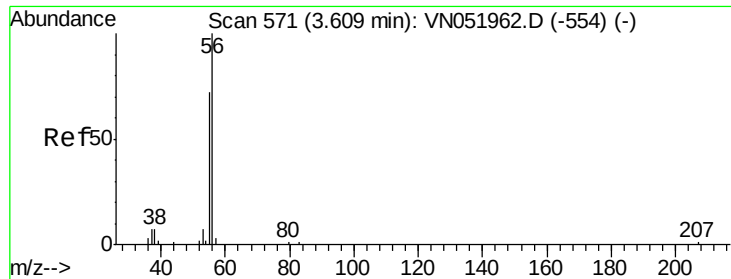


#12

1,1-Dichloroethene
Concen: 19.572 ug/l
RT: 3.74 min Scan# 613
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tgt Ion	96	61	98	Ratio	100	139.9	62.3	Resp	145993	Lower	107.8	52.7	Upper	161.8	79.1
Ion	96	61	98	Ratio	100	139.9	62.3	Resp	145993	Lower	107.8	52.7	Upper	161.8	79.1





#13

Acrolein

Concen: 99.862 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 23447

Ion Ratio Lower Upper

56 100

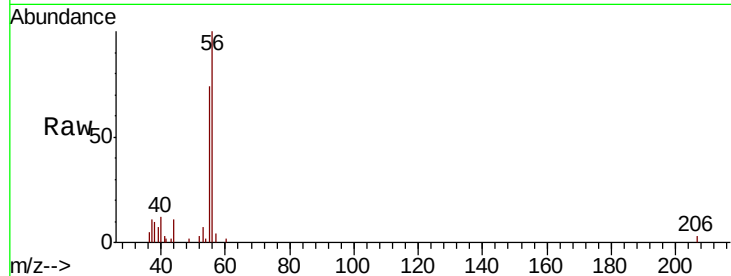
55 71.8 56.6 84.8

Manual Integrations

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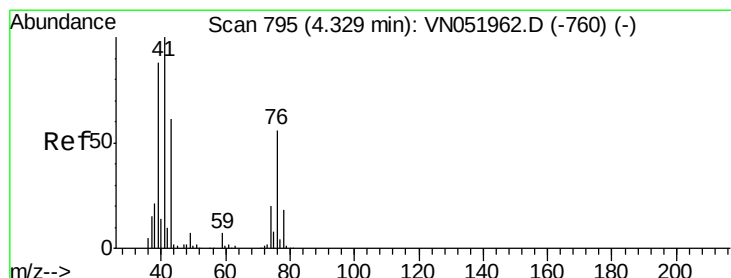
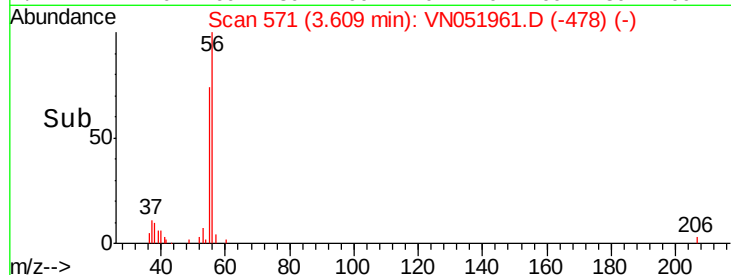
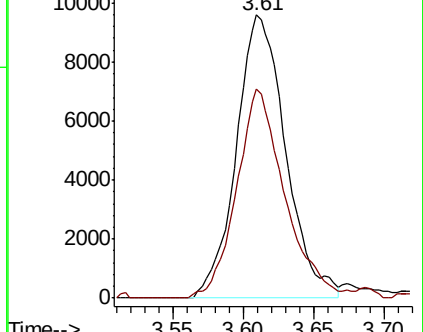
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 21.207 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

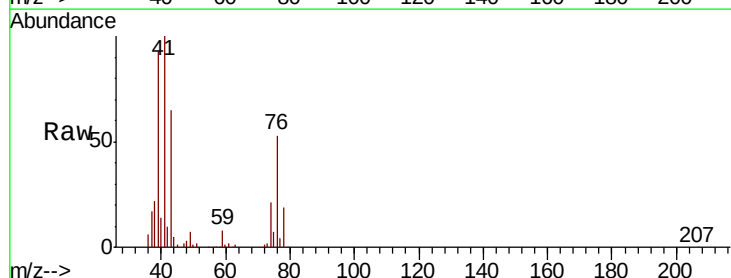
Tgt Ion: 41 Resp: 150735

Ion Ratio Lower Upper

41 100

39 80.7 67.7 101.5

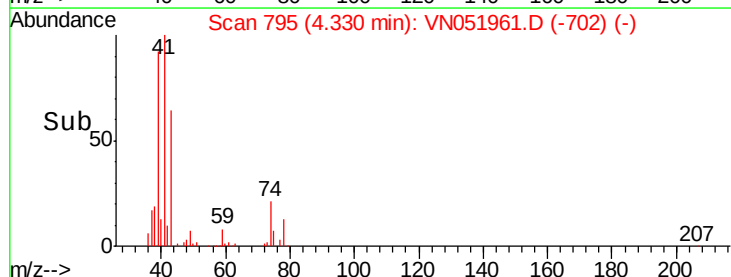
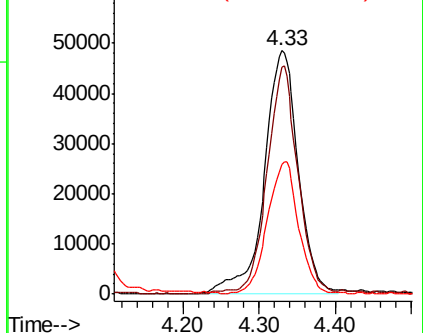
76 50.4 41.3 61.9

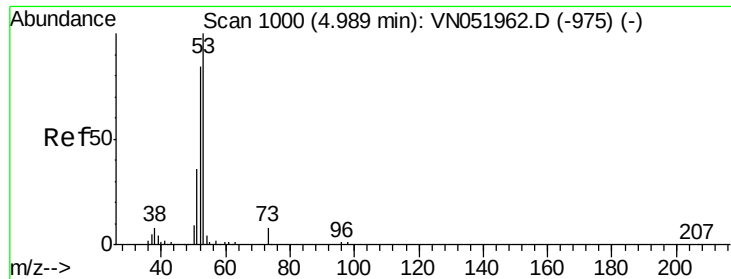


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 104.142 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

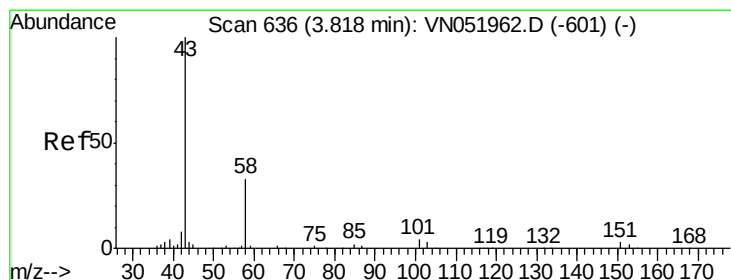
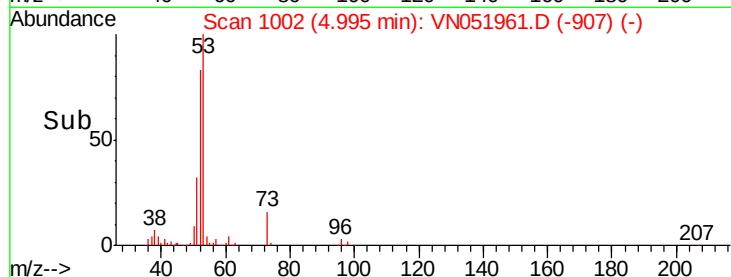
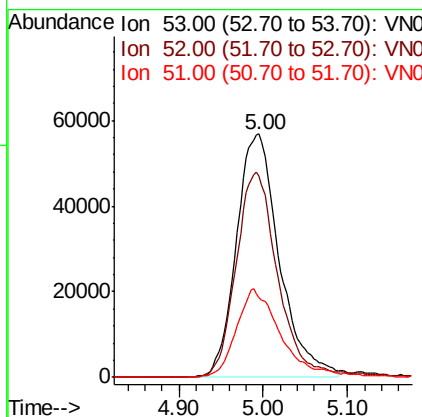
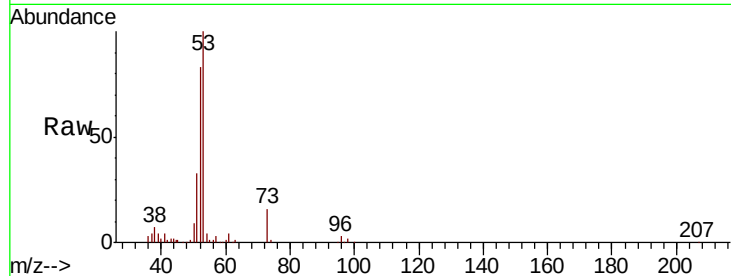
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	200861
Ion Ratio	Lower	Upper	
53	100		
52	81.9	67.0	100.4
51	35.9	29.5	44.3

Manual Integrations
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#16

Acetone

Concen: 95.067 ug/l

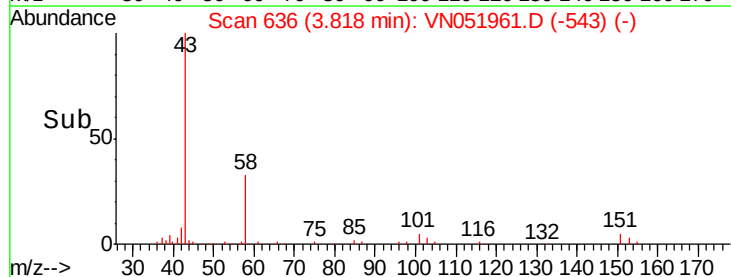
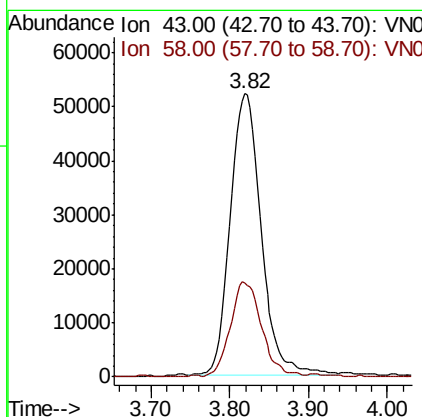
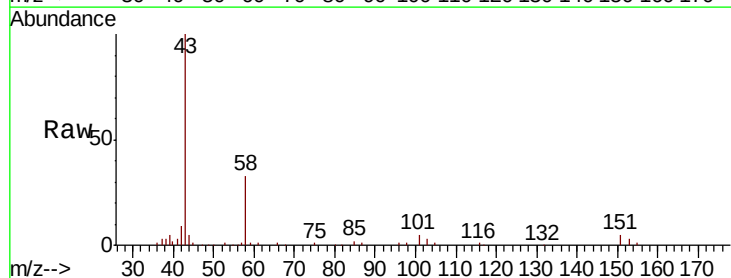
RT: 3.82 min Scan# 636

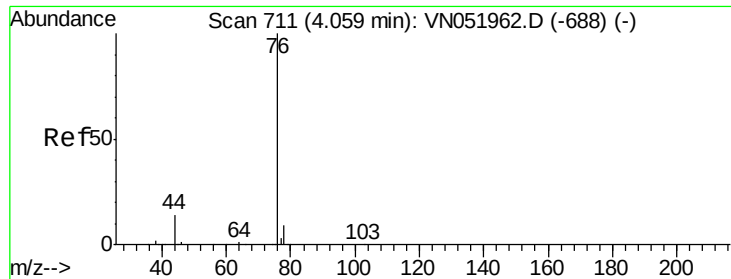
Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Tgt Ion:	43	Resp:	142129
Ion Ratio	Lower	Upper	
43	100		
58	33.5	26.7	40.1





#17

Carbon Disulfide

Concen: 18.055 ug/l

RT: 4.06 min Scan# 712

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 320132

Ion Ratio Lower Upper

76 100

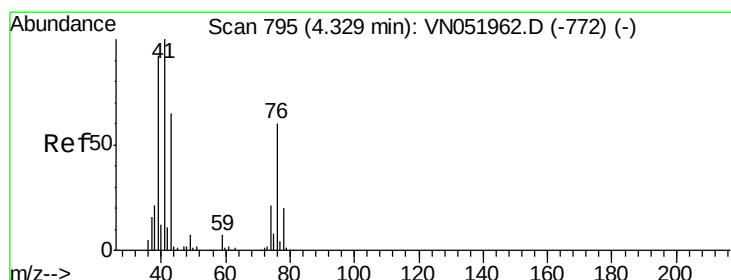
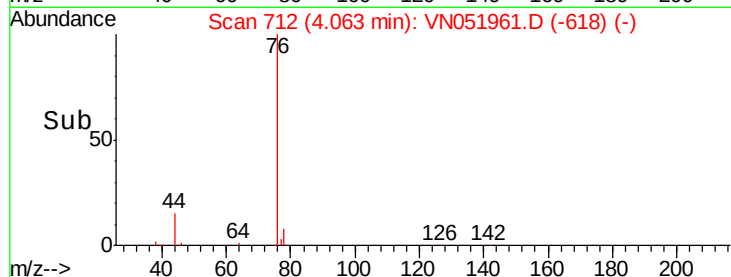
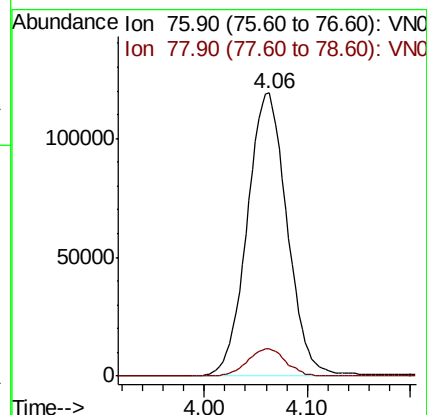
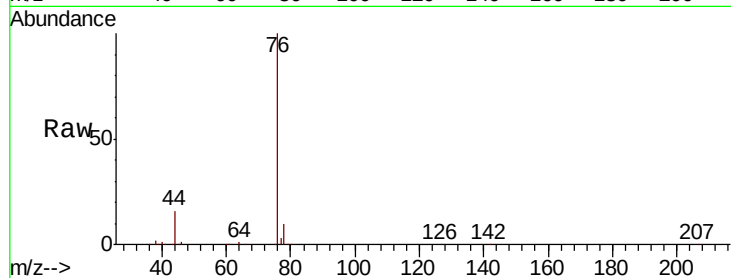
78 9.7 7.3 10.9

Manual Integrations

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#18

Methyl Acetate

Concen: 18.267 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN051961.D

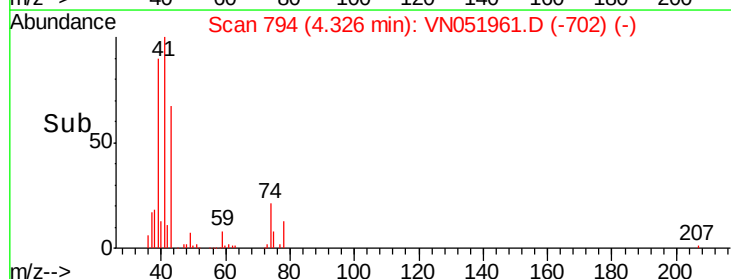
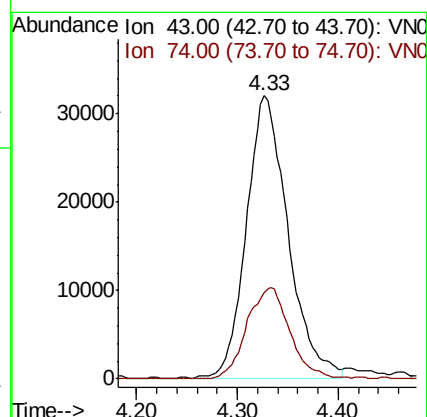
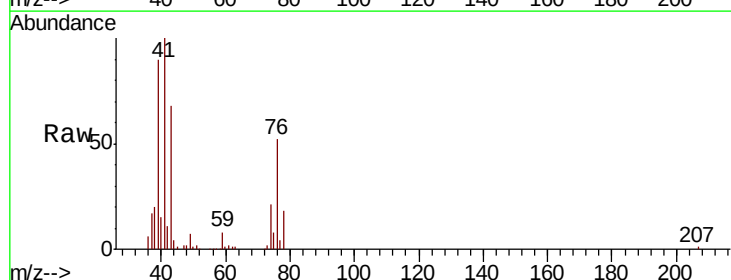
Acq: 23 Oct 2018 13:34

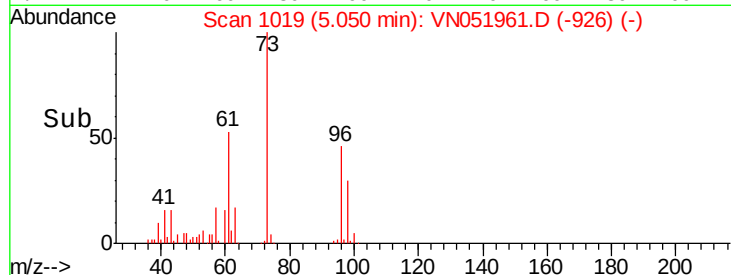
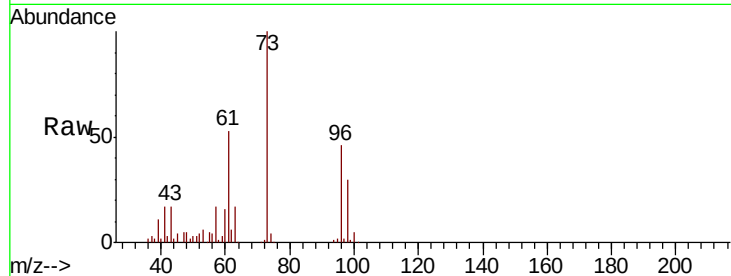
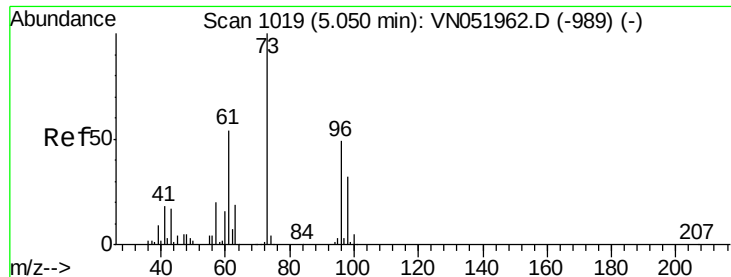
Tgt Ion: 43 Resp: 92148

Ion Ratio Lower Upper

43 100

74 32.9 25.7 38.5





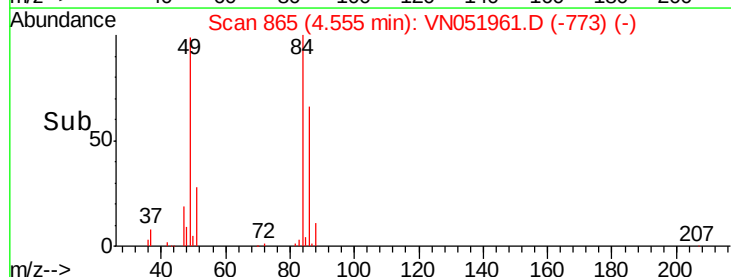
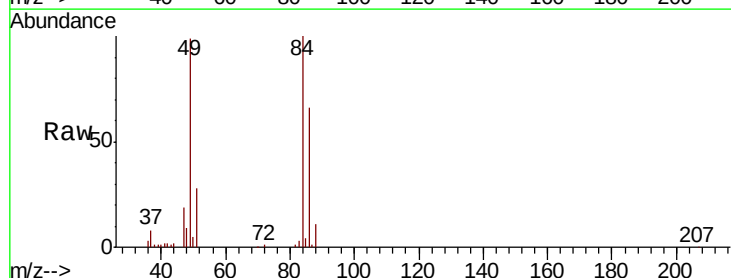
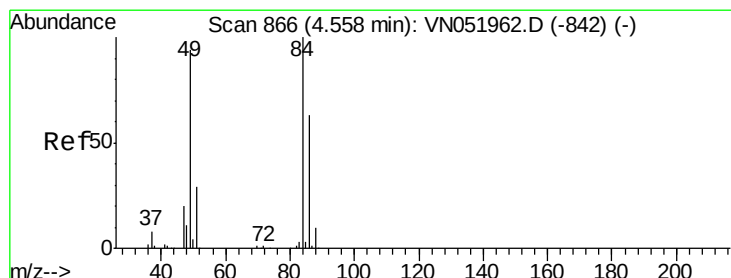
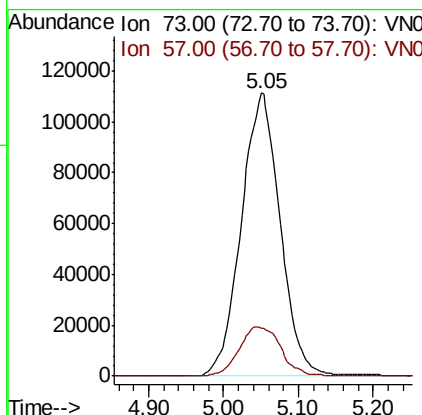
#19
Methyl tert-butyl Ether
Concen: 20.063 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tot Ion: 73 Resp: 401785
Ion Ratio Lower Upper
73 100
57 17.1 15.9 23.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

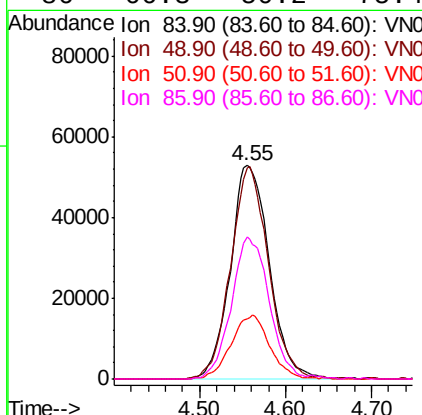
Manual Integrations
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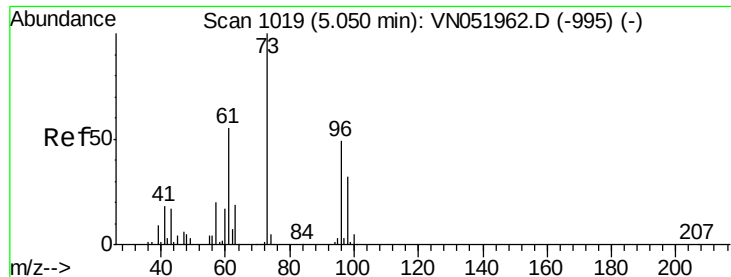
MMDadoda
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#20
Methylene Chloride
Concen: 18.970 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tgt Ion: 84 Resp: 166377
Ion Ratio Lower Upper
84 100
49 98.4 75.4 113.0
51 28.2 23.1 34.7
86 66.3 50.2 75.4





#21

trans-1,2-Dichloroethene

Concen: 19.141 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

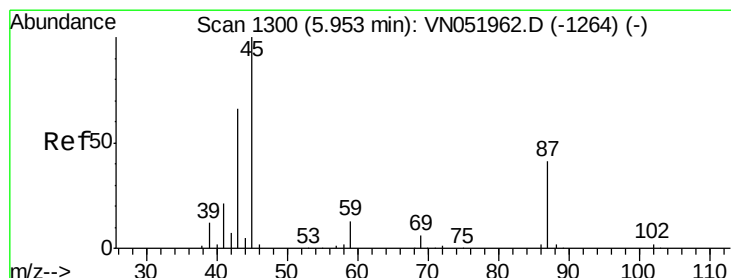
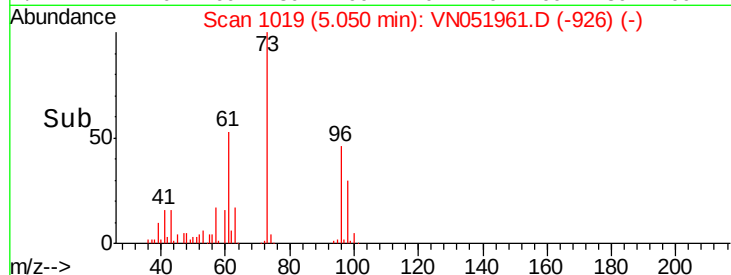
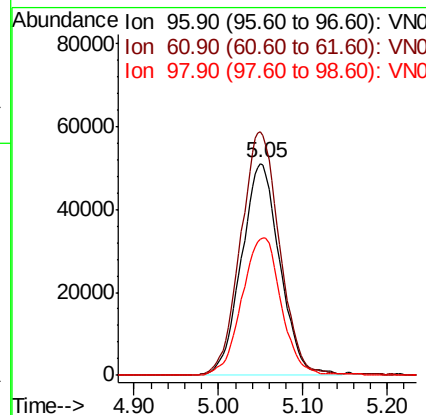
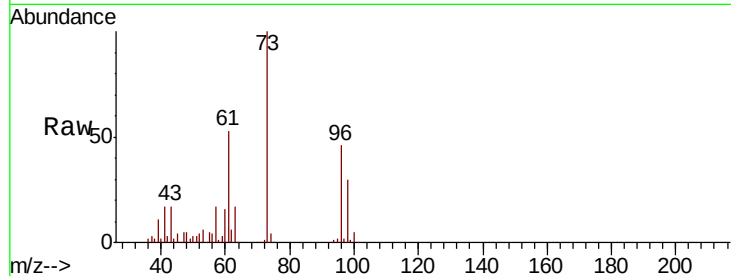
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	161699
Ion	Ratio	Lower	Upper
96	100		
61	115.0	89.0	133.4
98	64.5	51.8	77.8

Manual Integrations
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#22

Diisopropyl ether

Concen: 20.288 ug/l

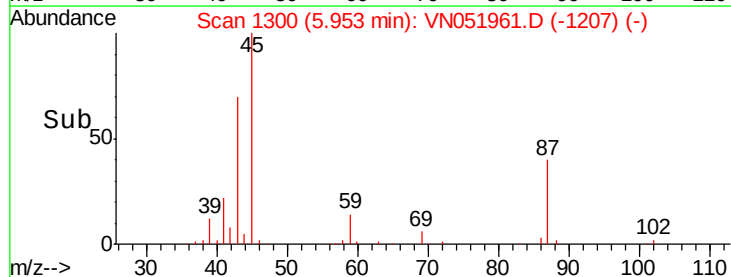
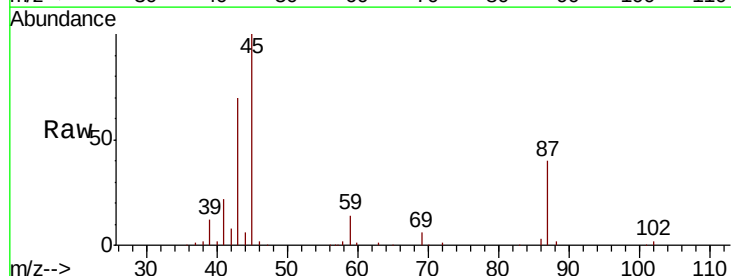
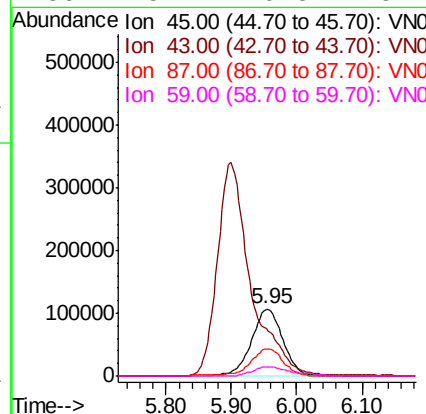
RT: 5.95 min Scan# 1300

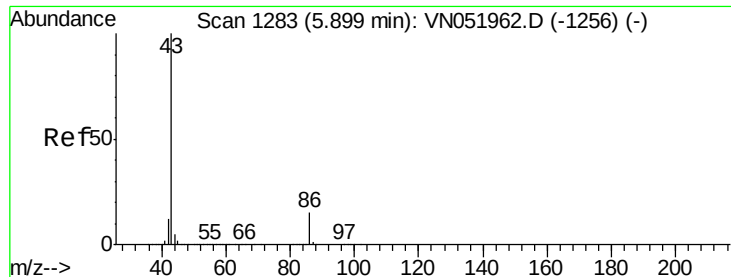
Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Tgt Ion:	45	Resp:	358236
Ion	Ratio	Lower	Upper
45	100		
43	68.2	52.9	79.3
87	39.6	33.4	50.0
59	13.7	10.5	15.7





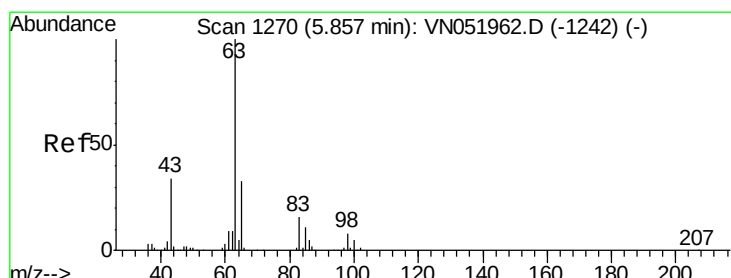
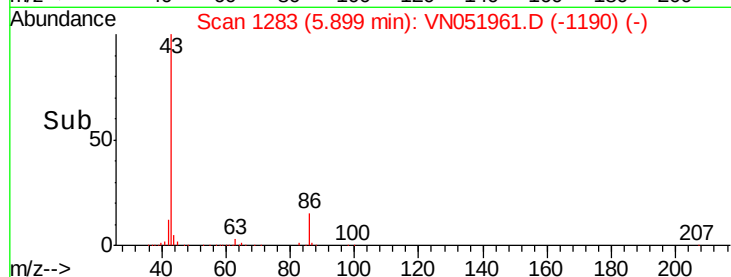
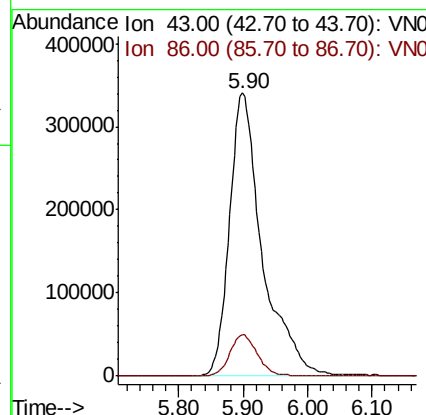
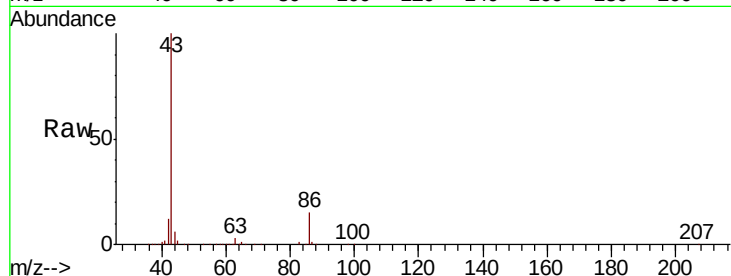
#23
 Vinyl Acetate
 Concen: 98.457 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 43 Resp: 1209497
 Ion Ratio Lower Upper
 43 100
 86 14.7 11.9 17.9

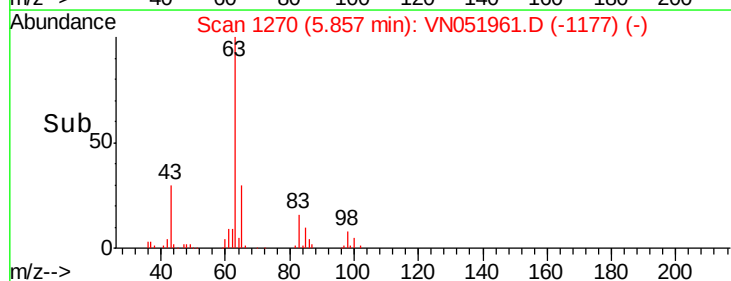
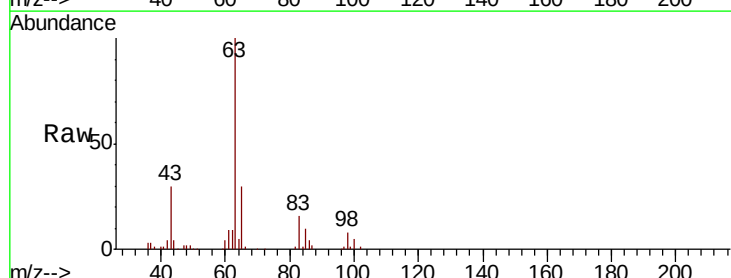
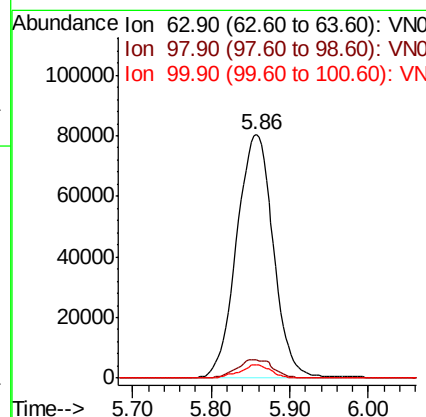
Manual Integrations
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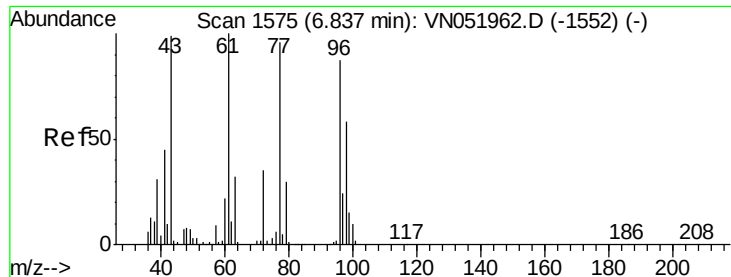
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 19.884 ug/l
 RT: 5.86 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Tgt Ion: 63 Resp: 262148
 Ion Ratio Lower Upper
 63 100
 98 7.5 3.9 11.7
 100 5.4 2.6 8.0





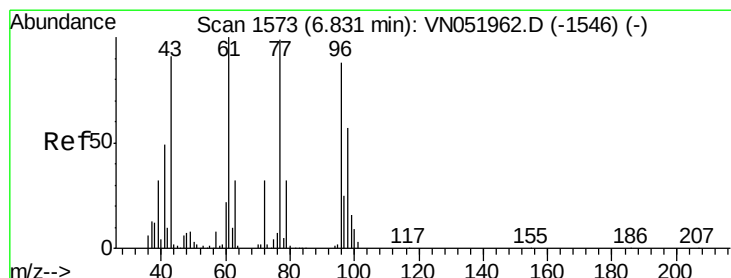
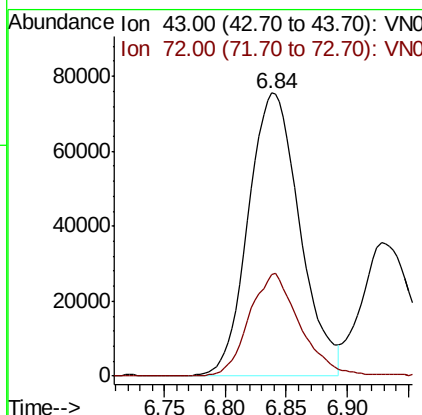
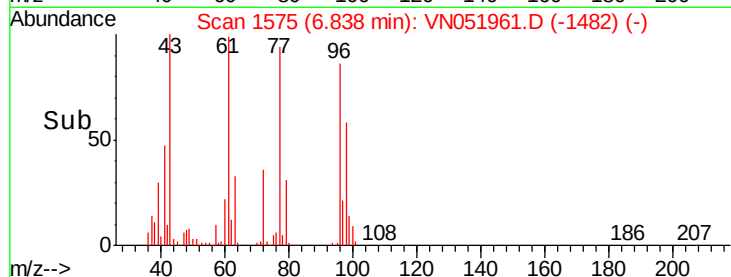
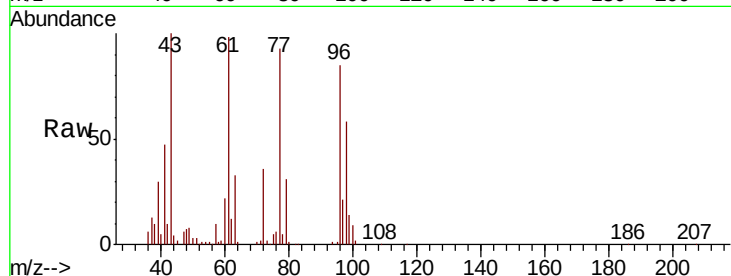
#25
2-Butanone
Concen: 103.879 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
72	35.9	28.5	42.7

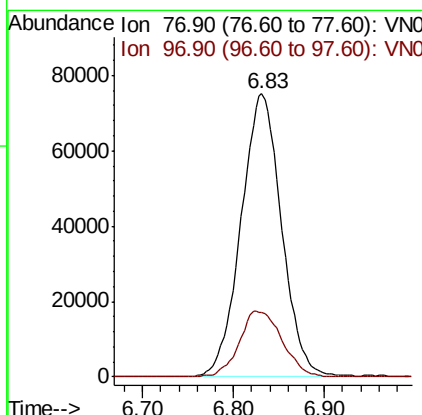
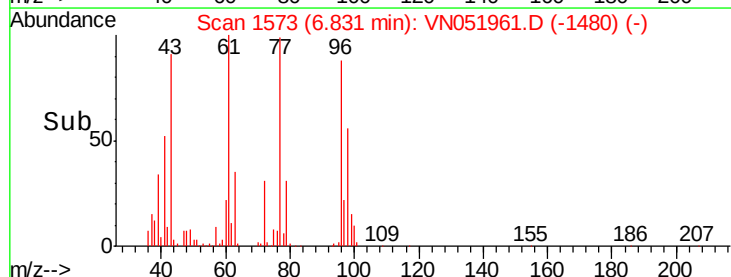
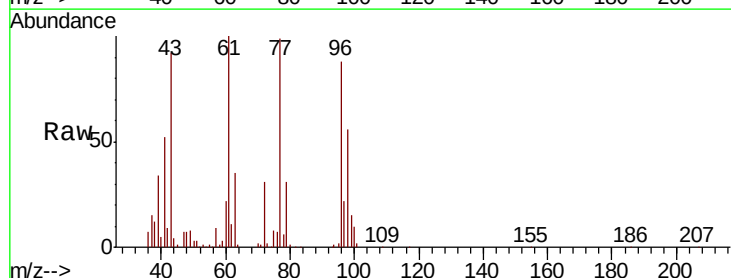
Manual Integrations
APPROVED

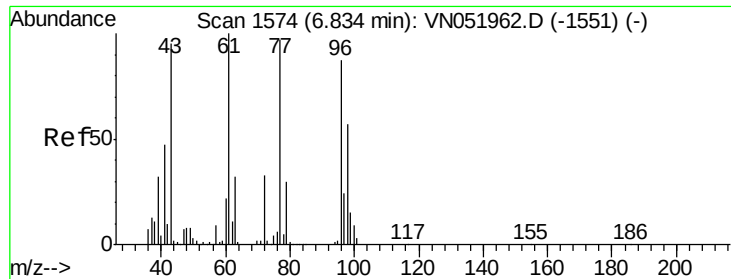
MMDadoda
10/24/2018 10:09:15 AM



#26
2,2-Dichloropropane
Concen: 19.261 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Lower	Upper
77	100		
97	24.5	12.6	37.6





#27

cis-1,2-Dichloroethene

Concen: 19.840 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN051961.D

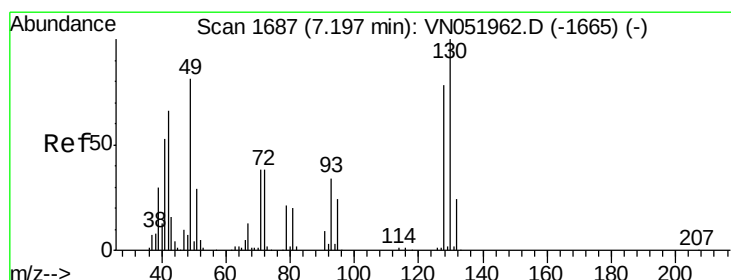
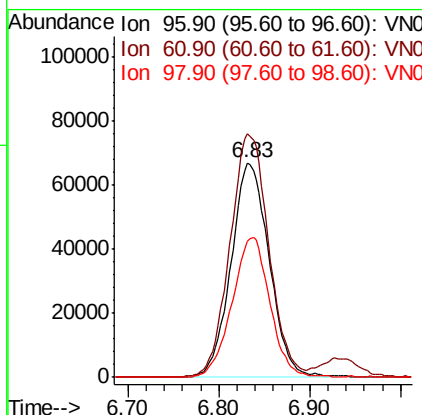
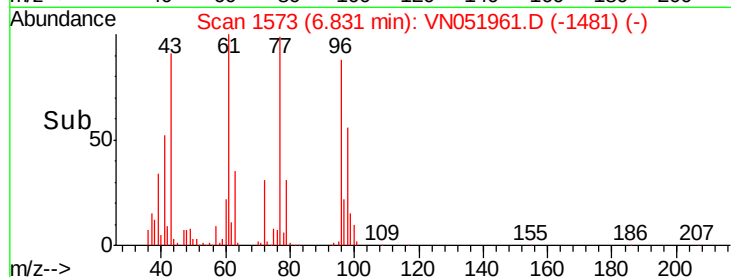
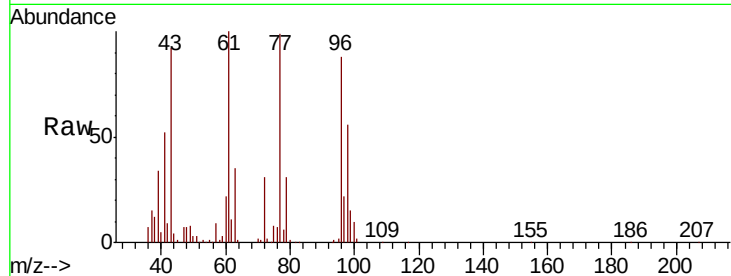
Acq: 23 Oct 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
96	100	194928		
61	115.4	0.0	234.4	
98	64.7	0.0	131.6	

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#28

Bromochloromethane

Concen: 21.640 ug/l

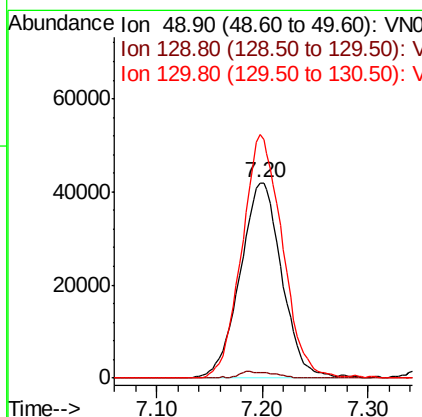
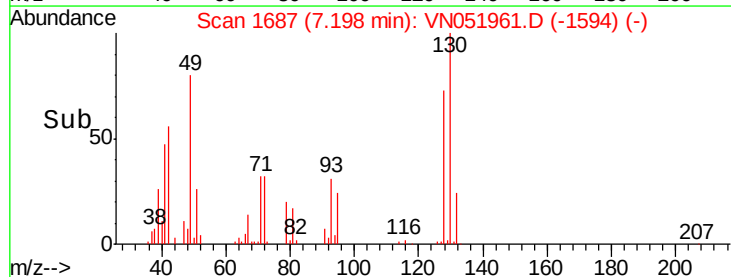
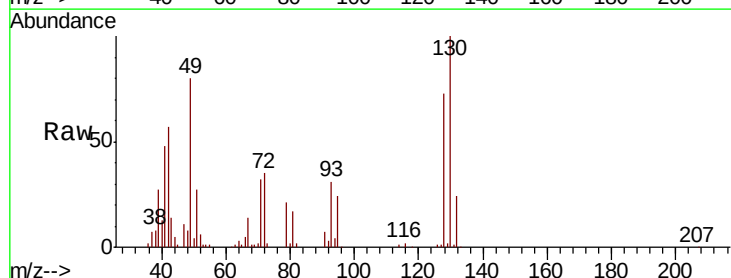
RT: 7.20 min Scan# 1687

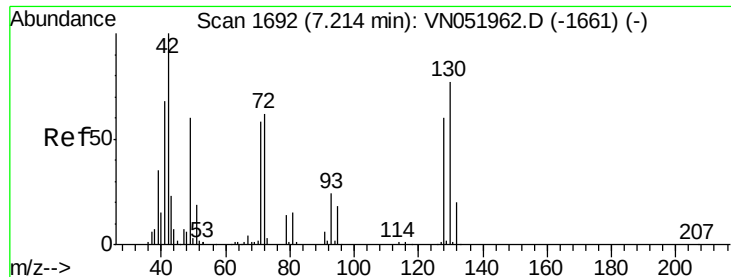
Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	114988		
129	1.5	0.0	5.4	
130	121.2	97.0	145.6	





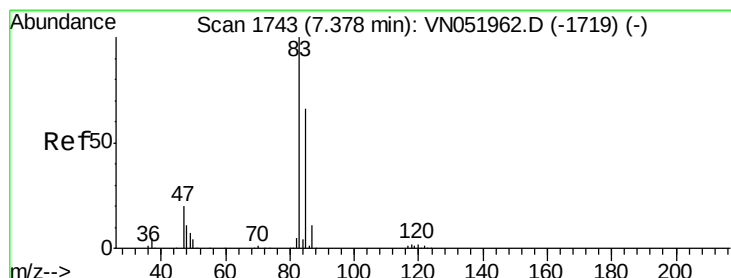
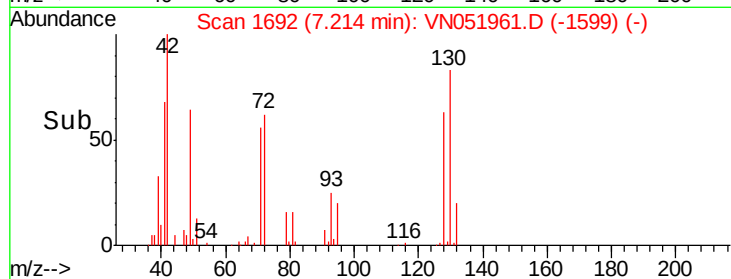
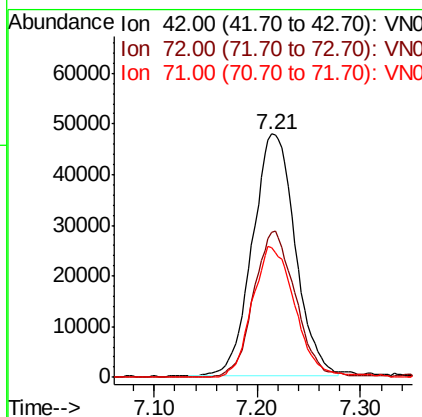
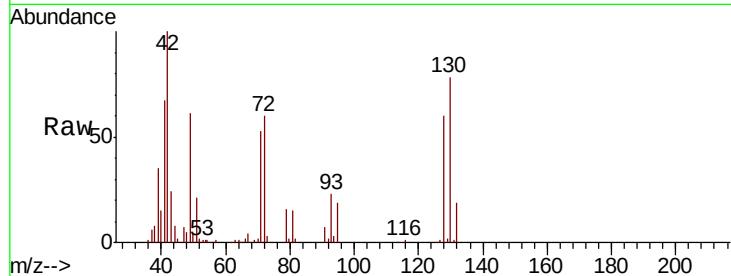
#29
Tetrahydrofuran
Concen: 95.526 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	58.7	47.5	71.3
71	53.5	45.4	68.2

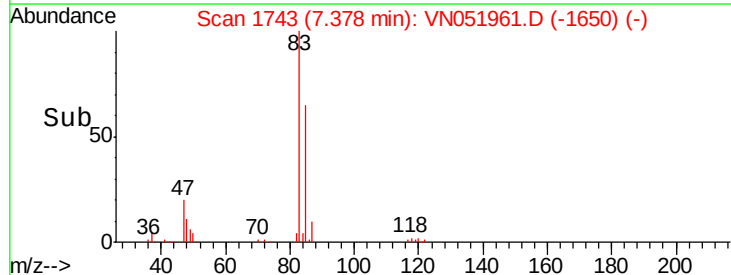
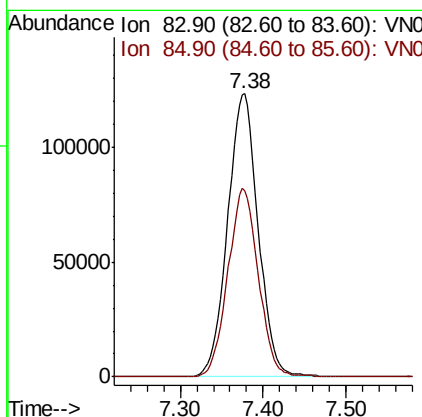
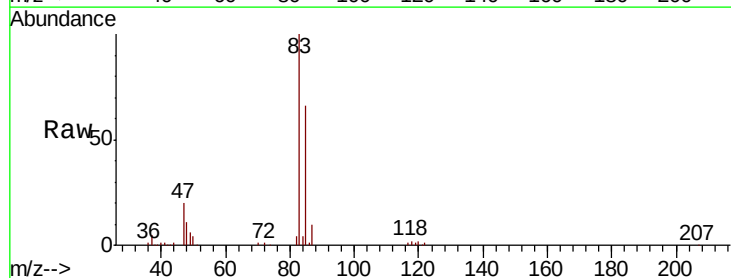
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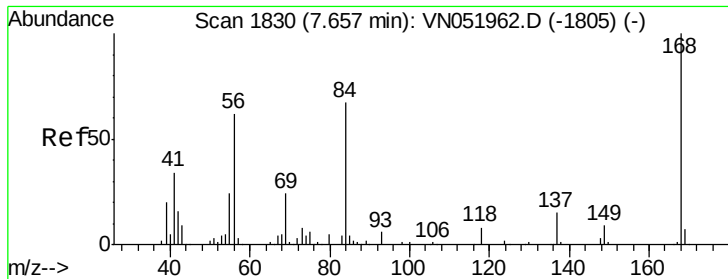
MMDadoda
10/24/2018 10:09:15 AM



#30
Chloroform
Concen: 19.639 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.8	79.2





#31

Cyclohexane

Concen: 15.539 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

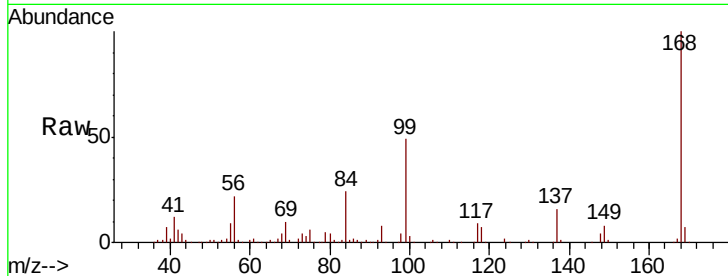
ClientSampleId :

VSTDIC020

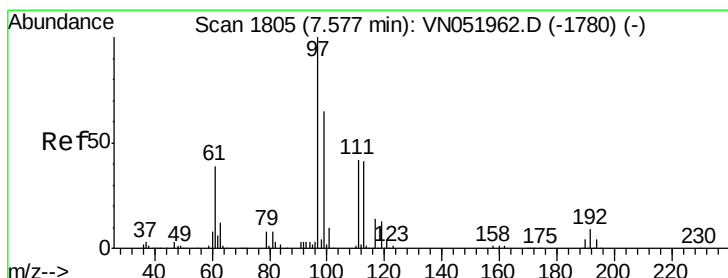
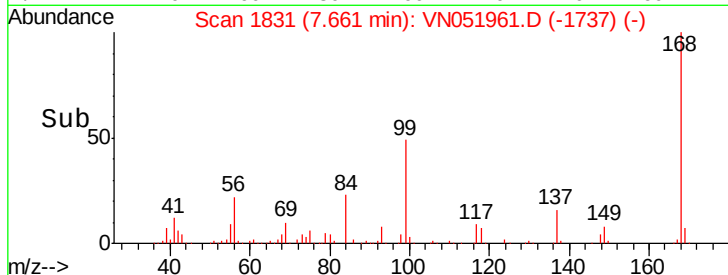
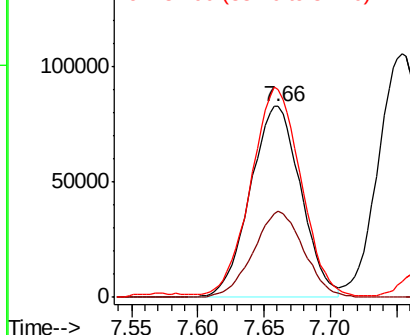
Tot Ion:	56	Resp:	220682
Ion Ratio	Lower	Upper	
56	100		
69	44.9	31.2	46.8
84	107.5	86.3	129.5

Manual Integrations
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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: 19.197 ug/l

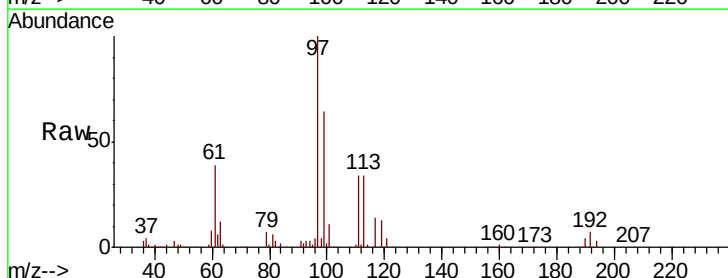
RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

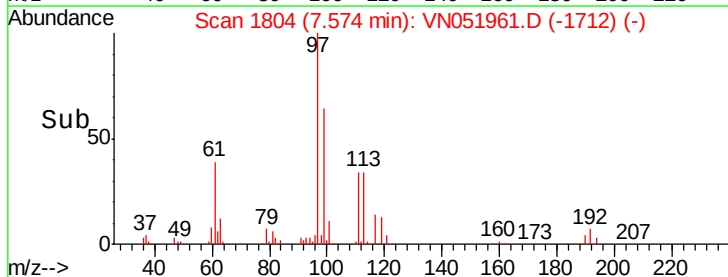
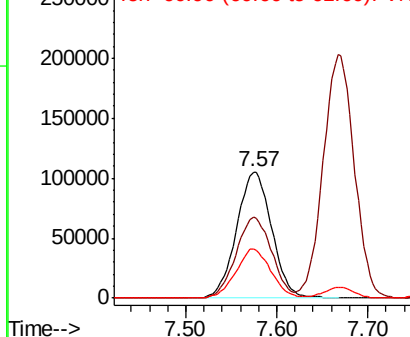
Lab File: VN051961.D

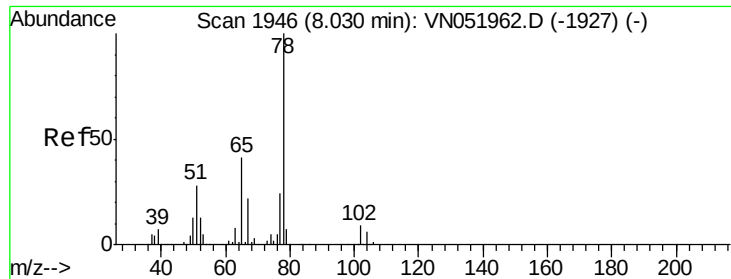
Acq: 23 Oct 2018 13:34

Tgt Ion:	97	Resp:	282592
Ion Ratio	Lower	Upper	
97	100		
99	64.8	51.5	77.3
61	38.7	30.1	45.1



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





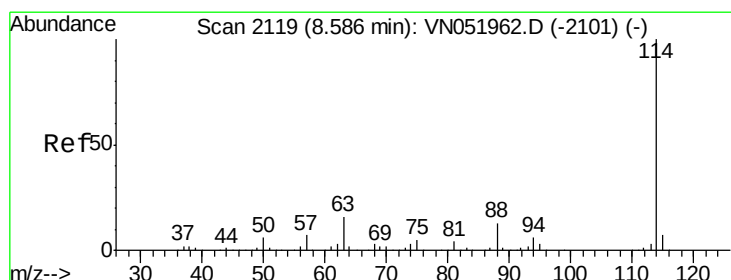
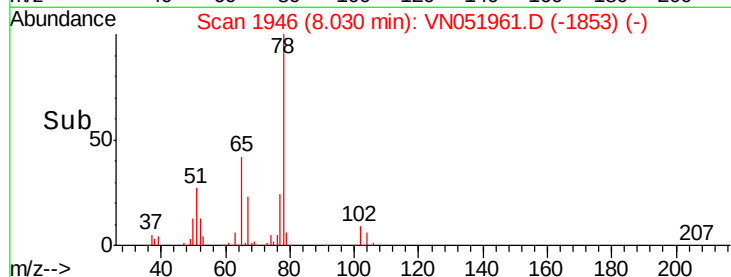
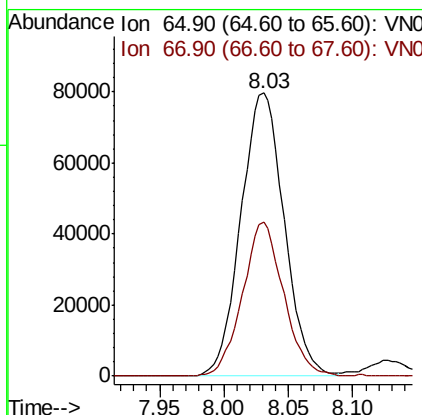
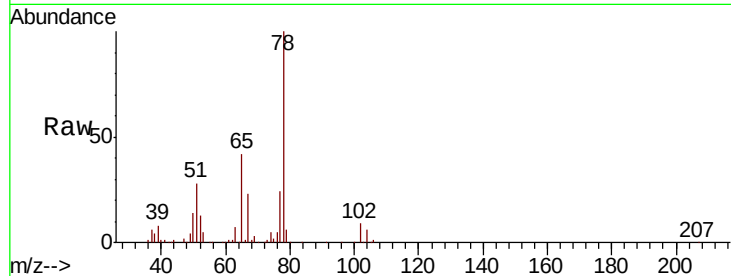
#33
 1,2-Dichloroethane-d4
 Concen: 19.197 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	186630		
67	51.6	0.0	105.8	

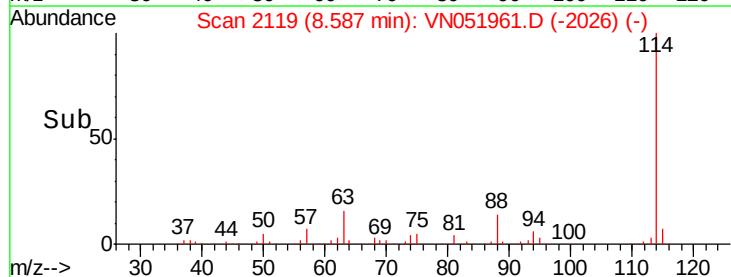
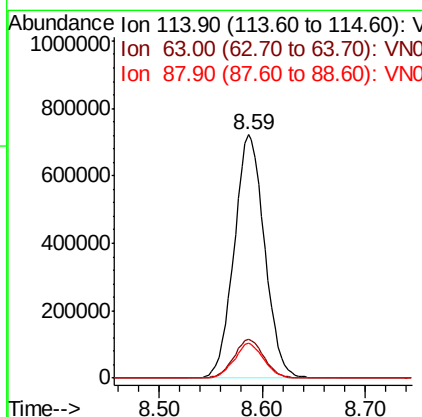
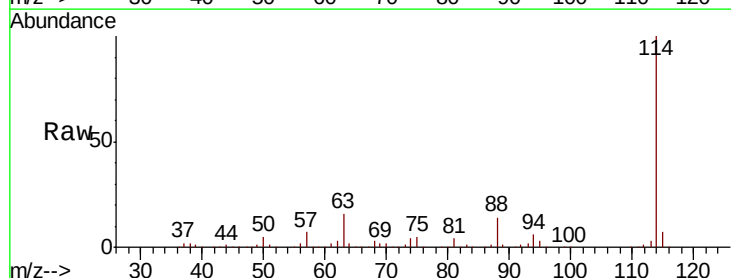
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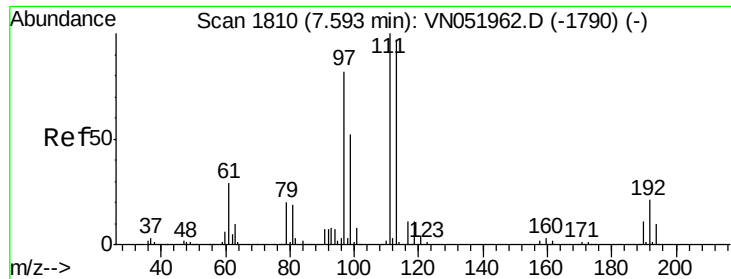
MMDadoda
 10/24/2018 10:09:15 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1481460		
63	15.9	0.0	31.2	
88	14.1	0.0	27.0	





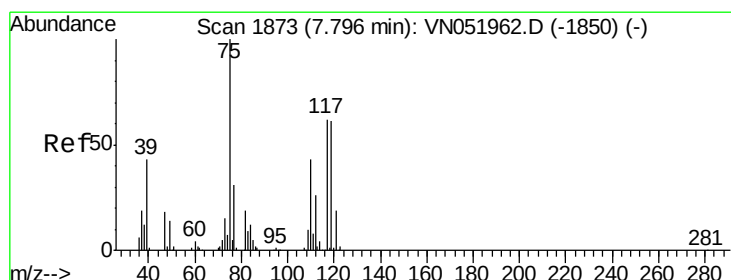
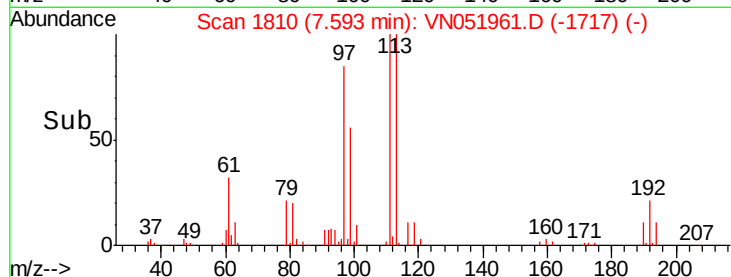
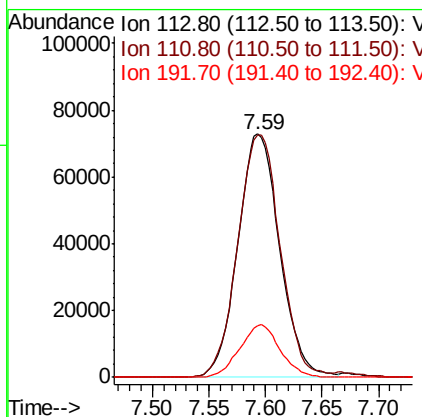
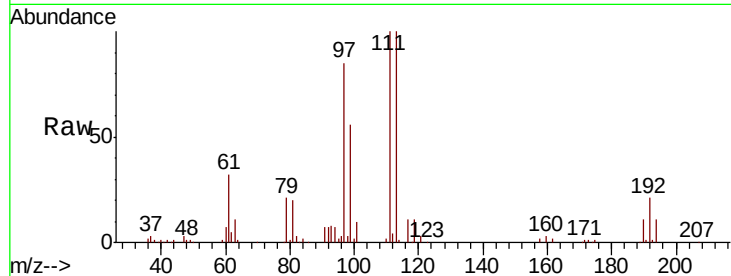
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	187673		
111	101.0	80.7	121.1	
192	20.8	17.2	25.8	

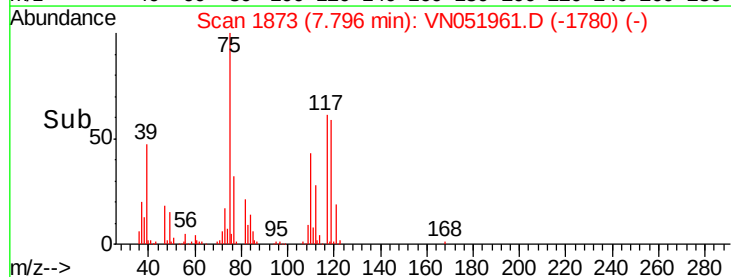
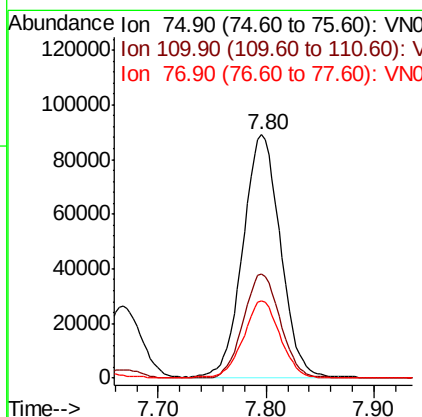
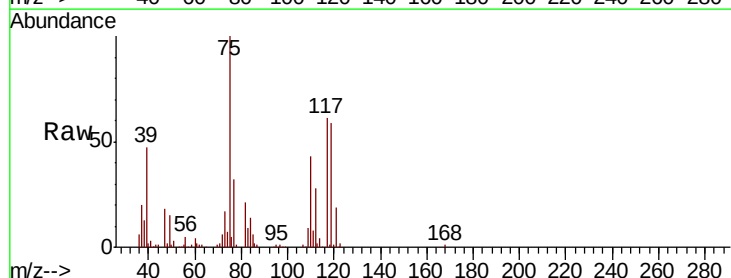
Manual Integrations
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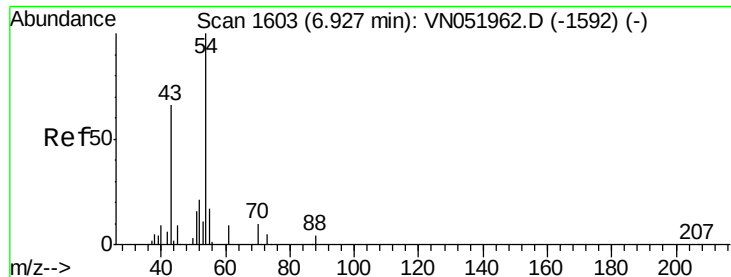
MMDadoda
 10/24/2018 10:09:15 AM



#36
 1,1-Dichloropropene
 Concen: 18.840 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	214102		
110	42.6	20.9	62.8	
77	31.7	24.9	37.3	





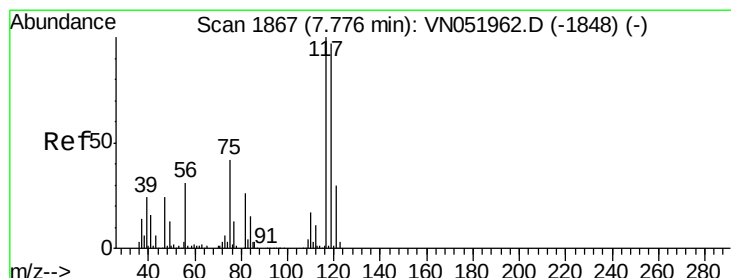
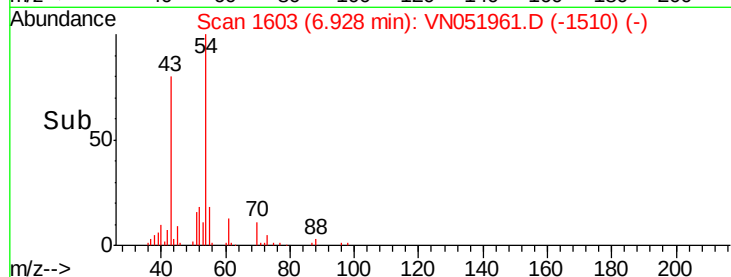
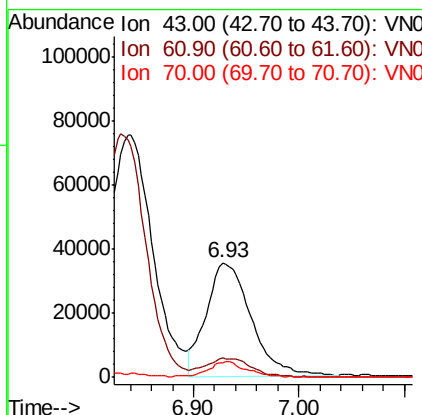
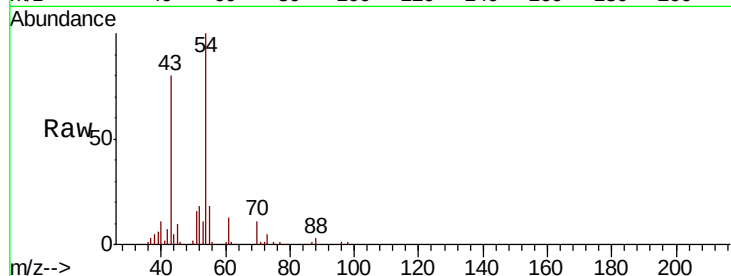
#37
Ethyl Acetate
Concen: 20.939 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.9	13.5	20.3
70	12.0	9.8	14.6

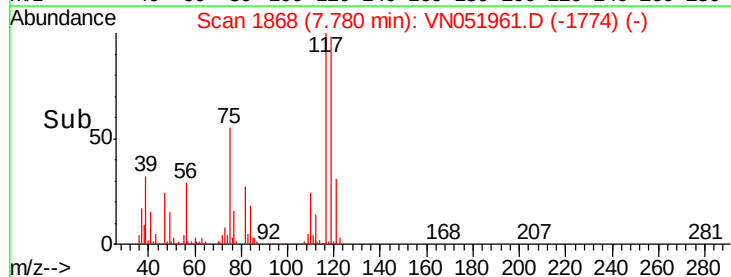
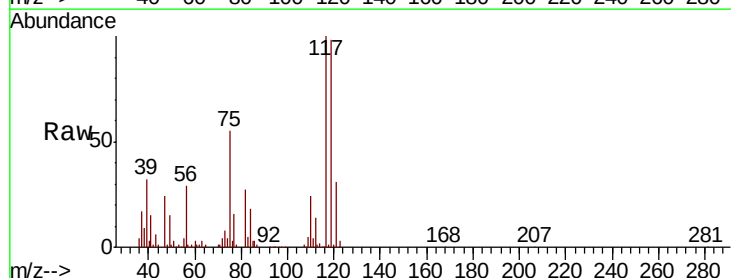
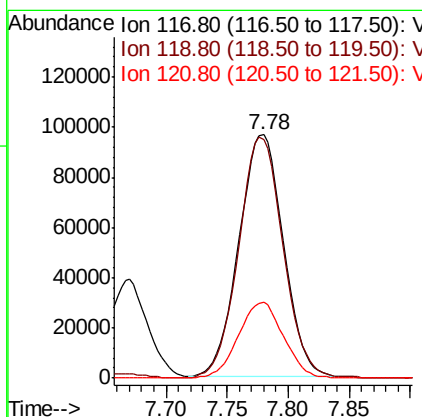
Manual Integrations
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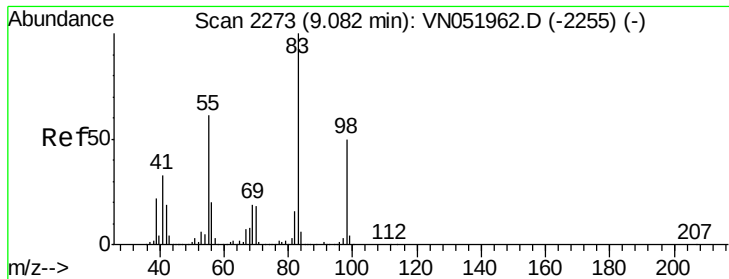
MMDadoda
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#38
Carbon Tetrachloride
Concen: 18.684 ug/l
RT: 7.78 min Scan# 1868
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.5	77.4	116.0
121	31.3	24.2	36.4





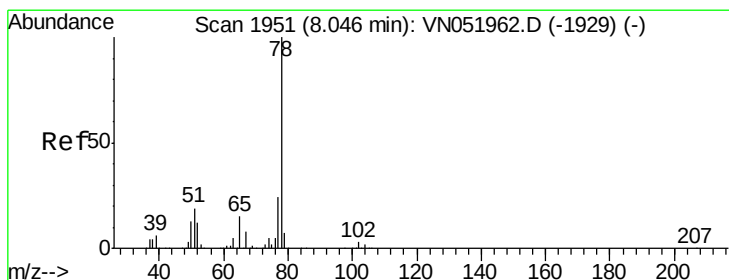
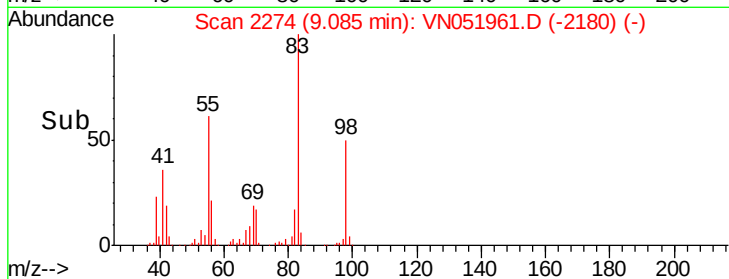
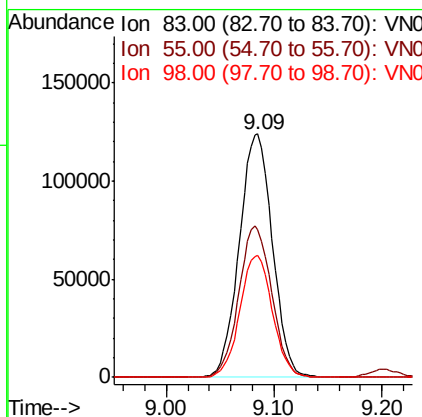
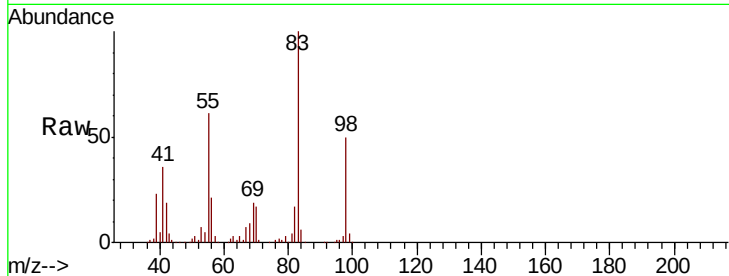
#39
Methylvlcyclohexane
Concen: 19.139 ug/l
RT: 9.09 min Scan# 2274
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	60.6	48.9	73.3
98	50.0	40.2	60.2

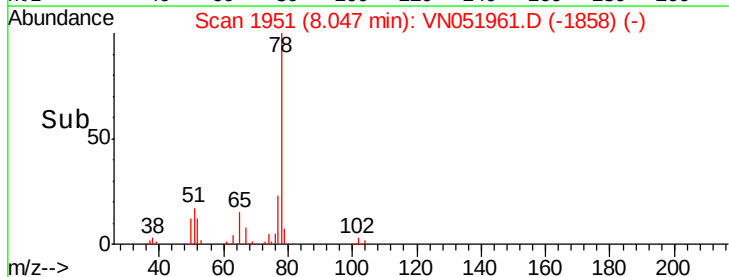
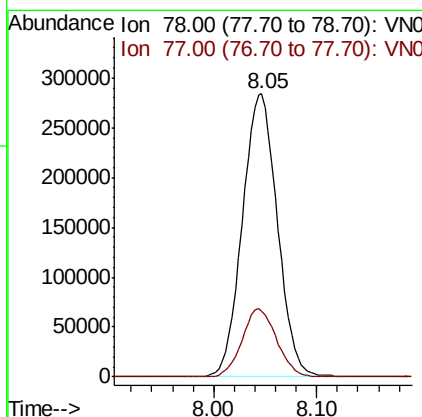
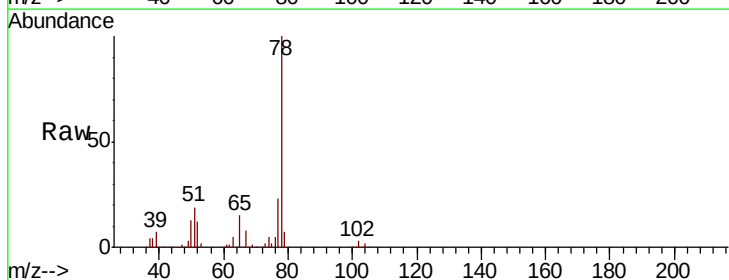
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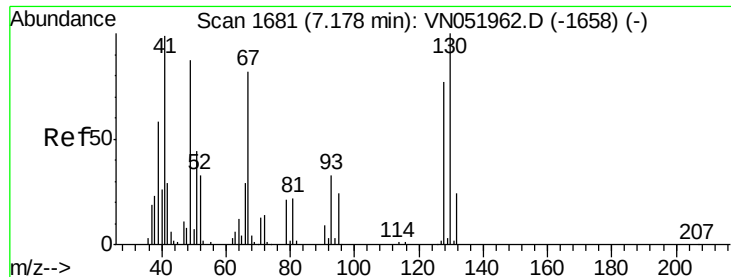
MMDadoda
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#40
Benzene
Concen: 19.821 ug/l
RT: 8.05 min Scan# 1951
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.4	29.0





#41

Methacrylonitrile

Concen: 19.058 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. -0.01 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 41 Resp: 48668

Ion Ratio Lower Upper

41 100

39 58.0 53.1 79.7

67 111.4 93.8 140.6

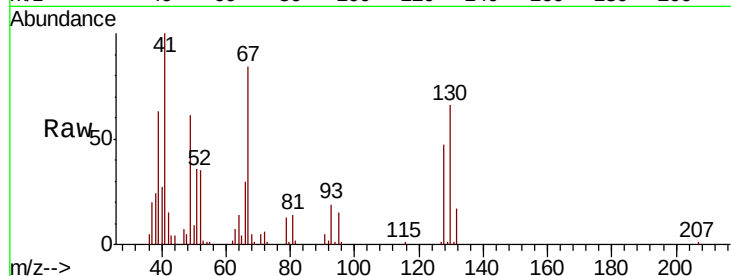
52 44.3 35.2 52.8

Manual Integrations

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MMDadoda

10/24/2018 10:09:15 AM

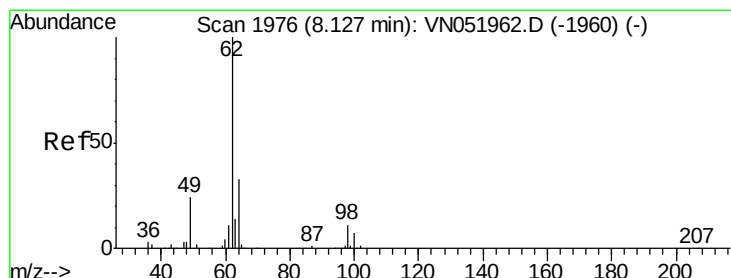
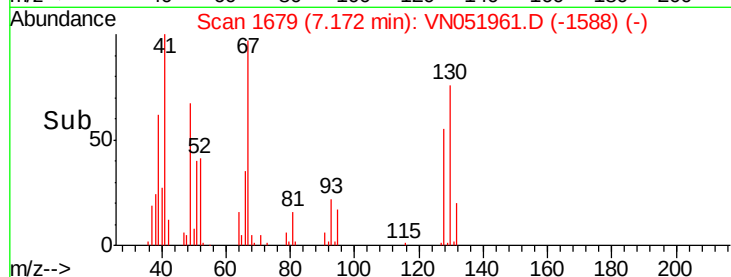
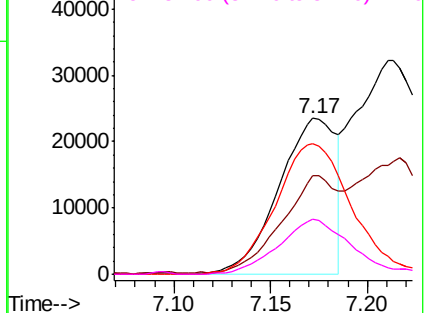


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#42

1,2-Dichloroethane

Concen: 19.461 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN051961.D

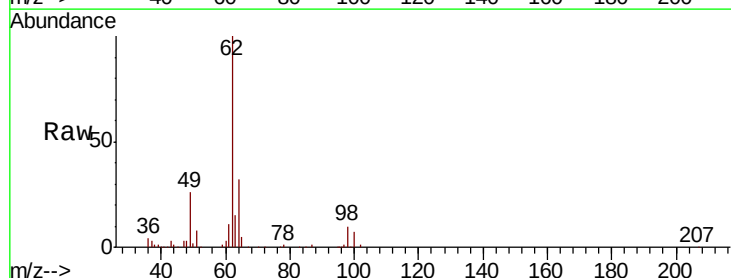
Acq: 23 Oct 2018 13:34

Tgt Ion: 62 Resp: 210537

Ion Ratio Lower Upper

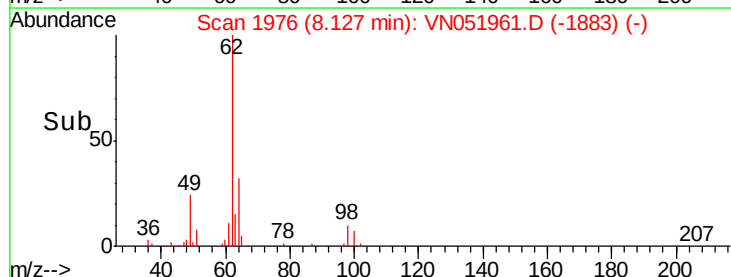
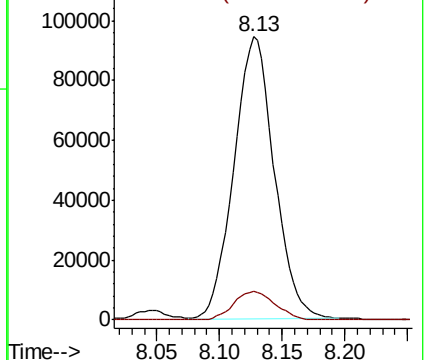
62 100

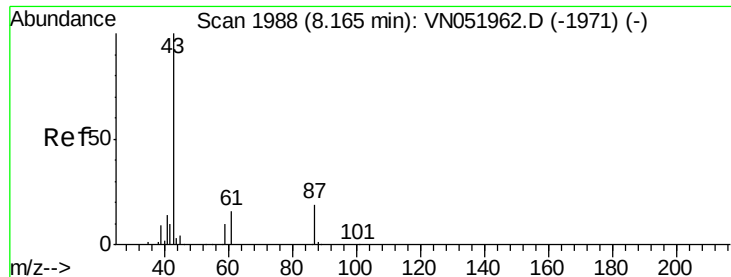
98 10.5 0.0 20.6



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 19.827 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

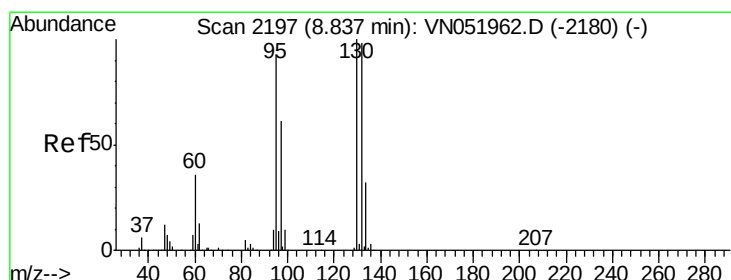
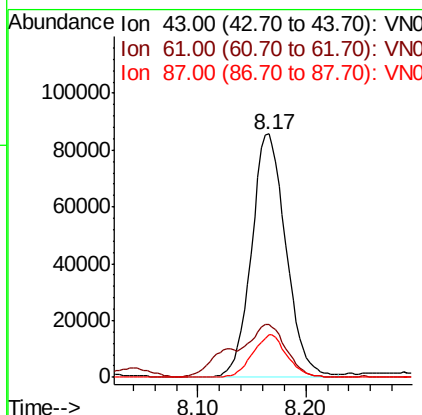
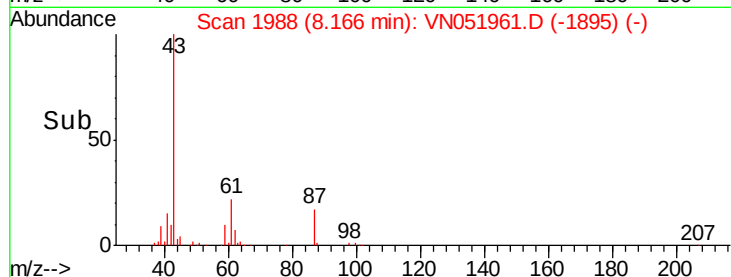
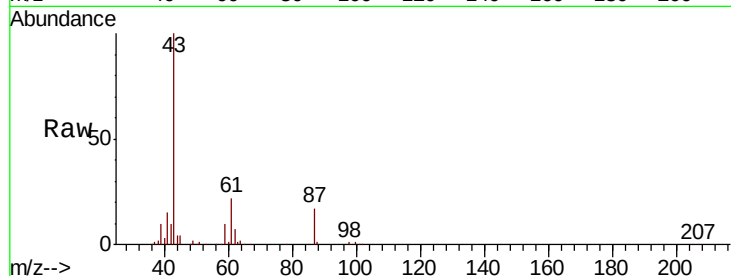
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	188698
Ion	Ratio	Lower	Upper
43	100		
61	22.1	17.2	25.8
87	17.6	15.2	22.8

Manual Integrations
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#44

Trichloroethene

Concen: 19.148 ug/l

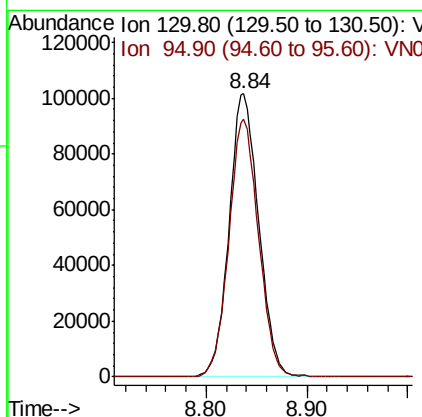
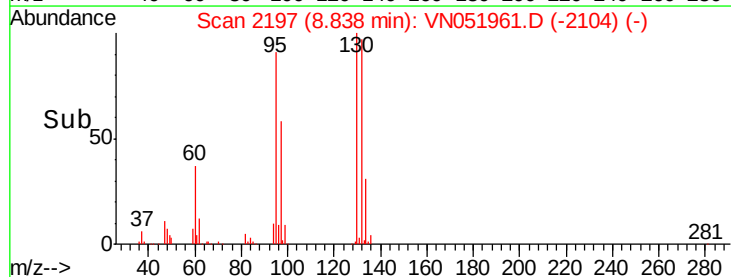
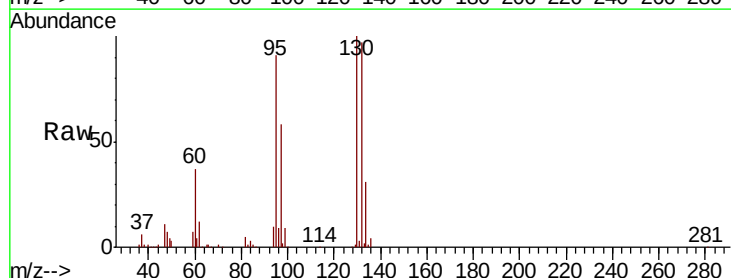
RT: 8.84 min Scan# 2197

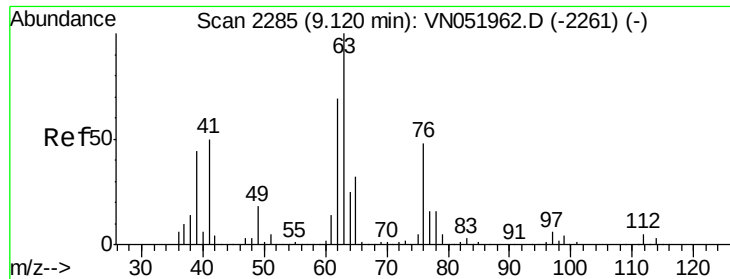
Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Tgt Ion:	130	Resp:	207377
Ion	Ratio	Lower	Upper
130	100		
95	91.3	0.0	185.2





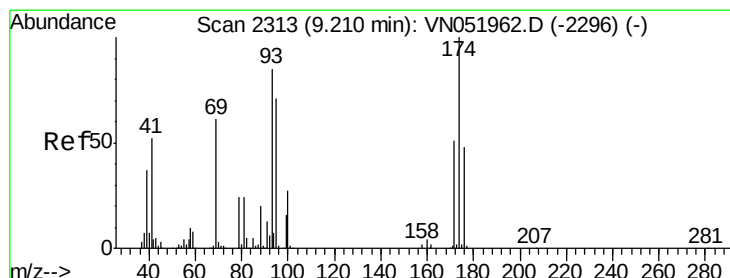
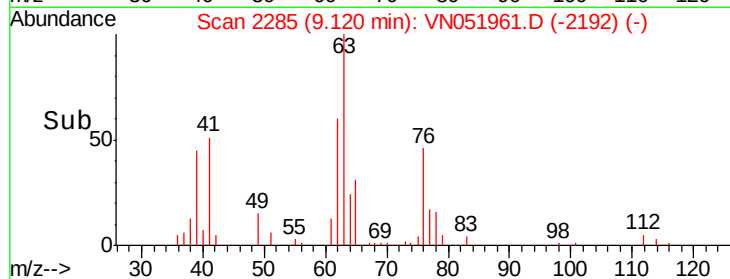
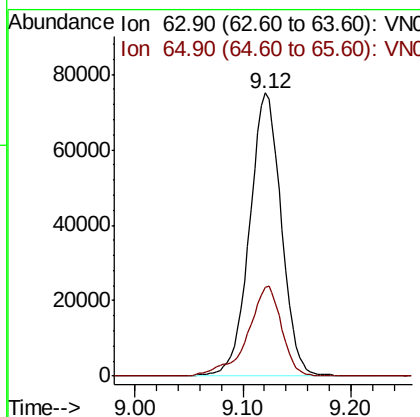
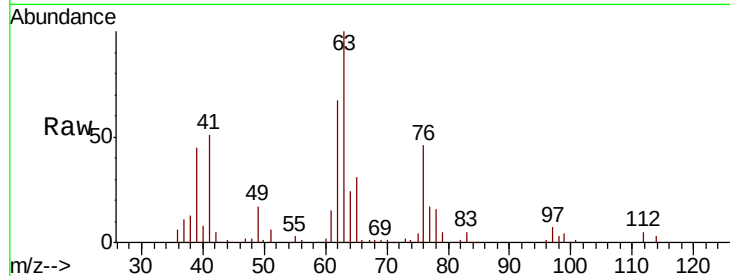
#45
 1,2-Dichloropropane
 Concen: 20.083 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	63	Resp	153291
Ion Ratio	Lower	Upper	
63	100		
65	31.3	25.8	38.6

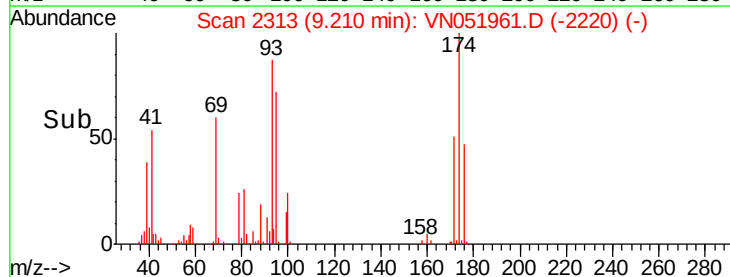
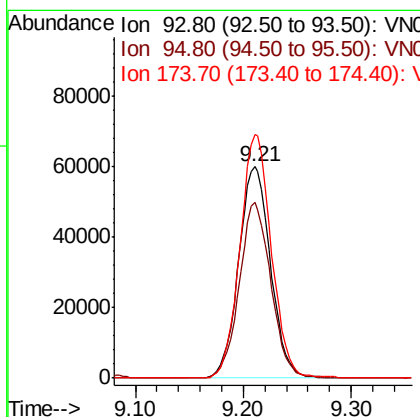
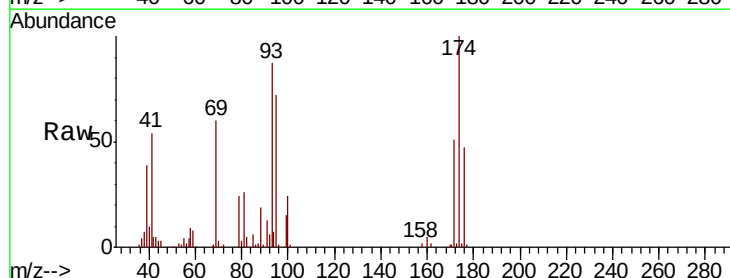
Manual Integrations
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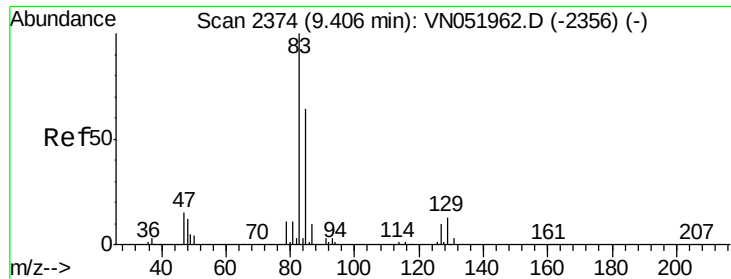
MMDadoda
 10/24/2018 10:09:15 AM



#46
 Dibromomethane
 Concen: 20.096 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Tgt Ion	93	Resp	123647
Ion Ratio	Lower	Upper	
93	100		
95	82.1	66.7	100.1
174	113.0	93.8	140.6





#47

Bromodichloromethane

Concen: 19.417 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

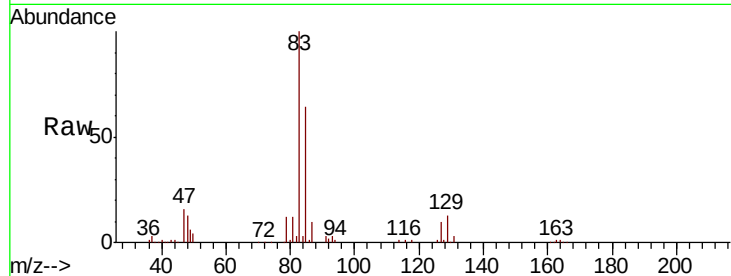
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	225625
Ion Ratio	Lower	Upper	
83	100		
85	63.6	51.0	76.4
127	10.1	7.8	11.8

Manual Integrations
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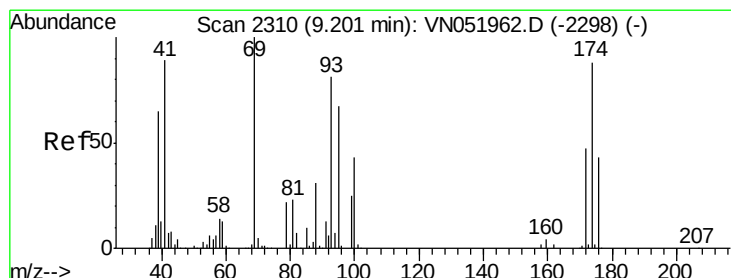
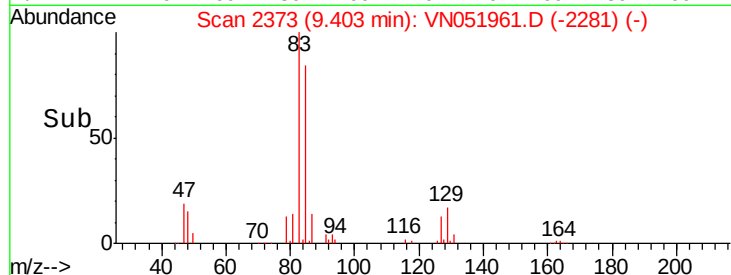
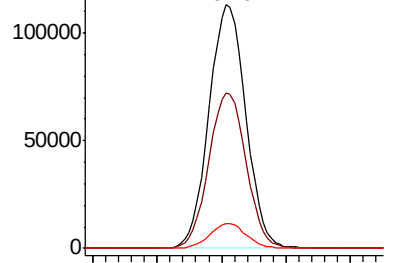
MMDadoda
10/24/2018 10:09:15 AM



Abundance Ion 82.90 (82.60 to 83.60): VN051961.D (-2281) (-)

Ion 84.90 (84.60 to 85.60): VN051961.D (-2281) (-)

Ion 126.80 (126.50 to 127.50): VN051961.D (-2281) (-)



#48

Methyl methacrylate

Concen: 19.835 ug/l

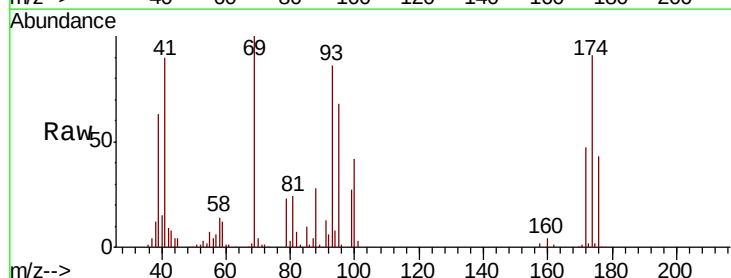
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

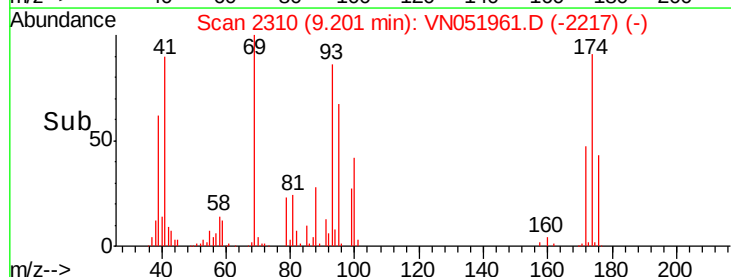
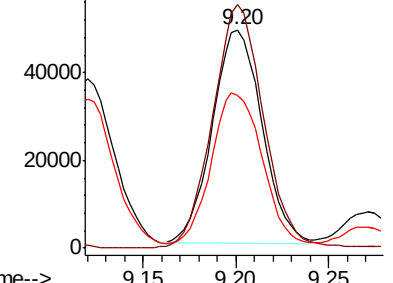
Tgt Ion:	41	Resp:	91244
Ion Ratio	Lower	Upper	
41	100		
69	117.2	92.2	138.4
39	74.3	60.2	90.4

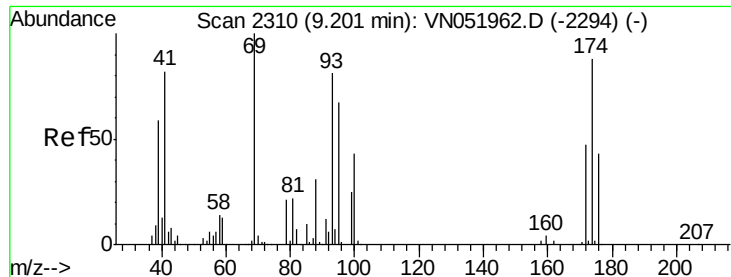


Abundance Ion 41.00 (40.70 to 41.70): VN051961.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN051961.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN051961.D (-2217) (-)





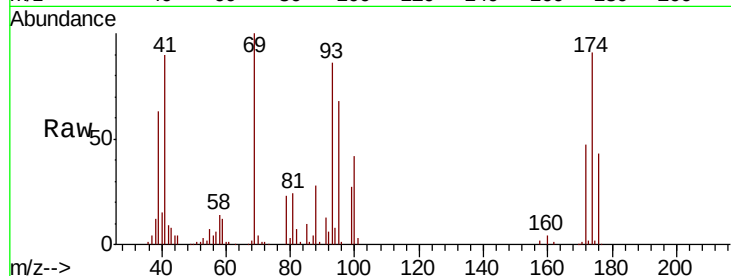
#49
1,4-Dioxane
Concen: 393.125 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	27.2	18.8	28.2
58	53.7	39.8	59.6

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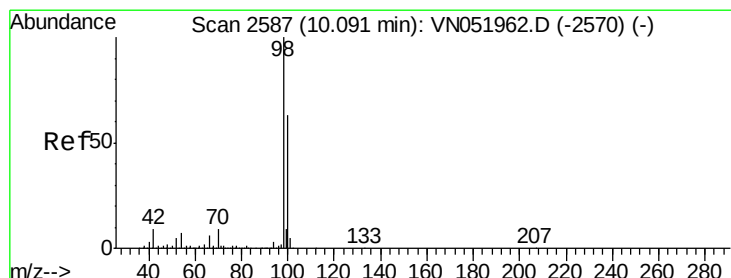
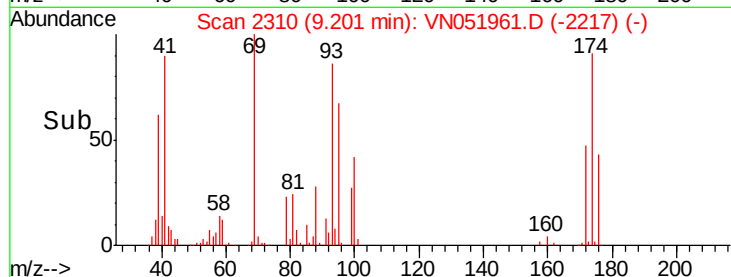
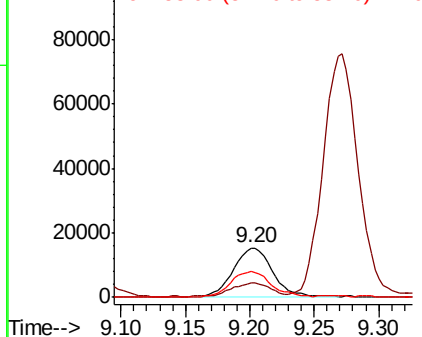


Abundance

Ion 88.00 (87.70 to 88.70): VN0

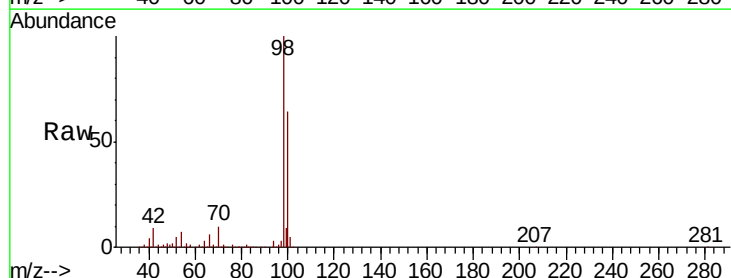
Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50
Toluene-d8
Concen: 393.125 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

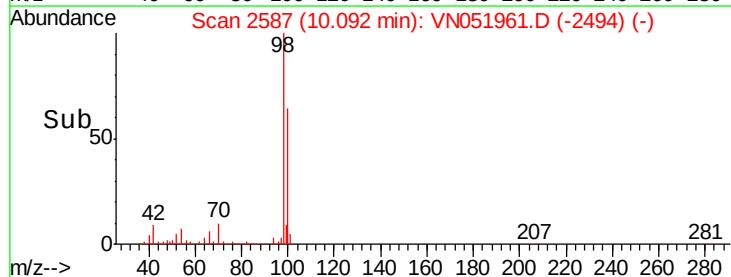
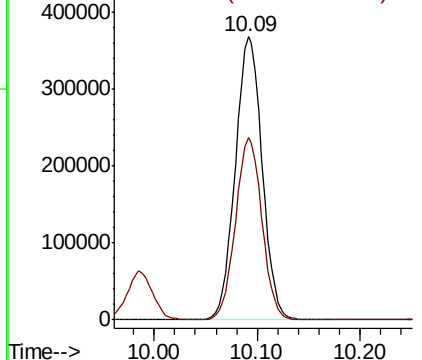
Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.1	50.7	76.1

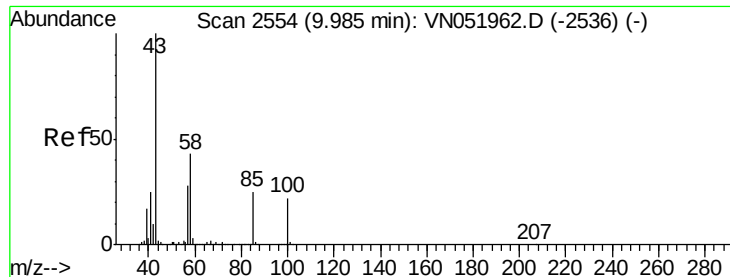


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





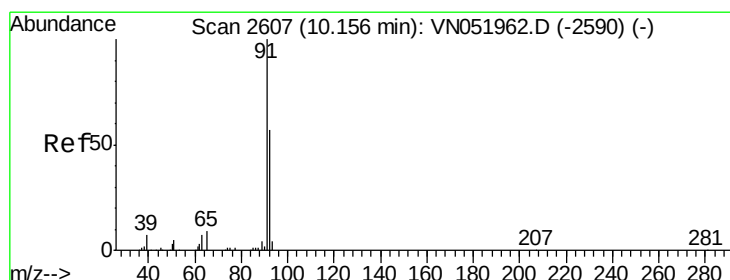
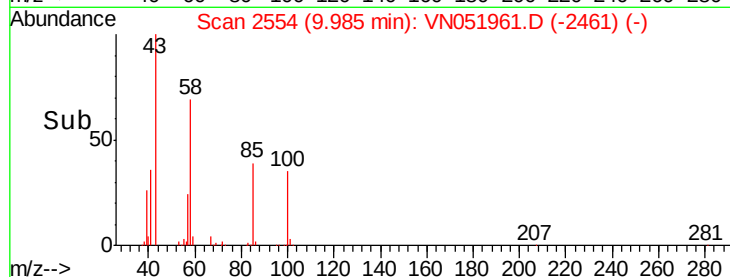
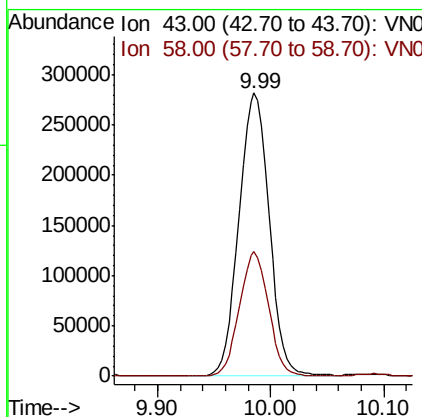
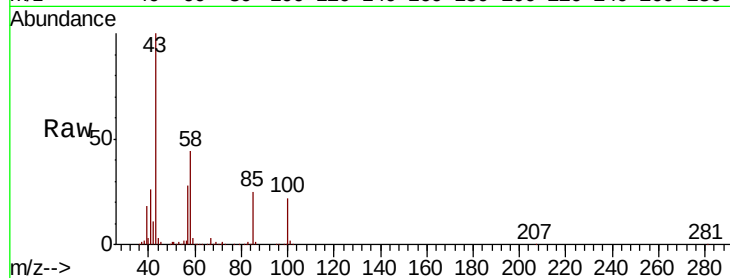
#51
4-Methyl-2-Pentanone
Concen: 100.227 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	42.4	34.8	52.2

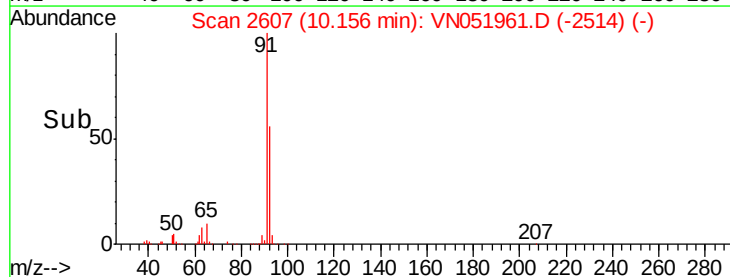
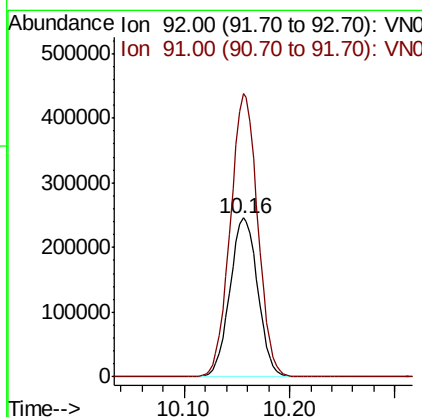
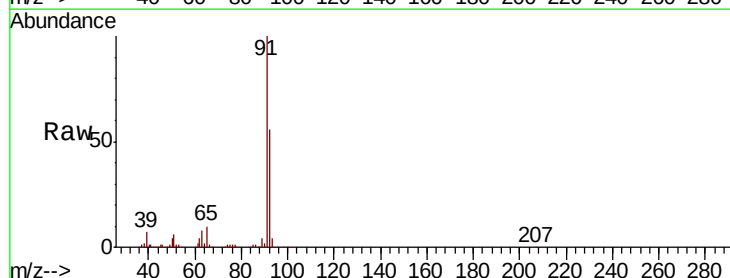
Manual Integrations
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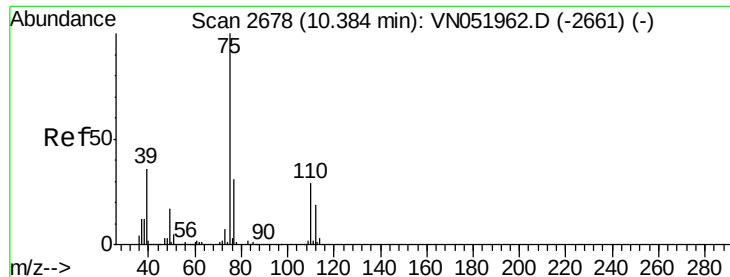
MMDadoda
10/24/2018 10:09:15 AM



#52
Toluene
Concen: 19.563 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.7	139.8	209.6





#53

t-1,3-Dichloropropene

Concen: 19.226 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 204693

Ion Ratio Lower Upper

75 100

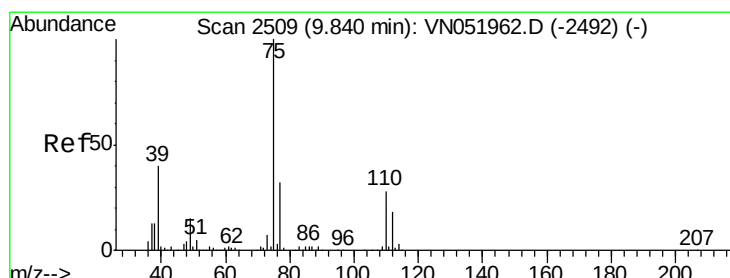
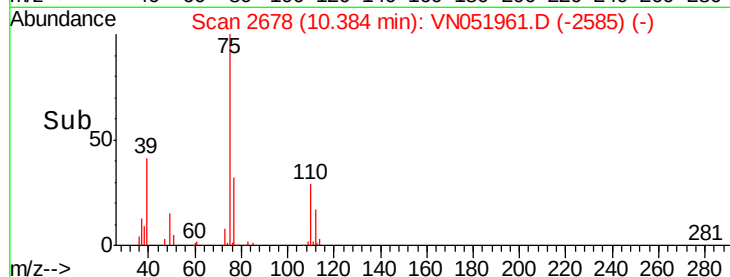
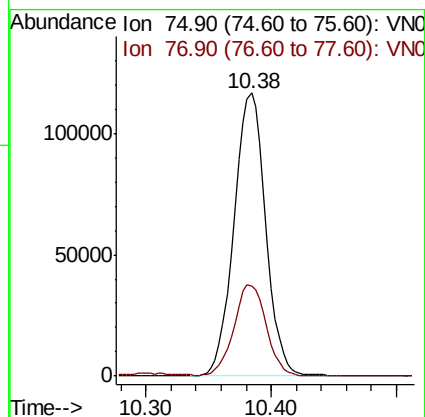
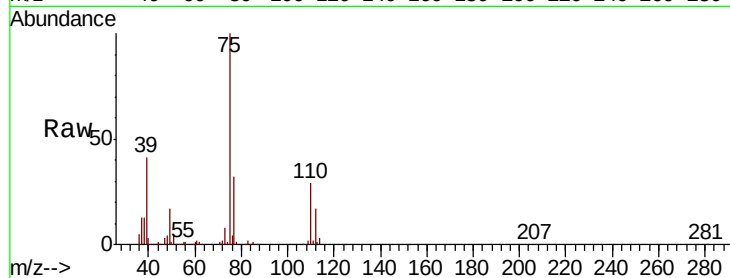
77 31.9 25.0 37.4

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#54

cis-1,3-Dichloropropene

Concen: 19.654 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

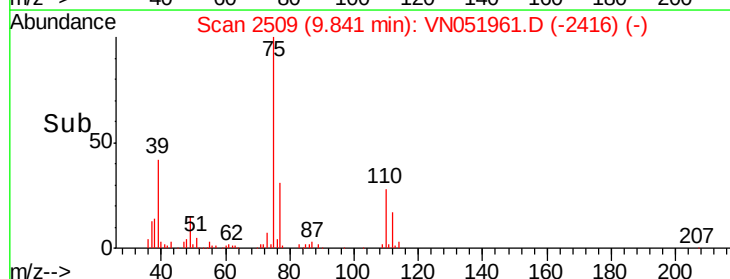
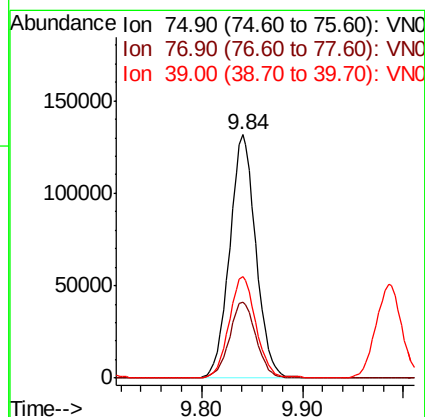
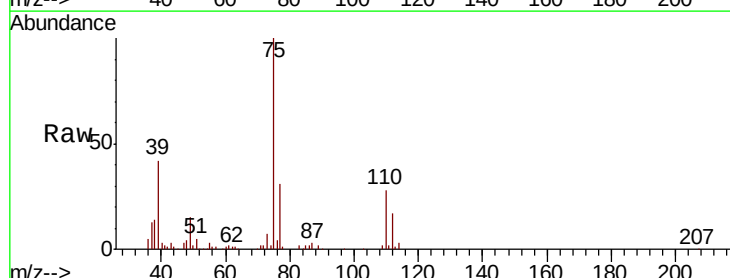
Tgt Ion: 75 Resp: 238703

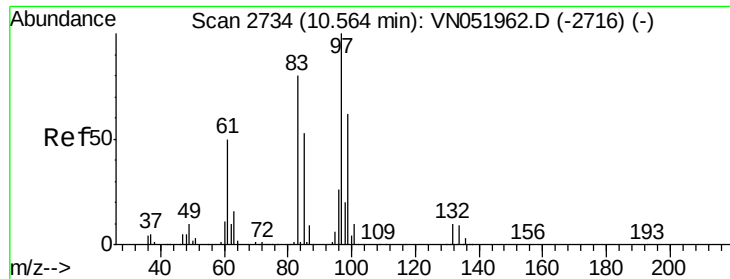
Ion Ratio Lower Upper

75 100

77 31.3 25.2 37.8

39 41.6 32.0 48.0





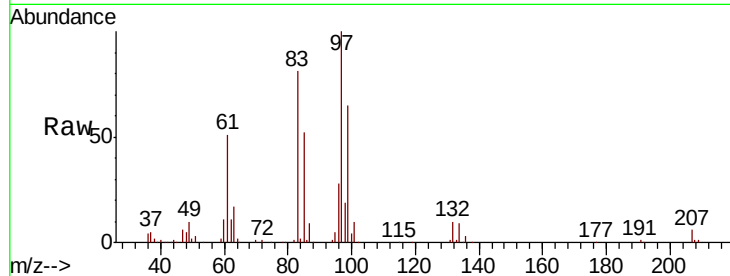
#55
 1,1,2-Trichloroethane
 Concen: 19.653 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
97	100	166145		
83	81.2	64.0	96.0	
85	51.9	42.4	63.6	
99	64.8	49.4	74.2	

Manual Integrations
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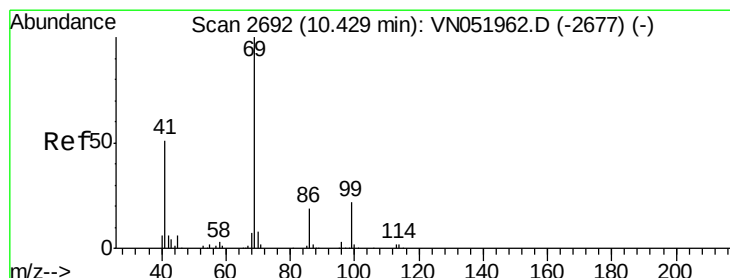
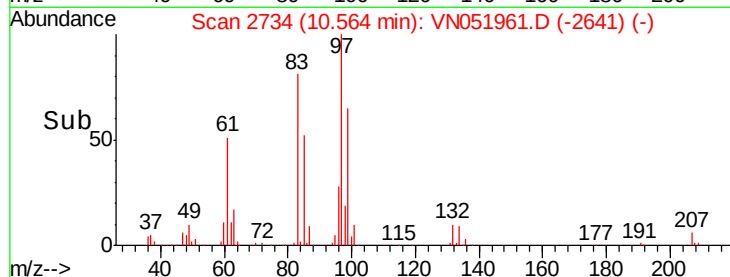
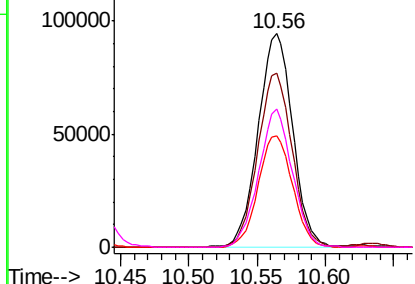
Abundance

Ion 96.90 (96.60 to 97.60): VNO

Ion 82.90 (82.60 to 83.60): VNO

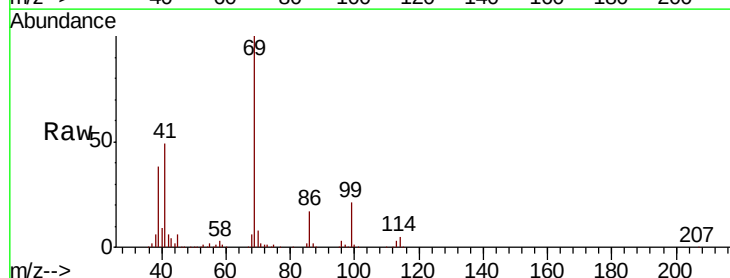
Ion 84.90 (84.60 to 85.60): VNO

Ion 98.90 (98.60 to 99.60): VNO



#56
 Ethyl methacrylate
 Concen: 19.815 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	180062		
41	50.0	40.7	61.1	
39	38.2	29.3	43.9	

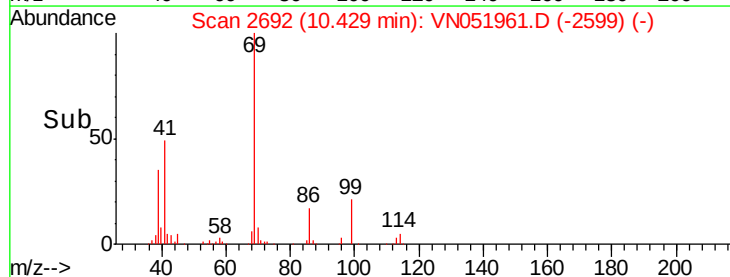
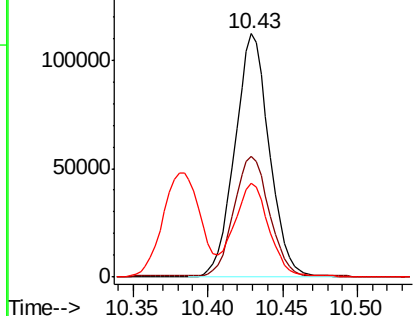


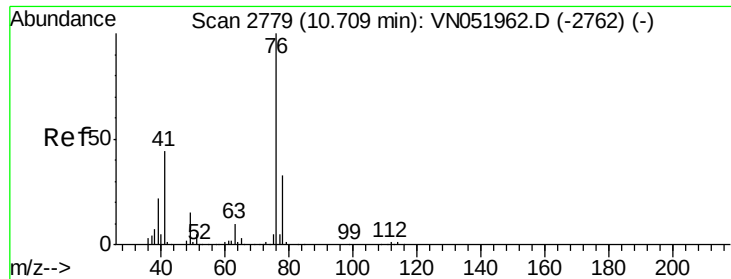
Abundance

Ion 69.00 (68.70 to 69.70): VNO

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





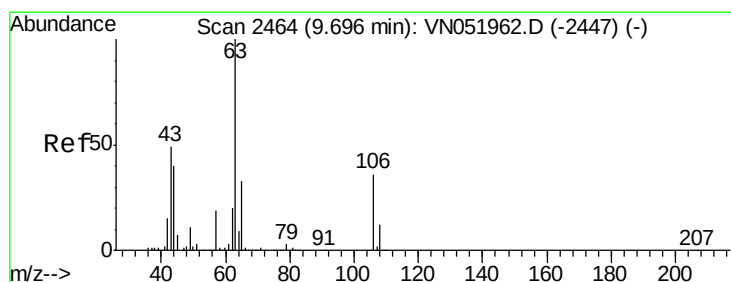
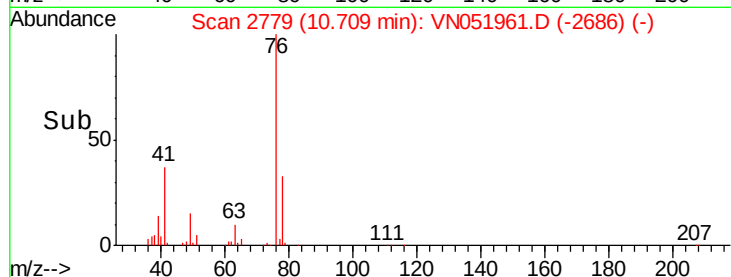
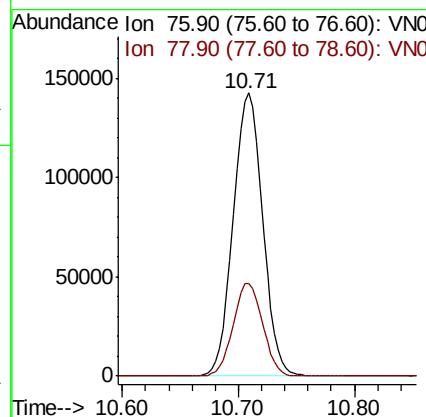
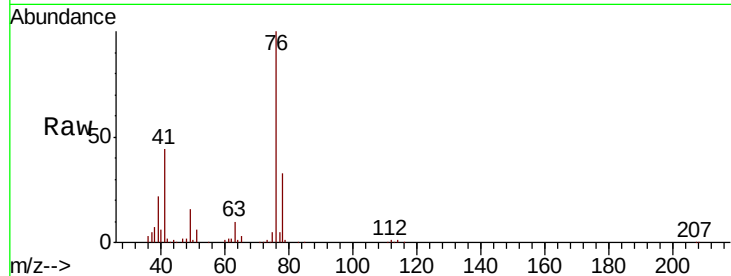
#57
 1,3-Dichloropropane
 Concen: 19.515 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 76 Resp: 250453
 Ion Ratio Lower Upper
 76 100
 78 32.8 26.4 39.6

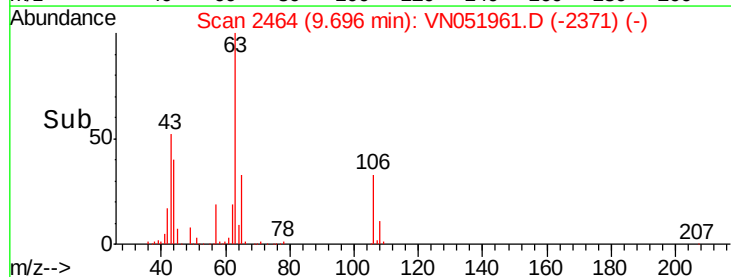
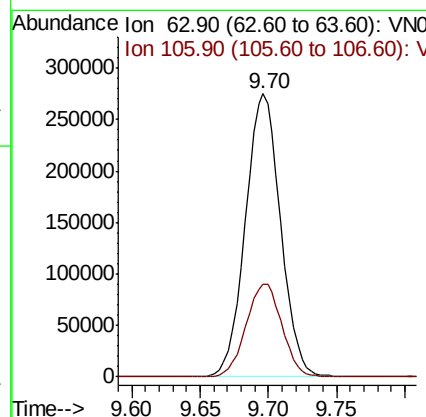
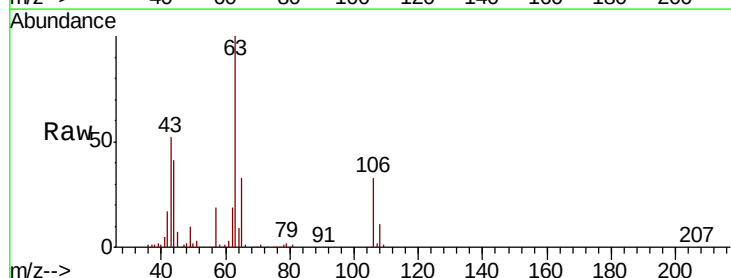
Manual Integrations
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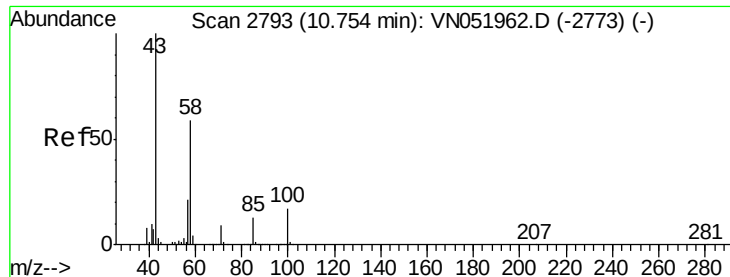
MMDadoda
 10/24/2018 10:09:15 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 103.309 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Tgt Ion: 63 Resp: 491218
 Ion Ratio Lower Upper
 63 100
 106 33.5 28.3 42.5





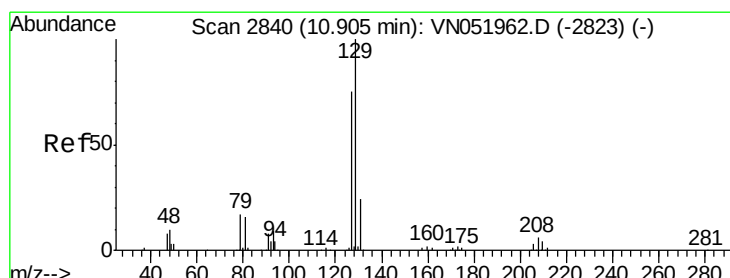
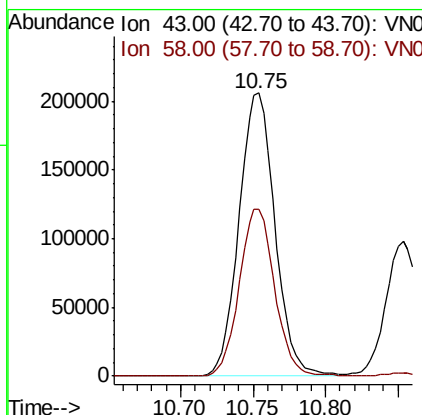
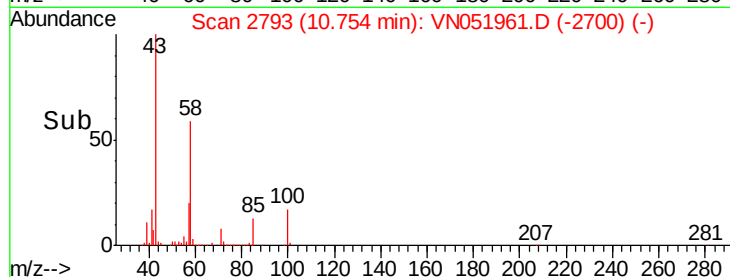
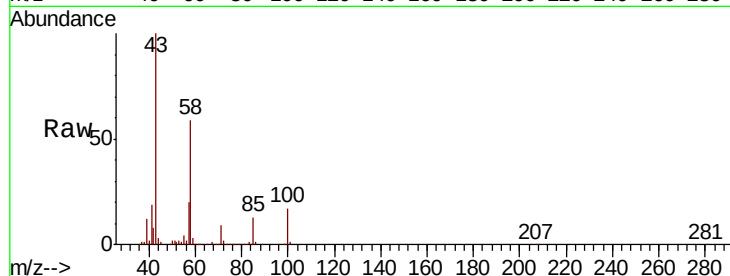
#59
2-Hexanone
Concen: 100.498 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 353490
Ion Ratio Lower Upper
43 100
58 58.4 29.9 89.8

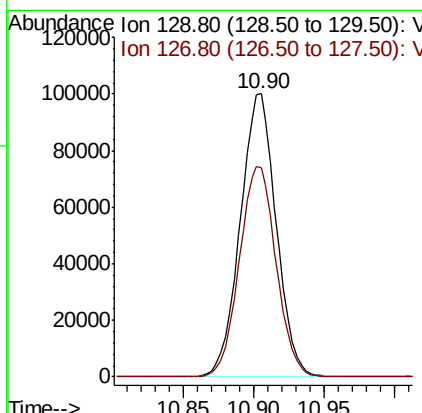
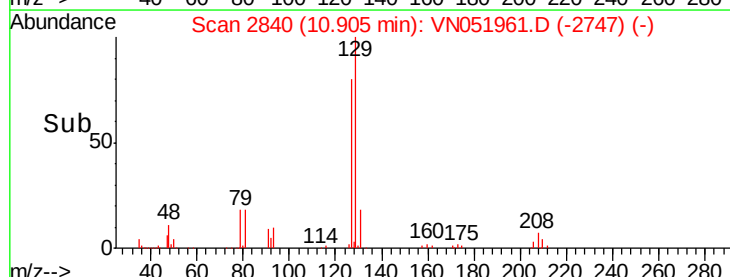
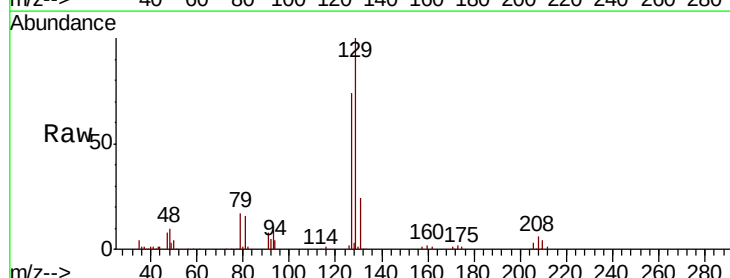
Manual Integrations
APPROVED

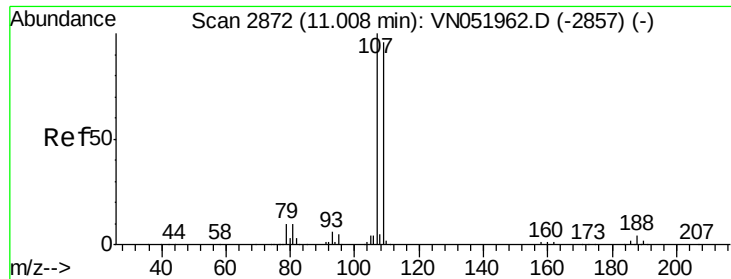
MMDadoda
10/24/2018 10:09:15 AM



#60
Dibromochloromethane
Concen: 18.829 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tgt Ion: 129 Resp: 178384
Ion Ratio Lower Upper
129 100
127 76.0 38.0 114.0





#61

1,2-Dibromoethane

Concen: 19.556 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 107 Resp: 174311

Ion Ratio Lower Upper

107 100

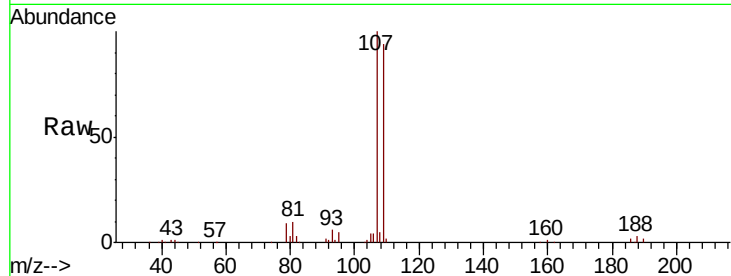
109 93.8 75.9 113.9

Manual Integrations

APPROVED

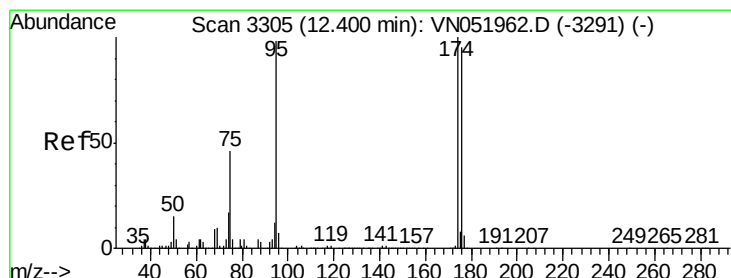
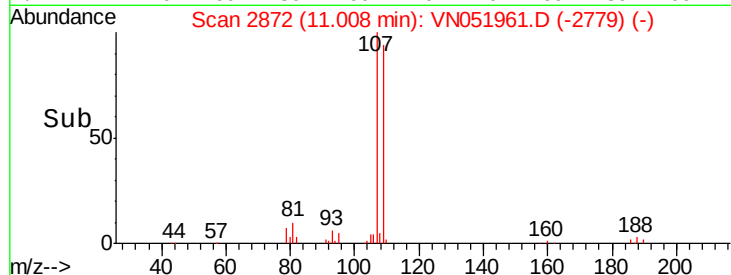
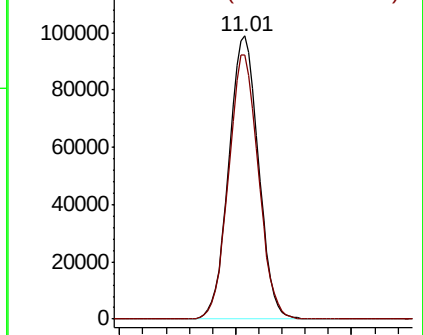
MMDadoda

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 19.556 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

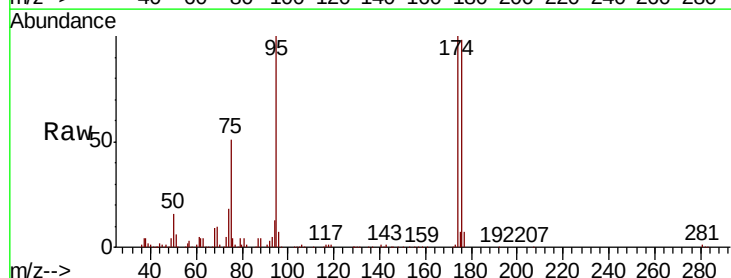
Tgt Ion: 95 Resp: 220424

Ion Ratio Lower Upper

95 100

174 99.5 0.0 206.0

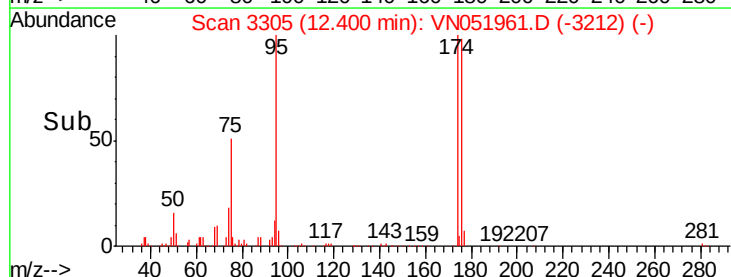
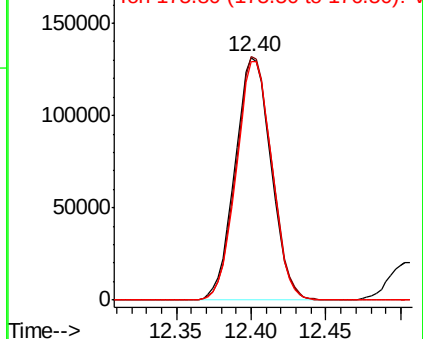
176 96.9 0.0 198.0

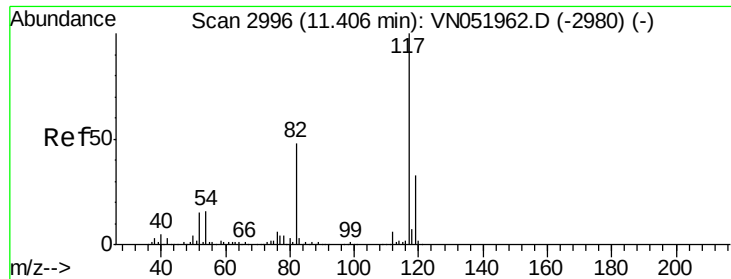


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





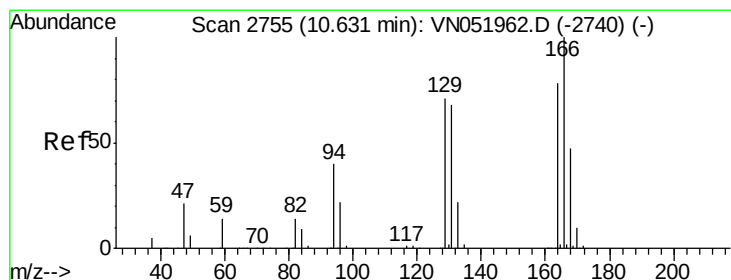
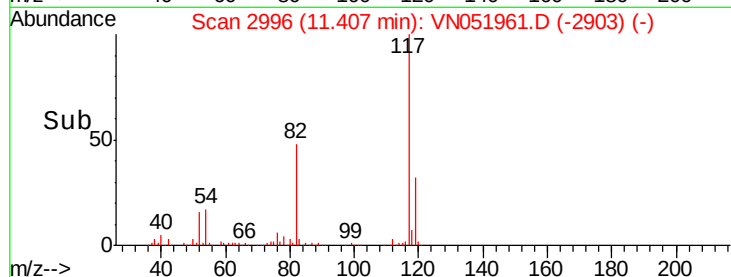
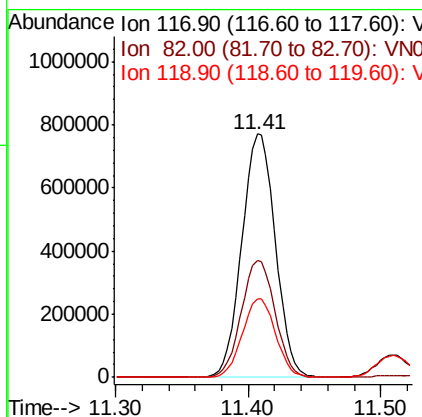
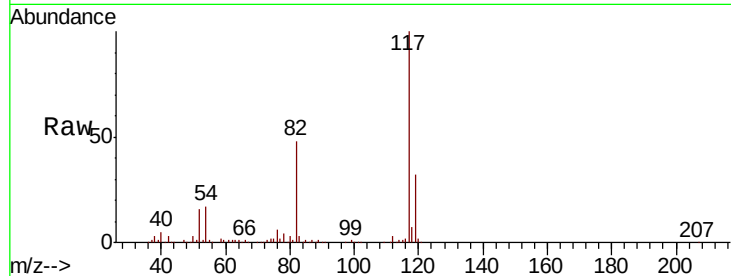
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:117 Resp: 1353717
Ion Ratio Lower Upper
117 100
82 48.2 38.1 57.1
119 32.5 26.4 39.6

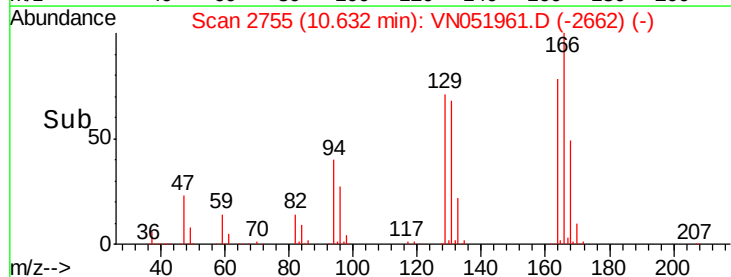
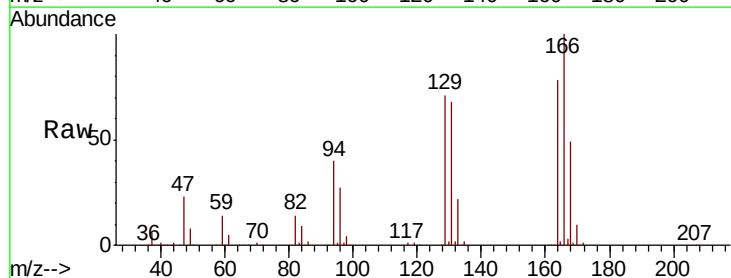
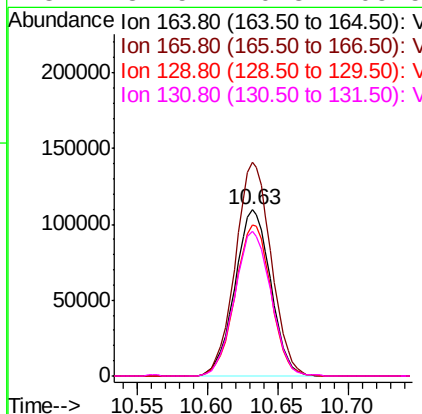
Manual Integrations
APPROVED

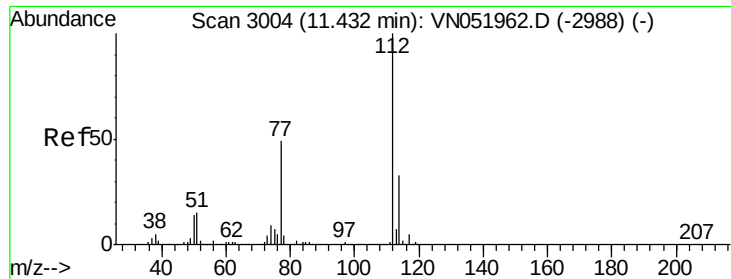
MMDadoda
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#64
Tetrachloroethene
Concen: 18.721 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tgt Ion:164 Resp: 194513
Ion Ratio Lower Upper
164 100
166 128.8 103.1 154.7
129 90.9 73.6 110.4
131 87.5 70.3 105.5





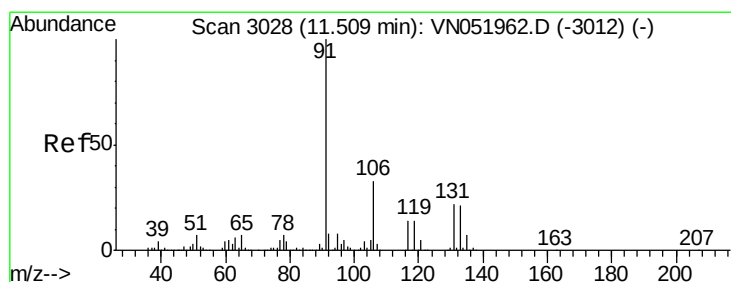
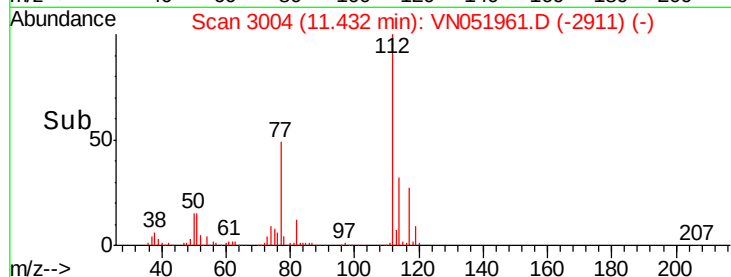
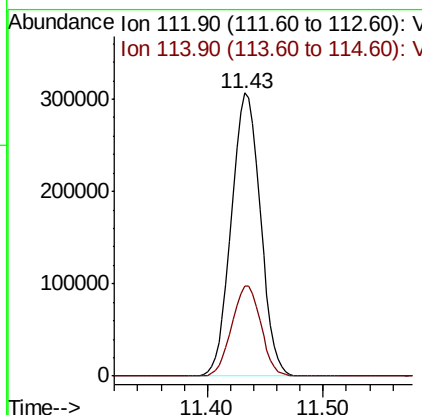
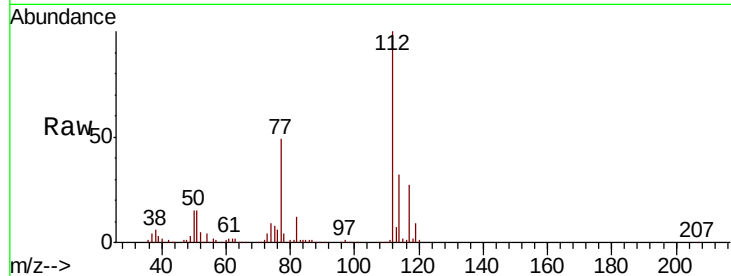
#65
Chlorobenzene
Concen: 19.419 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.7	26.1	39.1

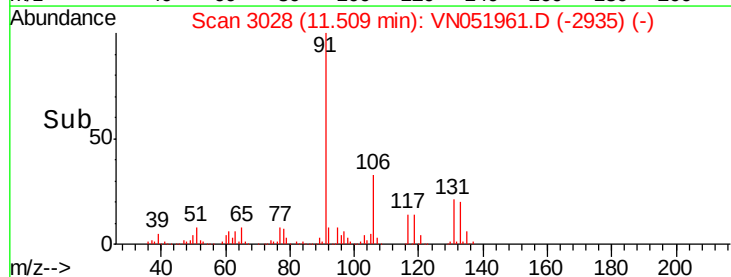
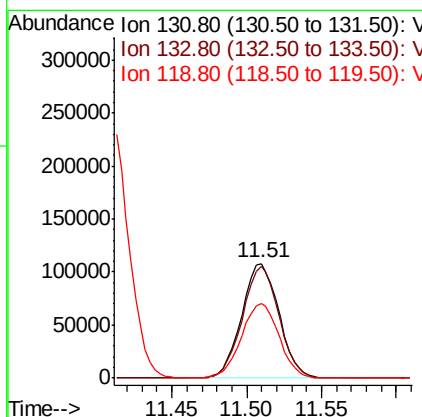
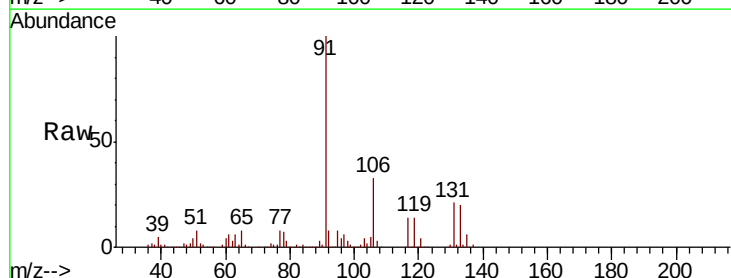
Manual Integrations
APPROVED

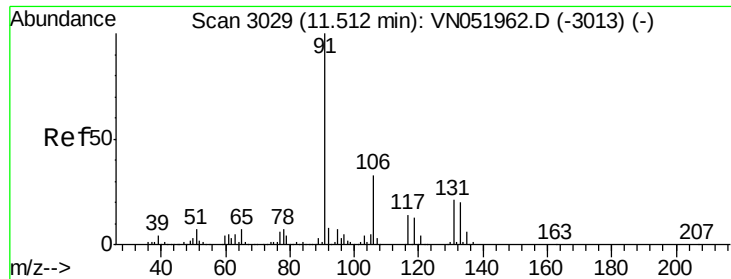
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.076 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.0	47.8	143.3
119	65.5	32.0	96.2





#67

Ethyl Benzene

Concen: 19.461 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 855020

Ion Ratio Lower Upper

91 100

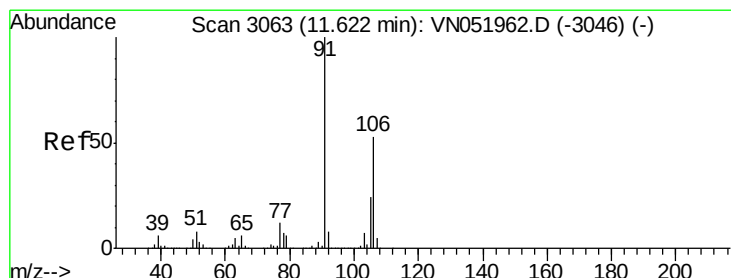
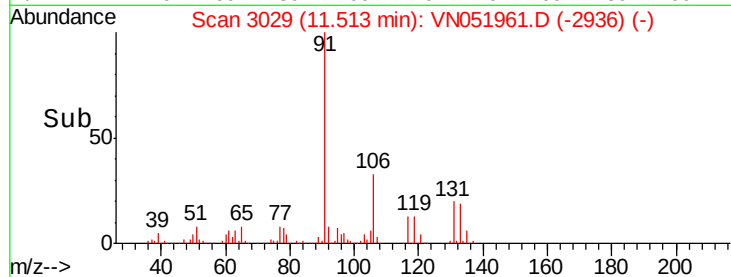
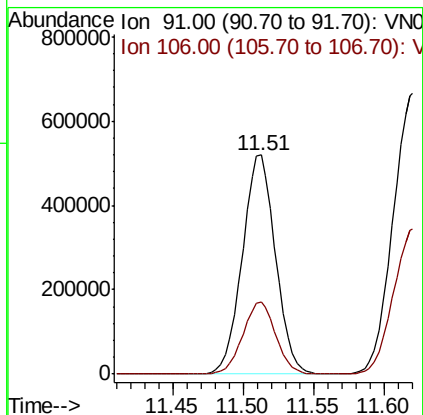
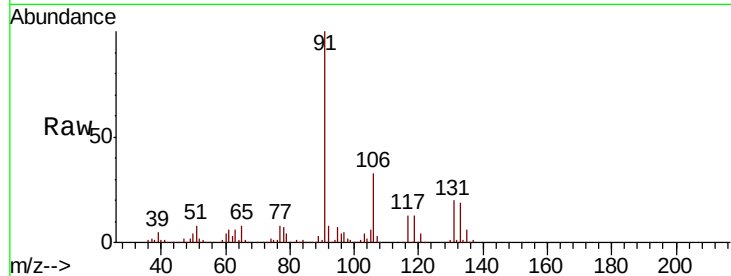
106 33.0 26.4 39.6

Manual Integrations

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#68

m/p-Xylenes

Concen: 38.827 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN051961.D

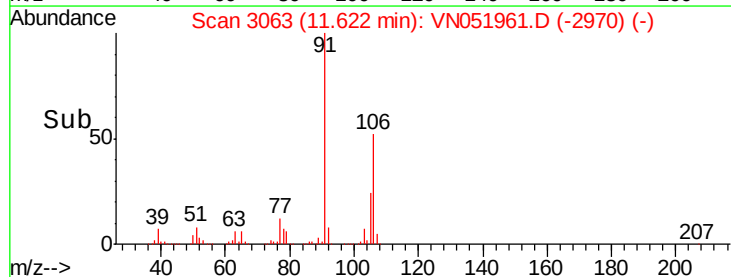
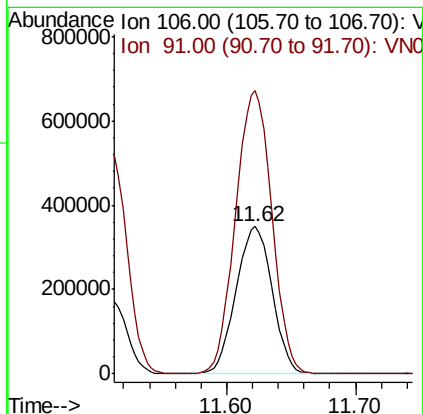
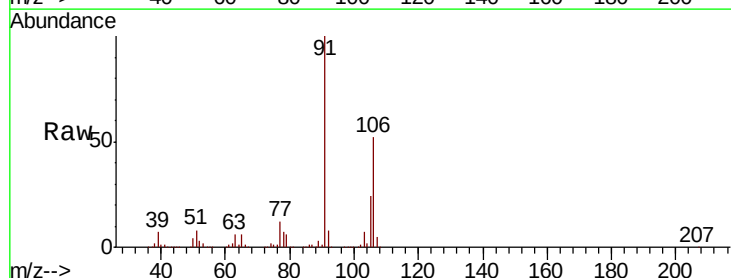
Acq: 23 Oct 2018 13:34

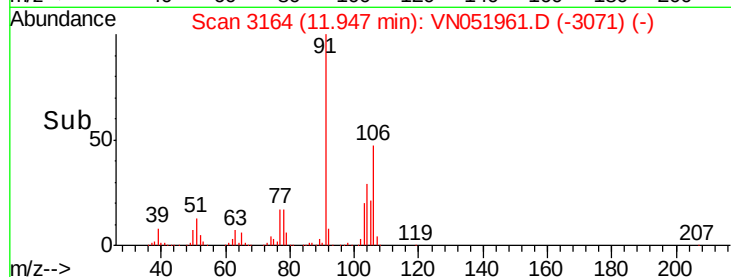
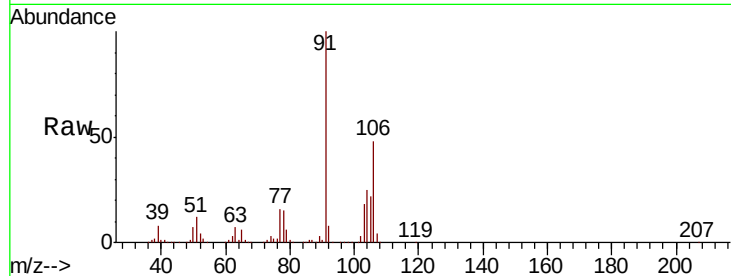
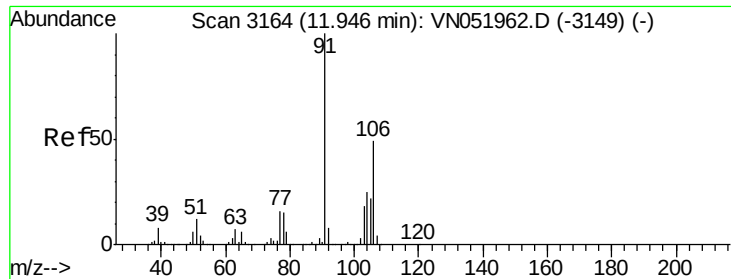
Tgt Ion: 106 Resp: 681550

Ion Ratio Lower Upper

106 100

91 192.7 152.2 228.2





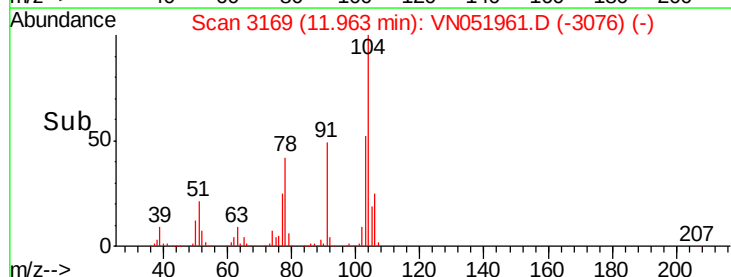
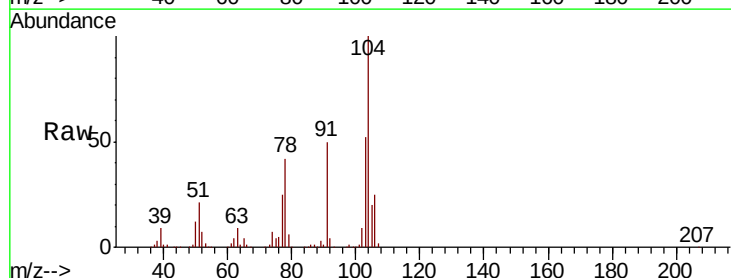
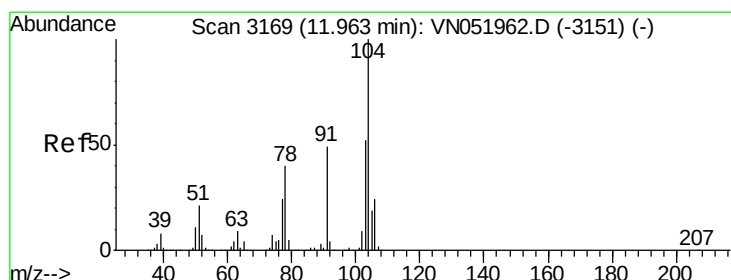
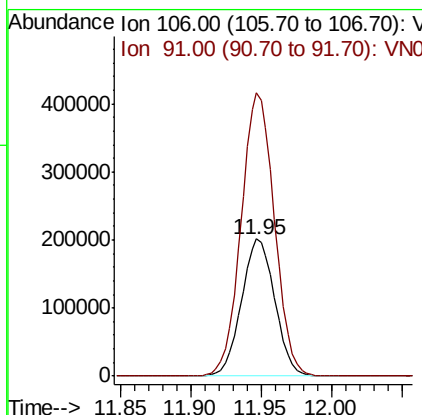
#69
o-Xylene
Concen: 19.543 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tot Ion:106 Resp: 333623
Ion Ratio Lower Upper
106 100
91 205.9 101.0 303.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

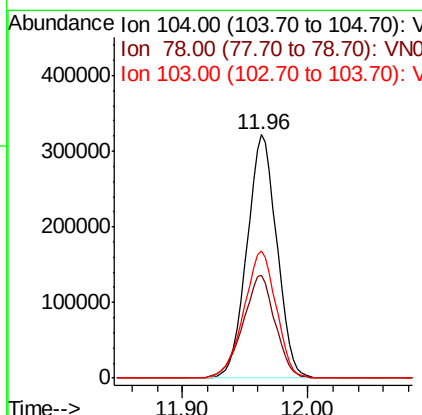
Manual Integrations
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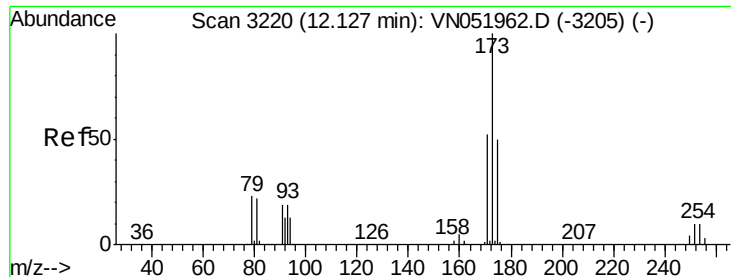
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#70
Styrene
Concen: 19.543 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tgt Ion:104 Resp: 533233
Ion Ratio Lower Upper
104 100
78 45.7 35.8 53.6
103 56.5 44.9 67.3





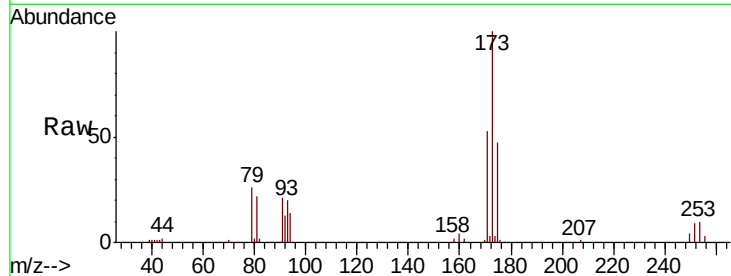
#71
Bromoform
Concen: 17.710 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.7	24.6	74.0
254	0.0	0.1	0.1#

Manual Integrations
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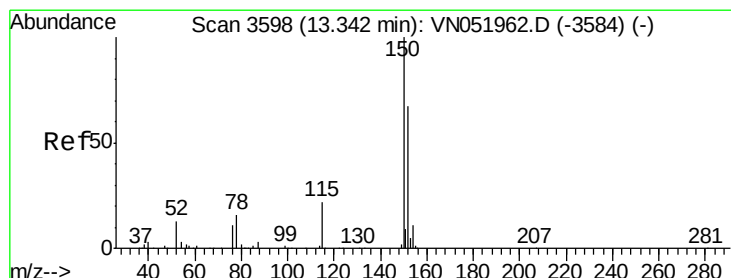
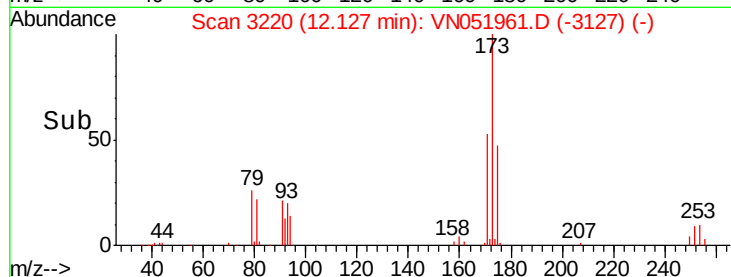
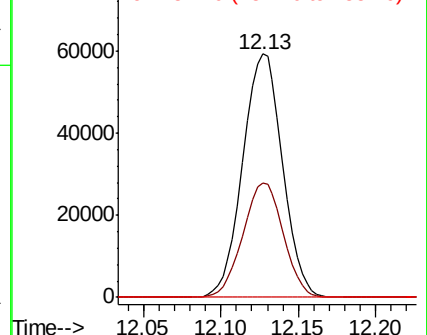


Abundance

Ion 172.70 (172.40 to 173.40): V

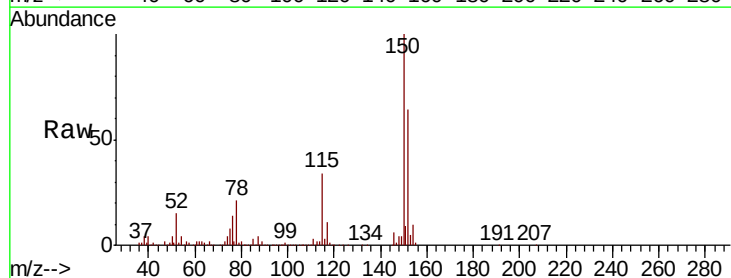
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.3	25.8	77.3
150	162.8	0.0	344.4

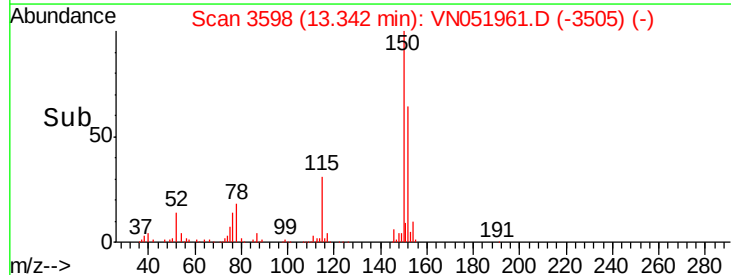
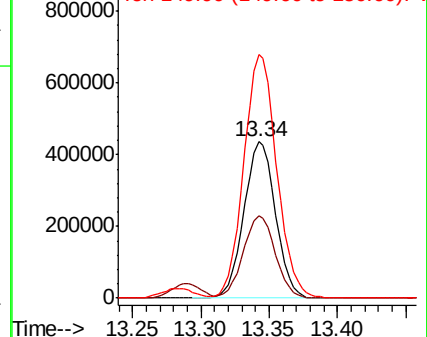


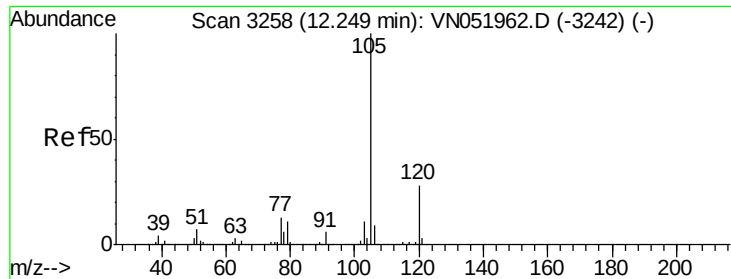
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.127 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 890148

Ion Ratio Lower Upper

105 100

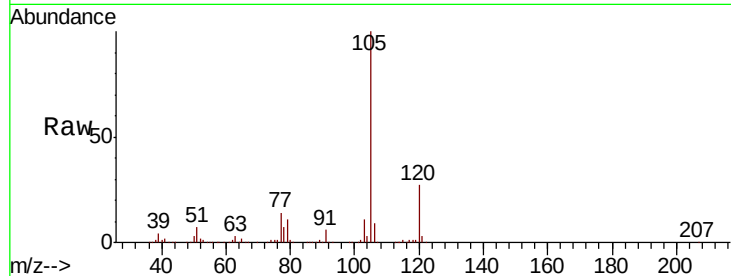
120 27.8 14.0 41.9

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

600000

500000

400000

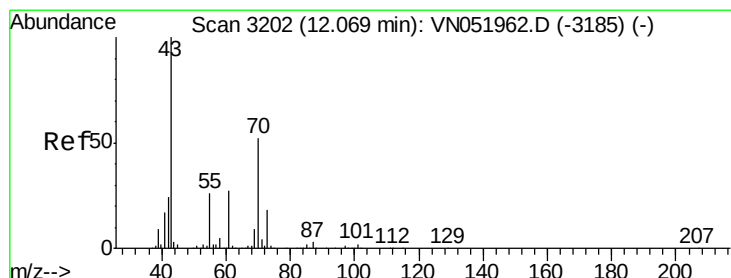
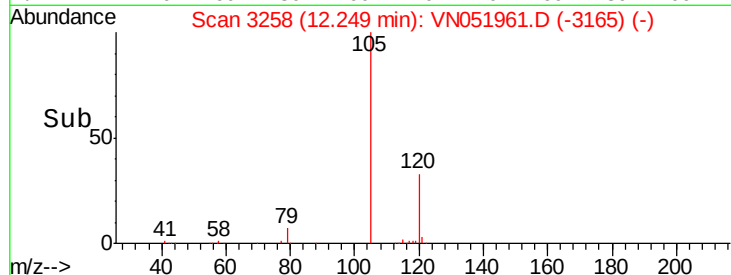
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 19.928 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Tgt Ion: 43 Resp: 173478

Ion Ratio Lower Upper

43 100

70 50.3 41.3 61.9

55 27.5 21.2 31.8

61 27.1 21.8 32.8

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

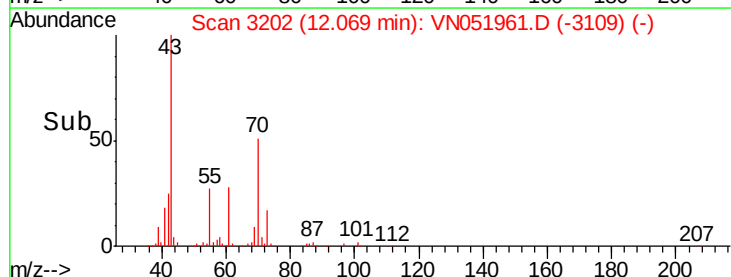
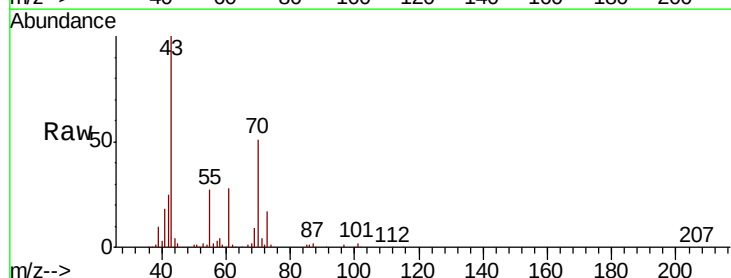
150000

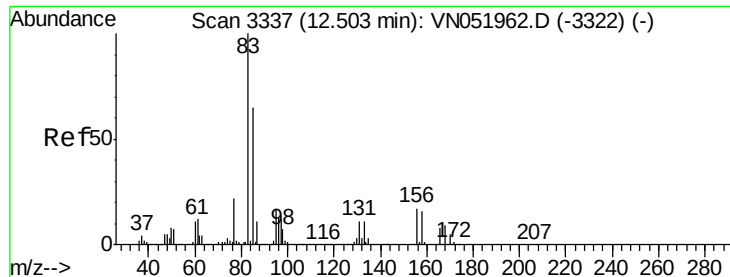
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.983 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

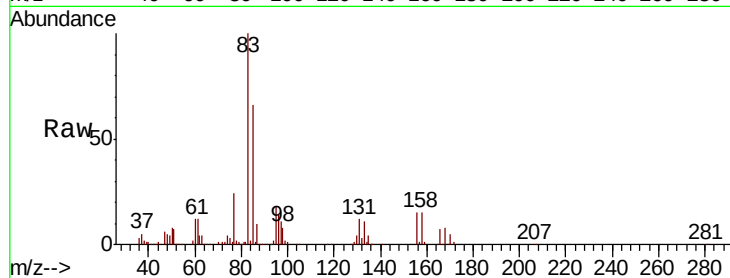
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	191754
Ion Ratio	Lower	Upper	
83	100		
131	11.9	6.2	18.6
85	65.9	32.7	98.1

Manual Integrations
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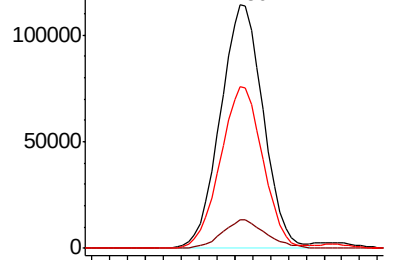
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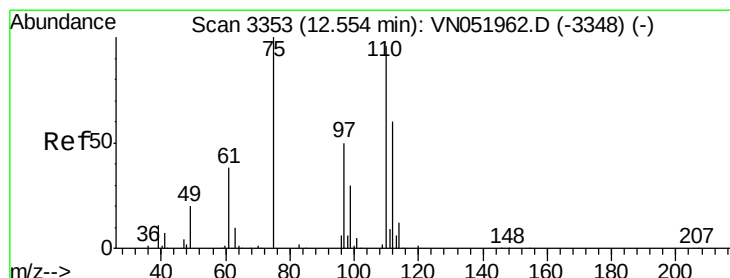
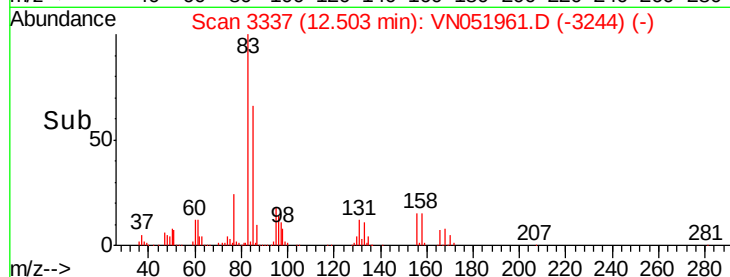
Abundance Ion 82.90 (82.60 to 83.60): VN051961.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN051961.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN051961.D (-3322) (-)



Time-->



#76

1,2,3-Trichloropropane

Concen: 22.534 ug/l m

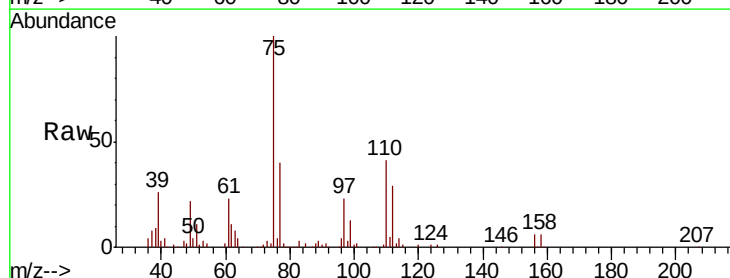
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN051961.D

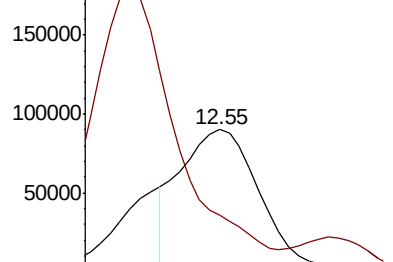
Acq: 23 Oct 2018 13:34

Tgt Ion:	75	Resp:	160030
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0

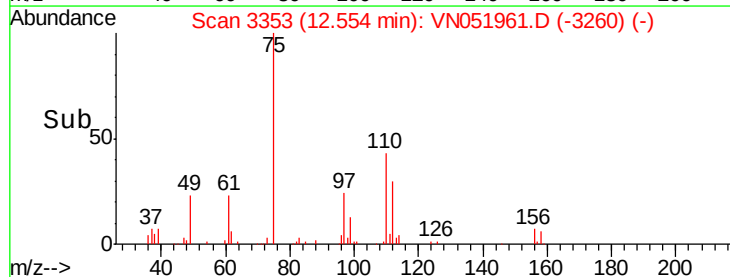


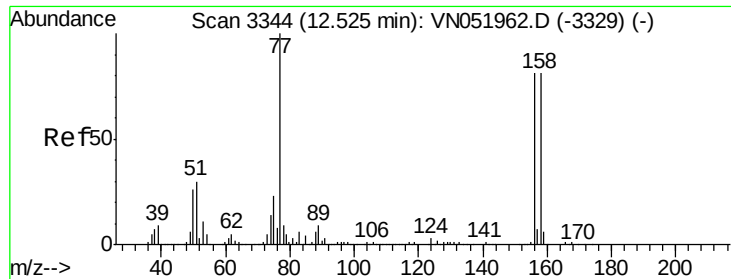
Abundance Ion 74.90 (74.60 to 75.60): VN051961.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN051961.D (-3348) (-)



Time-->





#77

Bromobenzene

Concen: 19.715 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

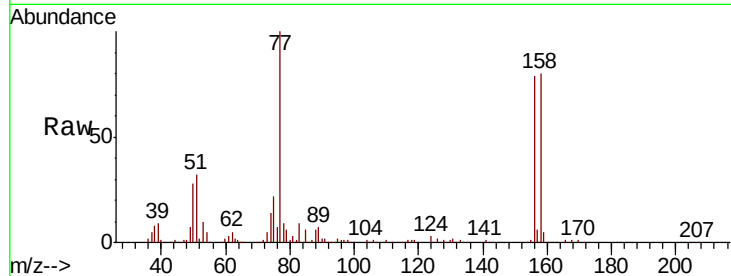
ClientSampleId :

VSTDIC020

Tot Ion:	156	Resp:	240634
Ion Ratio	Lower	Upper	
156	100		
77	147.9	71.1	213.3
158	98.4	49.3	147.8

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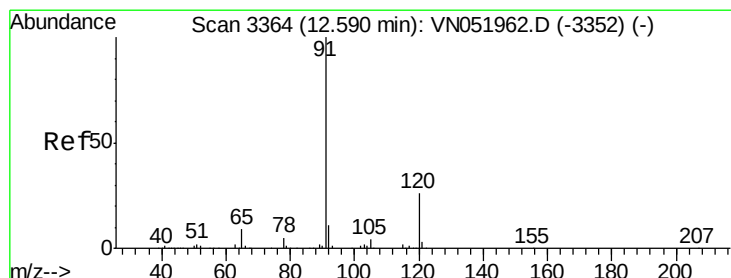
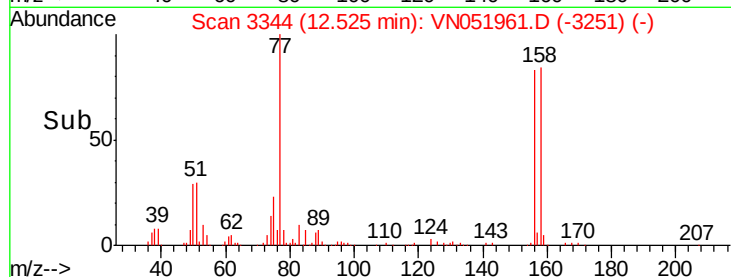
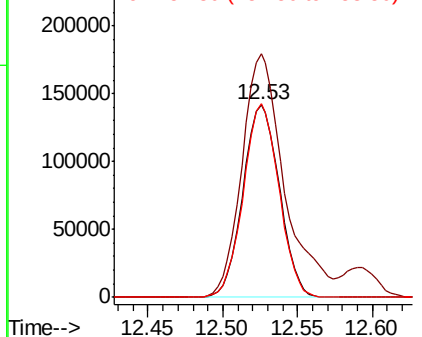
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.366 ug/l

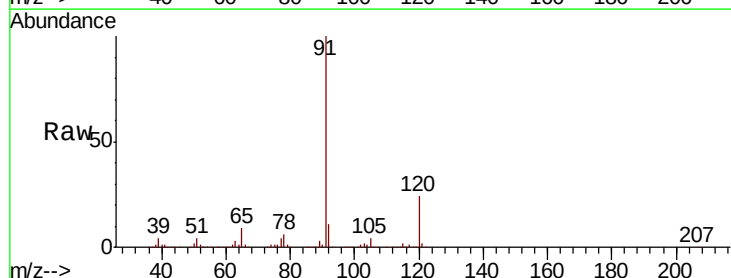
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN051961.D

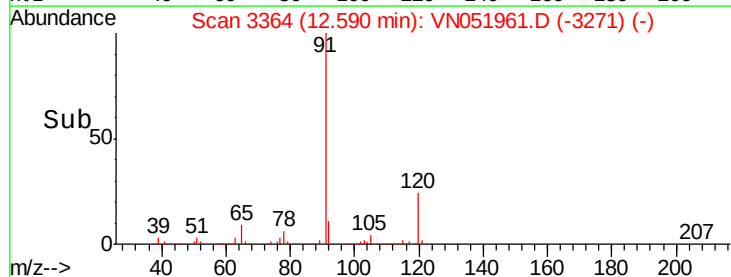
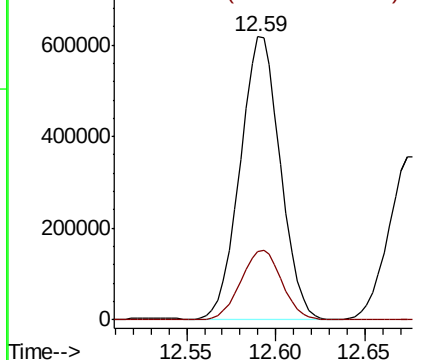
Acq: 23 Oct 2018 13:34

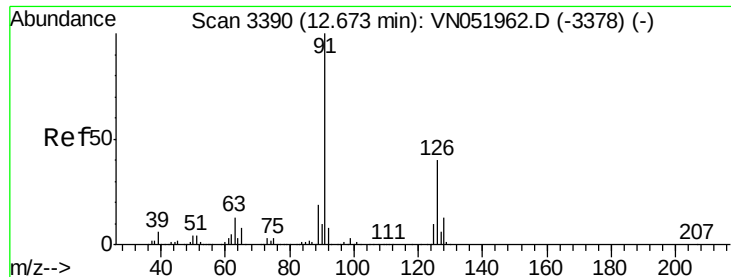
Tgt Ion:	91	Resp:	971622
Ion Ratio	Lower	Upper	
91	100		
120	25.2	13.1	39.3



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.710 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 575384

Ion Ratio Lower Upper

91 100

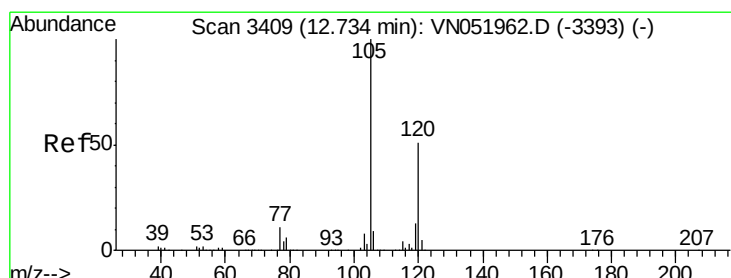
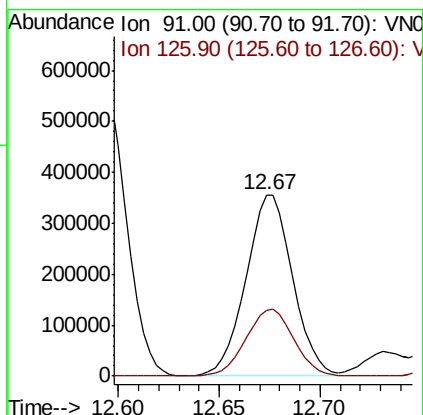
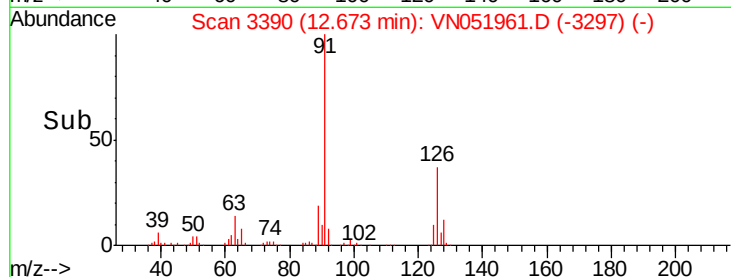
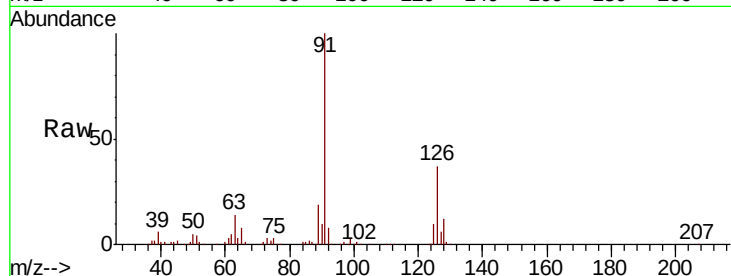
126 38.0 20.1 60.3

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#80

1,3,5-Trimethylbenzene

Concen: 20.522 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051961.D

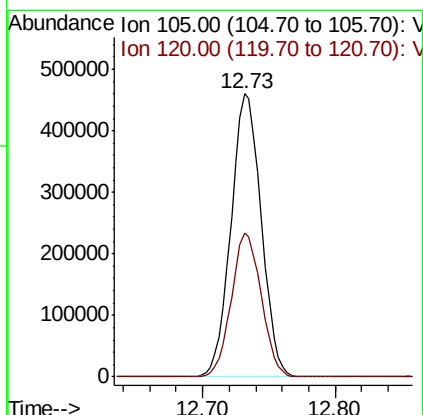
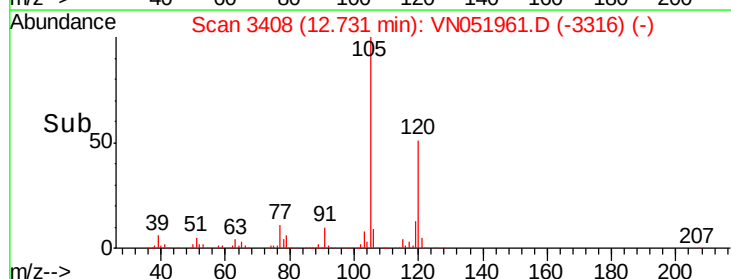
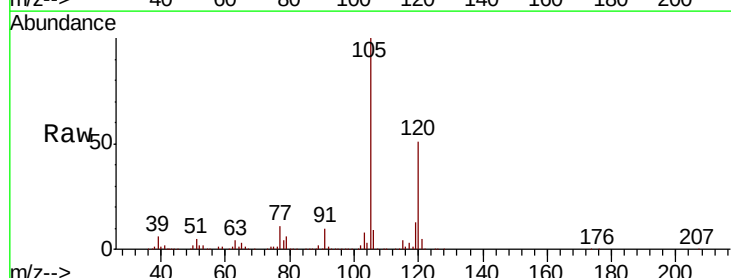
Acq: 23 Oct 2018 13:34

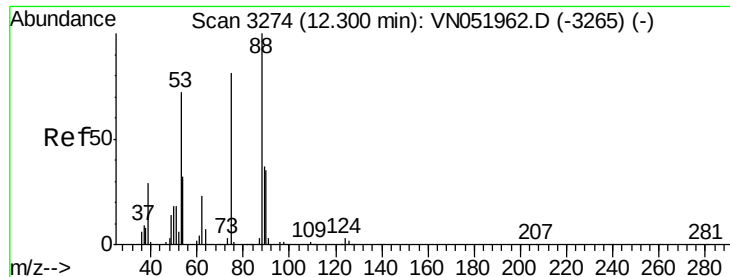
Tgt Ion: 105 Resp: 728191

Ion Ratio Lower Upper

105 100

120 50.3 25.7 77.1





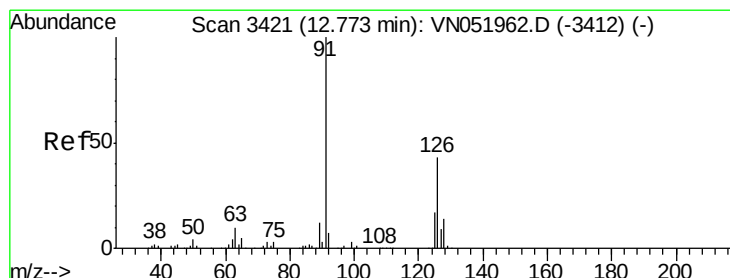
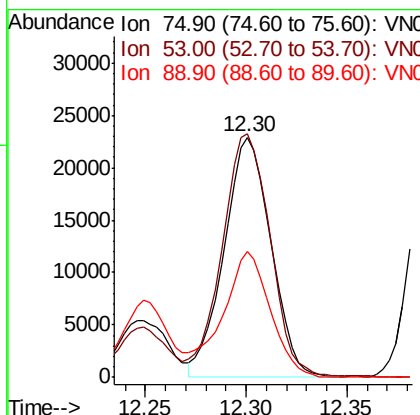
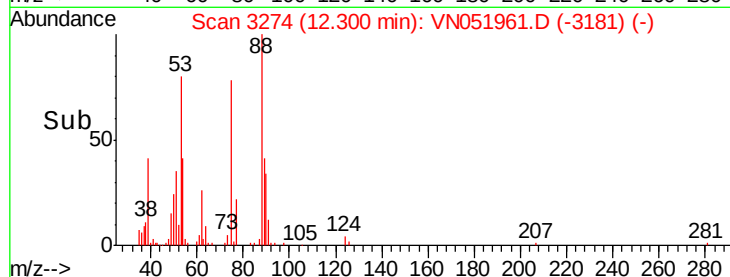
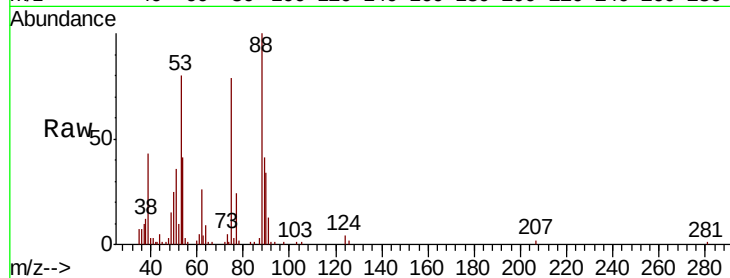
#81
trans-1,4-Dichloro-2-butene
Concen: 19.203 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	103.1	73.5	110.3
89	52.9	41.6	62.4

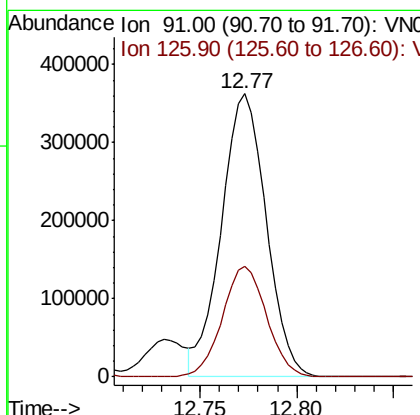
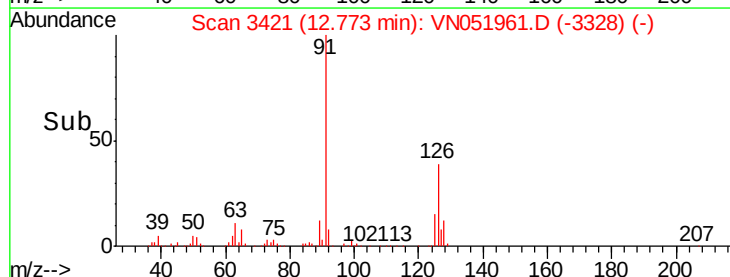
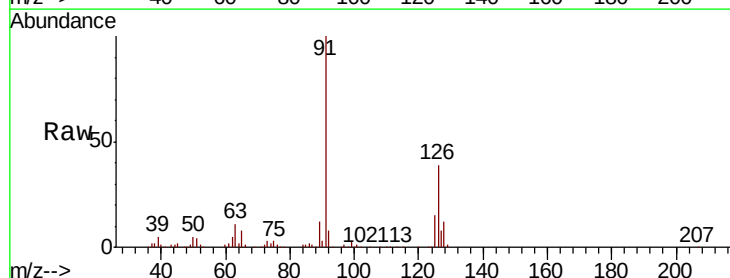
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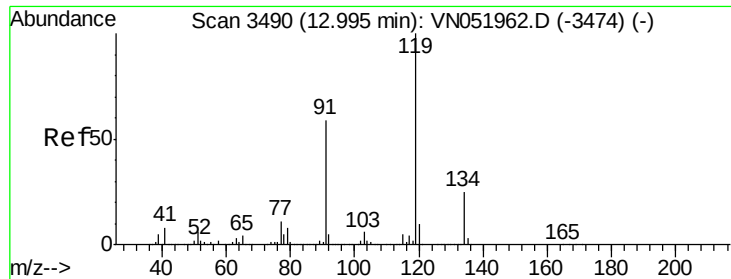
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#82
4-Chlorotoluene
Concen: 20.240 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Lower	Upper
91	100		
126	38.5	19.7	59.0





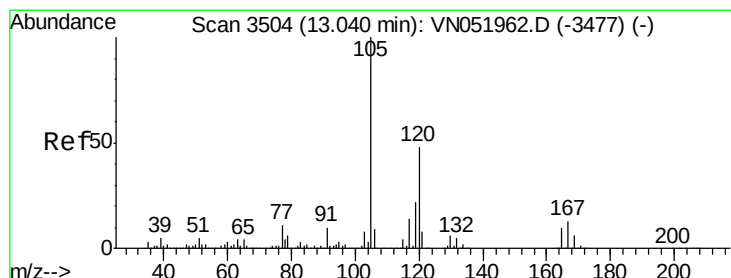
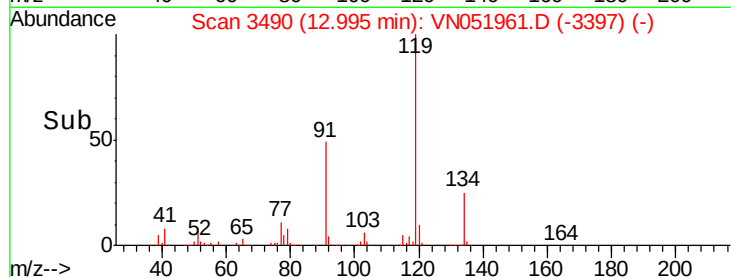
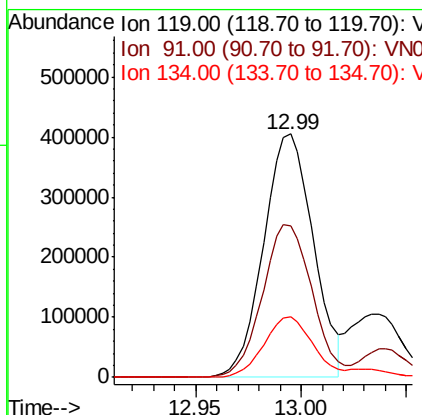
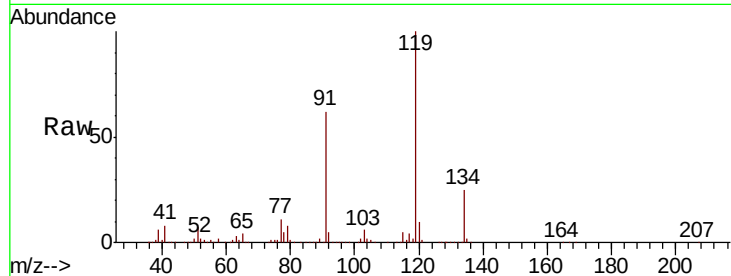
#83
 tert-Butylbenzene
 Concen: 19.859 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	666480		
91	62.5	28.8	86.4	
134	24.5	13.4	40.1	

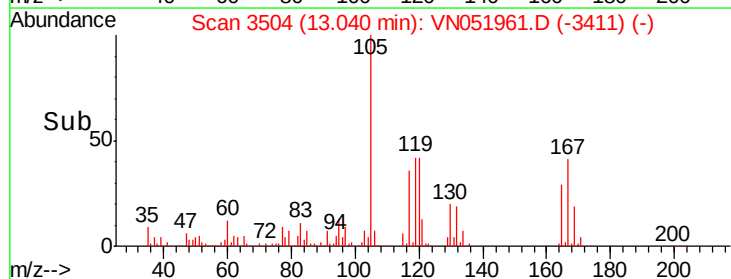
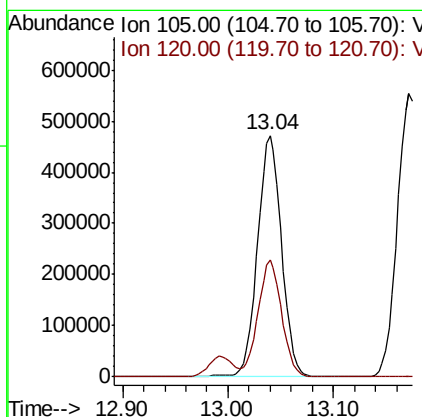
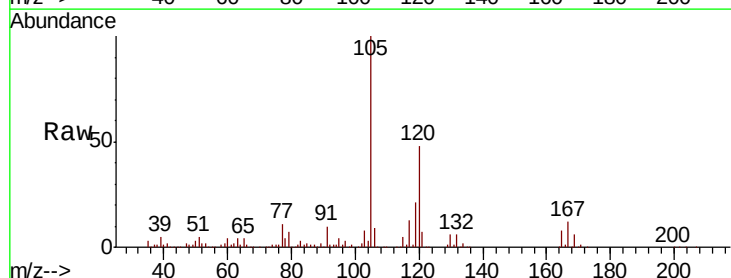
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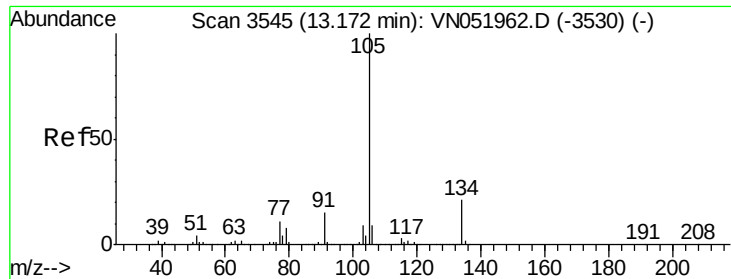
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.488 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	749893		
120	47.7	23.8	71.5	





#85

sec-Butylbenzene

Concen: 20.158 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 883534

Ion Ratio Lower Upper

105 100

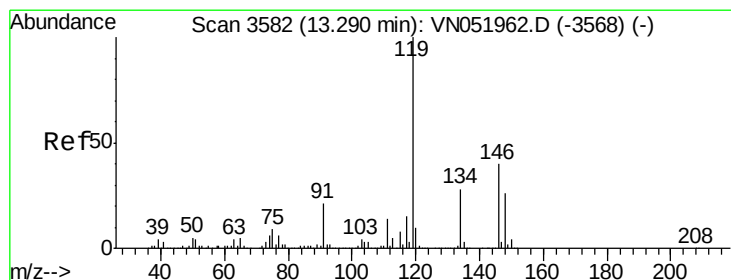
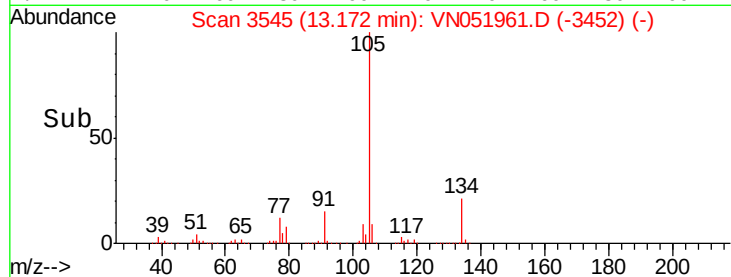
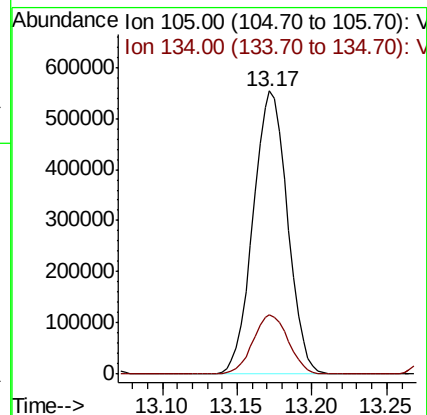
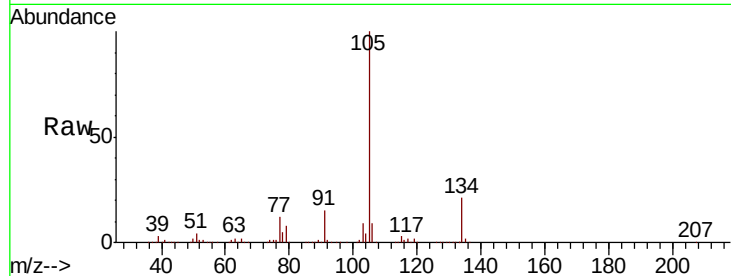
134 21.6 10.9 32.9

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#86

p-Isopropyltoluene

Concen: 20.250 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

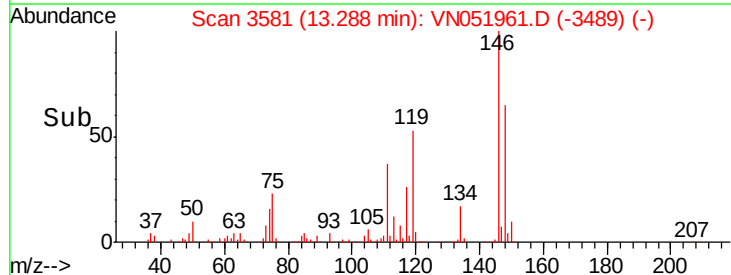
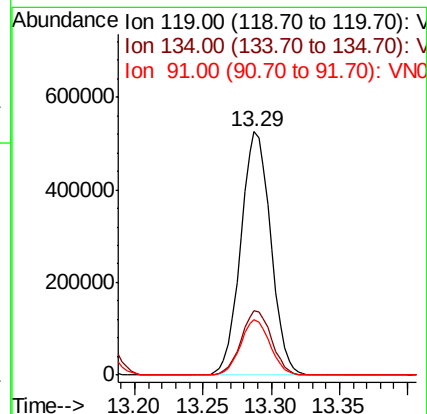
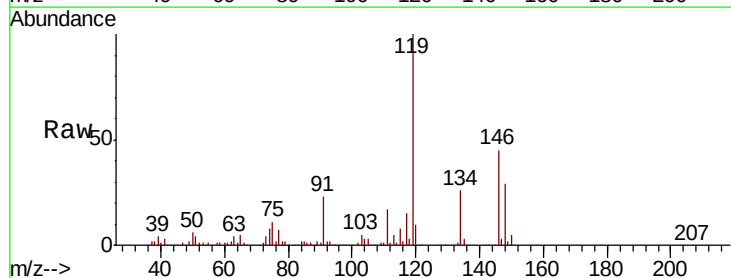
Tgt Ion:119 Resp: 799098

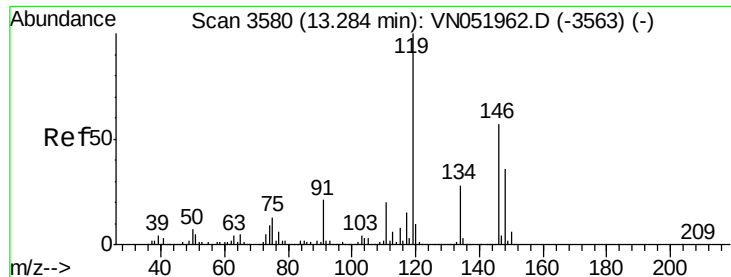
Ion Ratio Lower Upper

119 100

134 27.0 13.9 41.7

91 22.4 10.6 31.8





#87

1,3-Dichlorobenzene

Concen: 19.182 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Instrument :

MSVOA_N

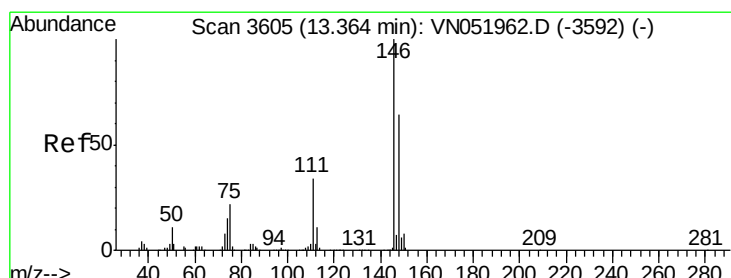
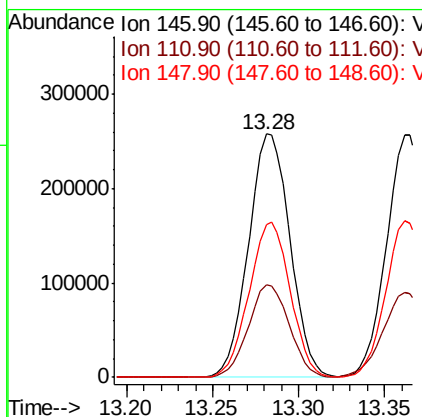
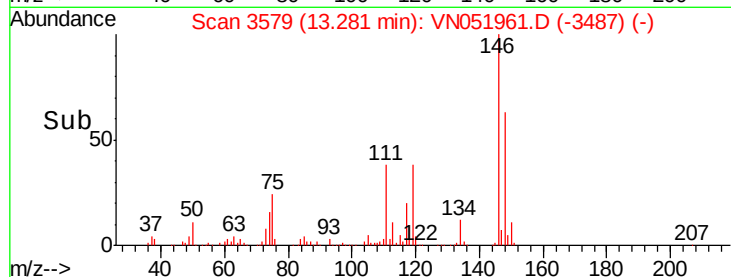
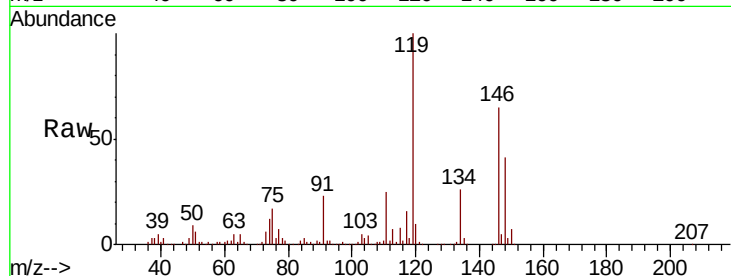
ClientSampleId :

VSTDIC020

Tot Ion:	146	Resp:	431815
Ion Ratio	Lower	Upper	
146	100		
111	37.4	17.6	52.8
148	63.3	32.0	96.0

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#88

1,4-Dichlorobenzene

Concen: 19.218 ug/l

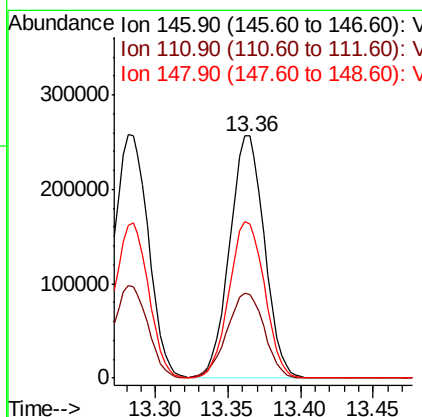
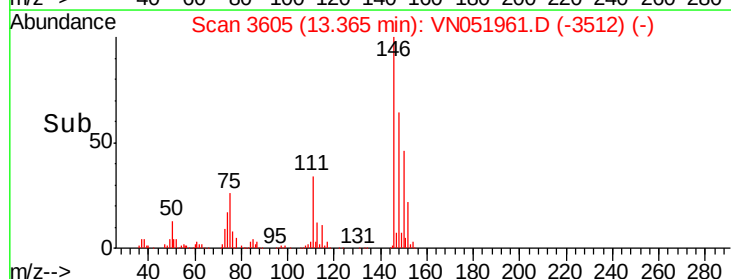
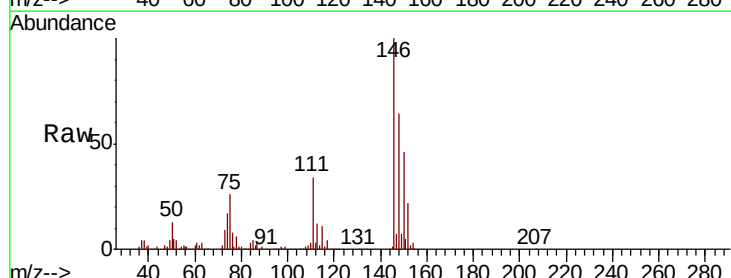
RT: 13.36 min Scan# 3605

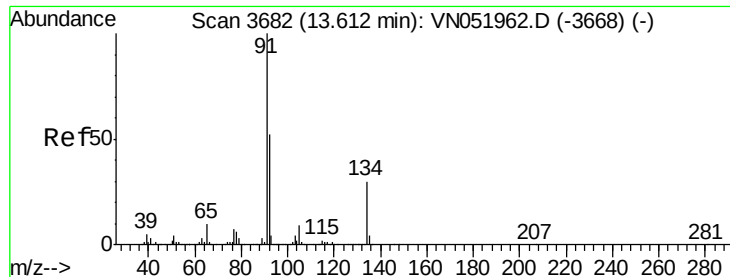
Delta R.T. 0.00 min

Lab File: VN051961.D

Acq: 23 Oct 2018 13:34

Tgt Ion:	146	Resp:	426522
Ion Ratio	Lower	Upper	
146	100		
111	37.7	17.3	51.7
148	65.7	32.1	96.3





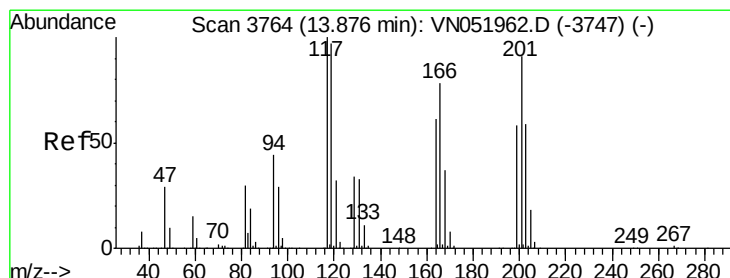
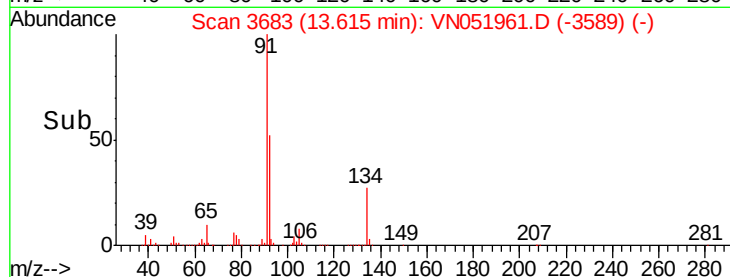
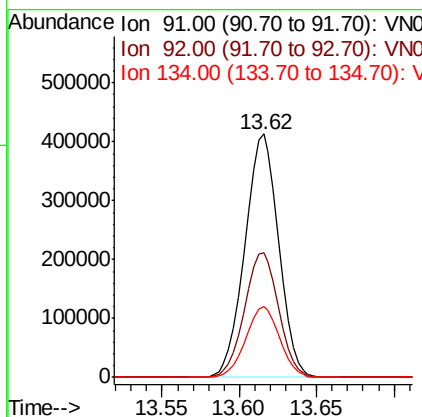
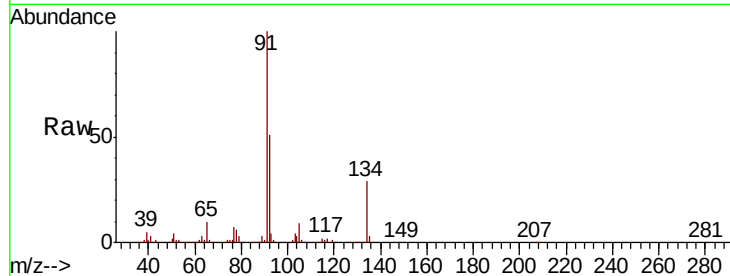
#89
n-Butylbenzene
Concen: 20.011 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.8	25.9	77.8
134	29.1	15.2	45.6

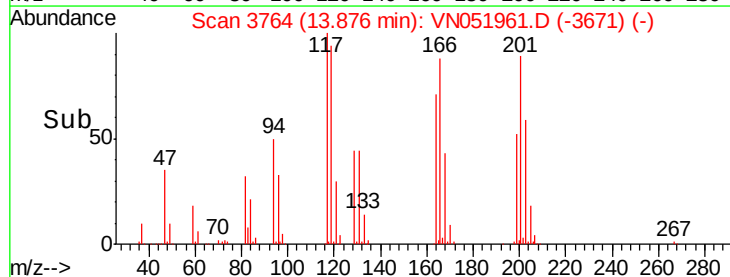
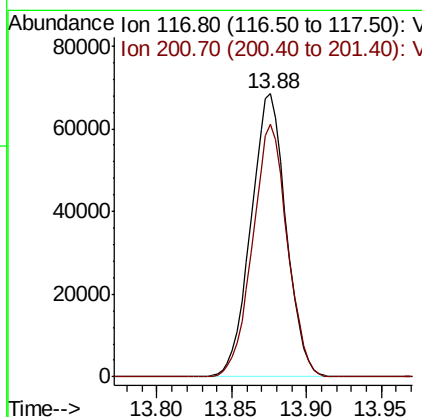
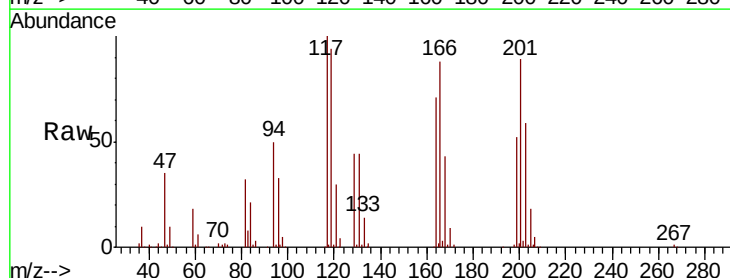
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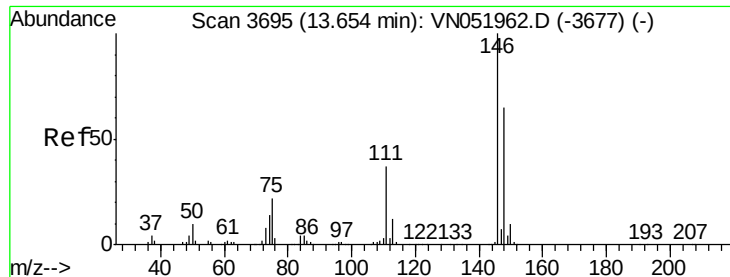
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#90
Hexachloroethane
Concen: 19.074 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.0	45.6	136.9





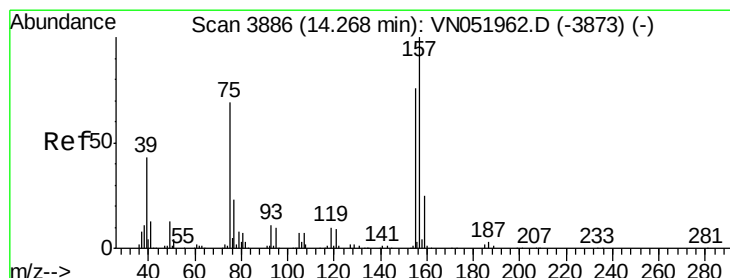
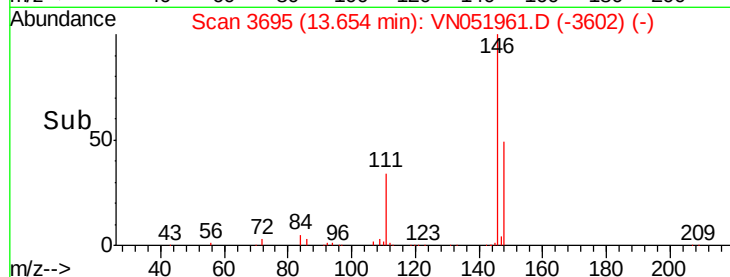
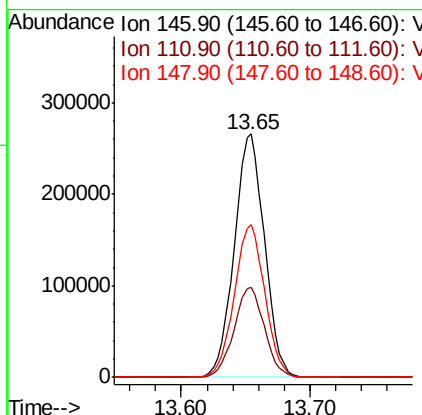
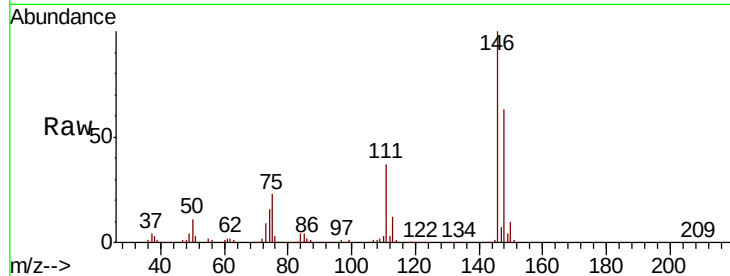
#91
 1,2-Dichlorobenzene
 Concen: 19.865 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.3	54.9
148	63.3	32.4	97.0

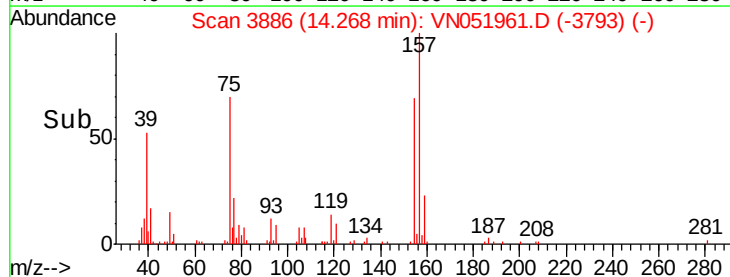
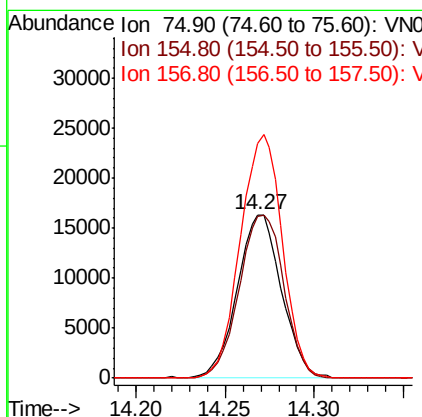
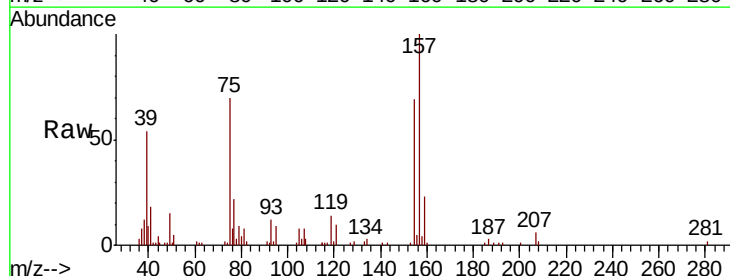
Manual Integrations
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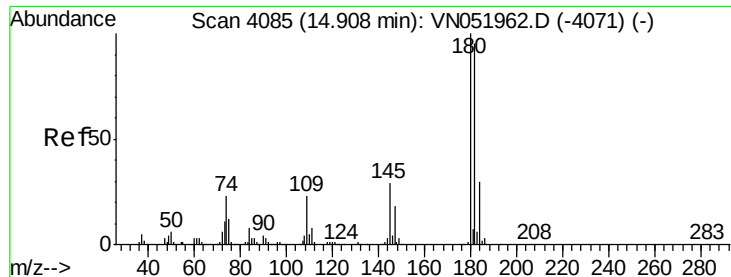
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.091 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Lower	Upper
75	100		
155	101.0	56.0	167.9
157	142.1	73.9	221.6





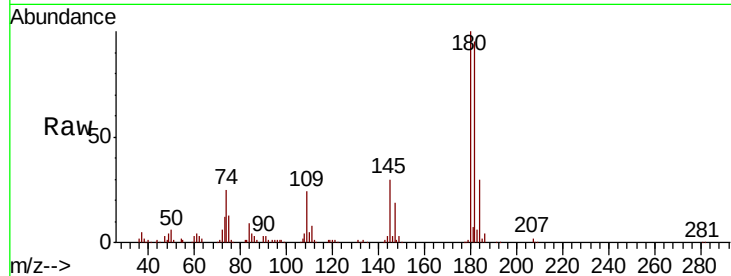
#93
 1,2,4-Trichlorobenzene
 Concen: 18.810 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.8	143.4
145	29.1	14.5	43.5

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 10:09:15 AM

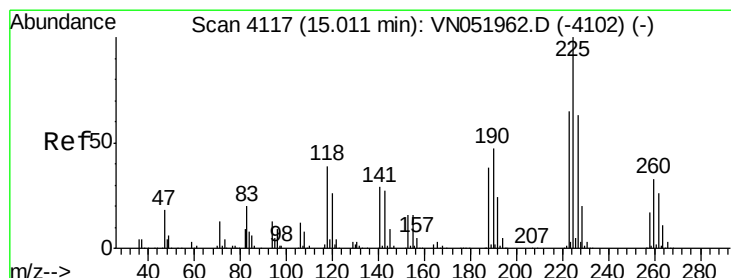
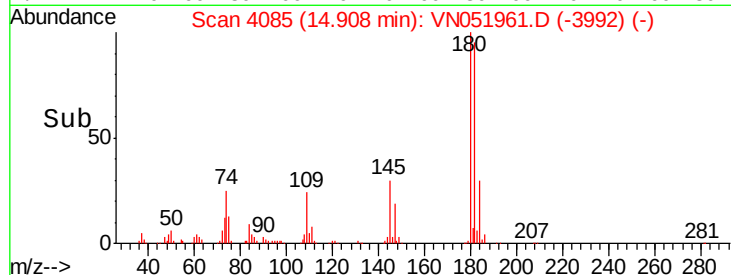
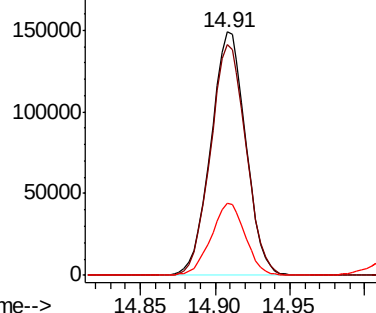


Abundance

Ion 179.80 (179.50 to 180.50): V

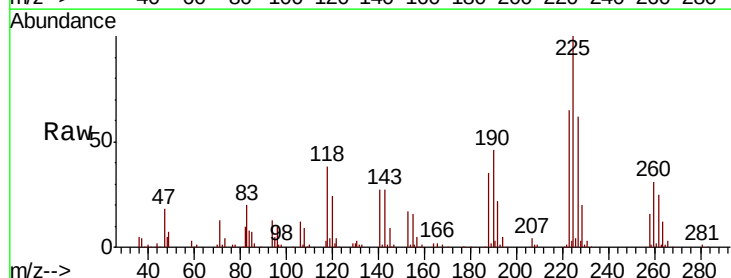
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 19.255 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051961.D
 Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.0	31.8	95.4
227	62.6	31.4	94.2

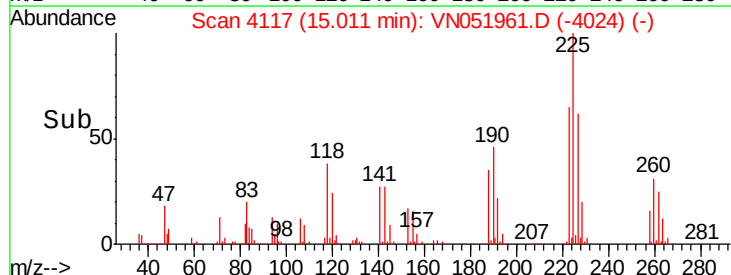
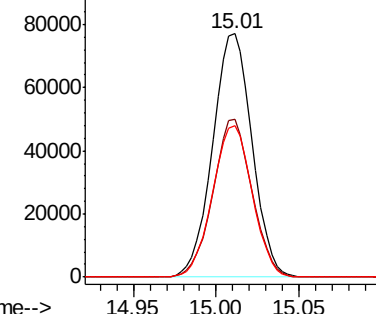


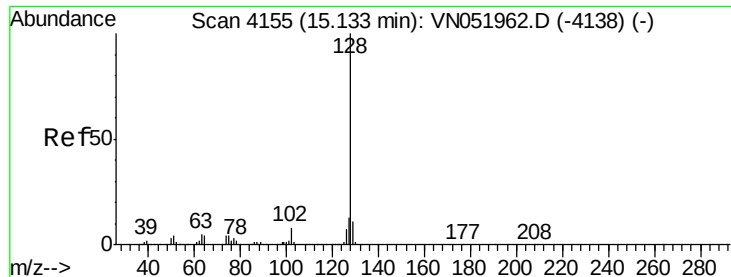
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





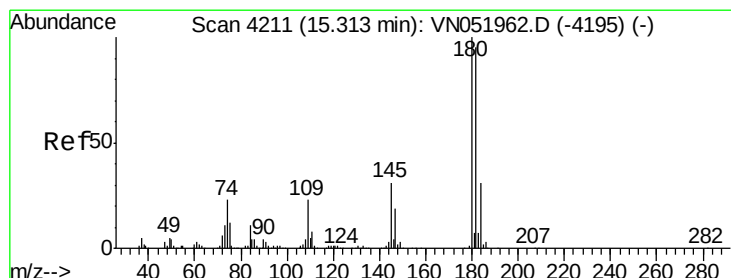
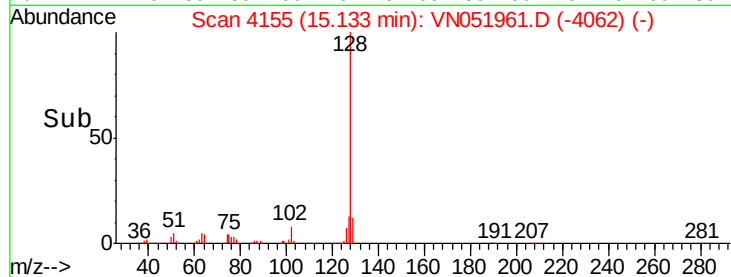
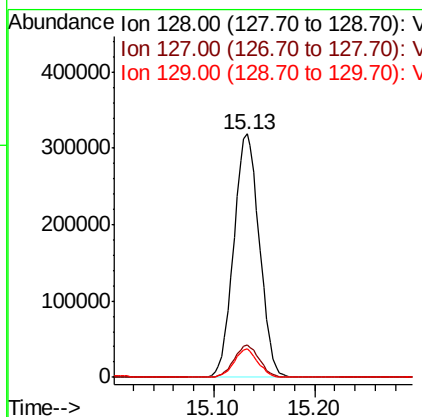
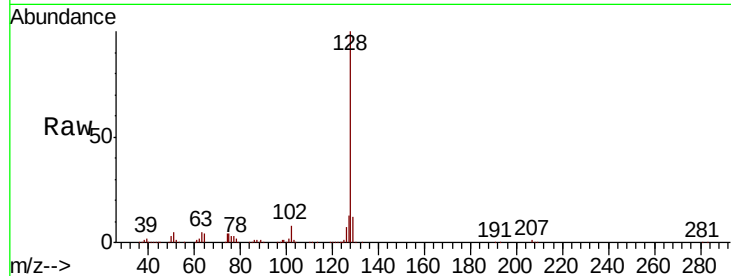
#95
Naphthalene
Concen: 20.131 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
10/24/2018 10:09:15 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.218 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN051961.D
Acq: 23 Oct 2018 13:34

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.9	143.6
145	30.5	15.4	46.2

