

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061618\
 Data File : VN049261.D
 Acq On : 15 Jun 2018 14:27
 Operator : MD\SY
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 6/18/2018 3:16:09 PM

Quant Time: Jun 16 01:00:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 15 15:46:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1484644	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2291128	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2048725	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	823950	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	110196	4.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.20%	
35) Dibromofluoromethane	7.59	113	99357	5.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.48%	
50) Toluene-d8	10.09	98	351839	4.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.54%	
62) 4-Bromofluorobenzene	12.40	95	105806	4.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	8.64%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	100261	4.69	ug/l	99
3) Chloromethane	2.06	50	132137	6.05	ug/l	100
4) Vinyl Chloride	2.18	62	137308	6.13	ug/l	99
5) Bromomethane	2.56	94	66359	4.91	ug/l	100
6) Chloroethane	2.70	64	82578	5.46	ug/l	97
7) Trichlorofluoromethane	3.01	101	170061	5.39	ug/l	96
8) Diethyl Ether	3.41	74	58055	4.96	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.75	101	109112	5.34	ug/l	93
10) Methyl Iodide	3.95	142	81408	4.10	ug/l	92
11) Tert butyl alcohol	4.80	59	35967	27.52	ug/l #	94
12) 1,1-Dichloroethene	3.73	96	96529	5.21	ug/l	84
13) Acrolein	3.61	56	46982	26.41	ug/l	99
14) Allyl chloride	4.32	41	148570	4.27	ug/l	87
15) Acrylonitrile	4.99	53	161886	23.02	ug/l	98
16) Acetone	3.82	43	138605	24.20	ug/l	90
17) Carbon Disulfide	4.05	76	304152	4.81	ug/l	99
18) Methyl Acetate	4.33	43	79343	3.29	ug/l	92
19) Methyl tert-butyl Ether	5.05	73	230539	4.56	ug/l	100
20) Methylene Chloride	4.55	84	115923	4.98	ug/l	90
21) trans-1,2-Dichloroethene	5.04	96	101477	4.94	ug/l	91
22) Diisopropyl ether	5.96	45	291750	4.20	ug/l	97
23) Vinyl Acetate	5.90	43	905520	19.71	ug/l	97
24) 1,1-Dichloroethane	5.85	63	200594	4.84	ug/l	98
25) 2-Butanone	6.84	43	177248	21.61	ug/l	97
26) 2,2-Dichloropropane	6.82	77	161036	5.18	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	111323	4.97	ug/l	93
28) Bromochloromethane	7.20	49	80816	4.11	ug/l	85
29) Tetrahydrofuran	7.22	42	111496	21.13	ug/l	98
30) Chloroform	7.37	83	195905	4.92	ug/l	98
31) Cyclohexane	7.65	56	176061	4.25	ug/l #	74
32) 1,1,1-Trichloroethane	7.57	97	167525	4.89	ug/l	97
36) 1,1-Dichloropropene	7.79	75	138779	4.85	ug/l	96
37) Ethyl Acetate	6.94	43	76209	4.22	ug/l #	96
38) Carbon Tetrachloride	7.77	117	150162	5.21	ug/l	96

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Manual Integrations
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Quant Time: Jun 16 01:00:10 2018
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 Quant Title : SW846 8260
 QLast Update : Fri Jun 15 15:46:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	143111	4.84	ug/l	98
40) Benzene	8.04	78	442071	5.10	ug/l	100
41) Methacrylonitrile	7.18	41	33503	3.28	ug/l #	100
42) 1,2-Dichloroethane	8.13	62	137991	4.82	ug/l	96
43) Isopropyl Acetate	8.17	43	148586	4.47	ug/l	97
44) Trichloroethene	8.84	130	119180	5.50	ug/l	91
45) 1,2-Dichloropropane	9.12	63	116959	4.90	ug/l	96
46) Dibromomethane	9.21	93	67300	5.11	ug/l	92
47) Bromodichloromethane	9.40	83	145750	4.91	ug/l #	97
48) Methyl methacrylate	9.20	41	65288	4.02	ug/l	88
49) 1,4-Dioxane	9.21	88	18136	94.60	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	361881	20.45	ug/l	97
52) Toluene	10.16	92	251074	4.98	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	128916	4.57	ug/l	96
54) cis-1,3-Dichloropropene	9.84	75	155593	4.76	ug/l #	89
55) 1,1,2-Trichloroethane	10.56	97	96613	5.22	ug/l	97
56) Ethyl methacrylate	10.43	69	94920	4.25	ug/l #	87
57) 1,3-Dichloropropane	10.71	76	160485	5.05	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	141756	19.60	ug/l	96
59) 2-Hexanone	10.75	43	232929	21.13	ug/l	96
60) Dibromochloromethane	10.90	129	104109	5.07	ug/l	99
61) 1,2-Dibromoethane	11.01	107	86788	5.07	ug/l	99
64) Tetrachloroethene	10.63	164	120917	5.89	ug/l	99
65) Chlorobenzene	11.44	112	292580	5.54	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	107808	5.36	ug/l	99
67) Ethyl Benzene	11.51	91	448146	4.92	ug/l	97
68) m/p-Xylenes	11.63	106	333913	10.01	ug/l	97
69) o-Xylene	11.95	106	164678	5.13	ug/l	91
70) Styrene	11.97	104	237832	4.68	ug/l	98
71) Bromoform	12.13	173	68039	5.42	ug/l #	100
73) Isopropylbenzene	12.25	105	416517	5.26	ug/l	99
74) N-amyl acetate	12.07	43	90298	4.01	ug/l #	90
75) 1,1,2,2-Tetrachloroethane	12.51	83	112581	5.57	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	80297m	4.99	ug/l	
77) Bromobenzene	12.53	156	111453	5.74	ug/l	90
78) n-propylbenzene	12.59	91	439477	5.00	ug/l	99
79) 2-Chlorotoluene	12.68	91	292791	5.28	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	321778	5.30	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	23767	4.82	ug/l	97
82) 4-Chlorotoluene	12.78	91	272973	5.19	ug/l	97
83) tert-Butylbenzene	12.99	119	286471	5.48	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	309999	5.14	ug/l	96
85) sec-Butylbenzene	13.17	105	368871	5.29	ug/l	98
86) p-Isopropyltoluene	13.29	119	288418	5.11	ug/l	98
87) 1,3-Dichlorobenzene	13.29	146	175820	5.68	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	167567	5.50	ug/l	96
89) n-Butylbenzene	13.62	91	201520	4.63	ug/l	98
90) Hexachloroethane	13.88	117	73226	5.50	ug/l	89
91) 1,2-Dichlorobenzene	13.66	146	171317	5.62	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	14069	5.11	ug/l	93

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ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

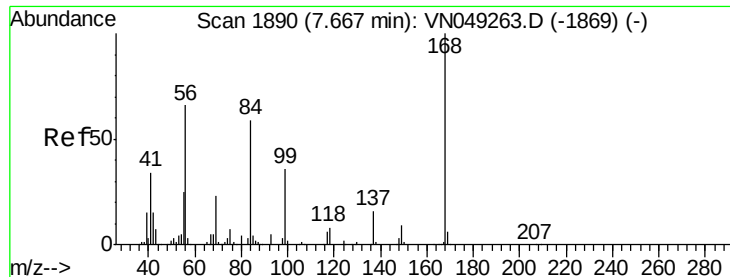
Manual Integrations
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Quant Title : SW846 8260
QLast Update : Fri Jun 15 15:46:14 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	43107	3.86	ug/l	97
94) Hexachlorobutadiene	15.01	225	65387	7.10	ug/l	99
95) Naphthalene	15.14	128	91491	3.76	ug/l	97
96) 1,2,3-Trichlorobenzene	15.32	180	52112	4.33	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 1484644

Ion Ratio Lower Upper

168 100

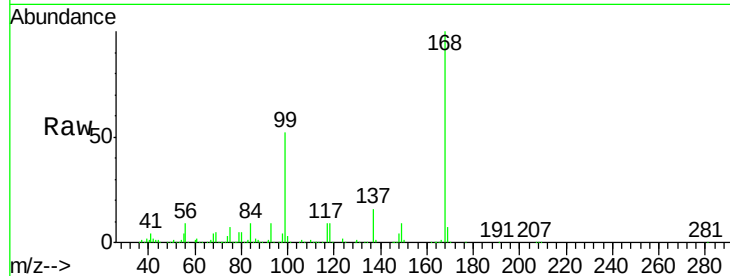
99 51.8 45.8 68.6

Manual Integrations

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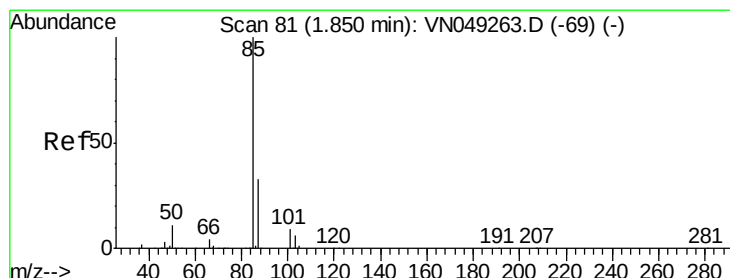
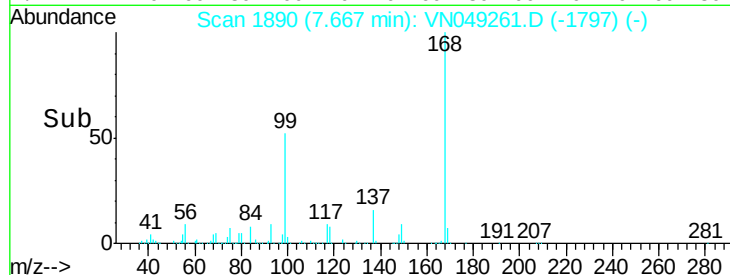
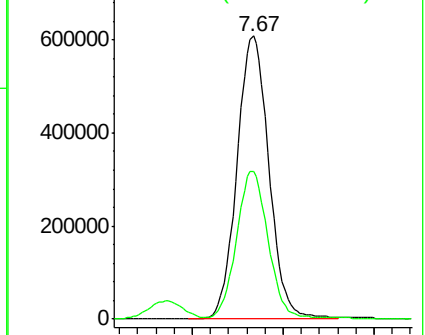
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 4.69 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN049261.D

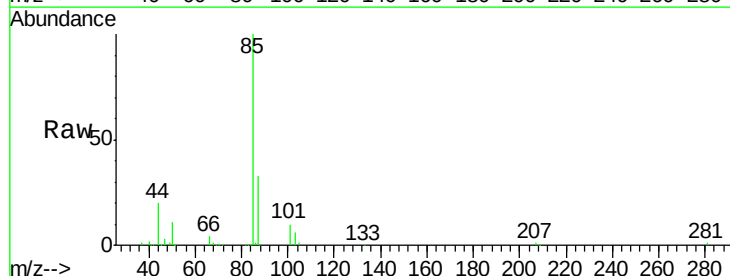
Acq: 15 Jun 2018 14:27

Tgt Ion: 85 Resp: 100261

Ion Ratio Lower Upper

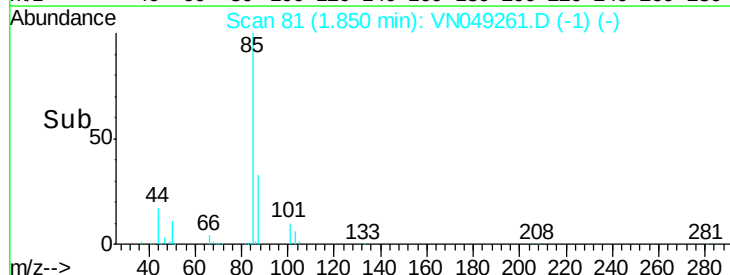
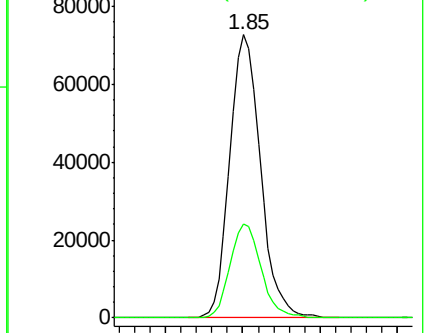
85 100

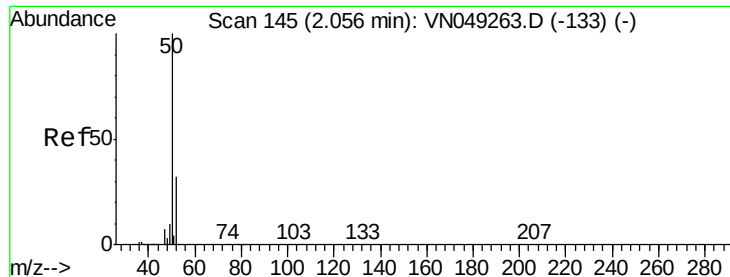
87 33.1 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: 6.05 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 132137

Ion Ratio Lower Upper

50 100

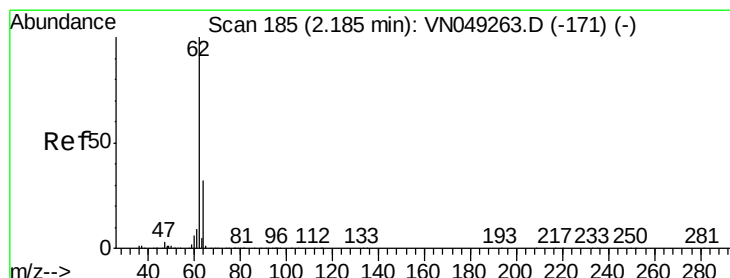
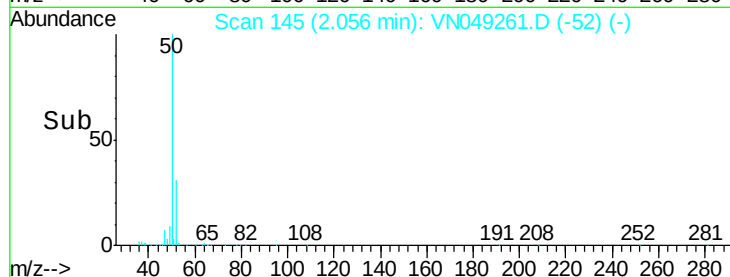
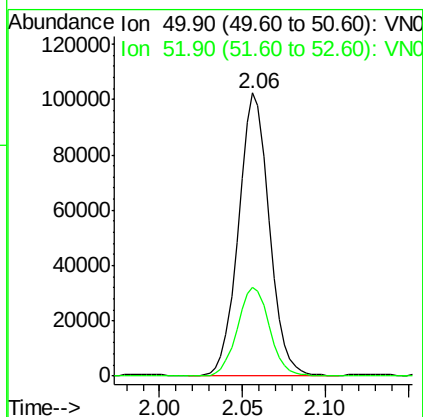
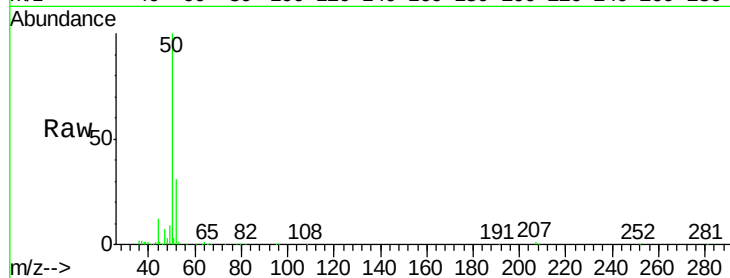
52 31.4 25.2 37.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 6.13 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN049261.D

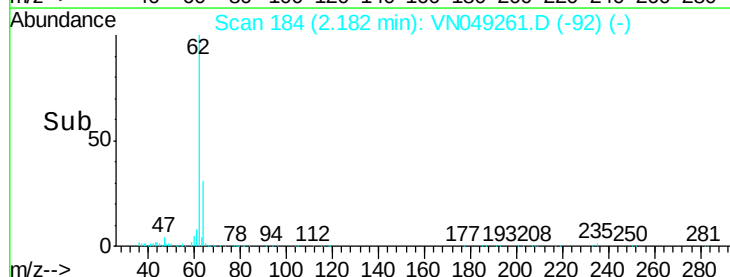
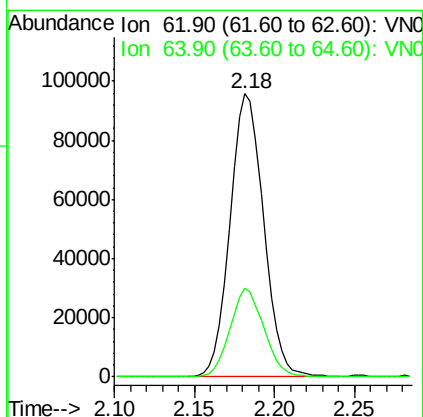
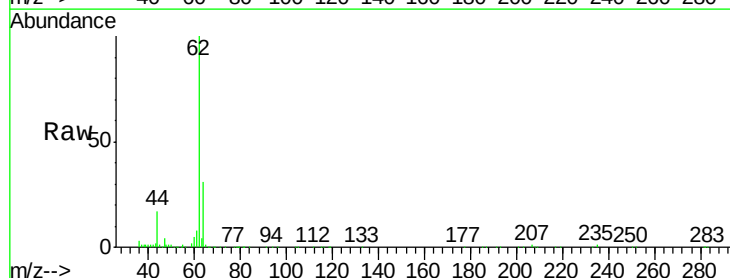
Acq: 15 Jun 2018 14:27

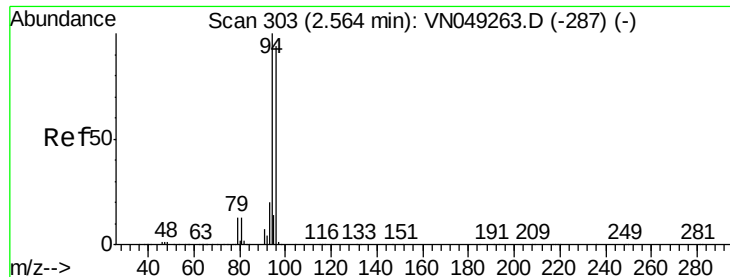
Tgt Ion: 62 Resp: 137308

Ion Ratio Lower Upper

62 100

64 31.3 25.7 38.5





#5

Bromomethane

Concen: 4.91 ug/l

RT: 2.56 min Scan# 301

Delta R.T. -0.01 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 66359

Ion Ratio Lower Upper

94 100

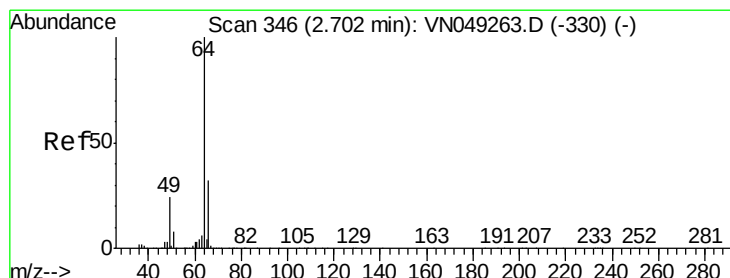
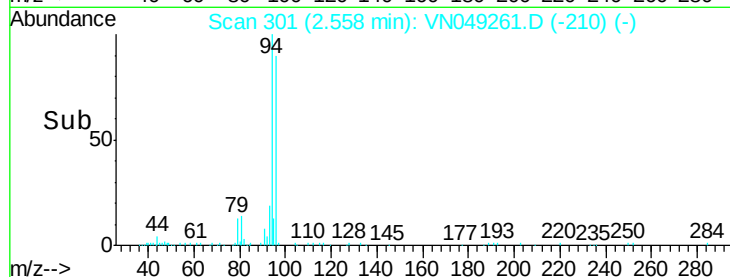
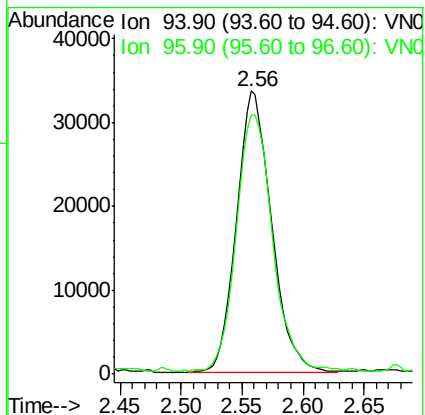
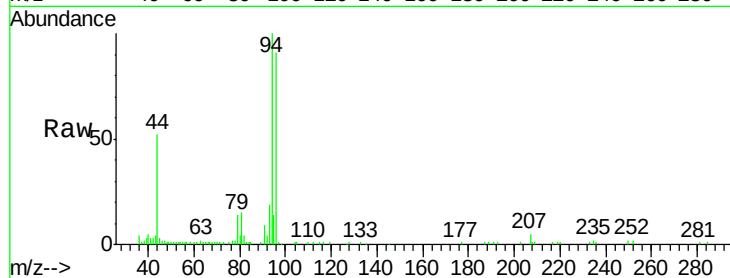
96 90.9 72.8 109.2

Manual Integrations

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#6

Chloroethane

Concen: 5.46 ug/l

RT: 2.70 min Scan# 345

Delta R.T. -0.00 min

Lab File: VN049261.D

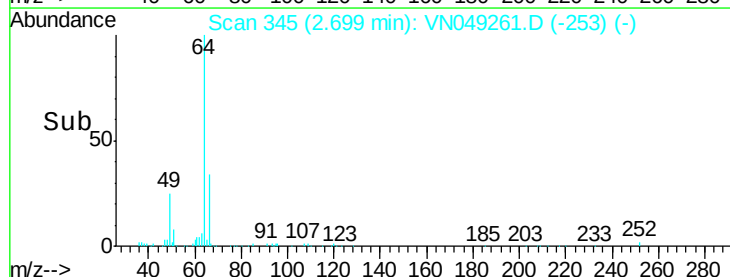
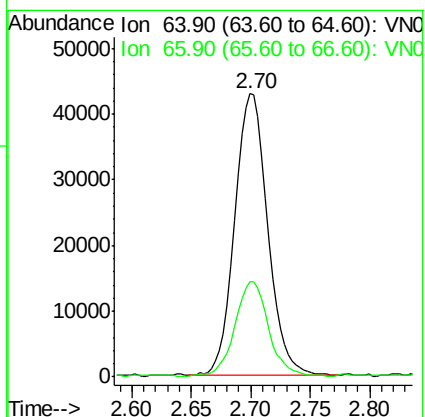
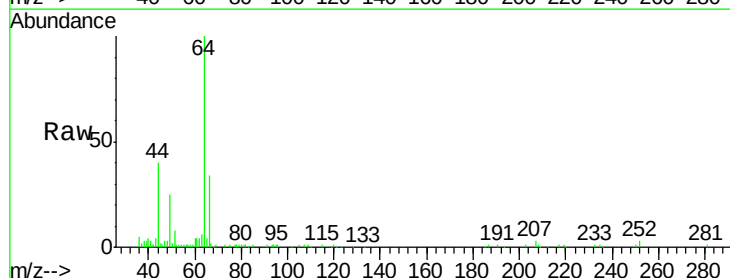
Acq: 15 Jun 2018 14:27

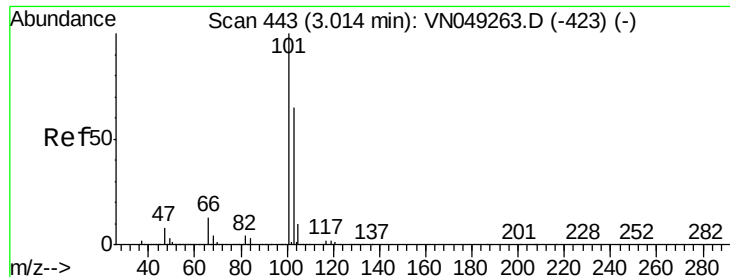
Tgt Ion: 64 Resp: 82578

Ion Ratio Lower Upper

64 100

66 33.9 25.6 38.4





#7

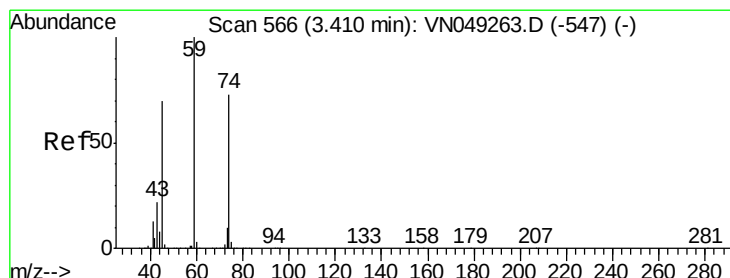
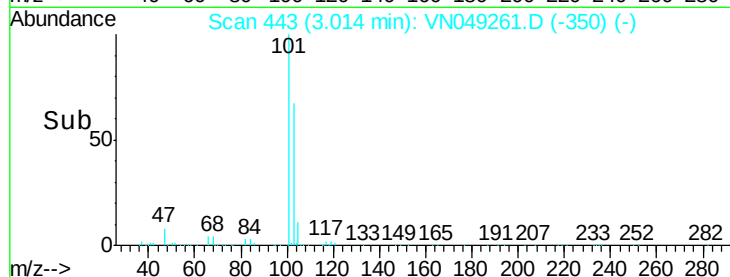
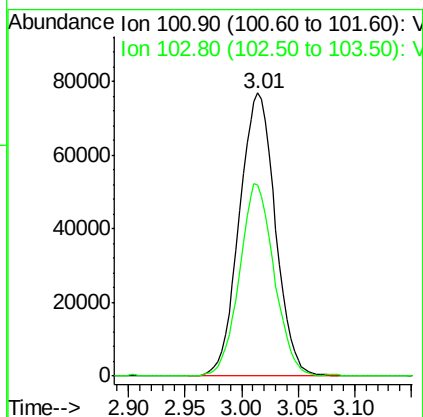
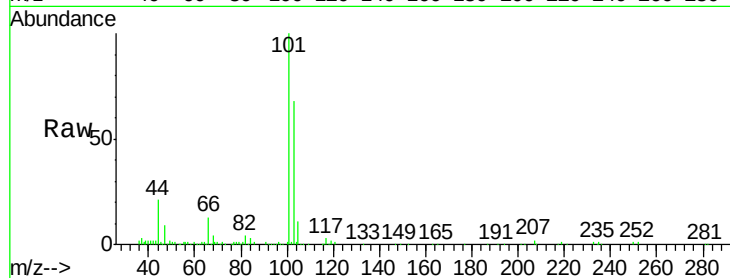
Trichlorofluoromethane
Concen: 5.39 ug/l
RT: 3.01 min Scan# 443
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.6	51.7	77.5

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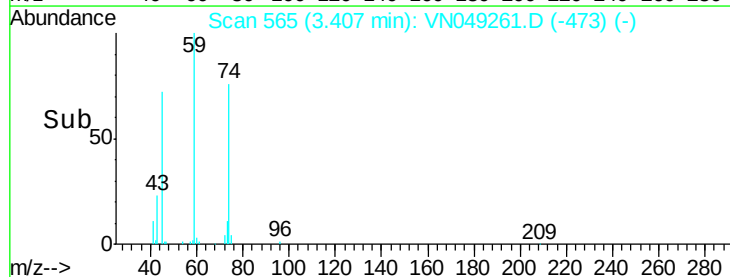
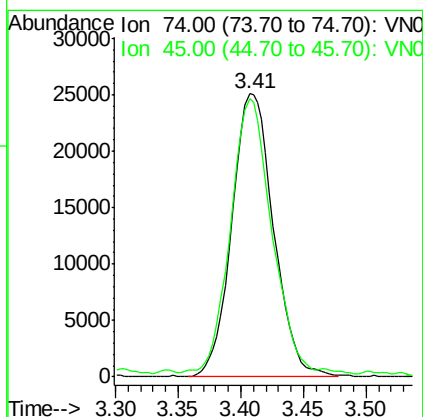
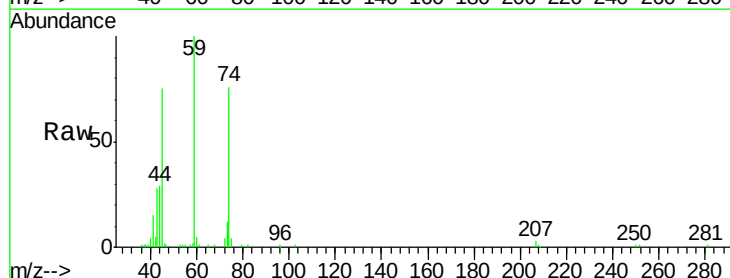
MMDadoda
6/18/2018 3:16:09 PM

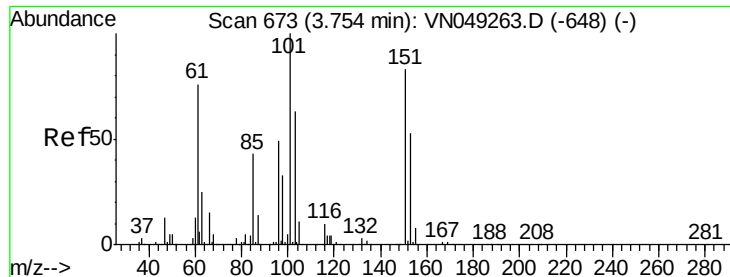


#8

Diethyl Ether
Concen: 4.96 ug/l
RT: 3.41 min Scan# 565
Delta R.T. -0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.4	51.9	155.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.34 ug/l

RT: 3.75 min Scan# 672

Delta R.T. -0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

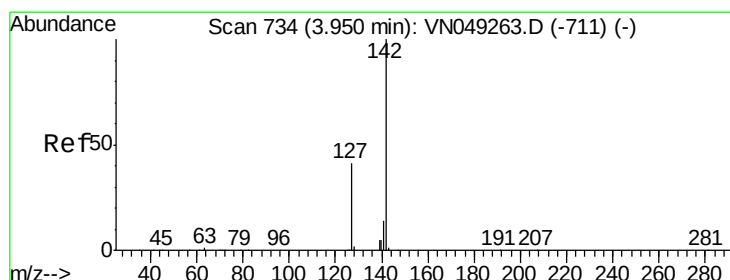
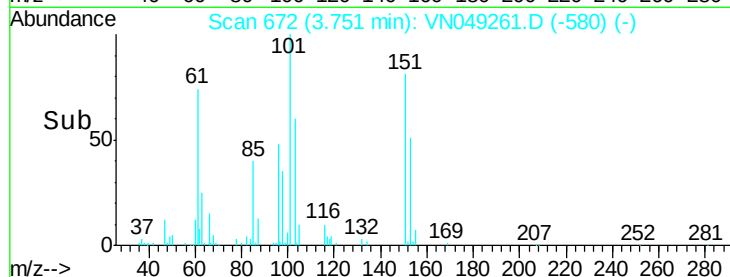
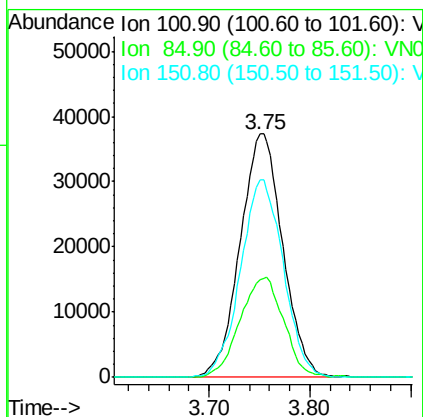
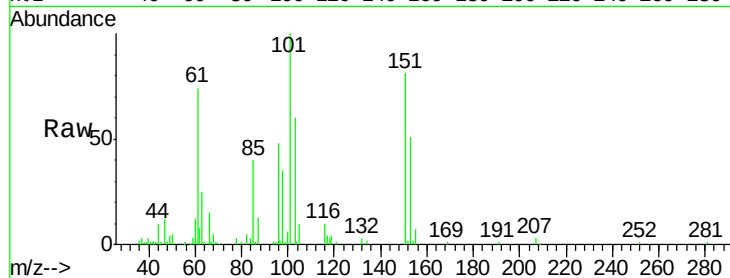
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	109112
Ion Ratio	Lower	Upper	
101	100		
85	42.1	37.6	56.4
151	81.7	61.1	91.7

Manual Integrations
APPROVED

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#10

Methyl Iodide

Concen: 4.10 ug/l

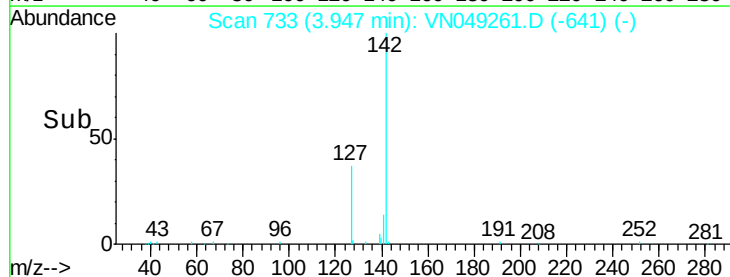
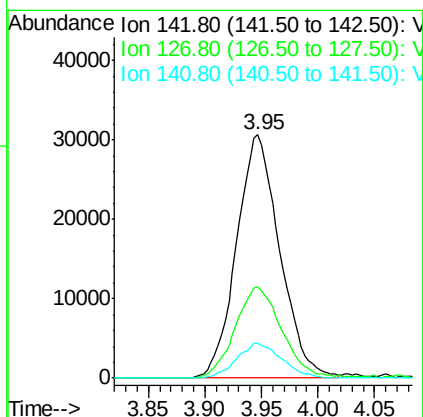
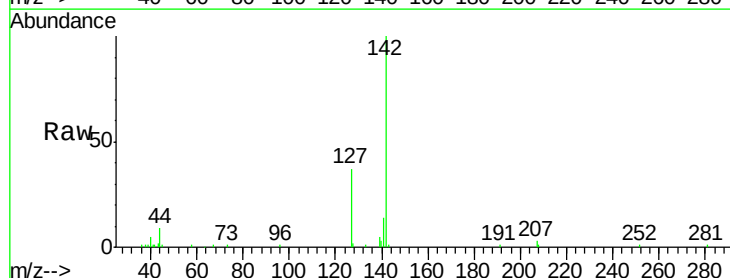
RT: 3.95 min Scan# 733

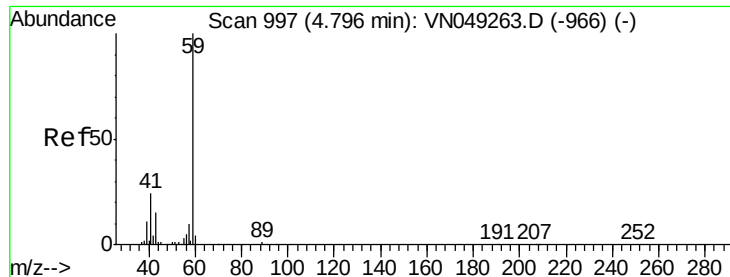
Delta R.T. -0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Tgt Ion:	142	Resp:	81408
Ion Ratio	Lower	Upper	
142	100		
127	40.4	38.2	57.4
141	14.9	11.9	17.9





#11

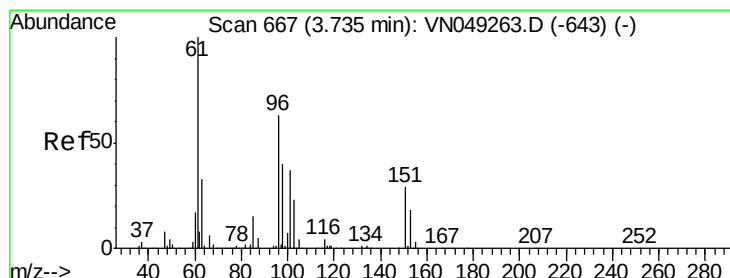
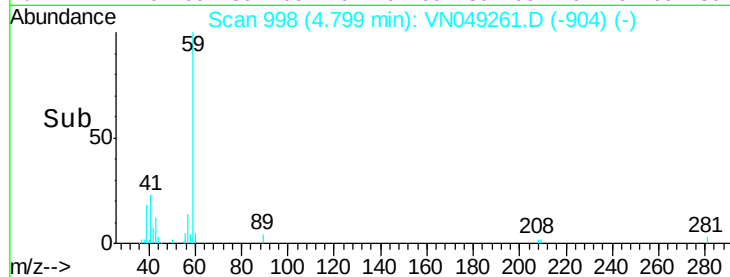
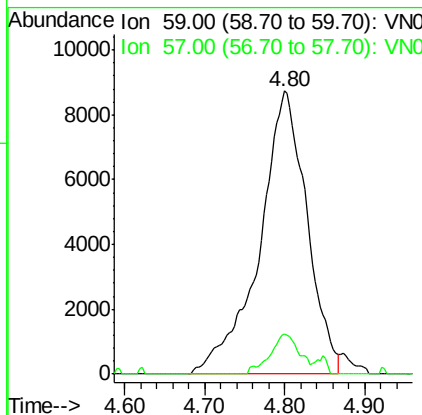
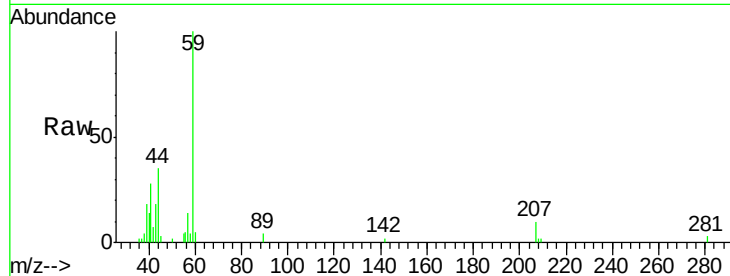
Tert butyl alcohol
 Concen: 27.52 ug/l
 RT: 4.80 min Scan# 998
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.8	9.0	13.6#

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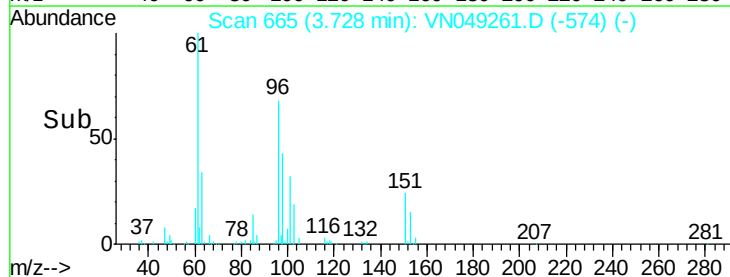
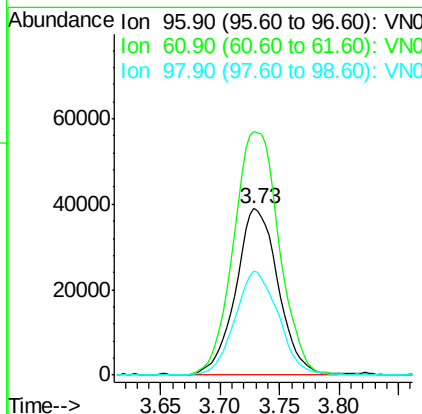
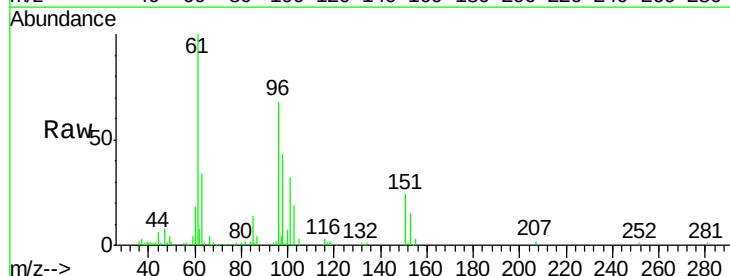
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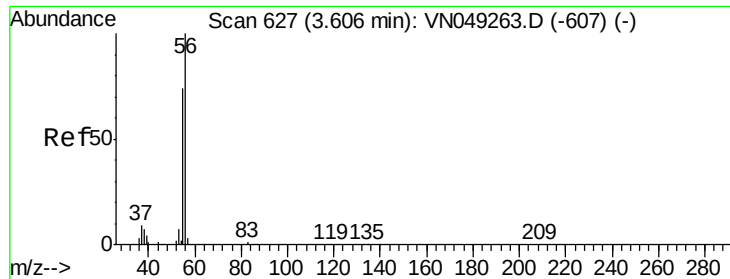


#12

1,1-Dichloroethene
 Concen: 5.21 ug/l
 RT: 3.73 min Scan# 665
 Delta R.T. -0.01 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
96	100		
61	145.4	141.0	211.4
98	62.1	50.4	75.6





#13

Acrolein

Concen: 26.41 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 46982

Ion Ratio Lower Upper

56 100

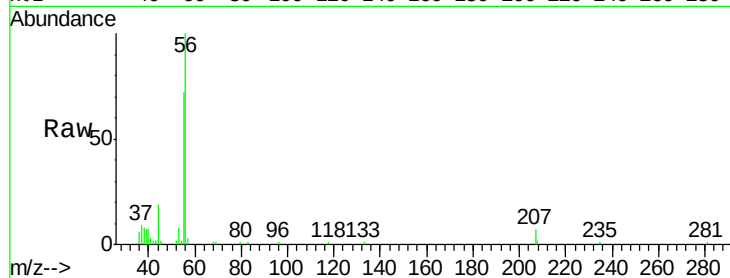
55 72.5 57.1 85.7

Manual Integrations

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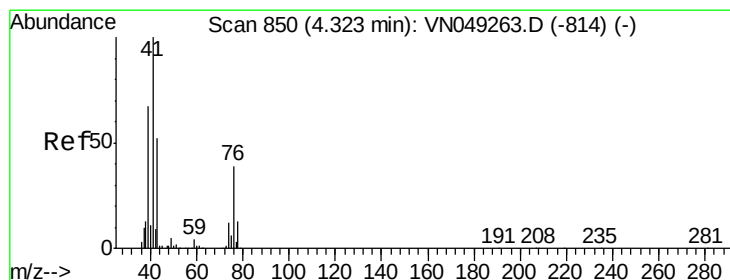
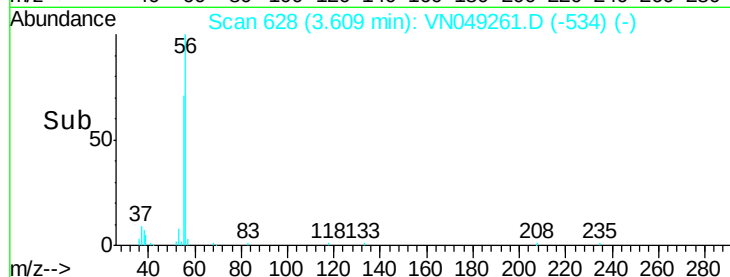
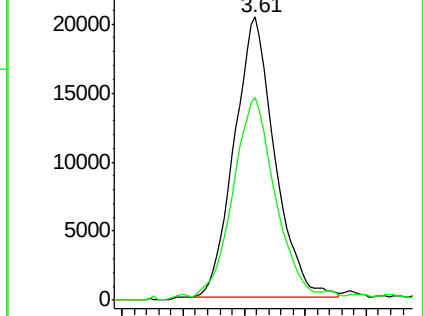
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 4.27 ug/l

RT: 4.32 min Scan# 849

Delta R.T. -0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

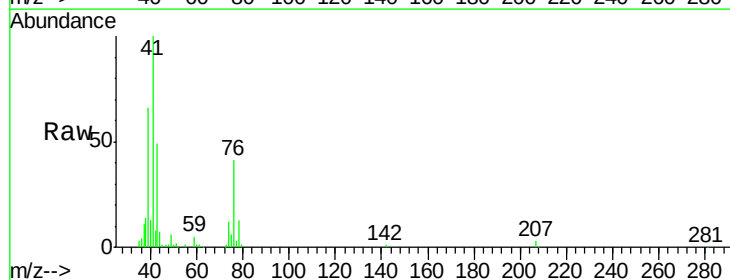
Tgt Ion: 41 Resp: 148570

Ion Ratio Lower Upper

41 100

39 64.4 62.5 93.7

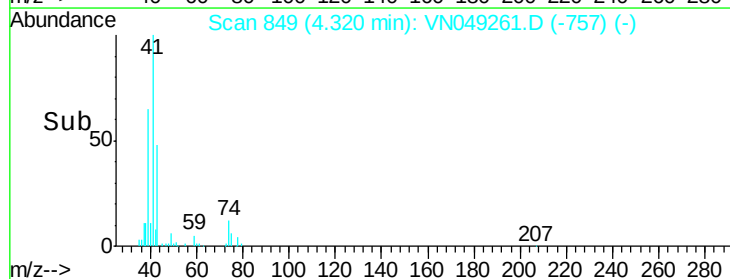
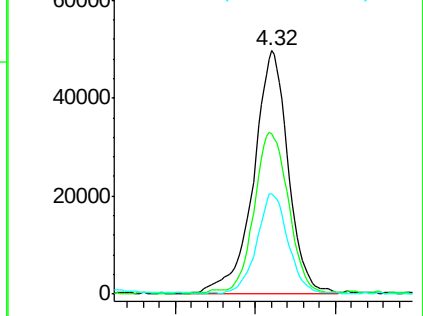
76 37.4 27.1 40.7

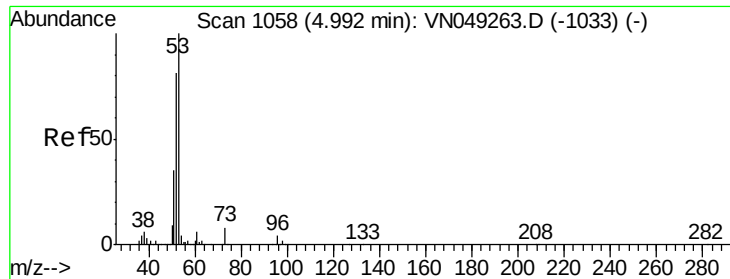


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





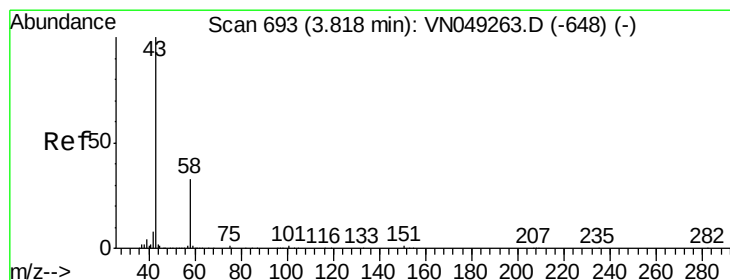
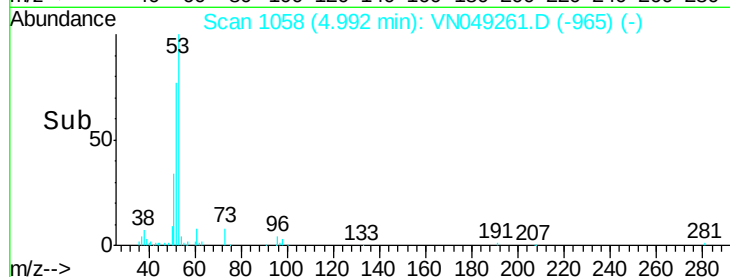
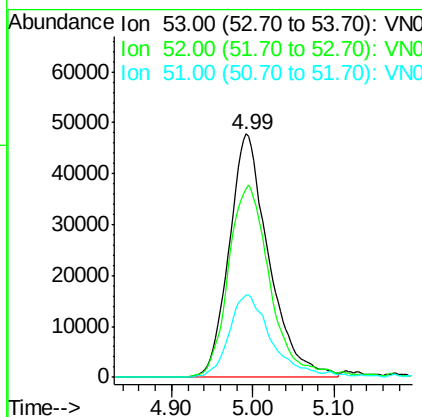
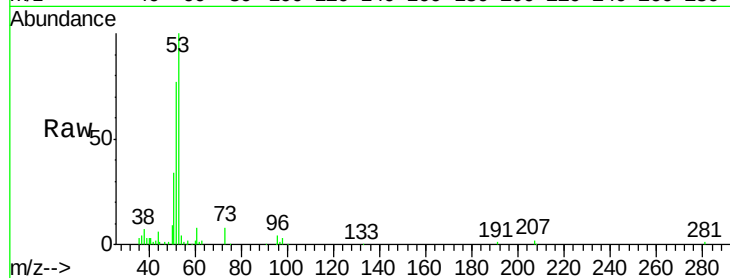
#15
 Acrylonitrile
 Concen: 23.02 ug/l
 RT: 4.99 min Scan# 1058
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.6	100.0
51	35.5	29.8	44.8

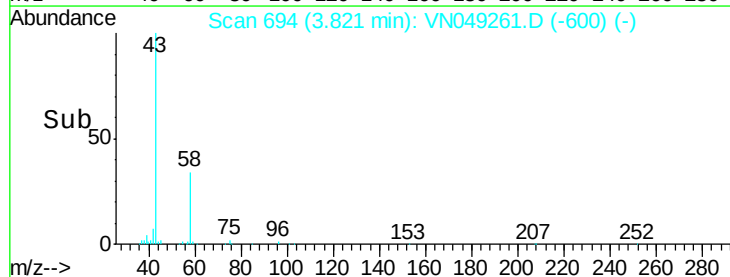
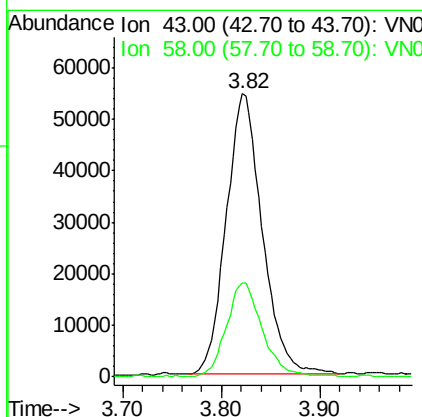
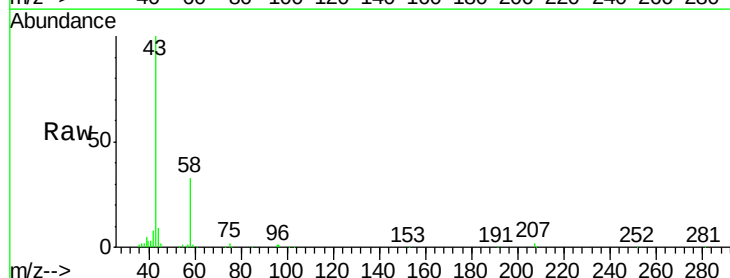
Manual Integrations
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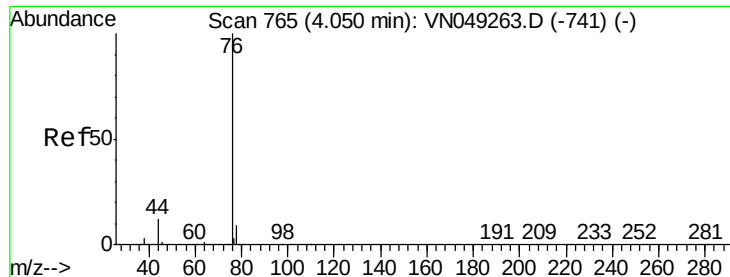
MMDadoda
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#16
 Acetone
 Concen: 24.20 ug/l
 RT: 3.82 min Scan# 694
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.4	22.4	33.6





#17

Carbon Disulfide

Concen: 4.81 ug/l

RT: 4.05 min Scan# 764

Delta R.T. -0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 304152

Ion Ratio Lower Upper

76 100

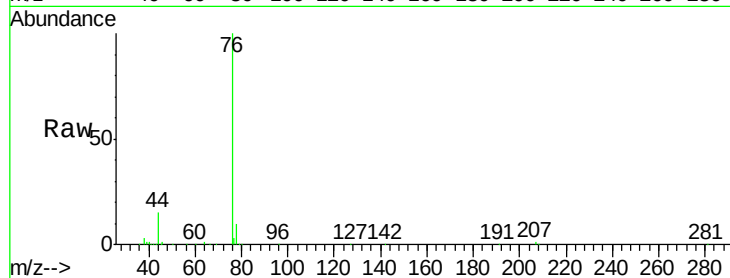
78 9.5 7.4 11.0

Manual Integrations

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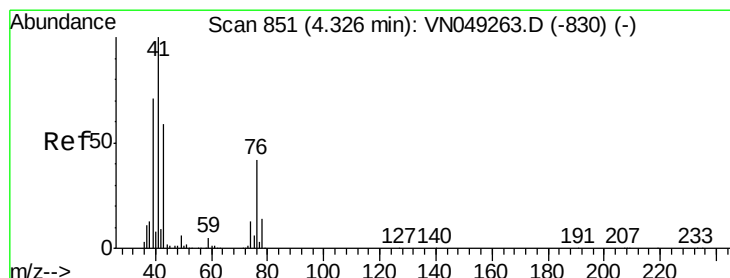
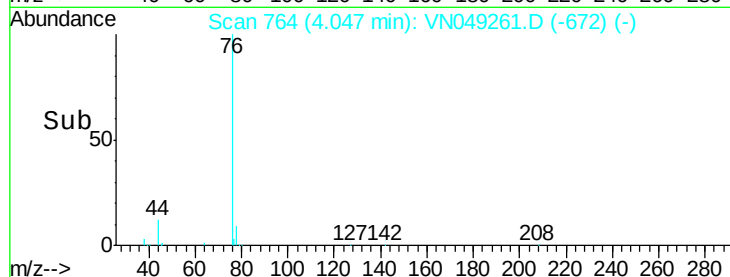
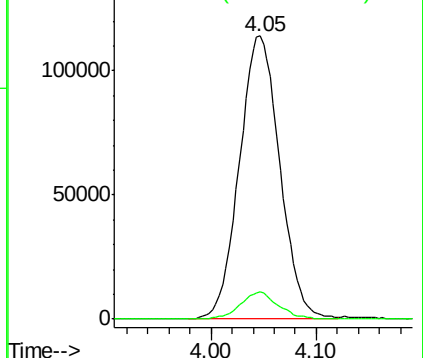
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 3.29 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN049261.D

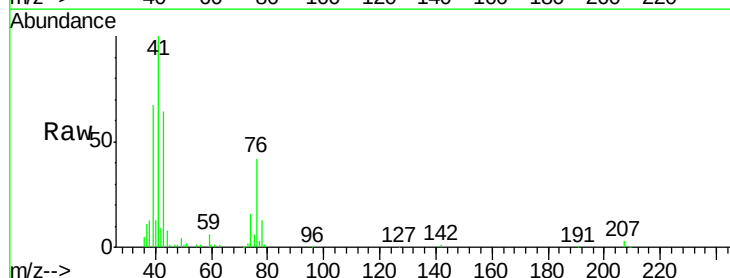
Acq: 15 Jun 2018 14:27

Tgt Ion: 43 Resp: 79343

Ion Ratio Lower Upper

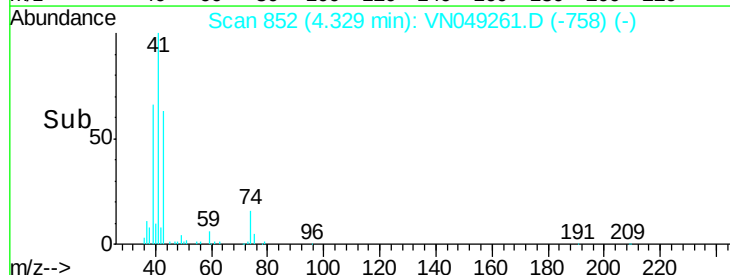
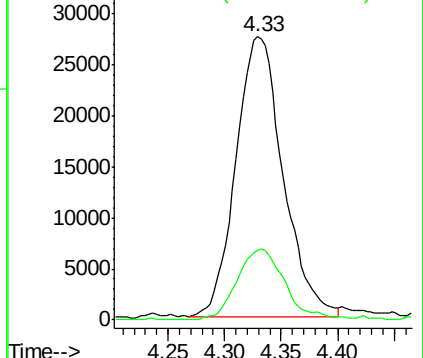
43 100

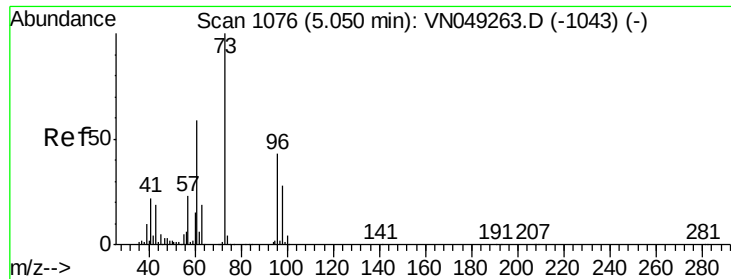
74 25.5 17.4 26.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





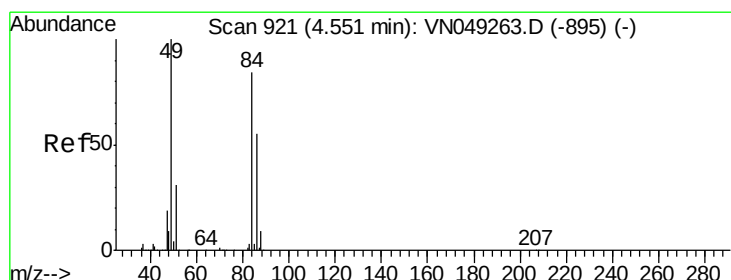
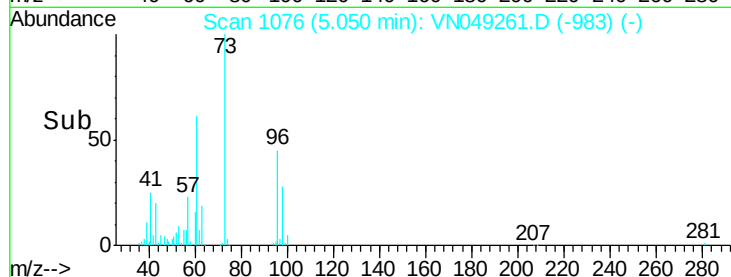
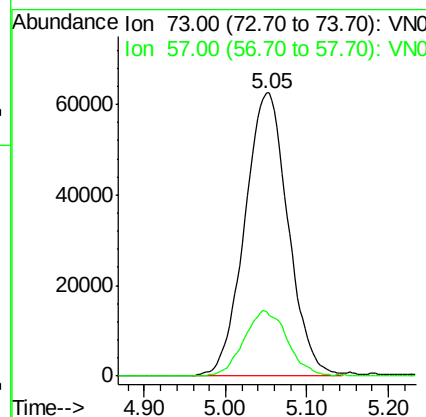
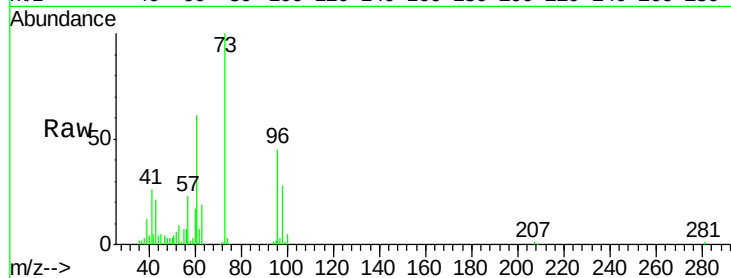
#19
Methvl tert-butvl Ether
Concen: 4.56 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.7	18.2	27.4

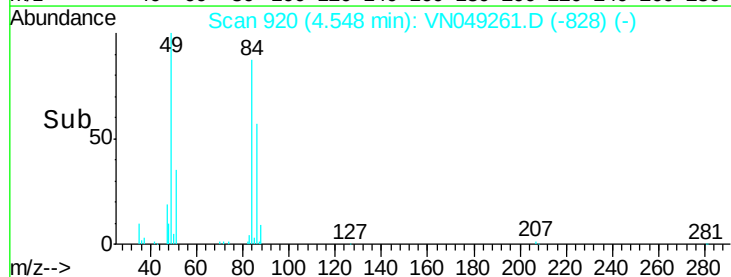
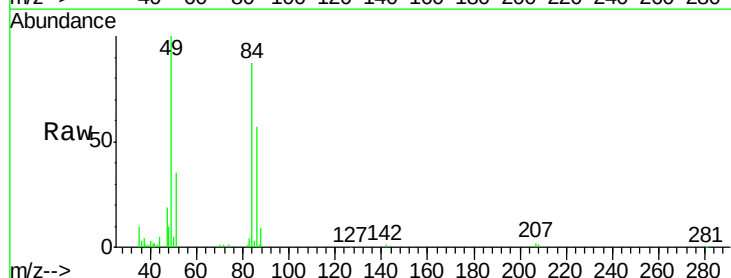
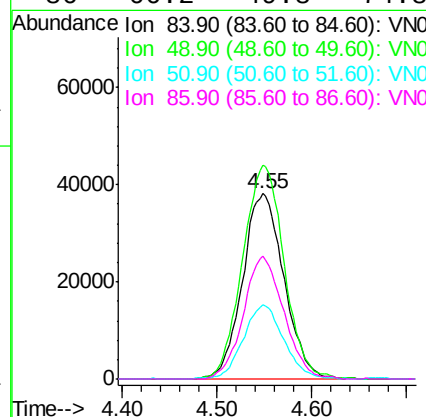
Manual Integrations
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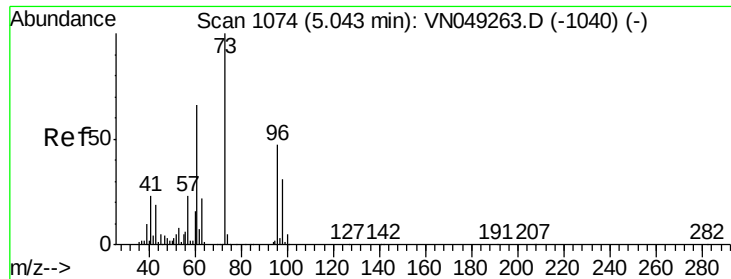
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#20
Methylene Chloride
Concen: 4.98 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
84	100		
49	115.4	106.9	160.3
51	39.9	32.7	49.1
86	66.2	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 4.94 ug/l

RT: 5.04 min Scan# 1072

Delta R.T. -0.01 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

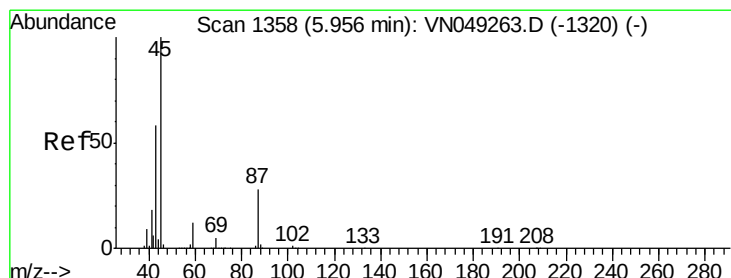
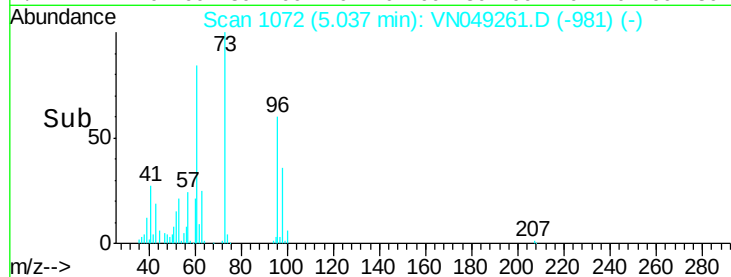
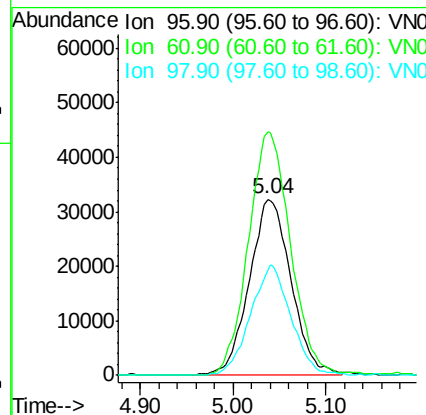
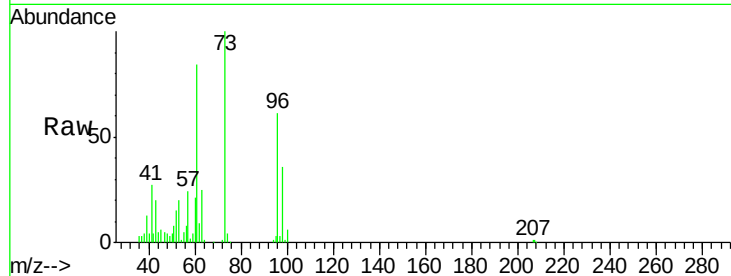
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	101477
Ion	Ratio	Lower	Upper
96	100		
61	138.4	121.3	181.9
98	59.7	52.0	78.0

Manual Integrations
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#22

Diisopropyl ether

Concen: 4.20 ug/l

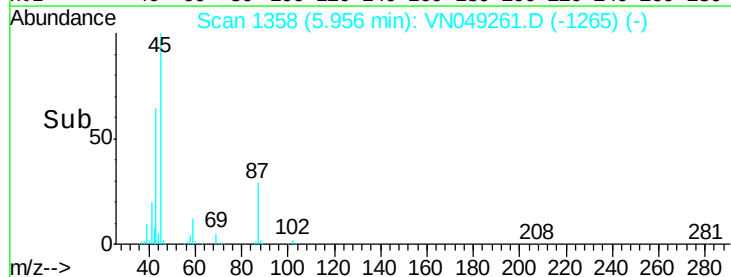
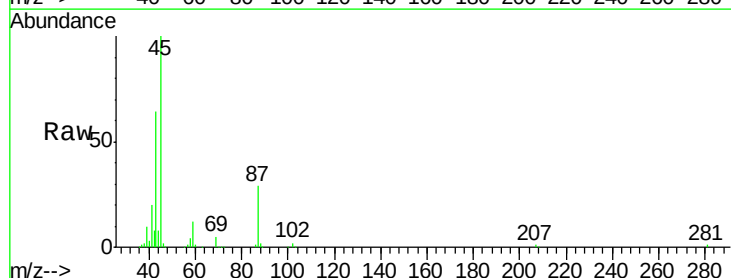
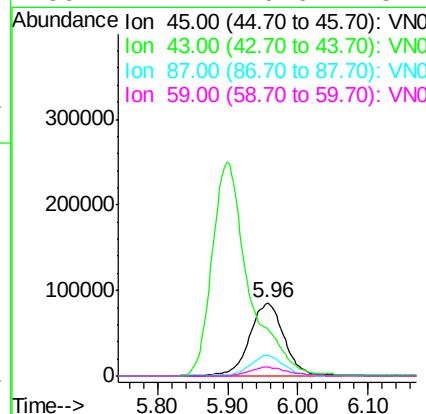
RT: 5.96 min Scan# 1358

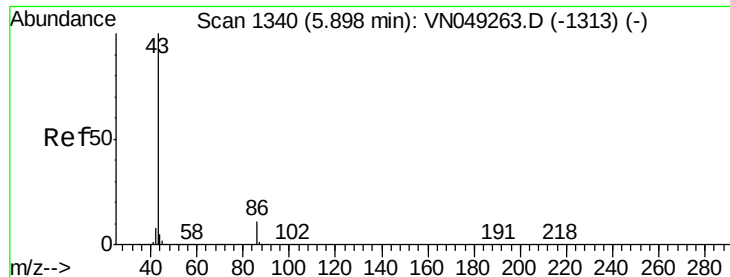
Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Tgt Ion:	45	Resp:	291750
Ion	Ratio	Lower	Upper
45	100		
43	62.4	48.6	72.8
87	28.6	20.2	30.2
59	12.2	9.0	13.4





#23

Vinyl Acetate

Concen: 19.71 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 905520

Ion Ratio Lower Upper

43 100

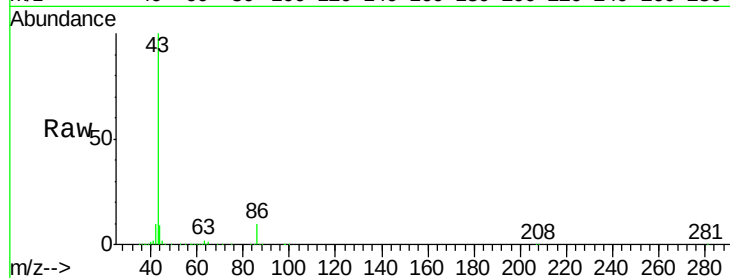
86 10.3 7.2 10.8

Manual Integrations

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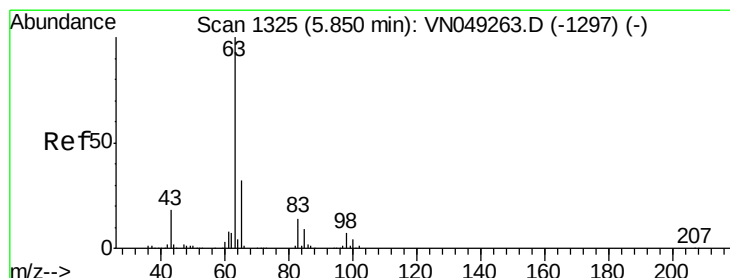
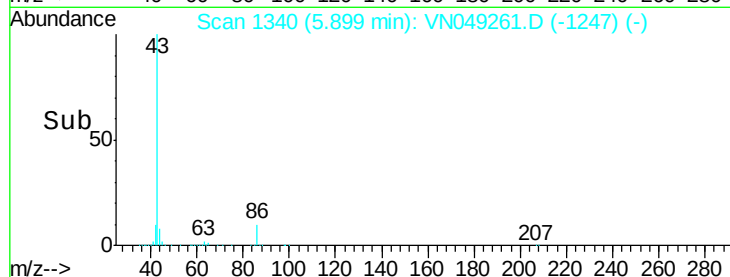
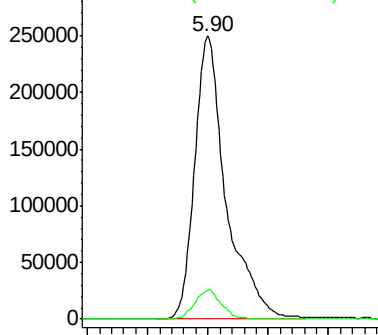
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 4.84 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

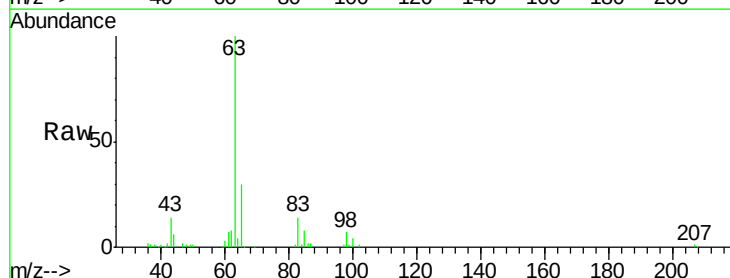
Tgt Ion: 63 Resp: 200594

Ion Ratio Lower Upper

63 100

98 6.8 2.9 8.8

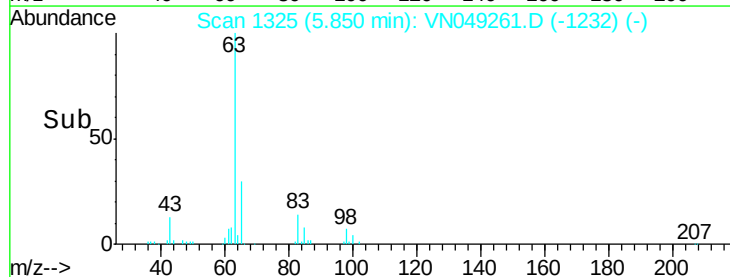
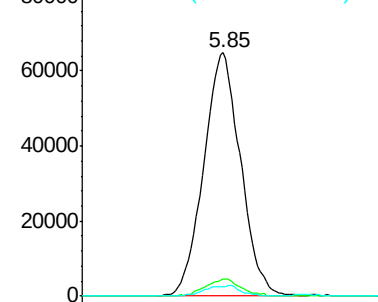
100 3.7 2.1 6.3

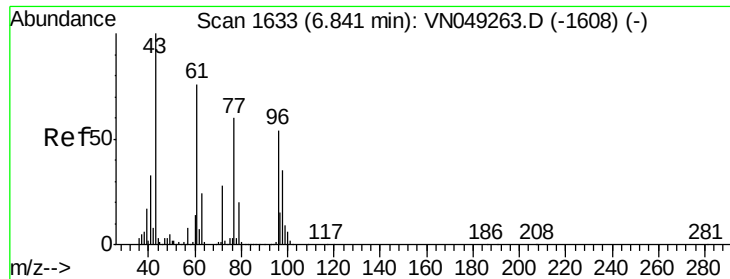


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 21.61 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 177248

Ion Ratio Lower Upper

43 100

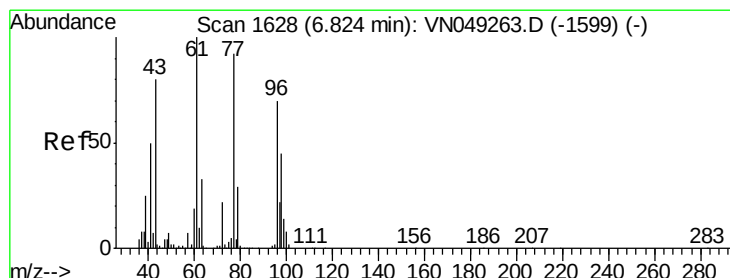
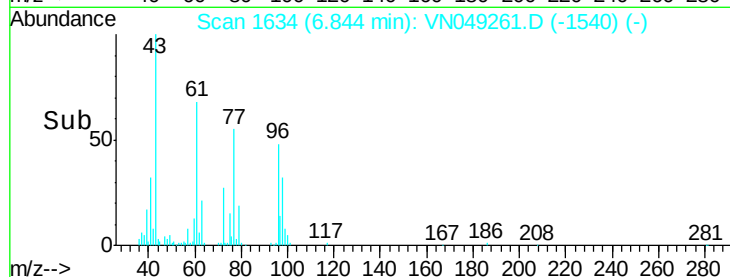
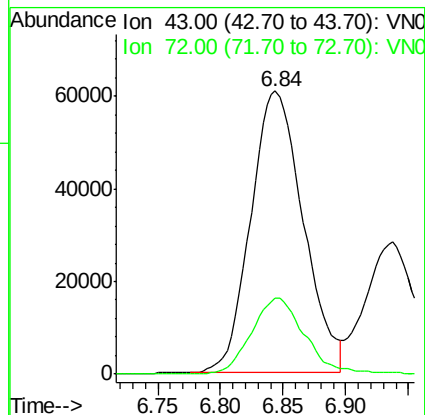
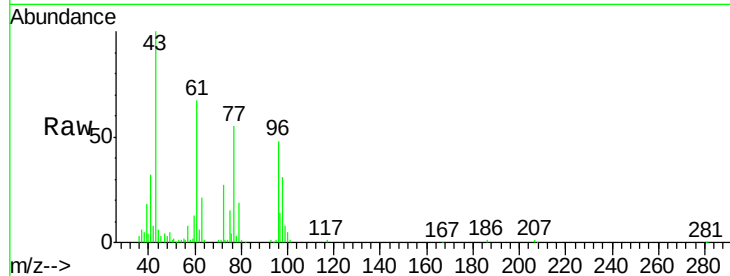
72 26.9 20.2 30.2

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 5.18 ug/l

RT: 6.82 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VN049261.D

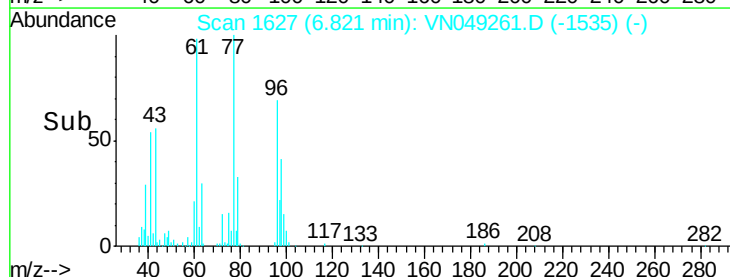
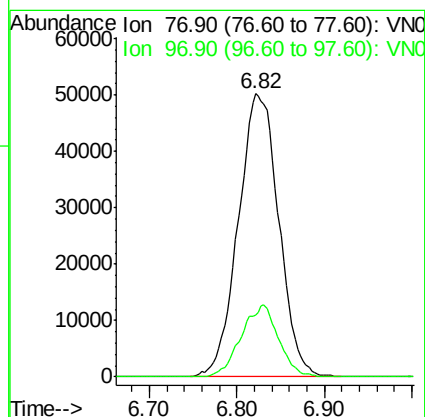
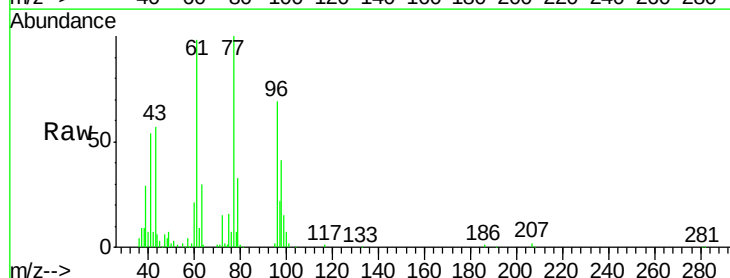
Acq: 15 Jun 2018 14:27

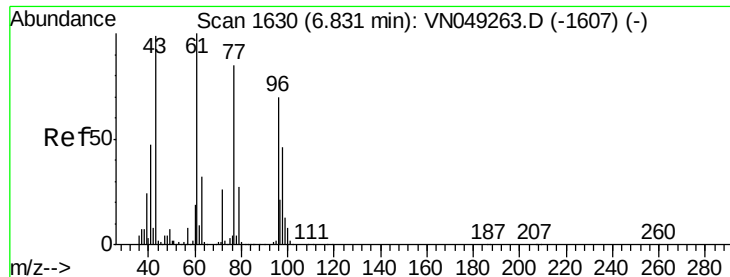
Tgt Ion: 77 Resp: 161036

Ion Ratio Lower Upper

77 100

97 23.5 11.0 33.0





#27

cis-1,2-Dichloroethene

Concen: 4.97 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

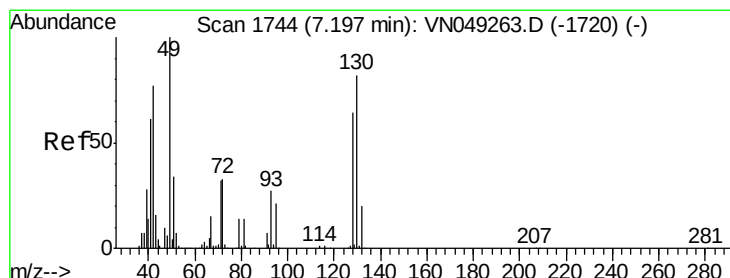
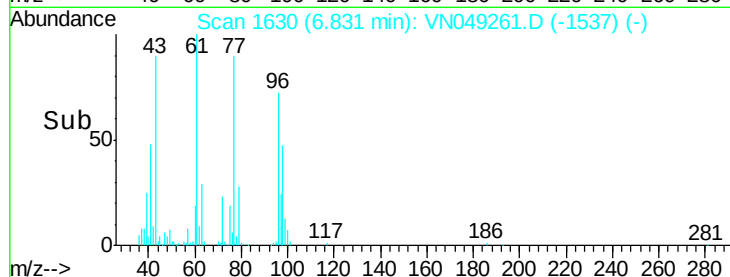
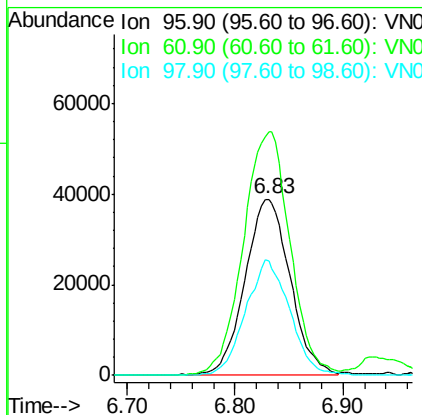
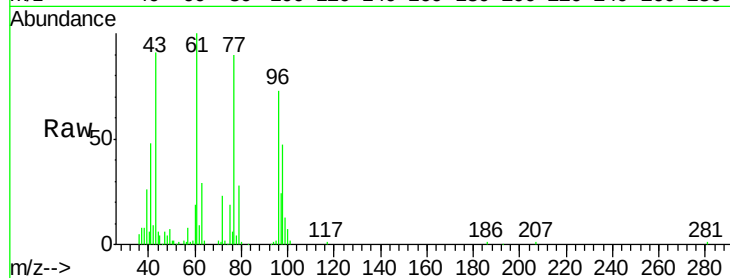
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	111323
Ion Ratio	Lower	Upper	
96	100		
61	145.5	0.0	316.4
98	64.9	0.0	128.4

Manual Integrations
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#28

Bromochloromethane

Concen: 4.11 ug/l

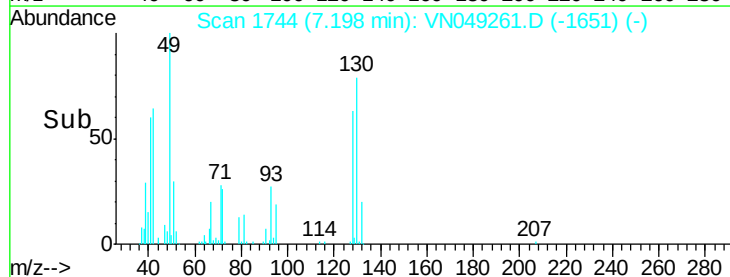
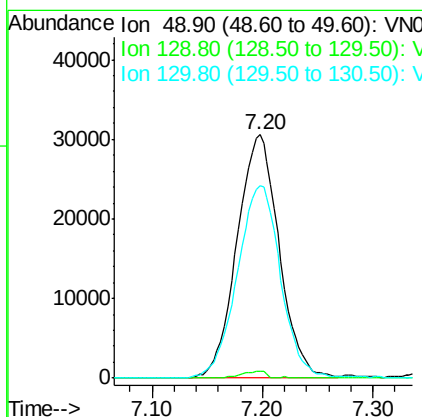
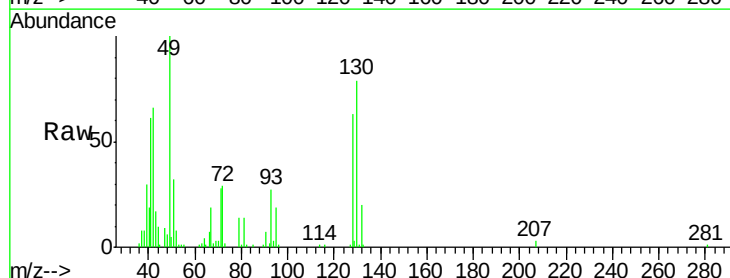
RT: 7.20 min Scan# 1744

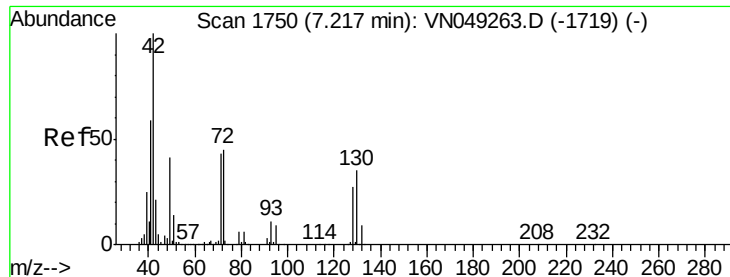
Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Tgt Ion:	49	Resp:	80816
Ion Ratio	Lower	Upper	
49	100		
129	1.6	0.0	3.8
130	80.9	54.9	82.3





#29

Tetrahydrofuran

Concen: 21.13 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

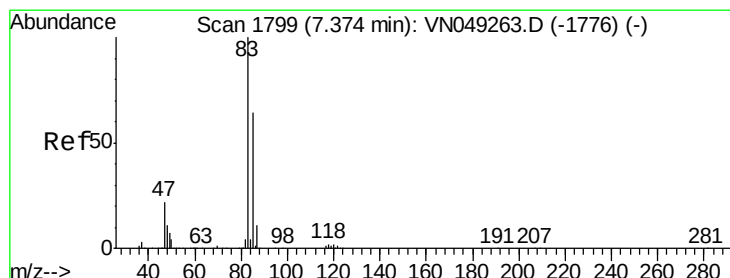
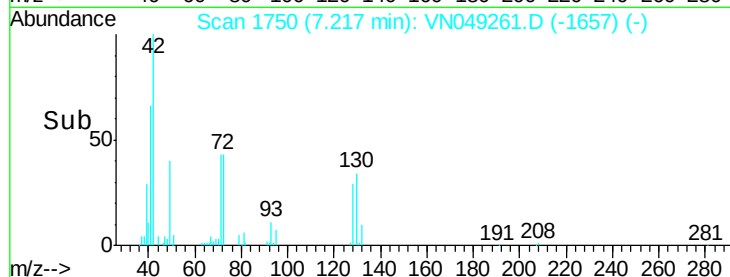
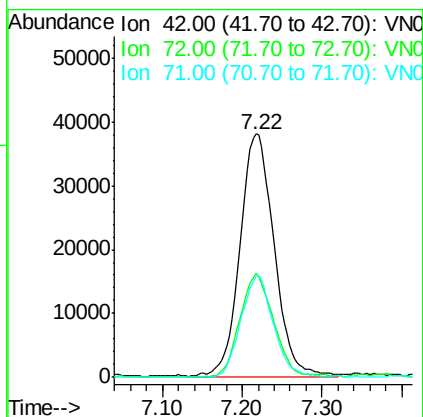
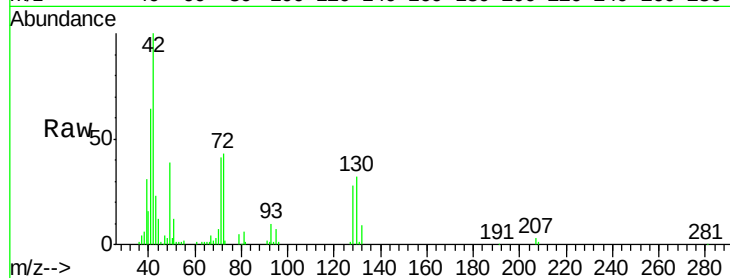
ClientSampleId :

VSTDIC005

Tot Ion:	42	Resp:	111496
Ion	Ratio	Lower	Upper
42	100		
72	41.1	32.2	48.4
71	39.3	30.5	45.7

Manual Integrations
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#30

Chloroform

Concen: 4.92 ug/l

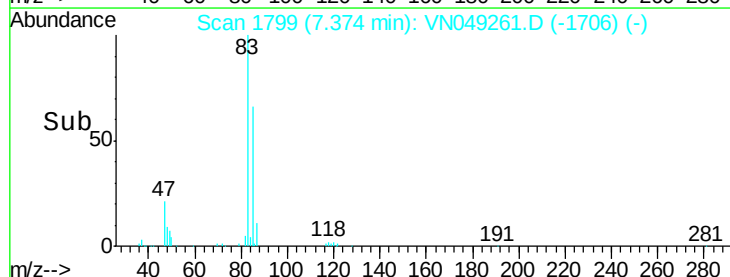
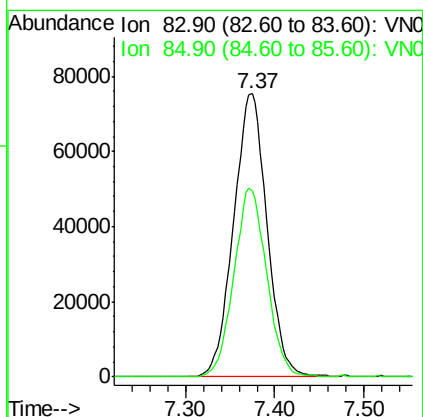
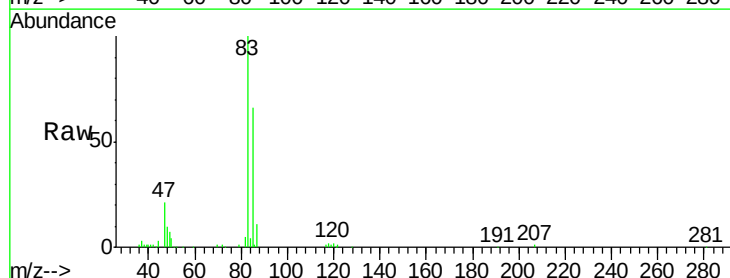
RT: 7.37 min Scan# 1799

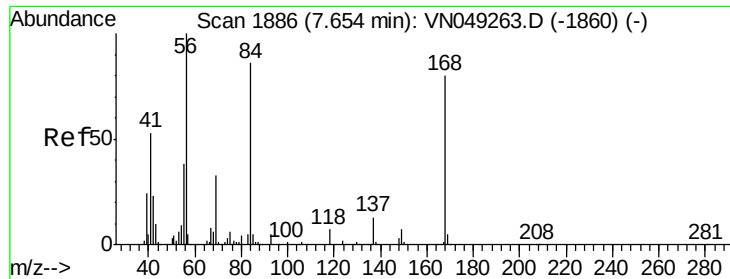
Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Tgt Ion:	83	Resp:	195905
Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.7	77.5





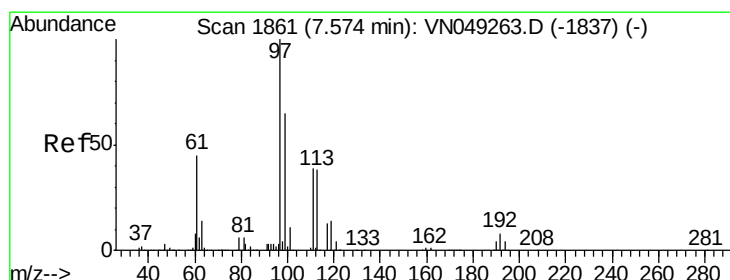
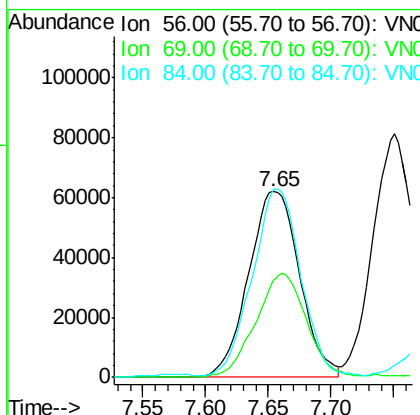
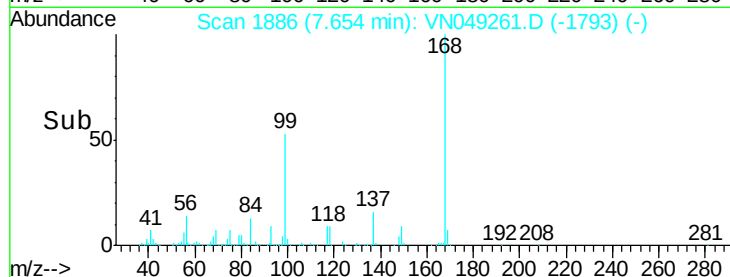
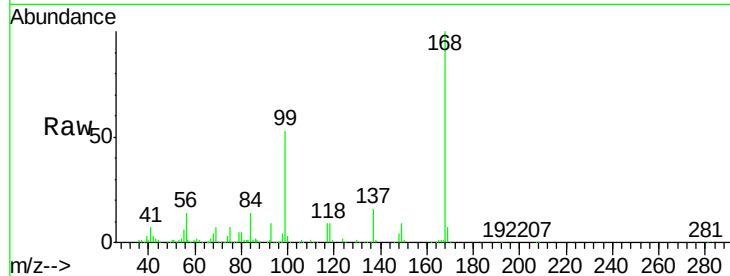
#31
Cyclohexane
Concen: 4.25 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	51.7	25.0	37.4#
84	99.7	64.6	96.8#

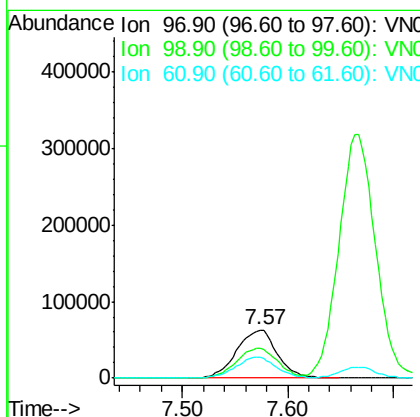
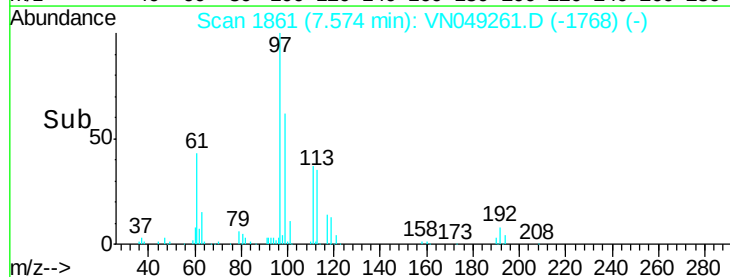
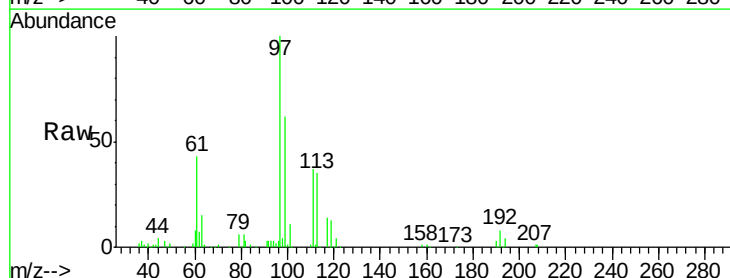
Manual Integrations
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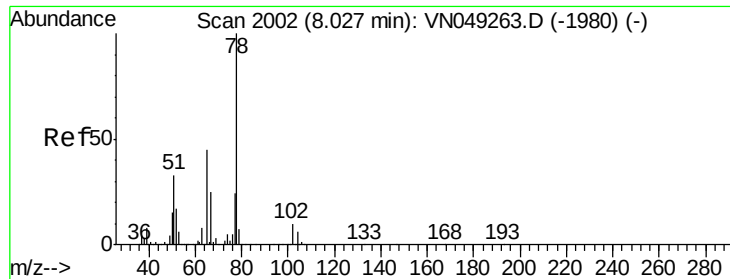
MMDadoda
6/18/2018 3:16:09 PM



#32
1,1,1-Trichloroethane
Concen: 4.89 ug/l
RT: 7.57 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.5	75.7
61	43.8	37.9	56.9





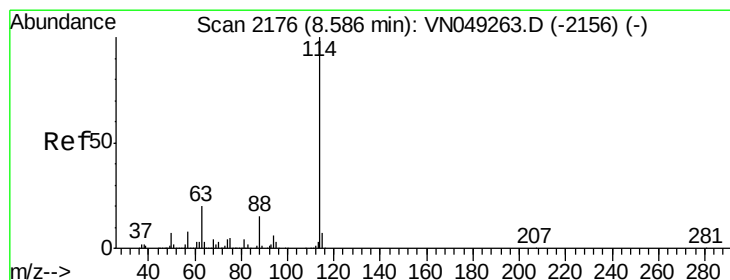
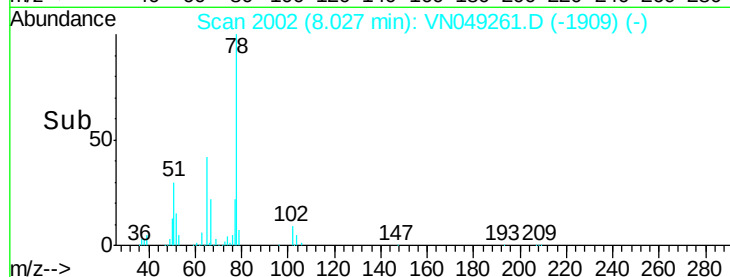
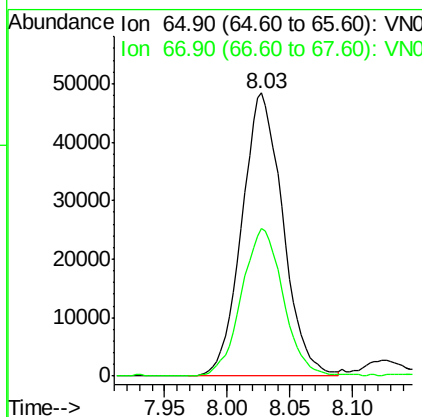
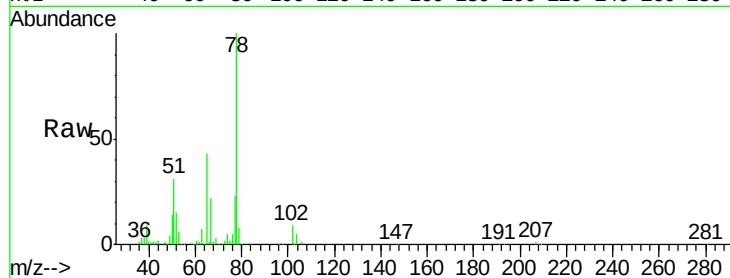
#33
 1,2-Dichloroethane-d4
 Concen: 4.60 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
65	100	110196		
67	52.8	0.0	103.8	

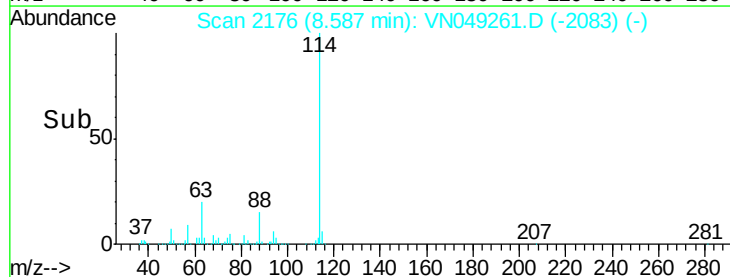
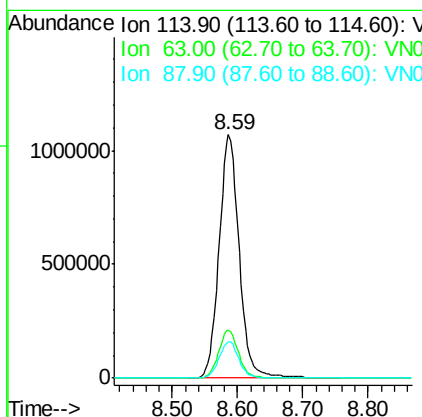
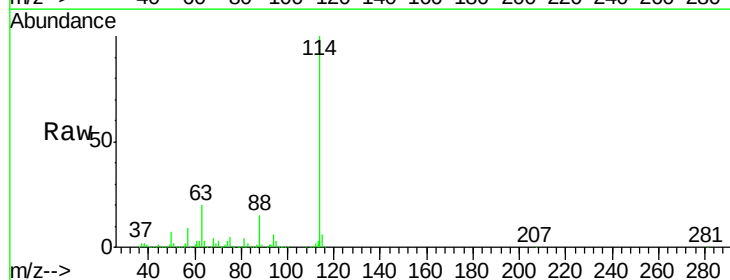
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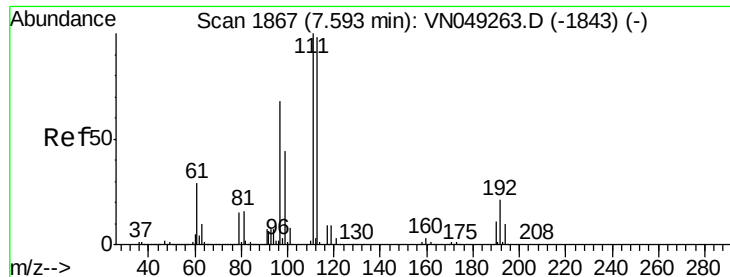
MMDadoda
 6/18/2018 3:16:09 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	2291128		
63	19.9	0.0	44.4	
88	15.0	0.0	31.4	





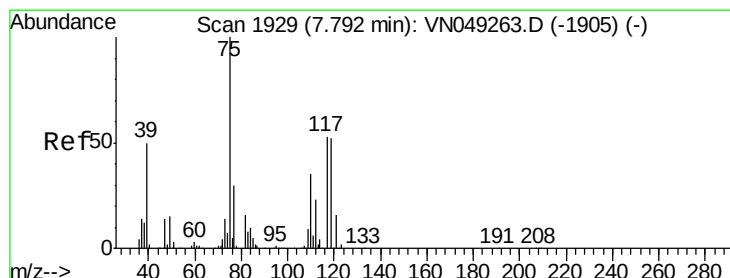
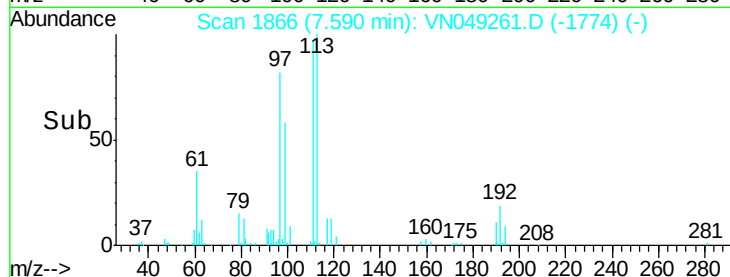
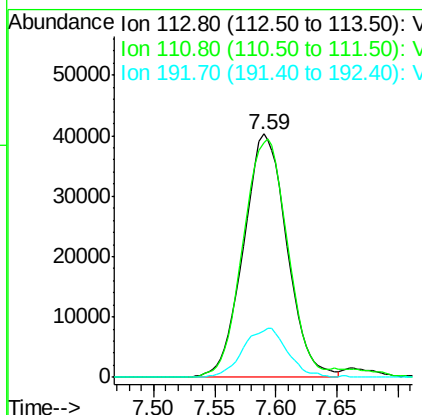
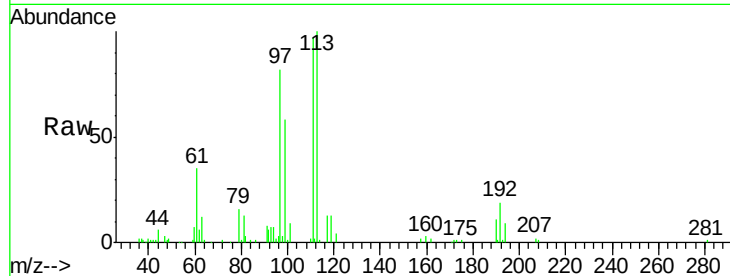
#35
 Dibromofluoromethane
 Concen: 5.24 ug/l
 RT: 7.59 min Scan# 1866
 Delta R.T. -0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
113	100	99357		
111	100.3	82.4	123.6	
192	20.4	15.0	22.6	

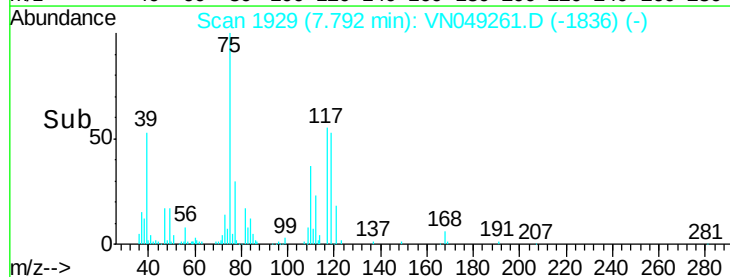
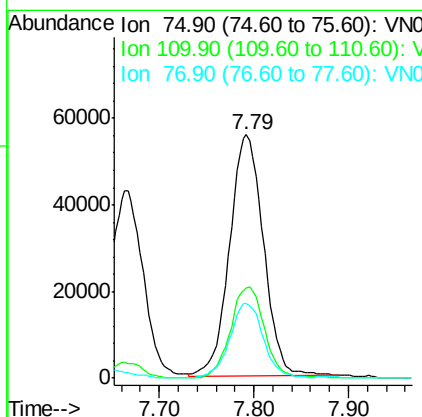
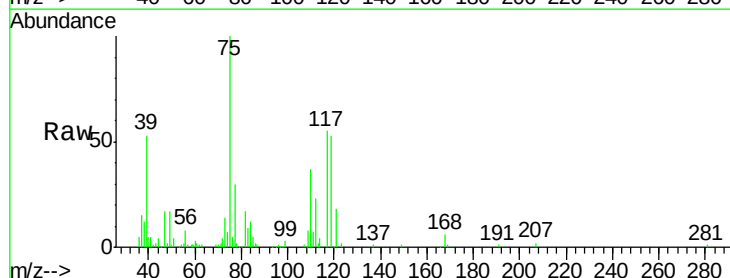
Manual Integrations
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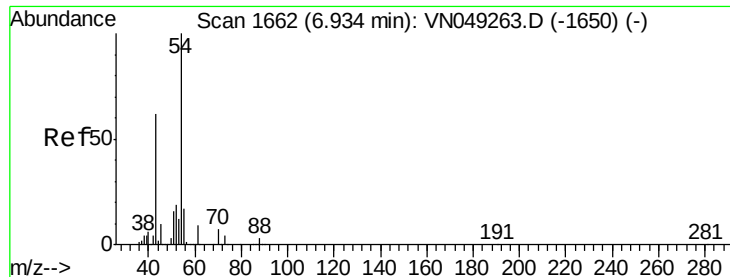
MMDadoda
 6/18/2018 3:16:09 PM



#36
 1,1-Dichloropropene
 Concen: 4.85 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	138779		
110	37.7	17.0	50.9	
77	29.8	24.4	36.6	





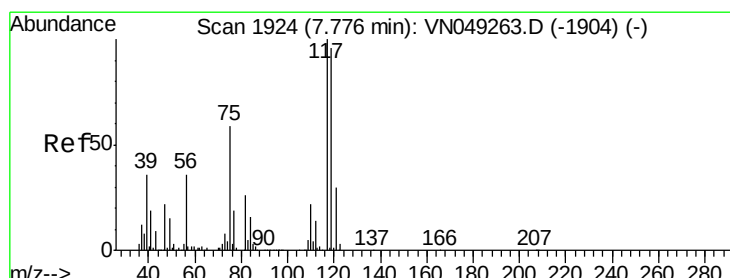
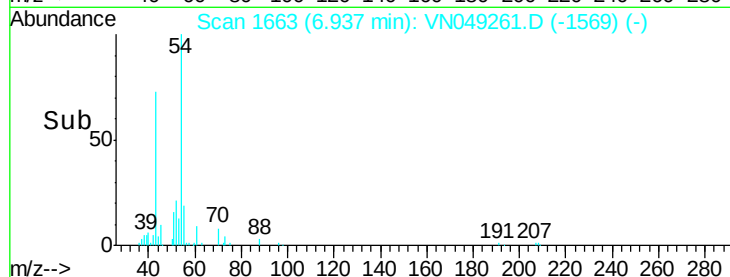
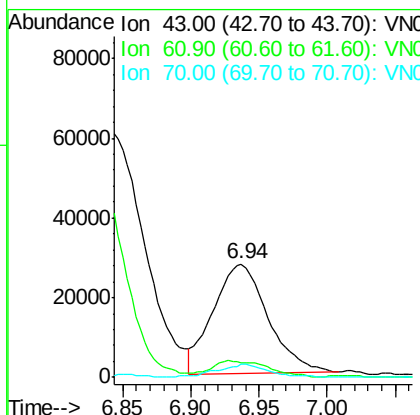
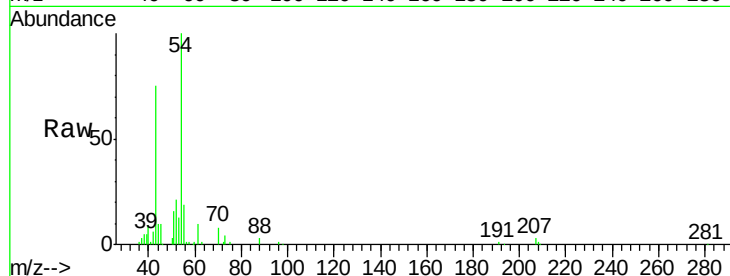
#37
Ethyl Acetate
Concen: 4.22 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.0	11.0	16.4
70	11.2	7.2	10.8

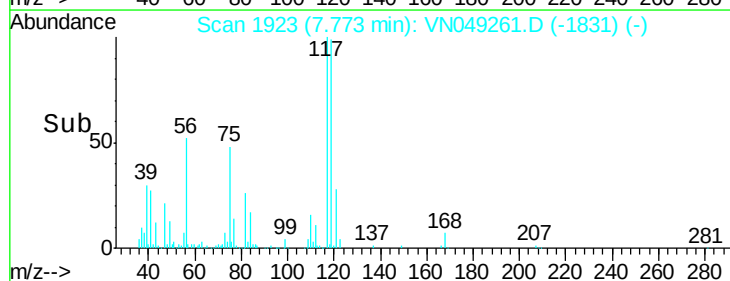
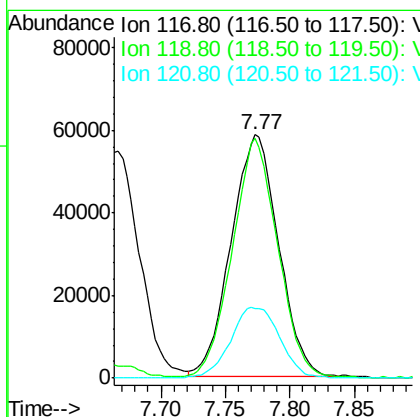
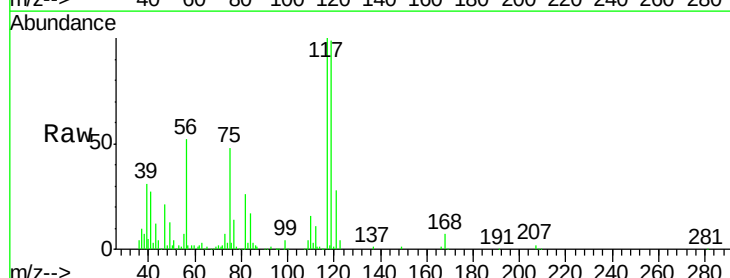
Manual Integrations
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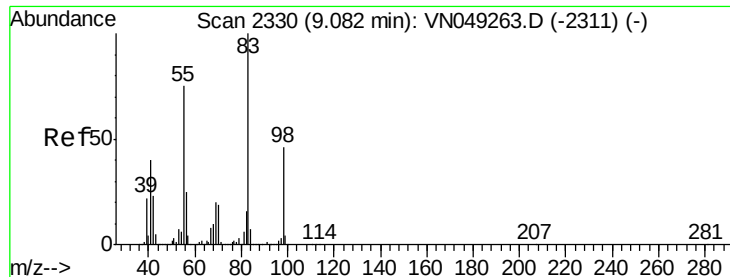
MMDadoda
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#38
Carbon Tetrachloride
Concen: 5.21 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.7	75.6	113.4
121	28.2	24.7	37.1





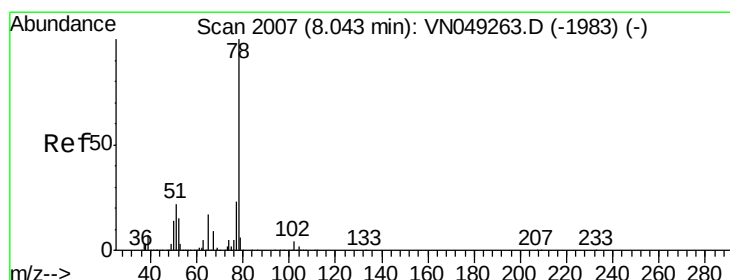
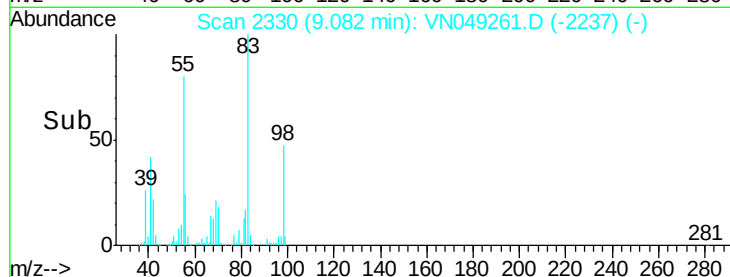
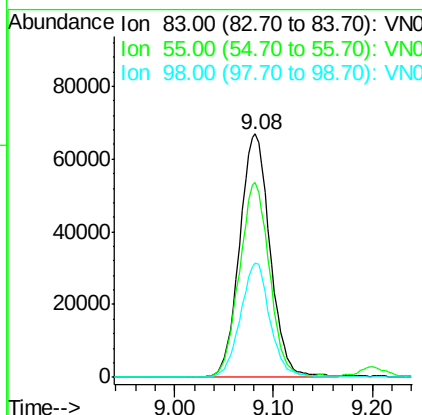
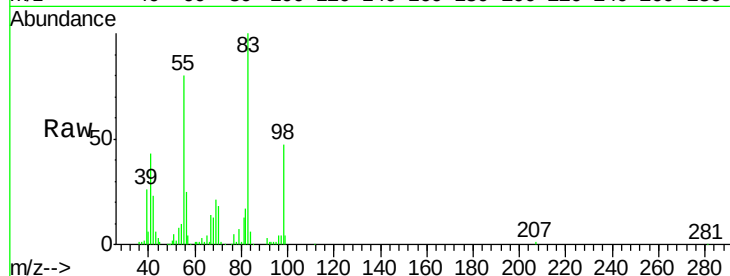
#39
Methylvlcyclohexane
Concen: 4.84 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.8	65.1	97.7
98	47.2	36.5	54.7

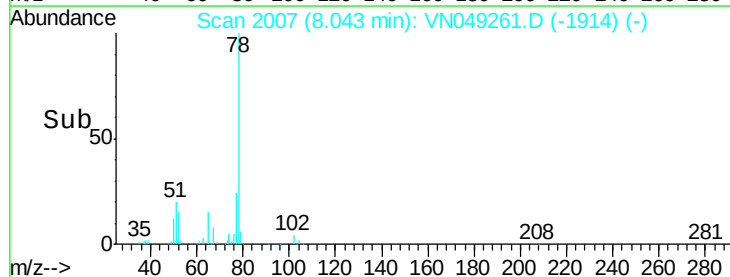
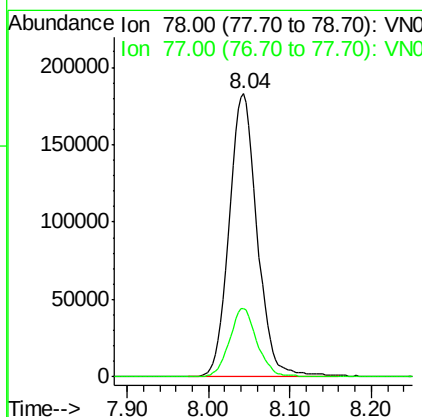
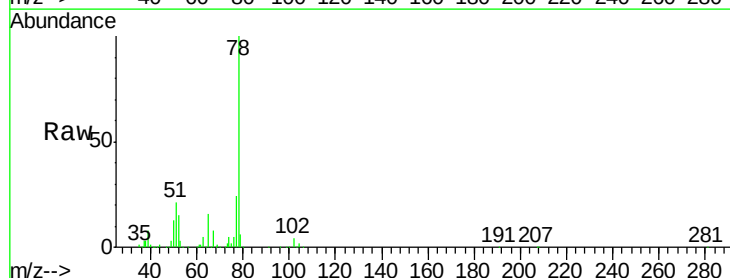
Manual Integrations
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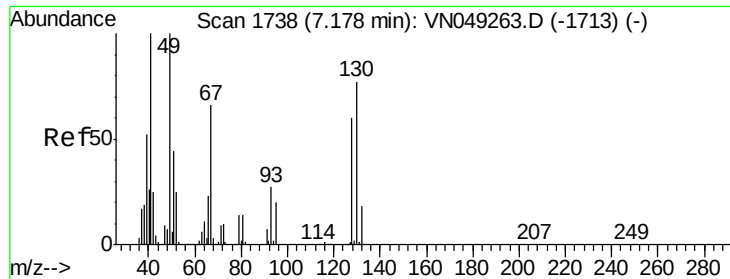
MMDadoda
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#40
Benzene
Concen: 5.10 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.4	29.0





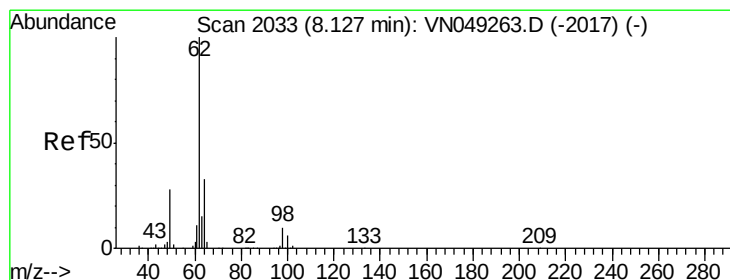
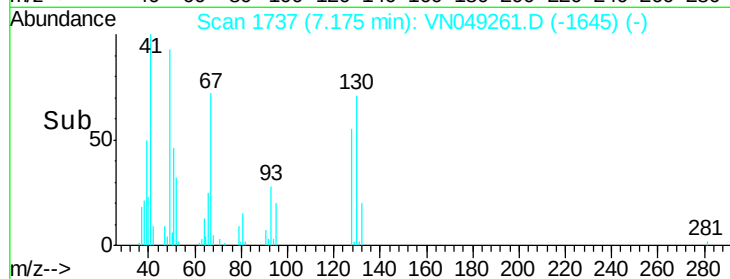
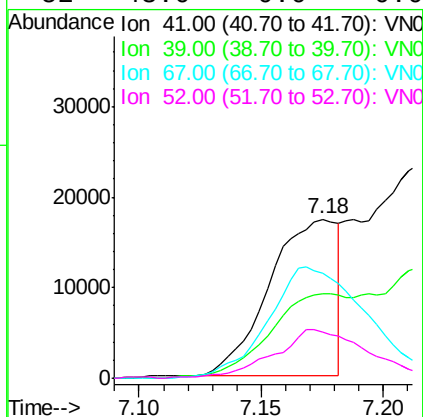
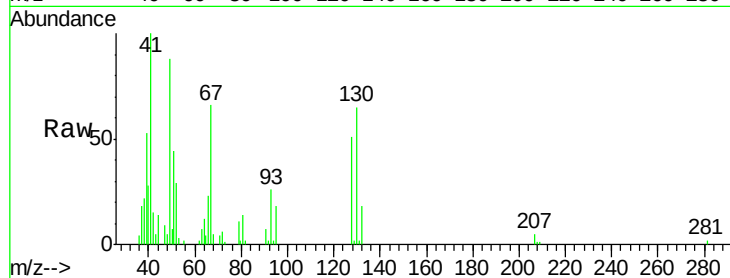
#41
Methacrylonitrile
Concen: 3.28 ug/l
RT: 7.18 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	59.5	0.0	0.0#
67	105.0	0.0	0.0#
52	43.0	0.0	0.0#

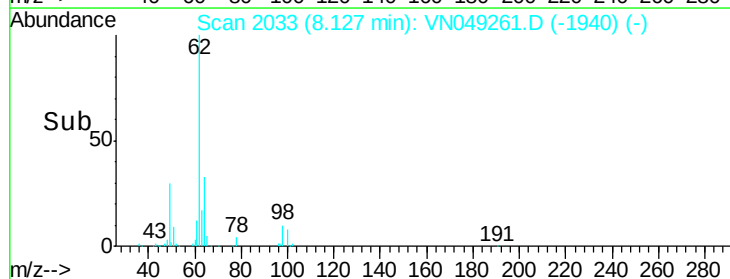
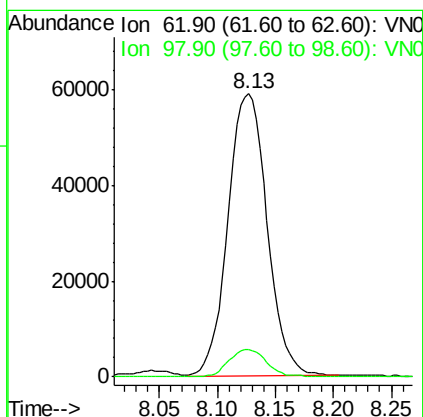
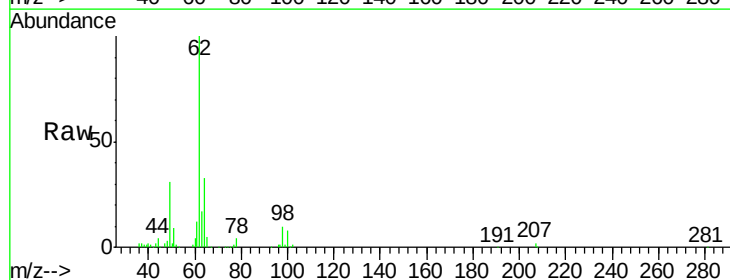
Manual Integrations
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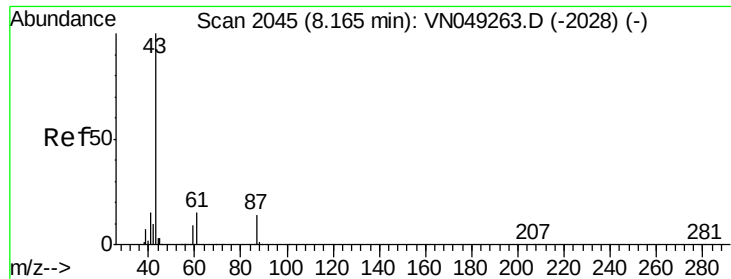
MMDadoda
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#42
1,2-Dichloroethane
Concen: 4.82 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	16.2





#43

Isopropyl Acetate

Concen: 4.47 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

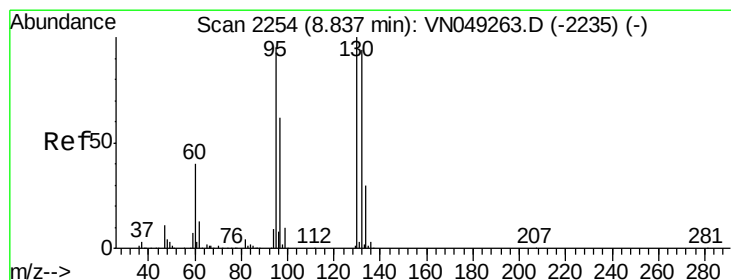
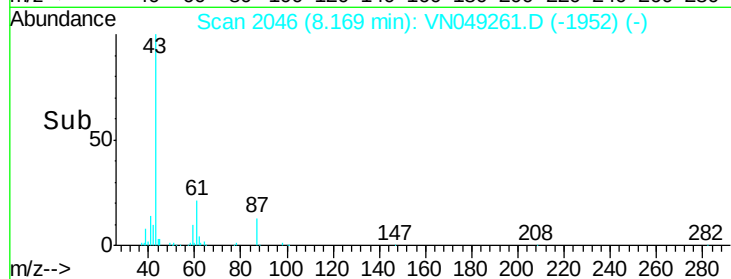
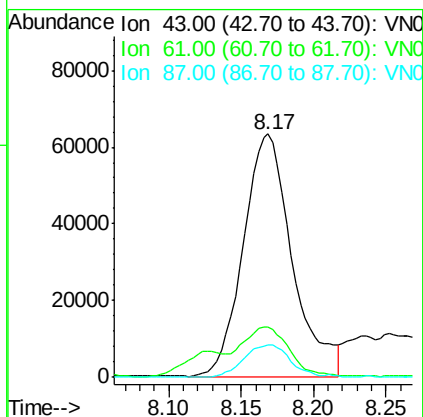
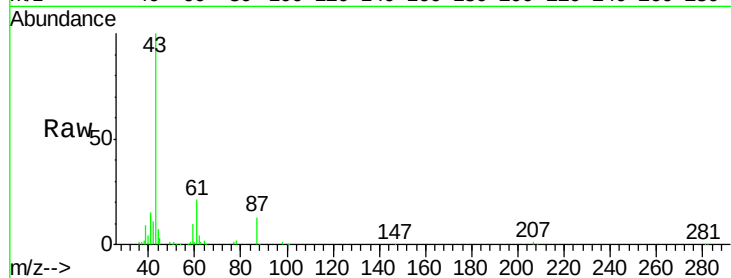
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	148586
Ion	Ratio	Lower	Upper
43	100		
61	19.3	14.2	21.4
87	12.8	9.4	14.0

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#44

Trichloroethene

Concen: 5.50 ug/l

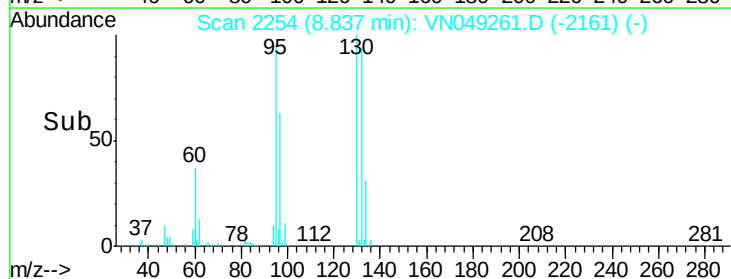
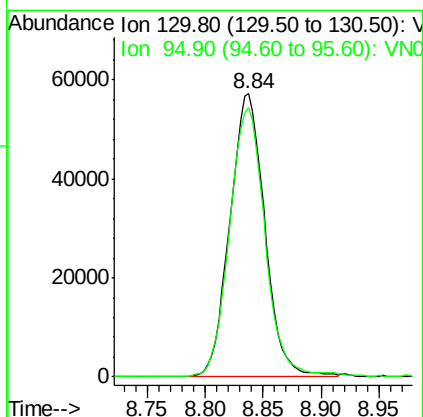
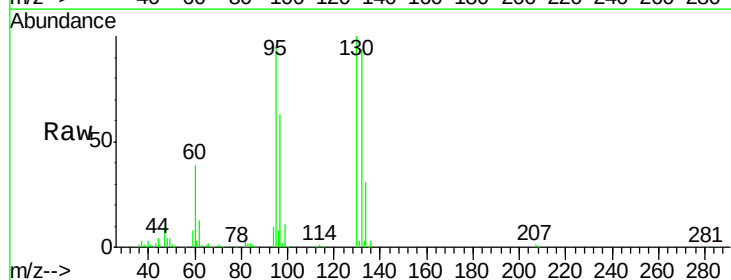
RT: 8.84 min Scan# 2254

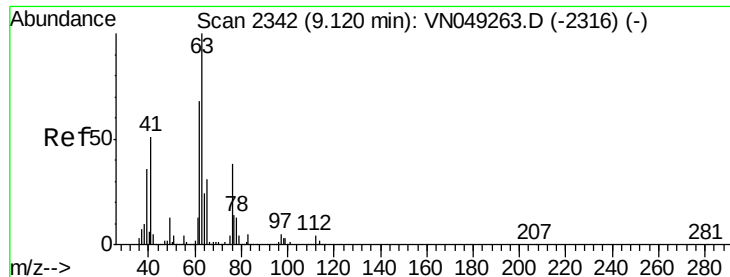
Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Tgt Ion:	130	Resp:	119180
Ion	Ratio	Lower	Upper
130	100		
95	94.7	0.0	208.6





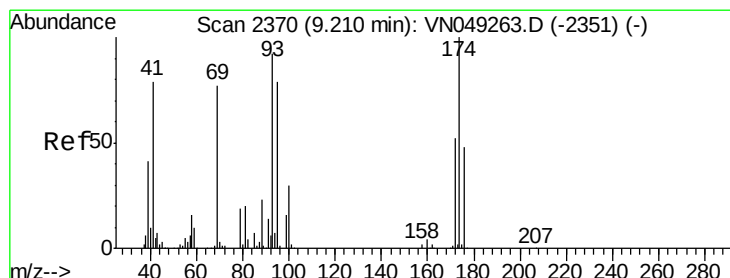
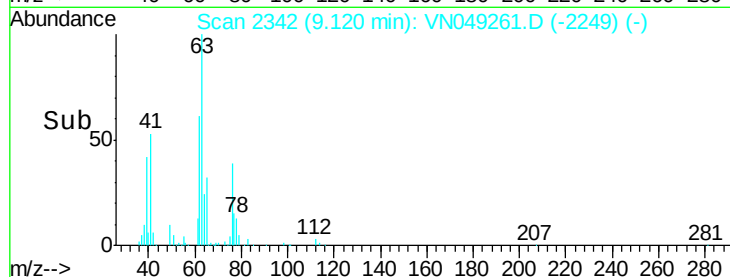
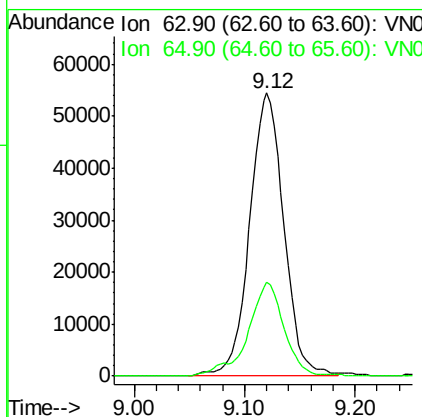
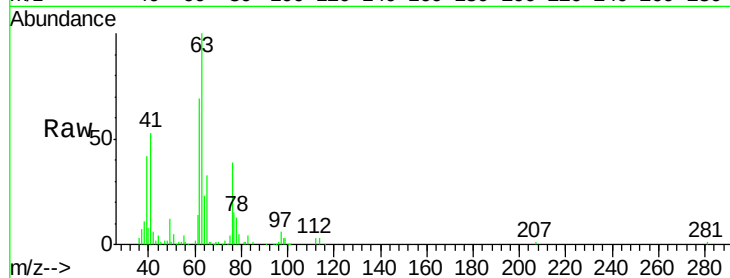
#45
 1,2-Dichloropropane
 Concen: 4.90 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.1	24.8	37.2

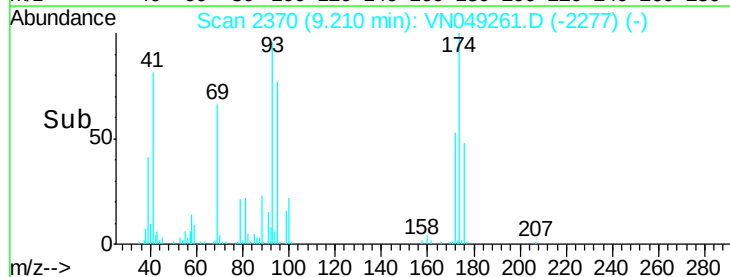
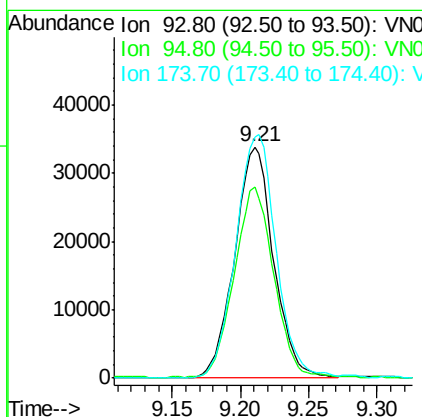
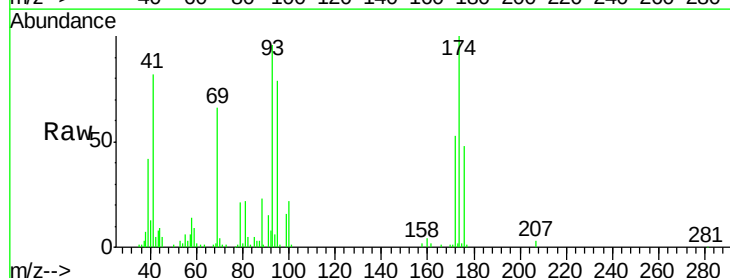
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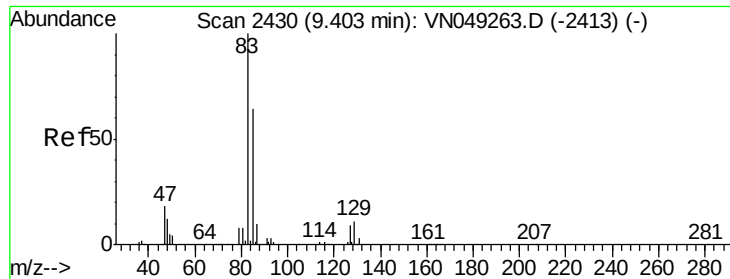
MMDadoda
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#46
 Dibromomethane
 Concen: 5.11 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.3	67.2	100.8
174	108.8	75.6	113.4





#47

Bromodichloromethane

Concen: 4.91 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

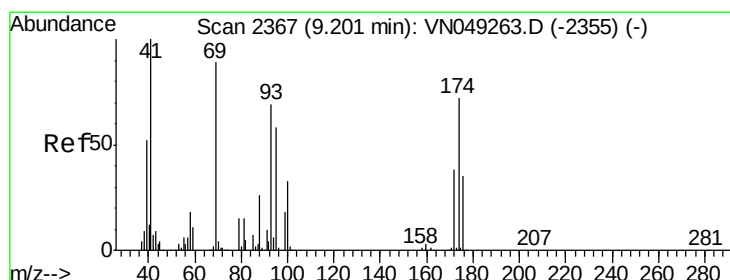
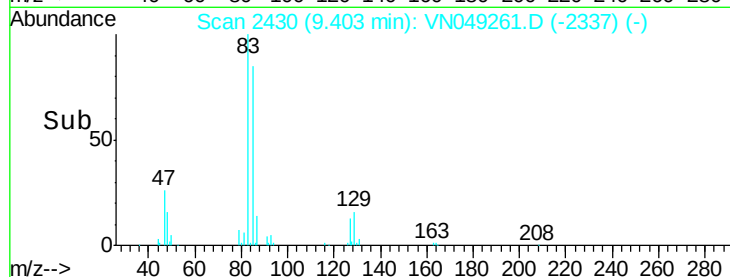
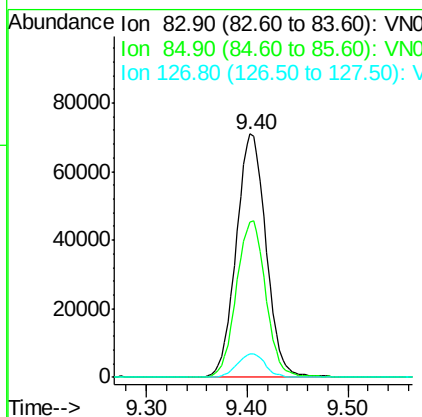
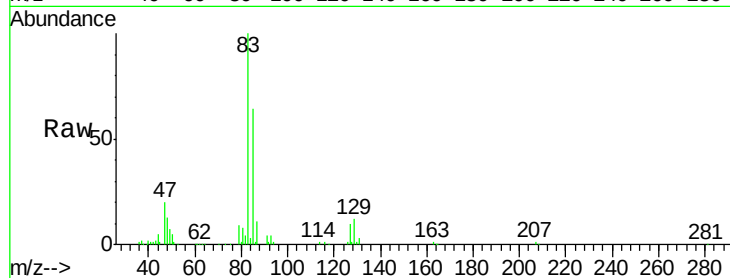
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	145750
Ion Ratio	Lower	Upper	
83	100		
85	63.9	49.4	74.0
127	9.7	6.3	9.5#

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#48

Methyl methacrylate

Concen: 4.02 ug/l

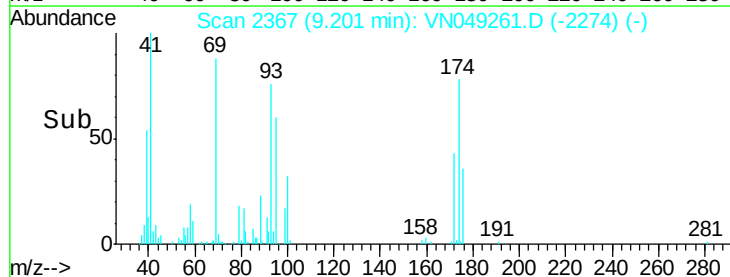
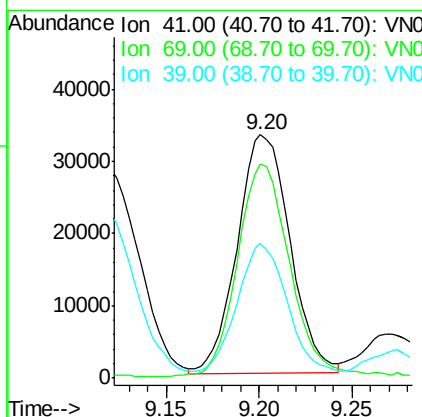
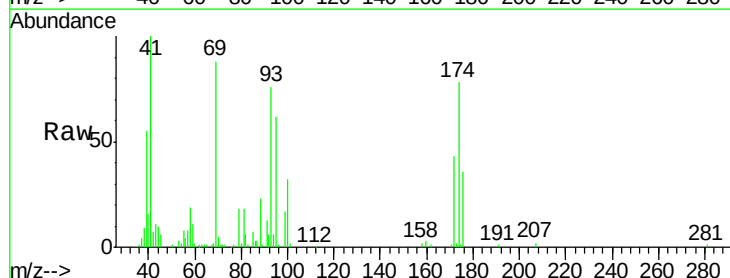
RT: 9.20 min Scan# 2367

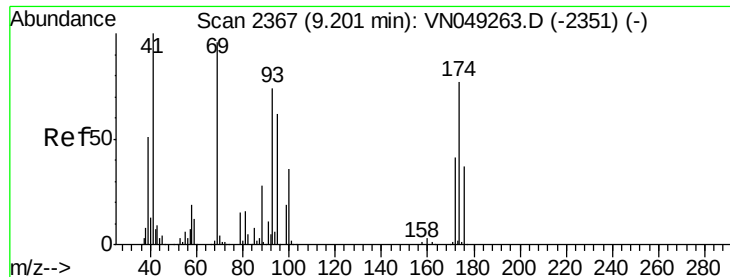
Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Tgt Ion:	41	Resp:	65288
Ion Ratio	Lower	Upper	
41	100		
69	88.6	62.0	93.0
39	53.9	50.6	75.8





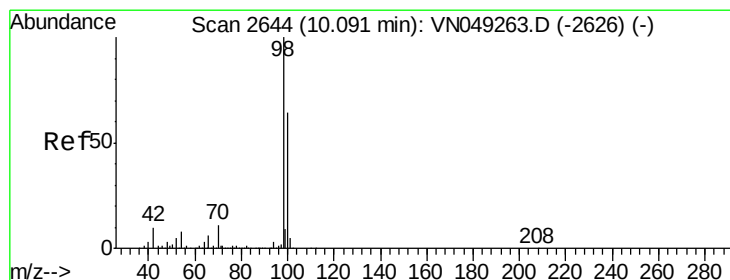
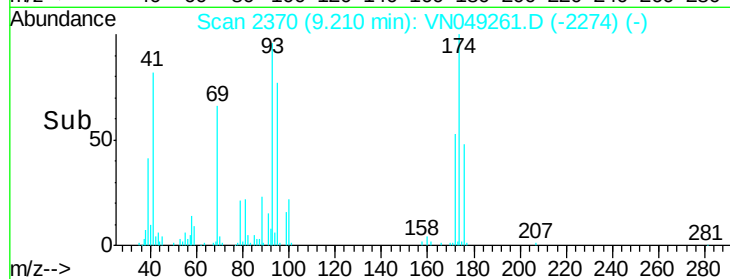
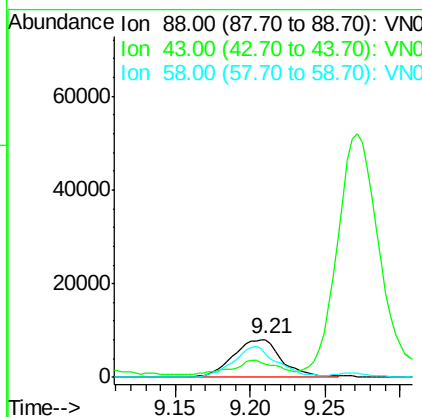
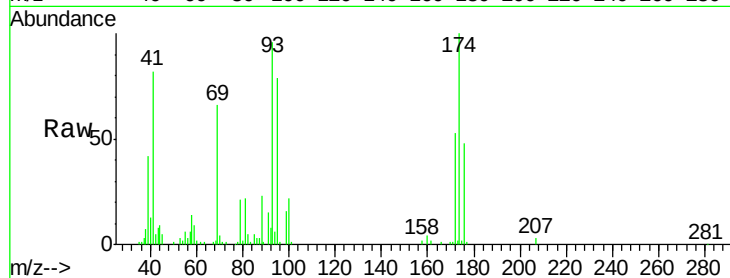
#49
1,4-Dioxane
Concen: 94.60 ug/l
RT: 9.21 min Scan# 2370
Delta R.T. 0.01 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	35.0	30.9	46.3
58	73.8	58.9	88.3

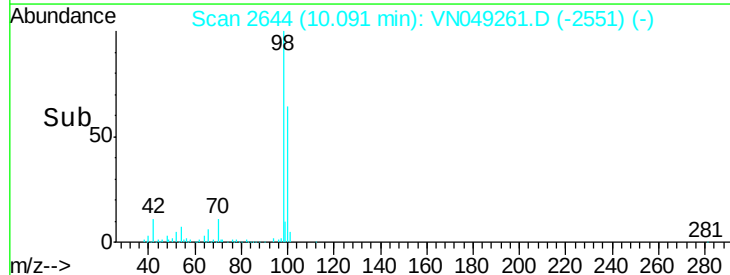
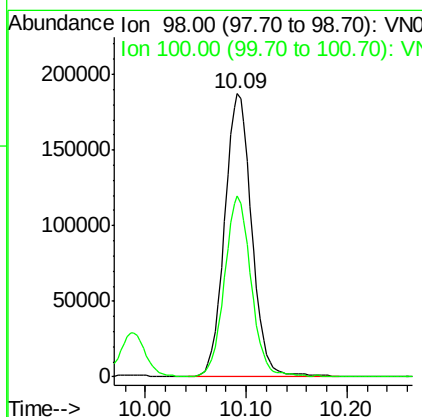
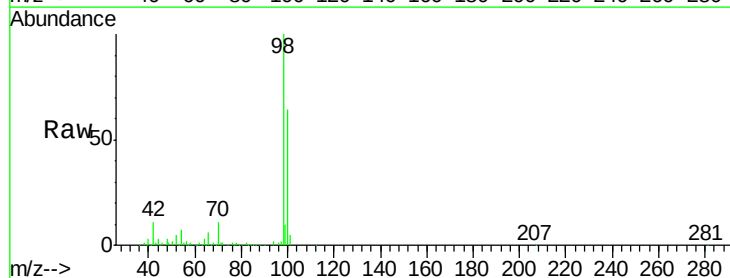
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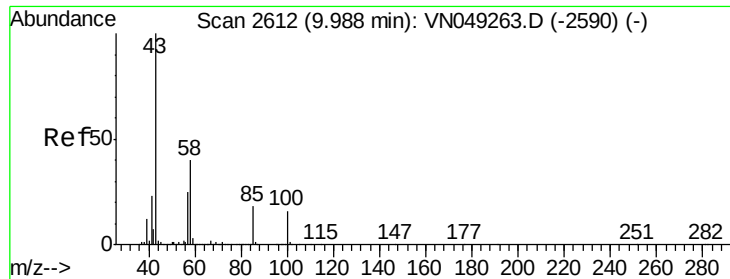
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#50
Toluene-d8
Concen: 4.77 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.2	49.8	74.8





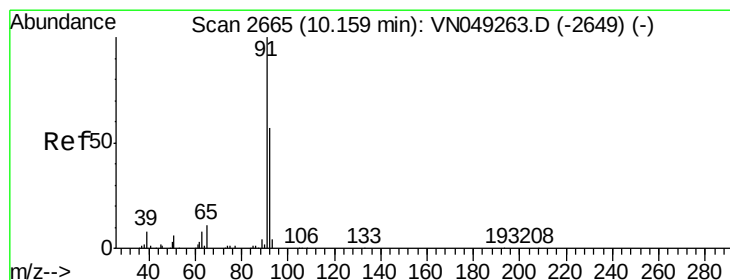
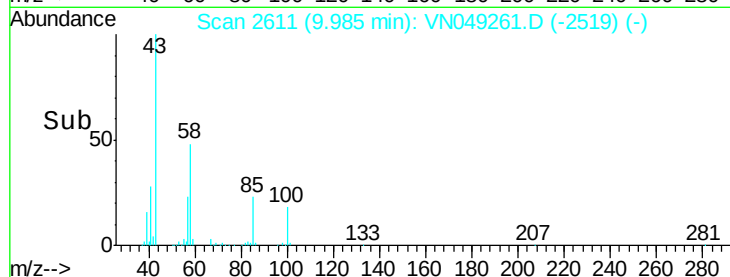
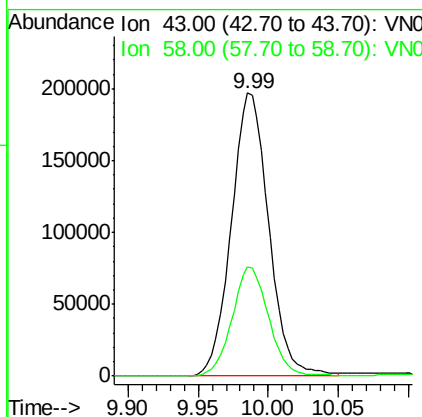
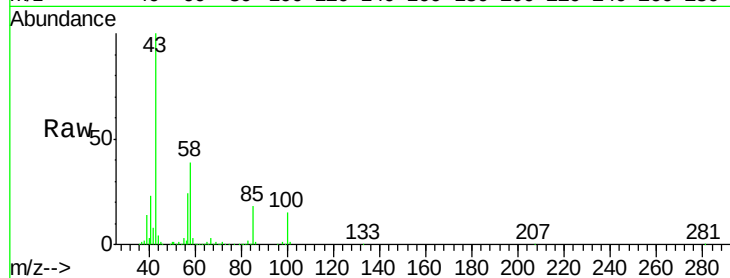
#51
4-Methyl-2-Pentanone
Concen: 20.45 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.3	29.0	43.6

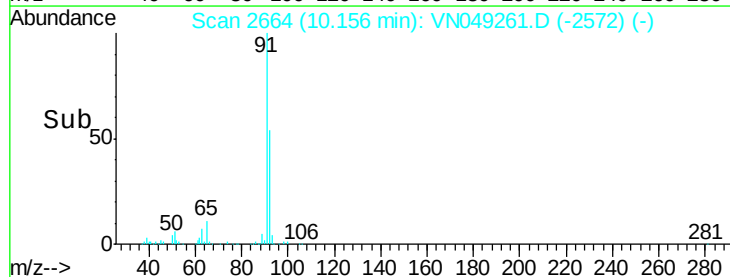
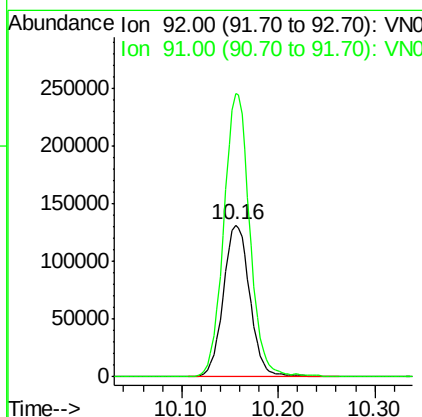
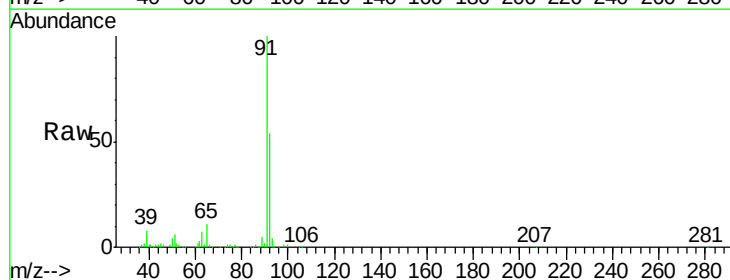
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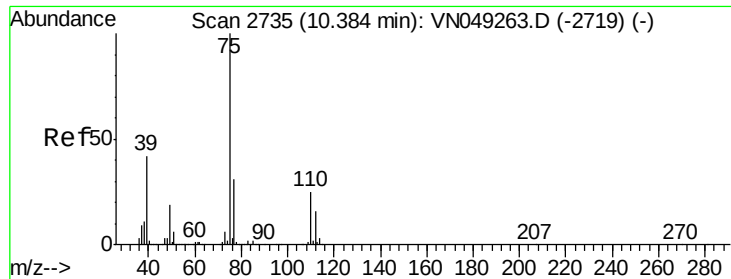
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#52
Toluene
Concen: 4.98 ug/l
RT: 10.16 min Scan# 2664
Delta R.T. -0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
92	100		
91	183.1	143.4	215.2





#53

t-1,3-Dichloropropene

Concen: 4.57 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 75 Resp: 128916

Ion Ratio Lower Upper

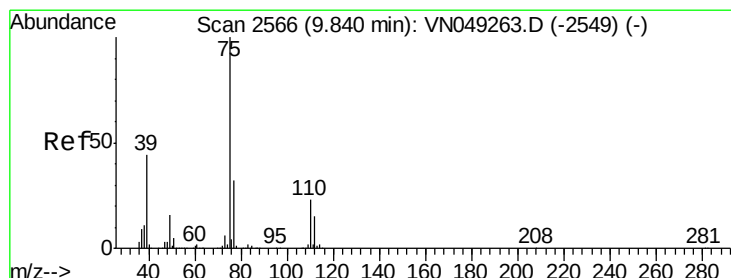
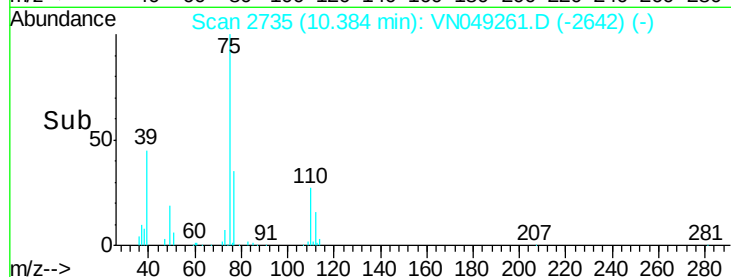
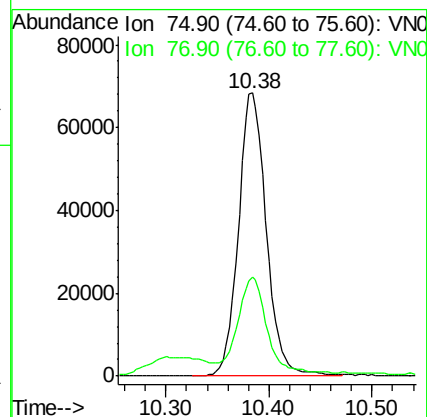
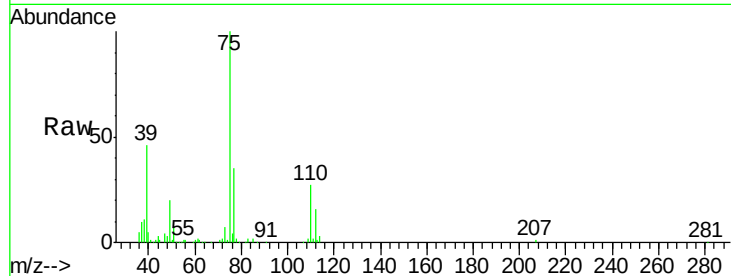
75 100

77 33.8 25.2 37.8

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#54

cis-1,3-Dichloropropene

Concen: 4.76 ug/l

RT: 9.84 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

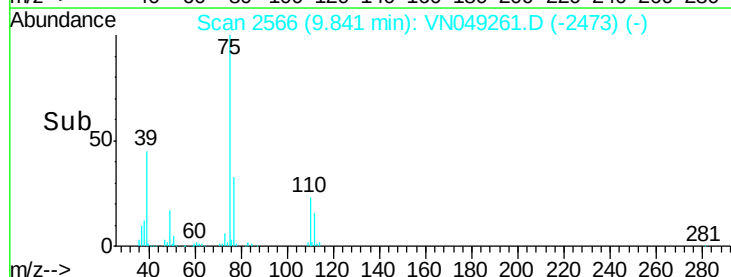
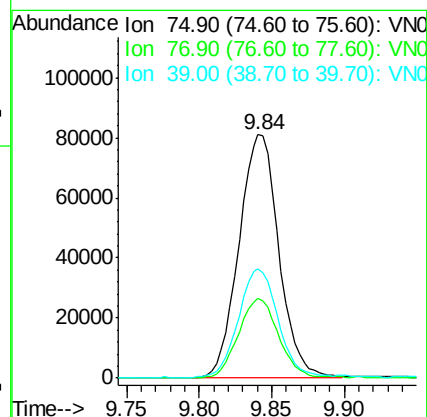
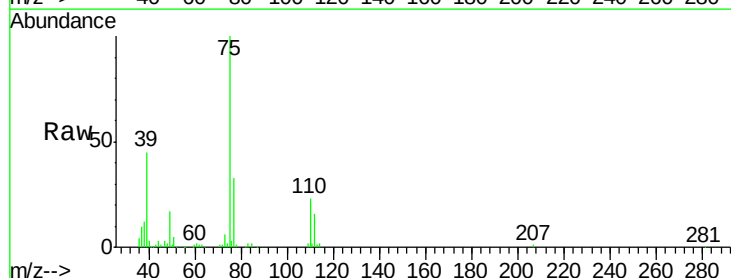
Tgt Ion: 75 Resp: 155593

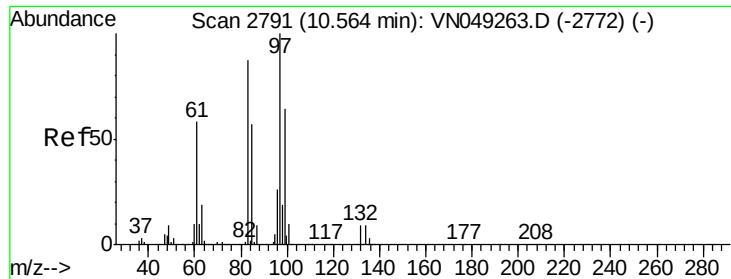
Ion Ratio Lower Upper

75 100

77 32.6 24.8 37.2

39 44.6 45.1 67.7#





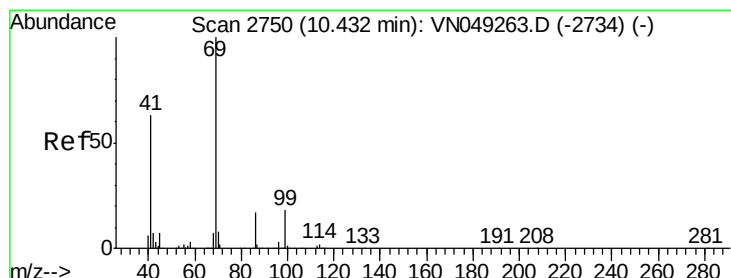
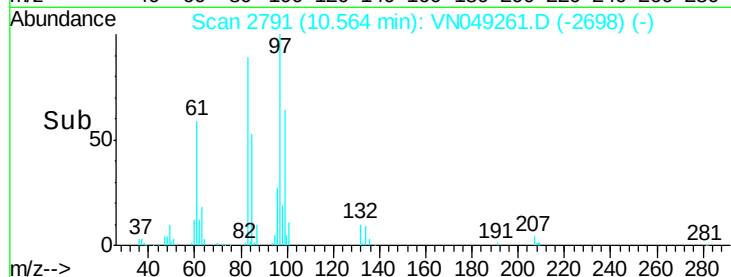
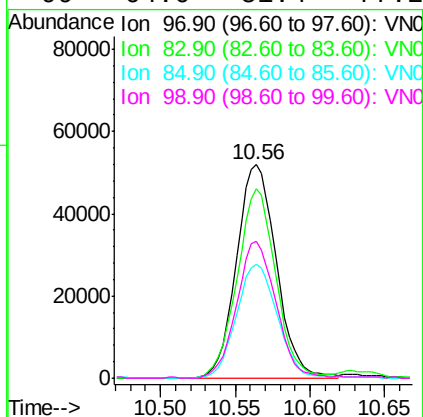
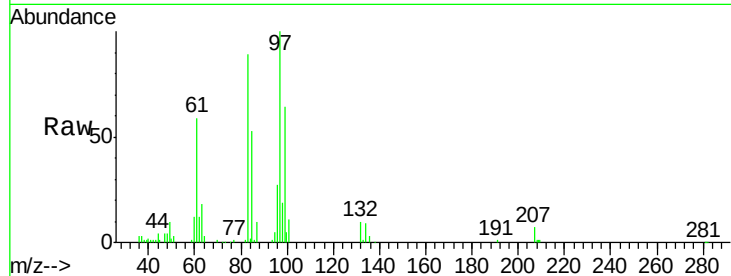
#55
 1,1,2-Trichloroethane
 Concen: 5.22 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		96613		
83	88.6	71.5	107.3		
85	53.1	47.0	70.4		
99	64.0	51.4	77.2		

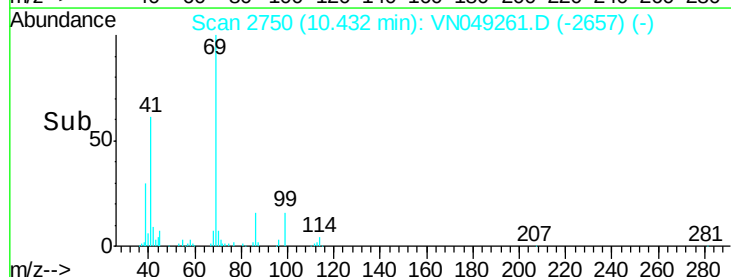
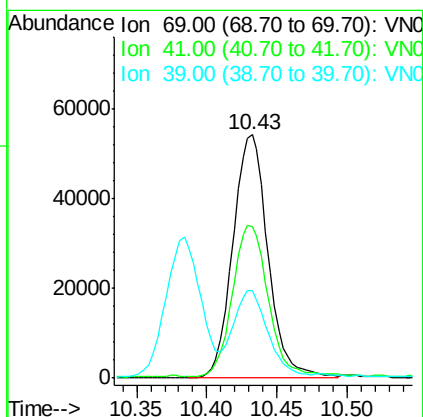
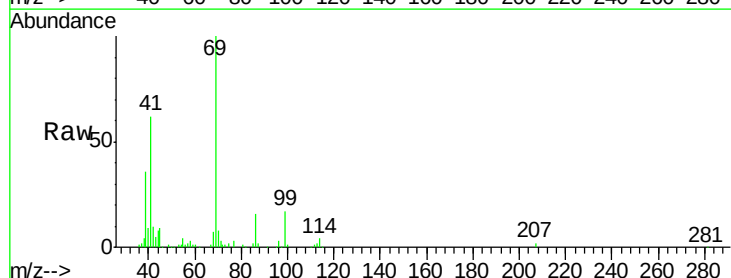
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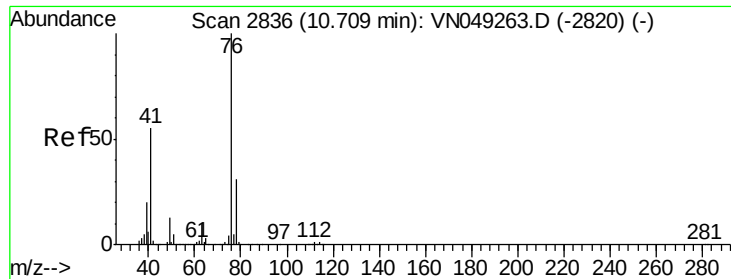
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#56
 Ethyl methacrylate
 Concen: 4.25 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		94920		
41	63.6	58.4	87.6		
39	33.5	35.5	53.3#		





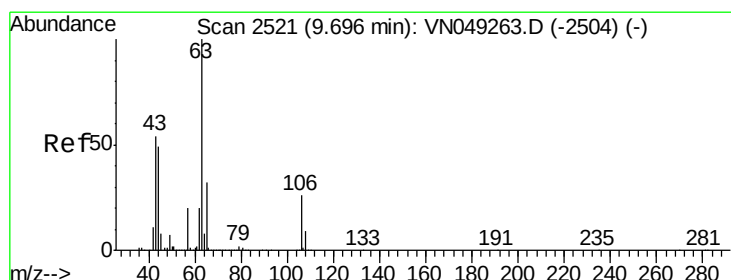
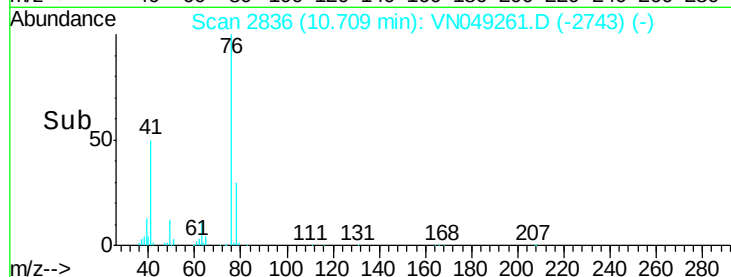
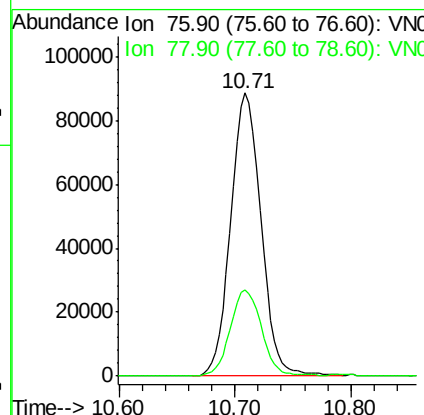
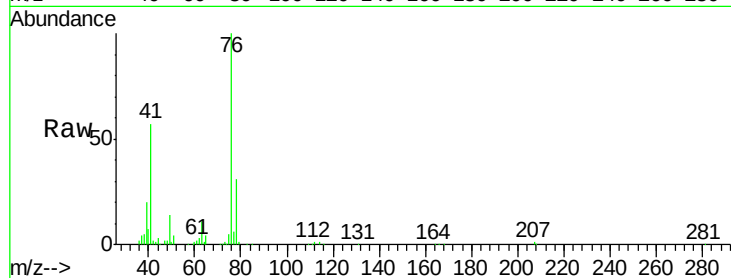
#57
 1,3-Dichloropropane
 Concen: 5.05 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.5	26.3	39.5

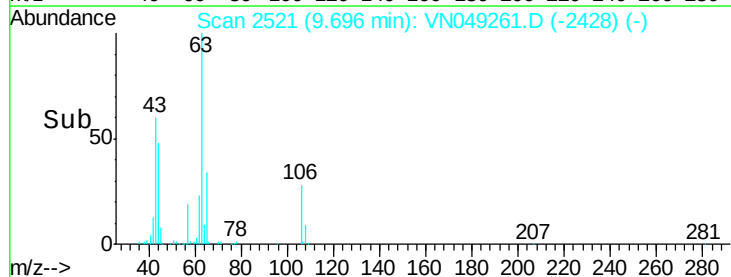
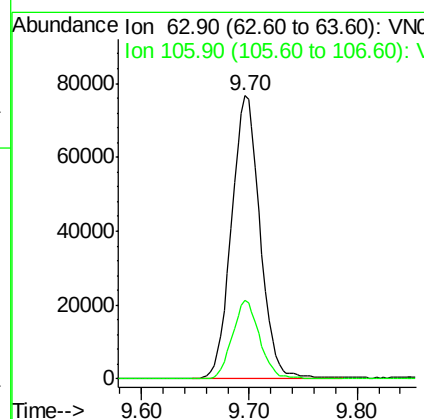
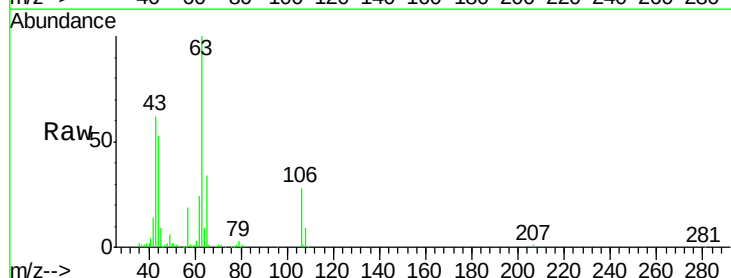
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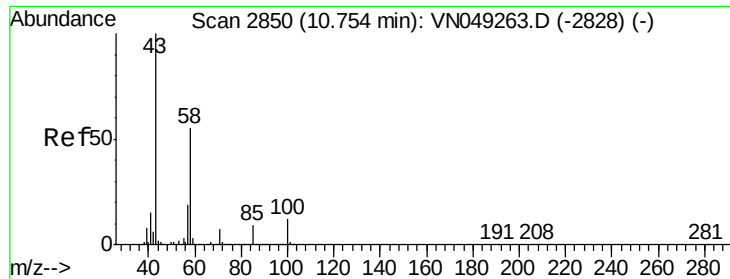
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#58
 2-Chloroethyl Vinyl ether
 Concen: 19.60 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.4	19.4	29.2





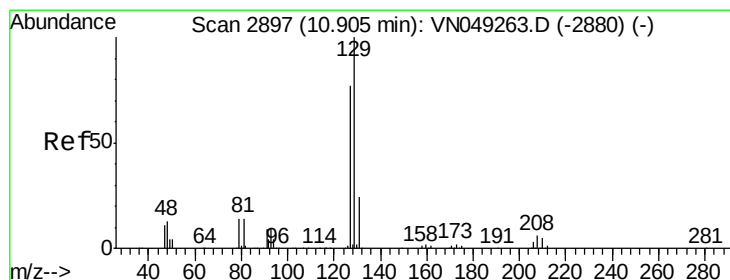
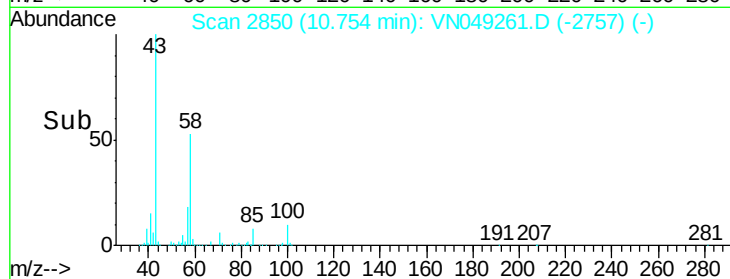
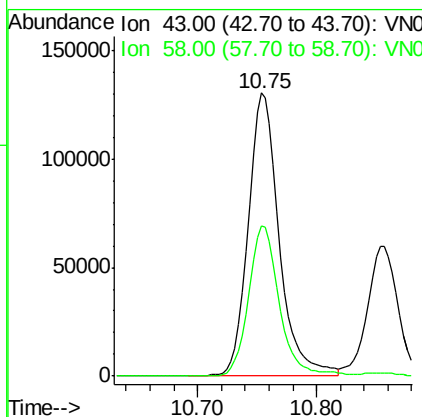
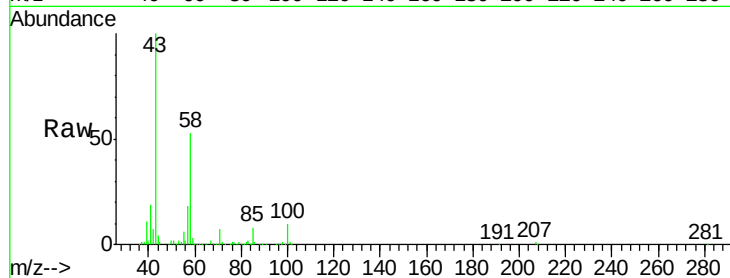
#59
2-Hexanone
Concen: 21.13 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.5	25.2	75.6

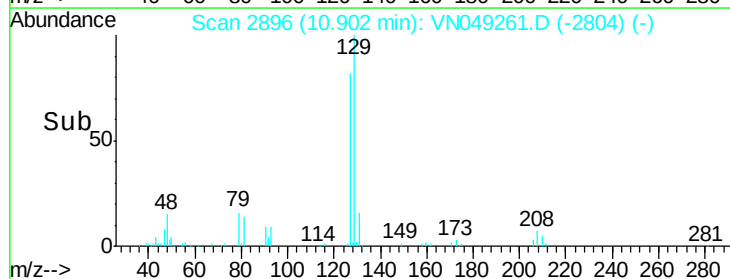
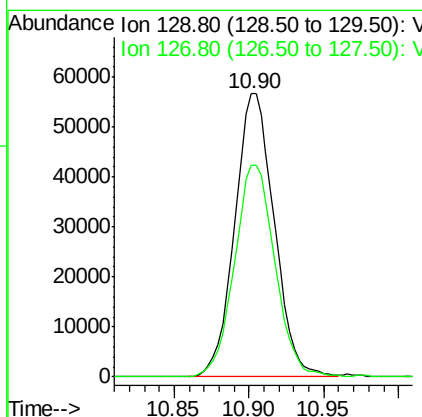
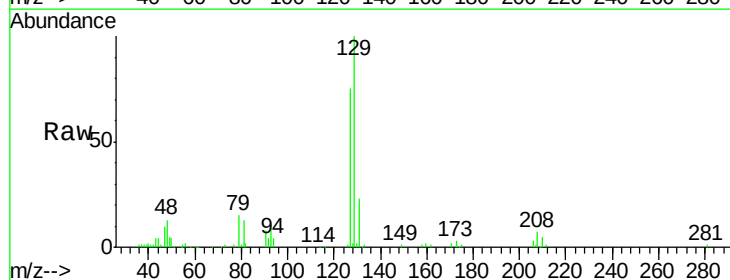
Manual Integrations
APPROVED

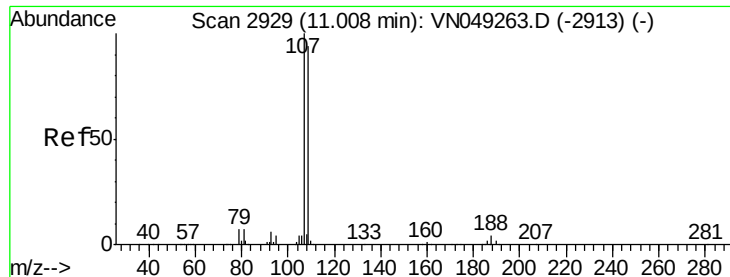
MMDadoda
6/18/2018 3:16:09 PM



#60
Dibromochloromethane
Concen: 5.07 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.8	39.1	117.2





#61

1,2-Dibromoethane

Concen: 5.07 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:107 Resp: 86788

Ion Ratio Lower Upper

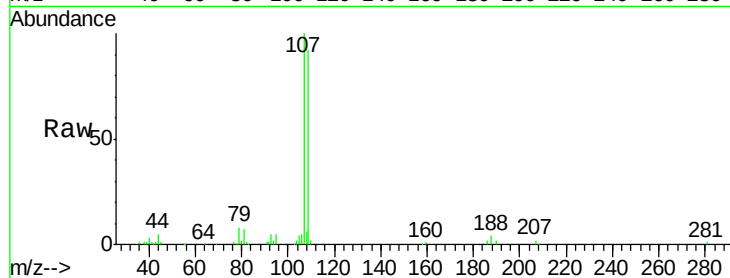
107 100

109 94.8 75.4 113.2

Manual Integrations
APPROVED

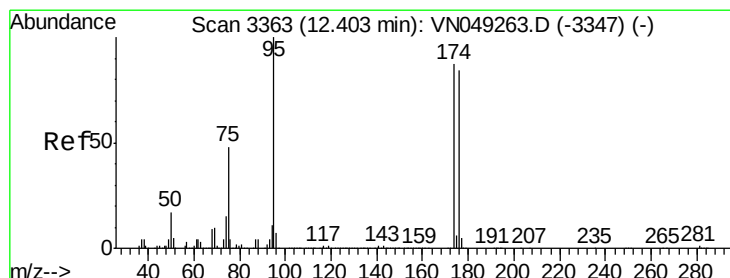
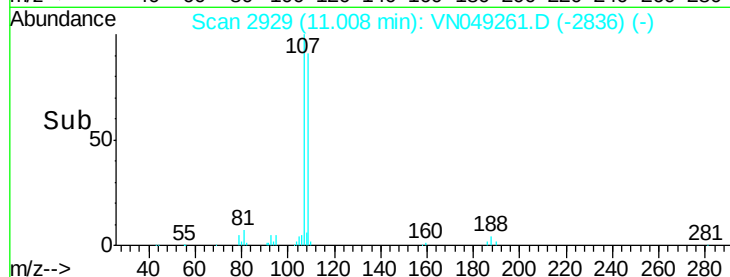
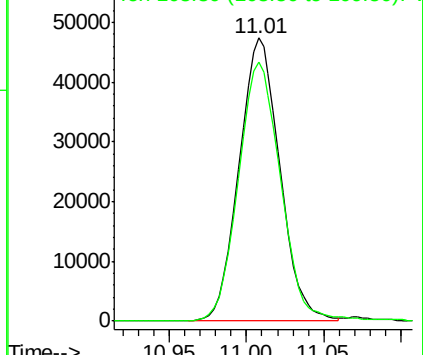
MMDadoda

6/18/2018 3:16:09 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 4.32 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

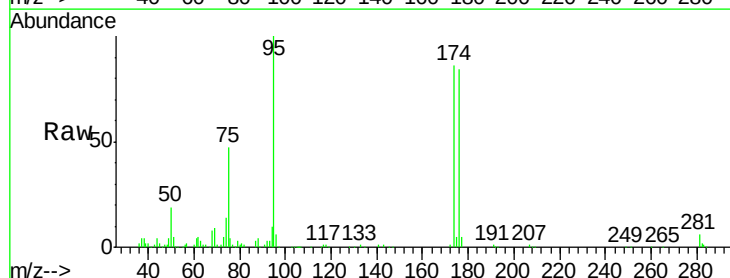
Tgt Ion: 95 Resp: 105806

Ion Ratio Lower Upper

95 100

174 89.5 0.0 165.6

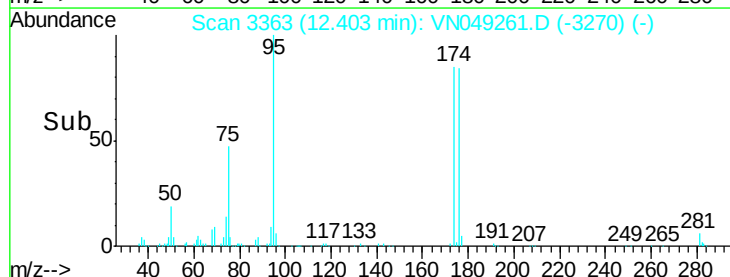
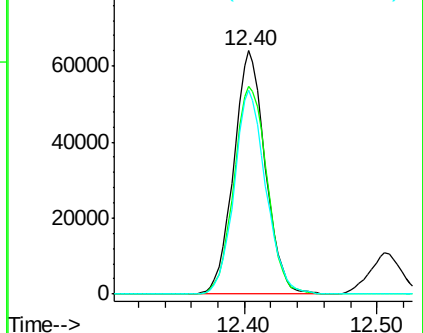
176 83.6 0.0 157.4

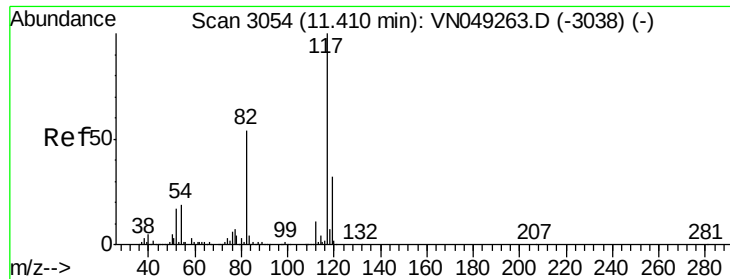


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





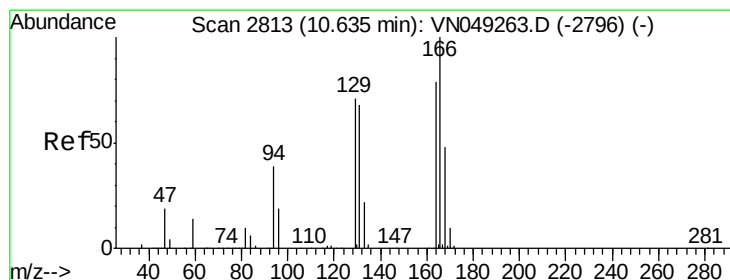
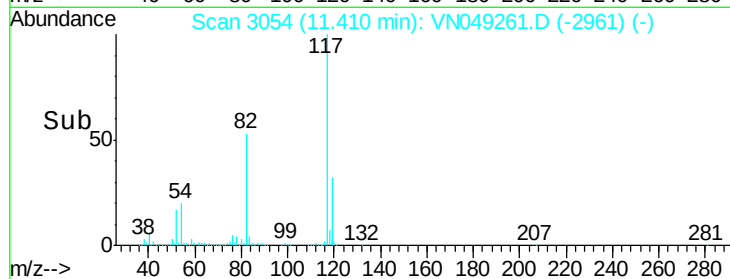
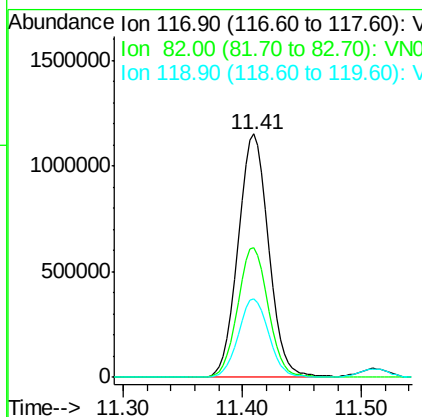
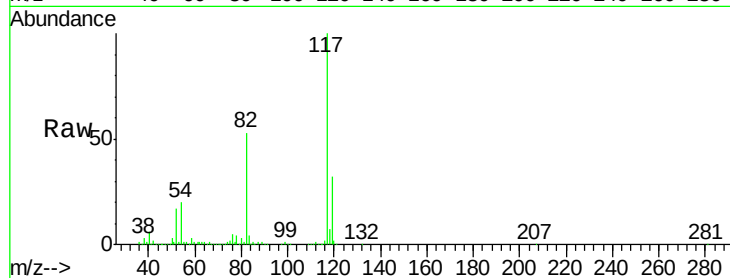
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	45.9	68.9
119	32.4	25.5	38.3

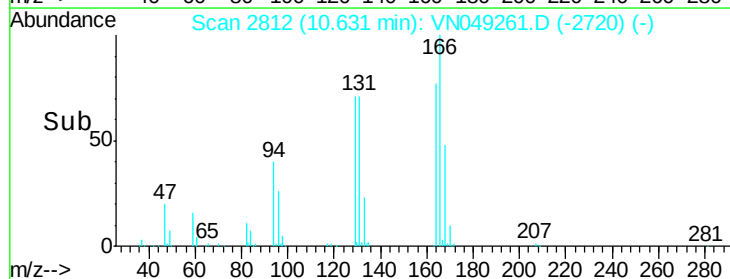
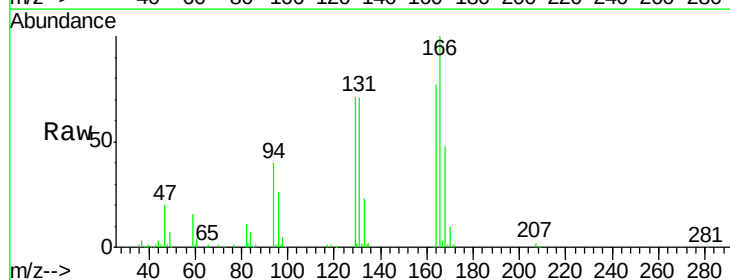
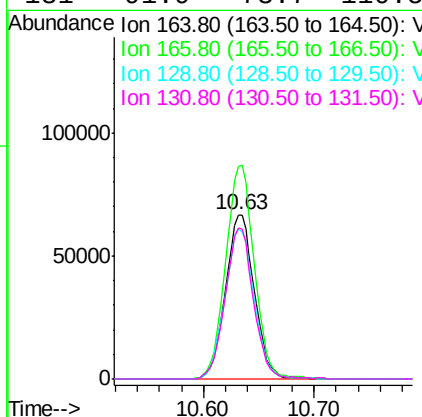
Manual Integrations
APPROVED

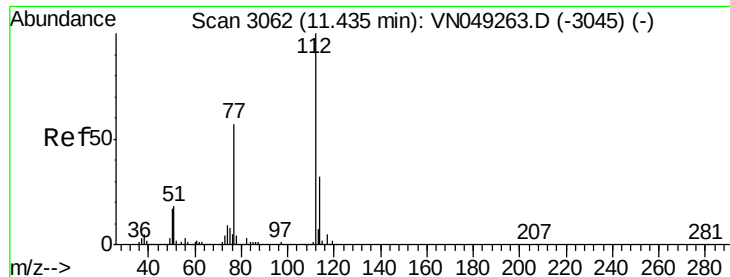
MMDadoda
6/18/2018 3:16:09 PM



#64
Tetrachloroethene
Concen: 5.89 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.5	101.4	152.2
129	91.5	74.1	111.1
131	91.9	73.7	110.5





#65

Chlorobenzene

Concen: 5.54 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:112 Resp: 292580

Ion Ratio Lower Upper

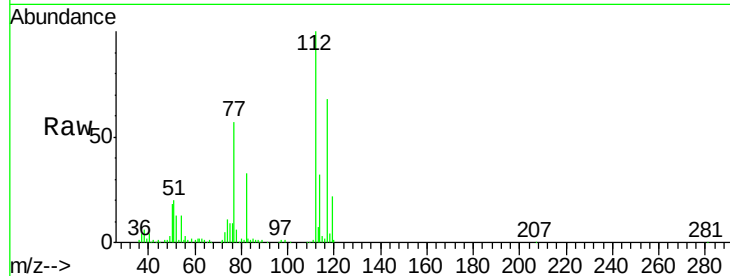
112 100

114 32.3 26.2 39.4

Manual Integrations
APPROVED

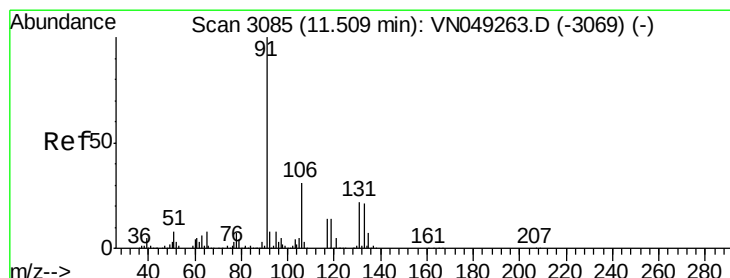
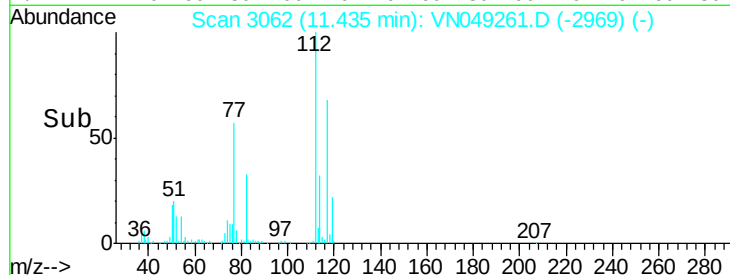
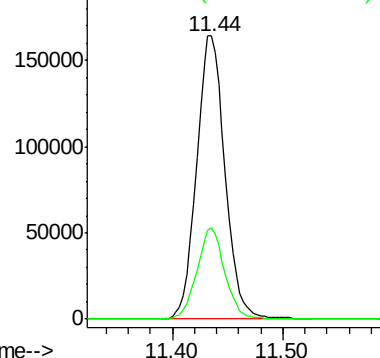
MMDadoda

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 5.36 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

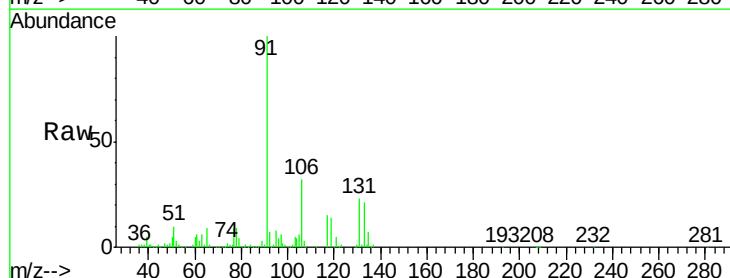
Tgt Ion:131 Resp: 107808

Ion Ratio Lower Upper

131 100

133 95.7 48.0 144.2

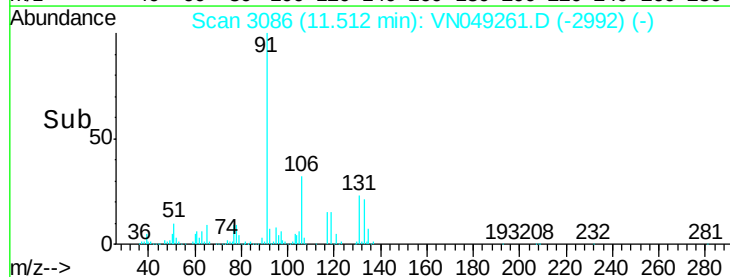
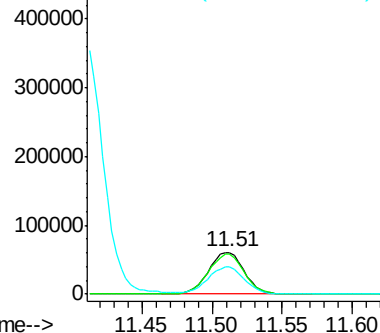
119 66.1 33.6 100.8

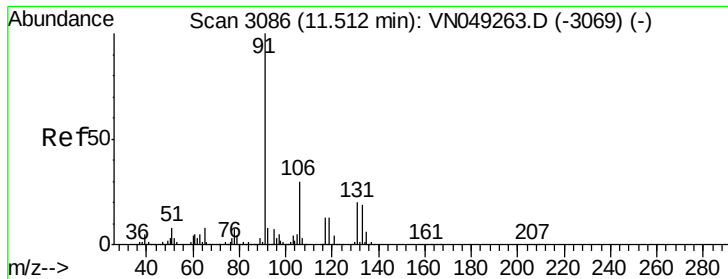


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 4.92 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 448146

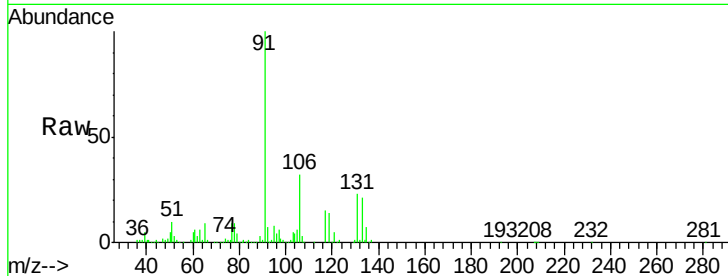
Ion Ratio Lower Upper

91 100

106 31.7 23.9 35.9

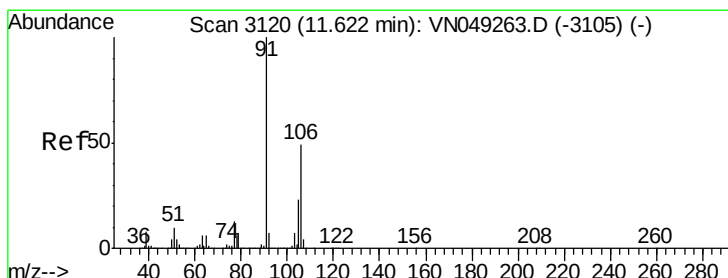
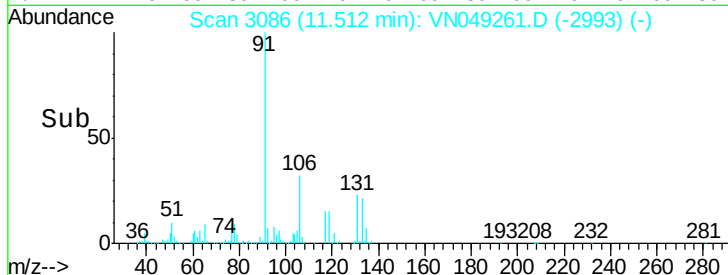
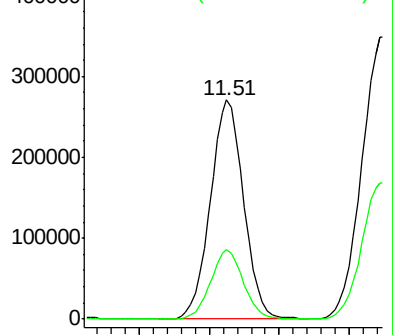
Manual Integrations
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6/18/2018 3:16:09 PM



Abundance Ion 91.00 (90.70 to 91.70): VN049261.D (-2993) (-)

Ion 106.00 (105.70 to 106.70): VN049261.D (-2993) (-)



#68

m/p-Xylenes

Concen: 10.01 ug/l

RT: 11.63 min Scan# 3121

Delta R.T. 0.00 min

Lab File: VN049261.D

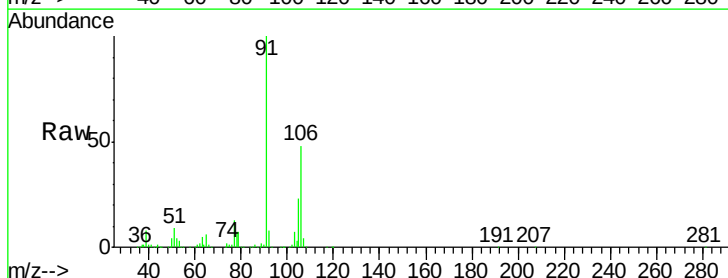
Acq: 15 Jun 2018 14:27

Tgt Ion: 106 Resp: 333913

Ion Ratio Lower Upper

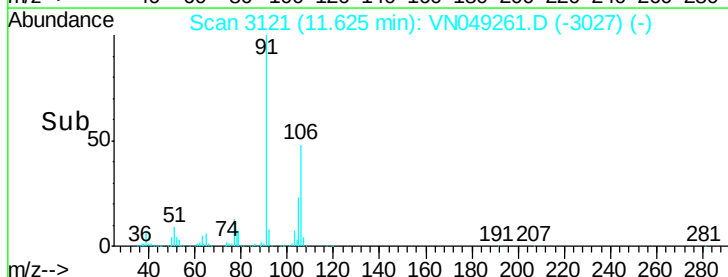
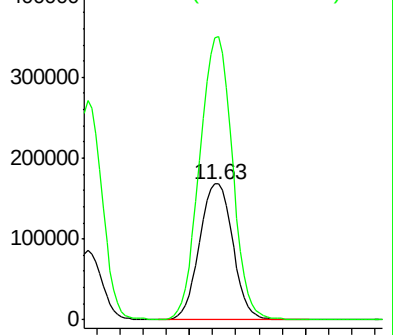
106 100

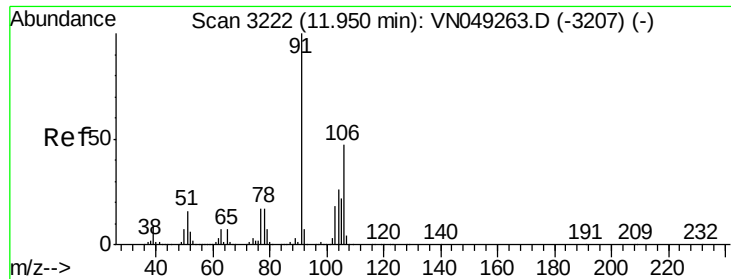
91 204.5 167.3 250.9



Abundance Ion 106.00 (105.70 to 106.70): VN049261.D (-3027) (-)

Ion 91.00 (90.70 to 91.70): VN049261.D (-3027) (-)





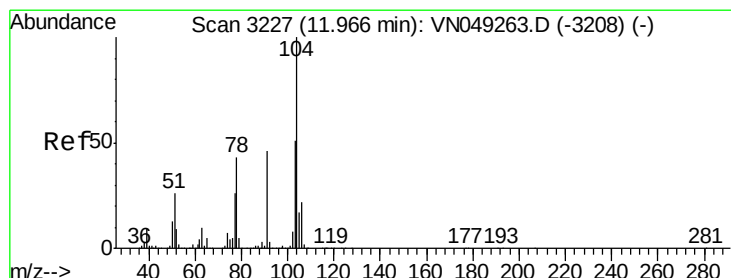
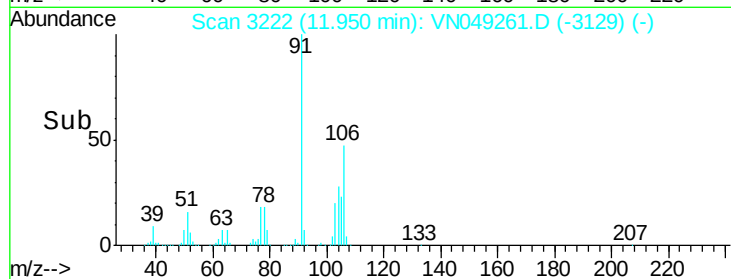
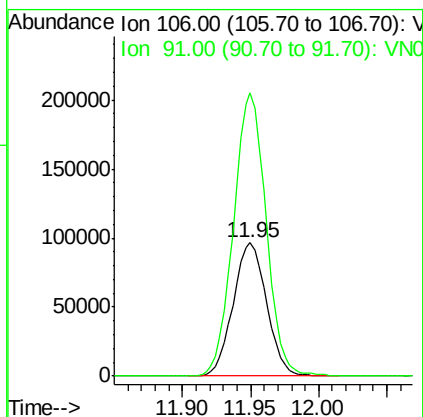
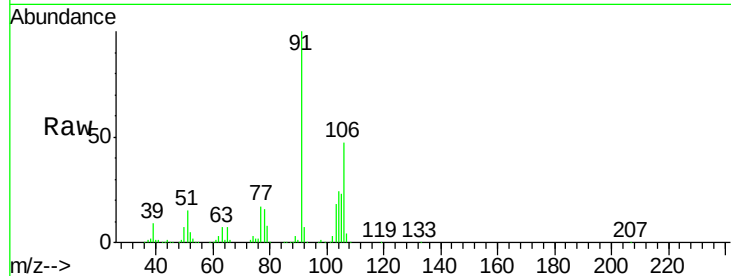
#69
o-Xylene
Concen: 5.13 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	164678		
91	207.1	111.0	333.0		

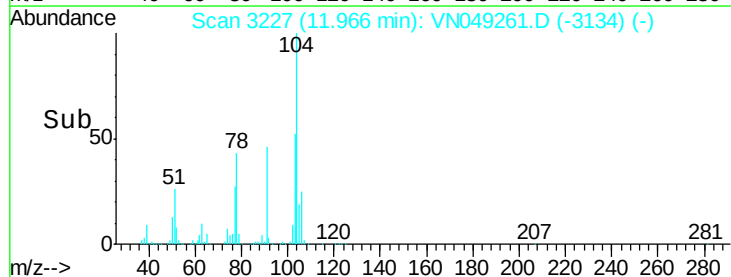
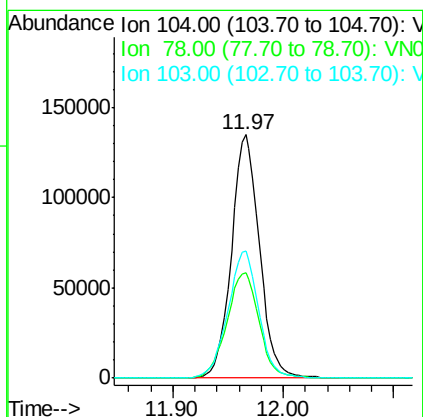
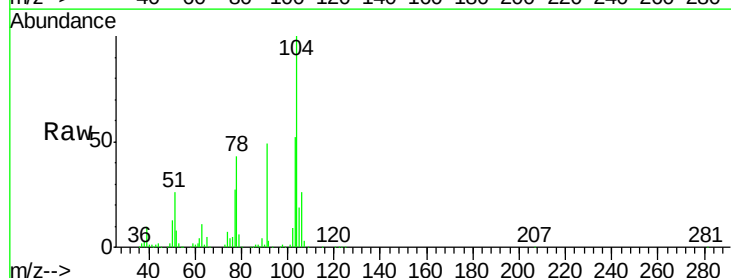
Manual Integrations
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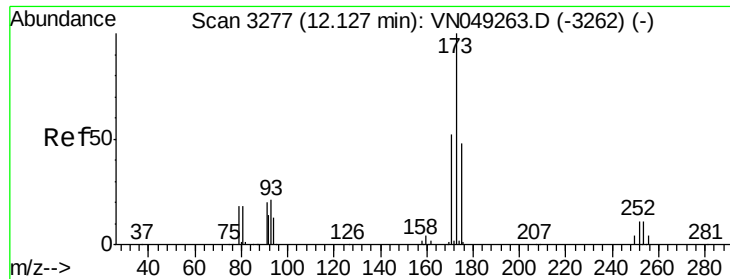
MMDadoda
6/18/2018 3:16:09 PM



#70
Styrene
Concen: 4.68 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	237832		
78	49.7	41.6	62.4		
103	57.5	45.4	68.2		





#71

Bromoform

Concen: 5.42 ug/l

RT: 12.13 min Scan# 3278

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:173 Resp: 68039

Ion Ratio Lower Upper

173 100

175 48.9 24.5 73.5

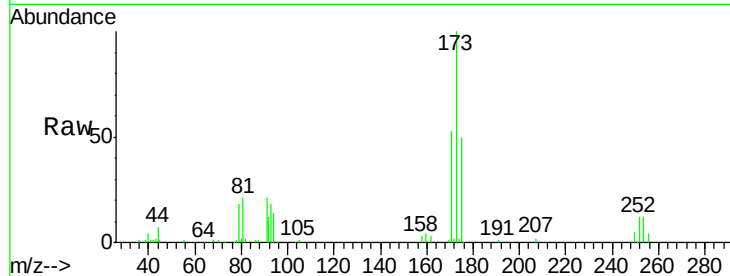
254 0.0 0.1 0.1#

Manual Integrations

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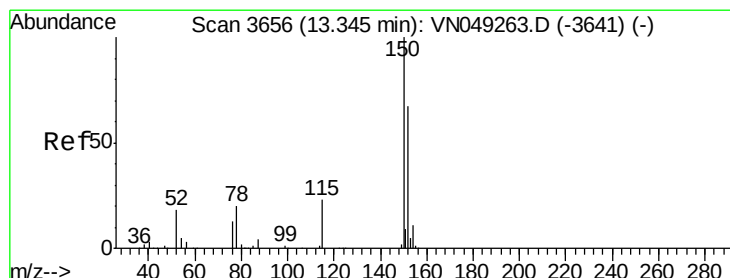
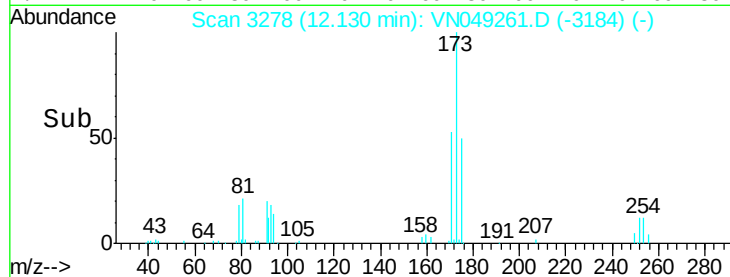
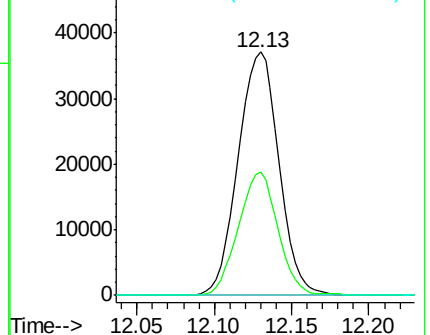
6/18/2018 3:16:09 PM



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: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

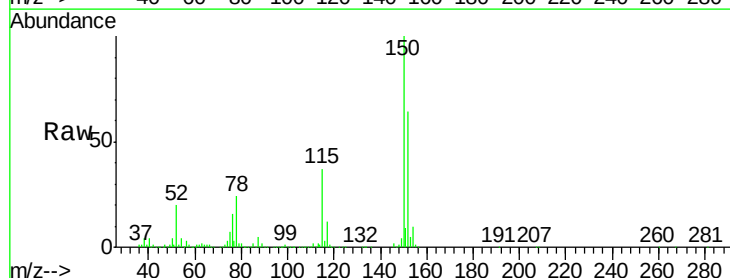
Tgt Ion:152 Resp: 823950

Ion Ratio Lower Upper

152 100

115 57.3 28.7 86.1

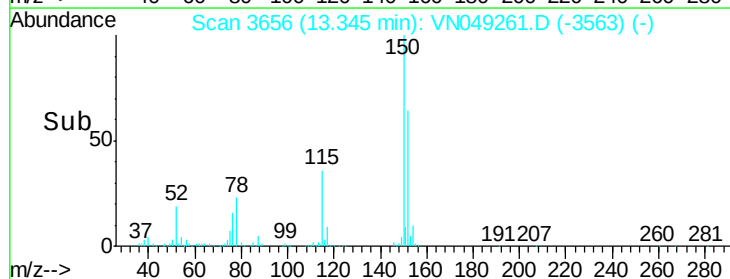
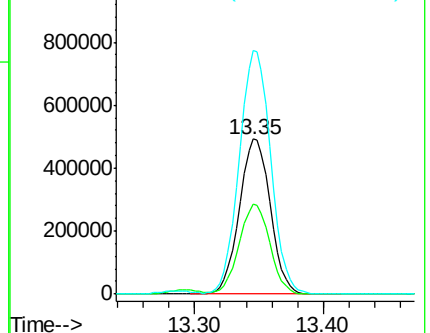
150 159.2 0.0 351.0

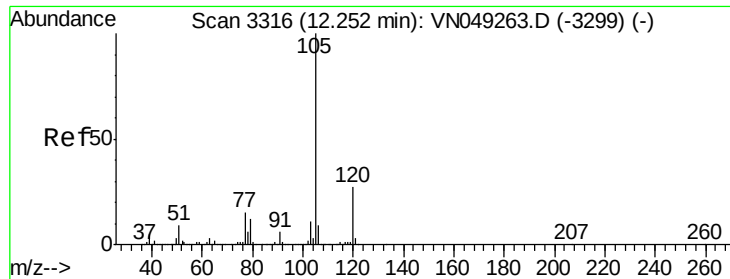


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





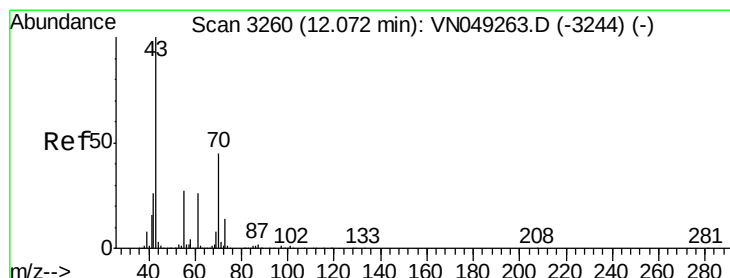
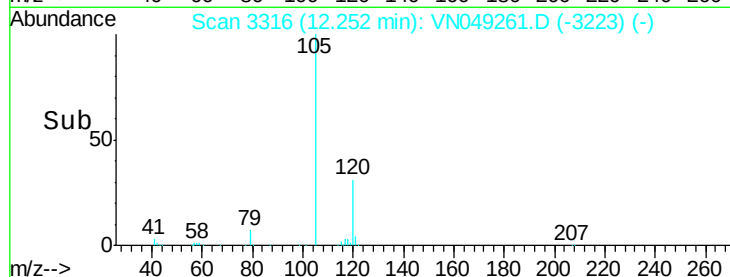
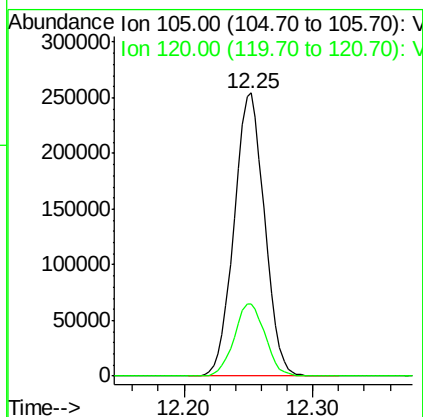
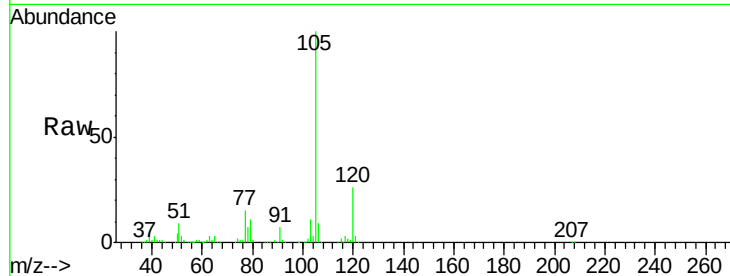
#73
Isopropylbenzene
Concen: 5.26 ug/l
RT: 12.25 min Scan# 3316
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.8	38.3

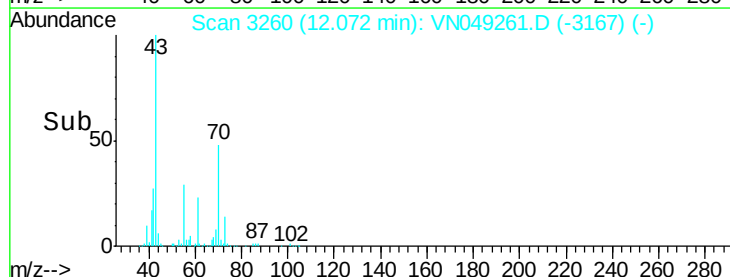
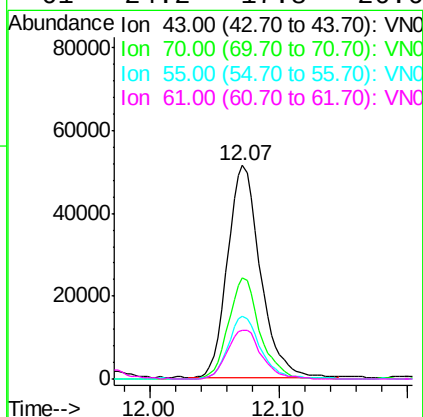
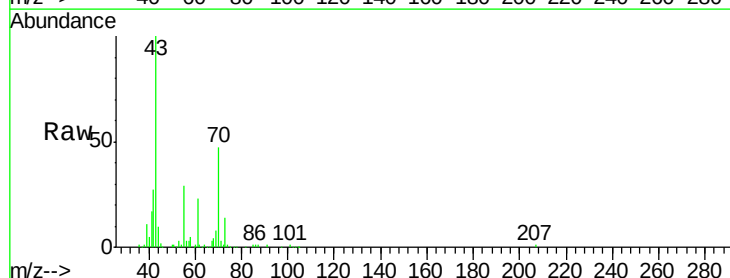
Manual Integrations
APPROVED

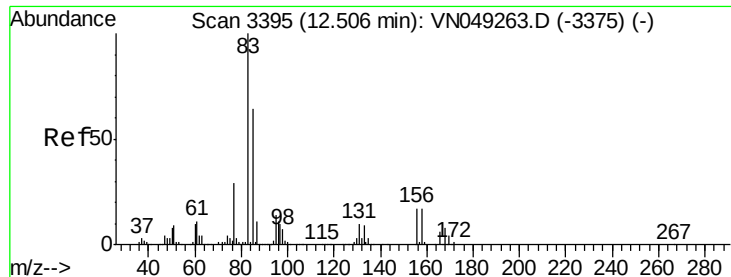
MMDadoda
6/18/2018 3:16:09 PM



#74
N-ethyl acetate
Concen: 4.01 ug/l
RT: 12.07 min Scan# 3260
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
43	100		
70	45.7	30.3	45.5#
55	29.0	19.4	29.2
61	24.2	17.8	26.6





#75

1,1,2,2-Tetrachloroethane

Concen: 5.57 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

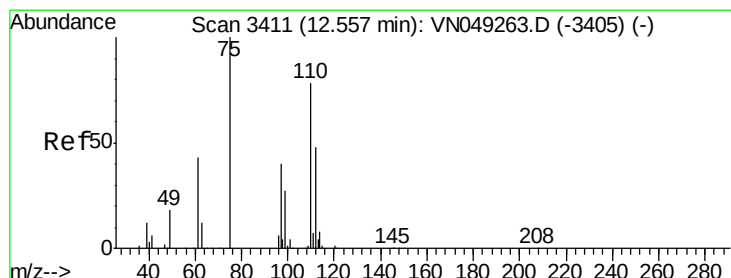
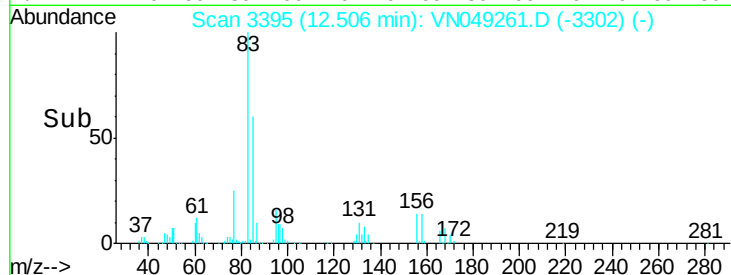
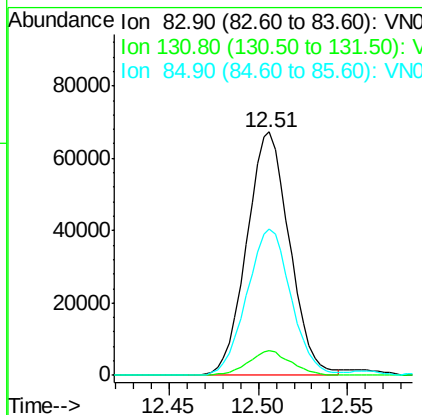
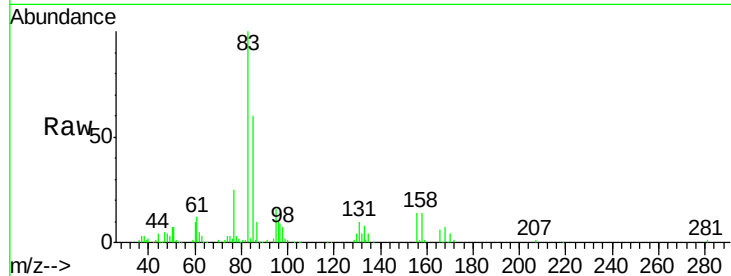
ClientSampled :

VSTDIC005

Tot Ion:	83	Resp:	112581
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.0	15.0
85	62.2	32.0	96.0

Manual Integrations
APPROVED

MMDadoda
6/18/2018 3:16:09 PM



#76

1,2,3-Trichloropropane

Concen: 4.99 ug/l m

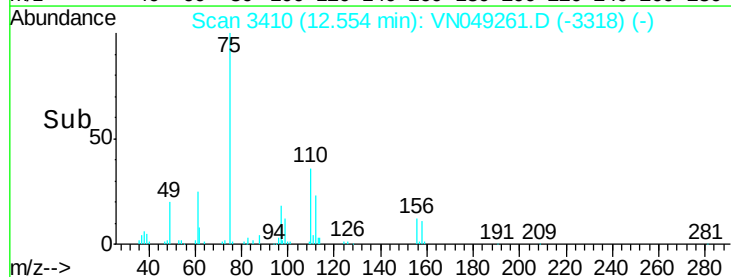
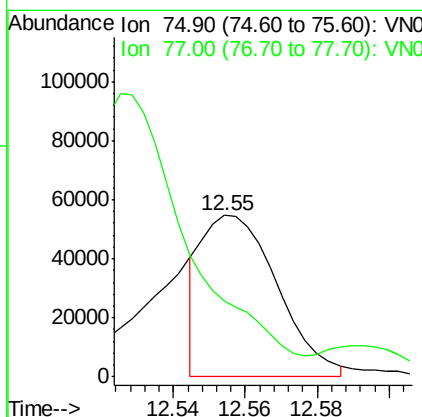
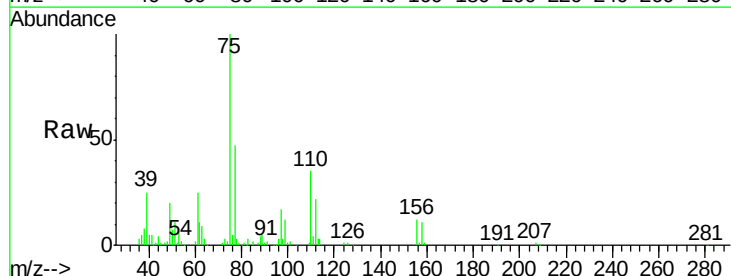
RT: 12.55 min Scan# 3410

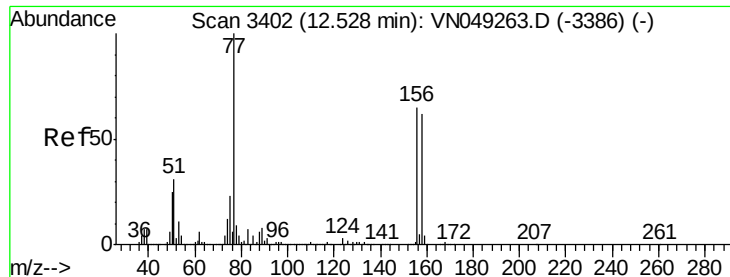
Delta R.T. -0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Tgt Ion:	75	Resp:	80297
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 5.74 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

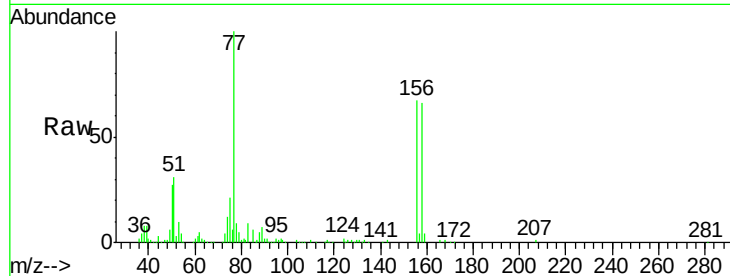
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
156	100		
77	180.3	100.8	302.4
158	98.1	49.3	147.9

Manual Integrations
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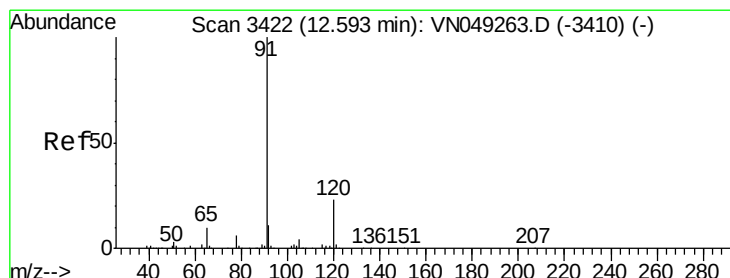
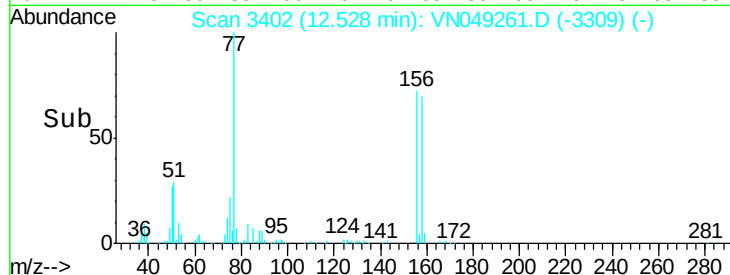
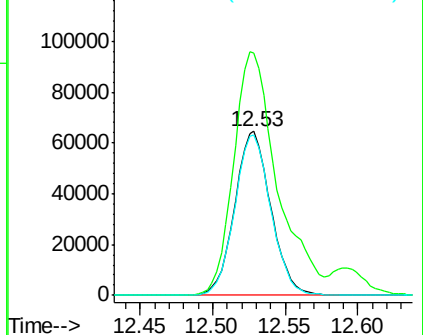
MMDadoda
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 5.00 ug/l

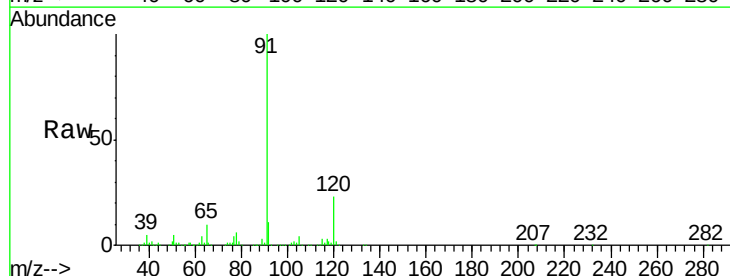
RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN049261.D

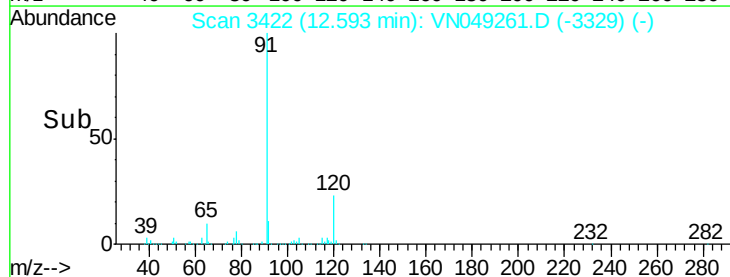
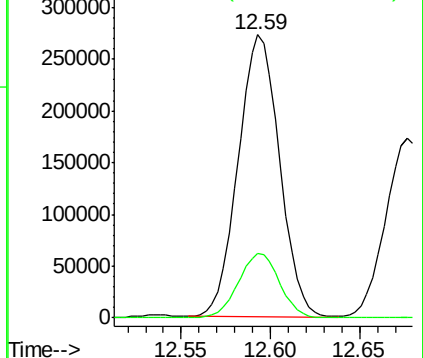
Acq: 15 Jun 2018 14:27

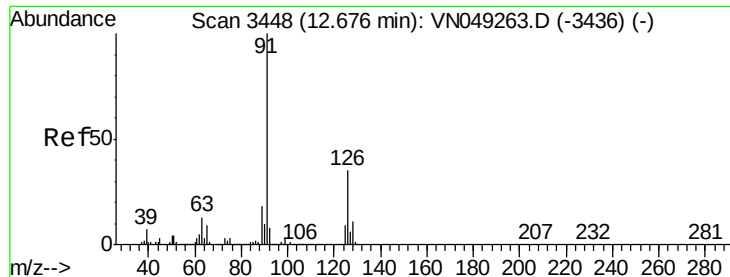
Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.2	33.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.28 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 91 Resp: 292791

Ion Ratio Lower Upper

91 100

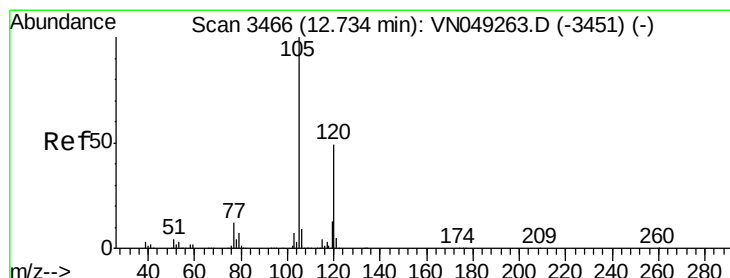
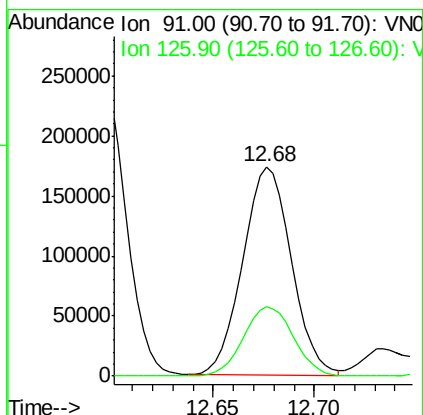
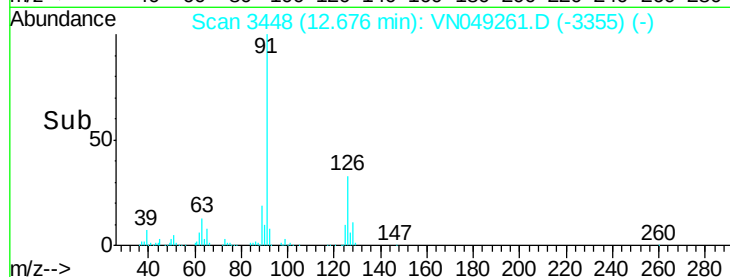
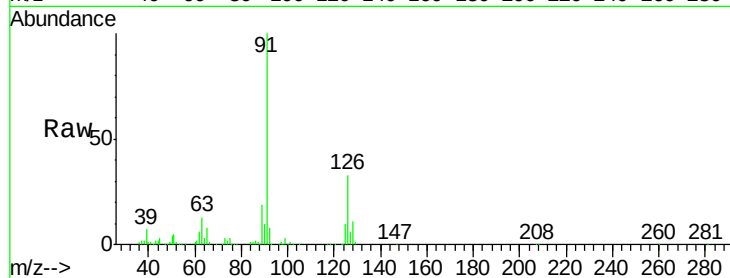
126 34.5 16.6 49.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 5.30 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049261.D

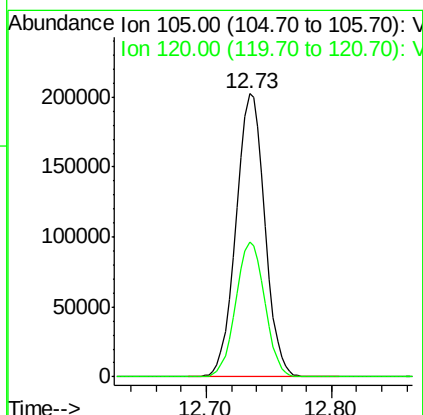
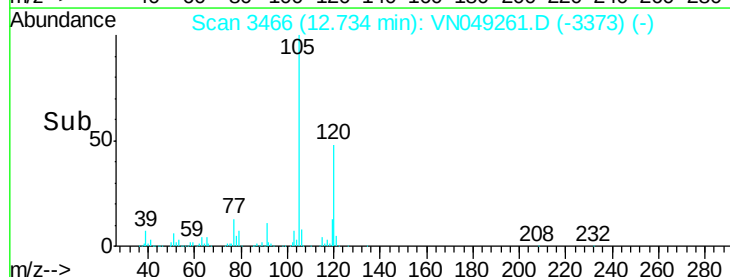
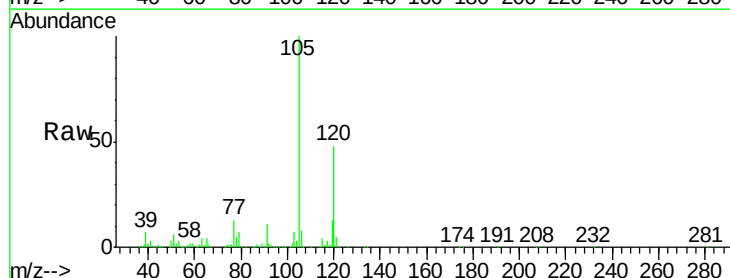
Acq: 15 Jun 2018 14:27

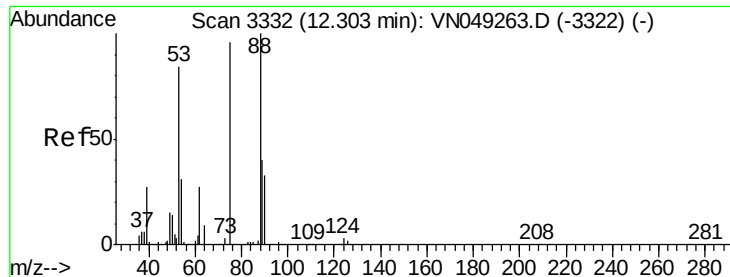
Tgt Ion: 105 Resp: 321778

Ion Ratio Lower Upper

105 100

120 48.3 23.5 70.5





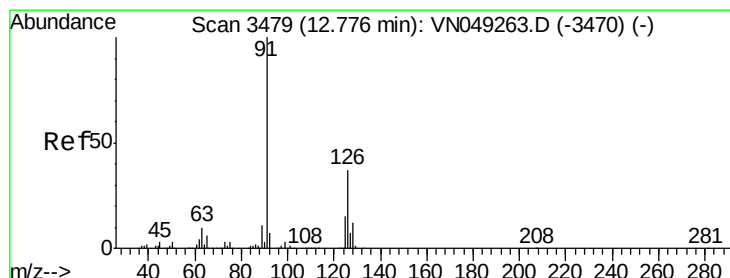
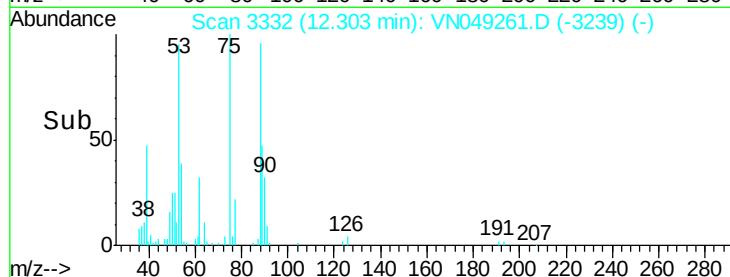
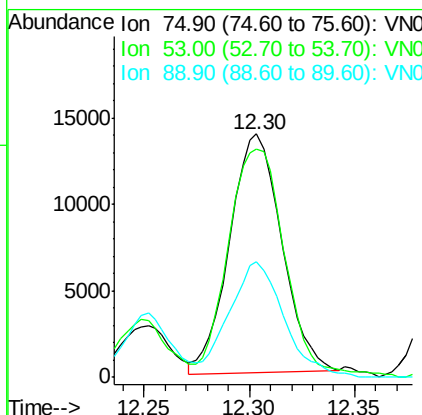
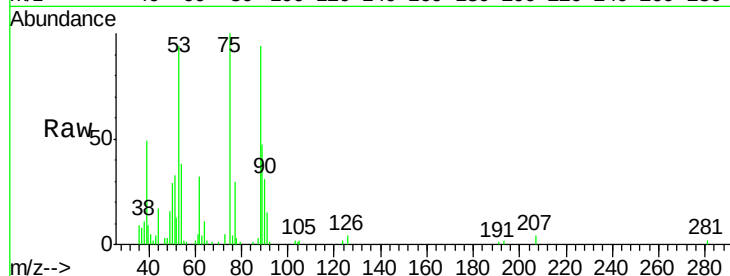
#81
trans-1,4-Dichloro-2-butene
Concen: 4.82 ug/l
RT: 12.30 min Scan# 3332
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	104.5	82.7	124.1
89	51.2	36.5	54.7

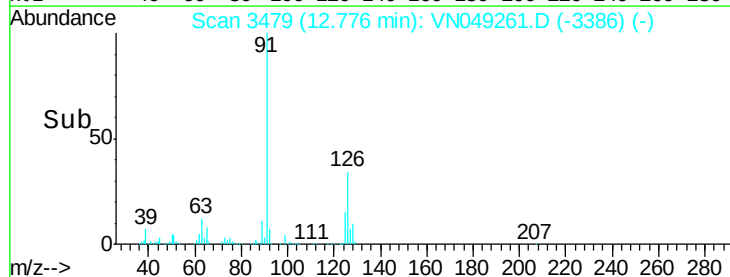
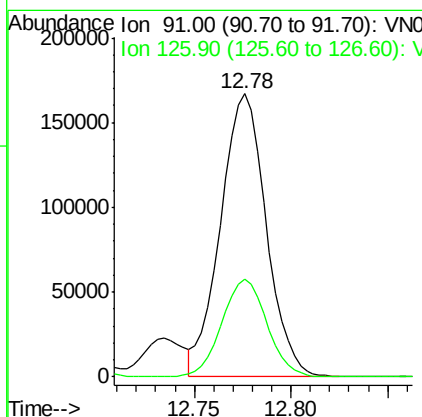
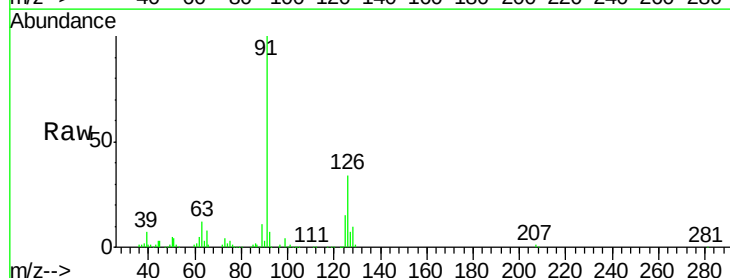
Manual Integrations
APPROVED

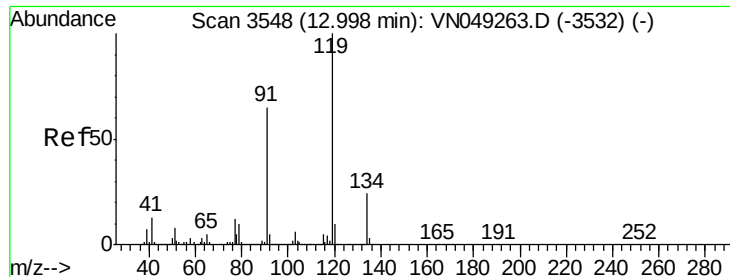
MMDadoda
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#82
4-Chlorotoluene
Concen: 5.19 ug/l
RT: 12.78 min Scan# 3479
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.2	16.4	49.1





#83

tert-Butylbenzene

Concen: 5.48 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

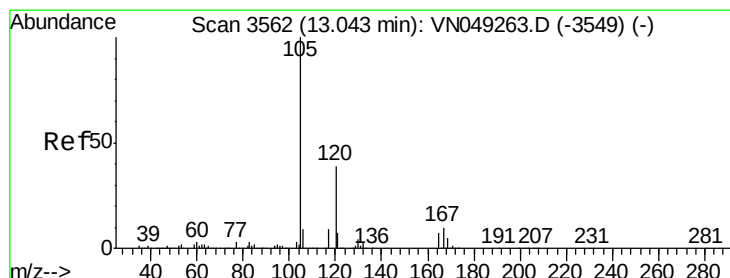
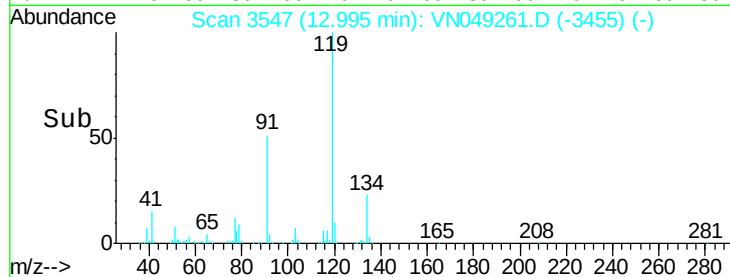
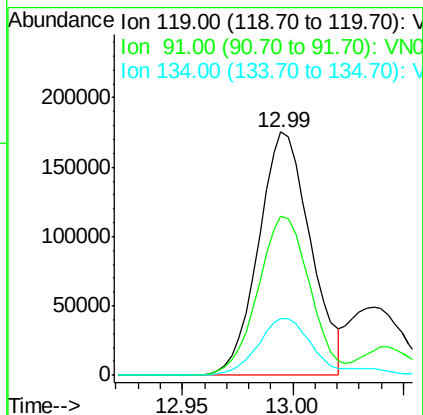
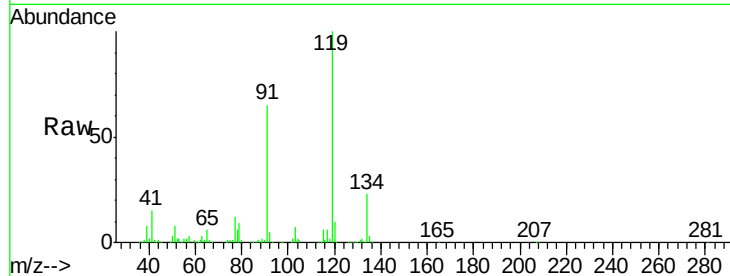
ClientSampleId :

VSTDIC005

Tot Ion:	119	Resp:	286471
Ion Ratio	Lower	Upper	
119	100		
91	65.3	33.7	101.0
134	23.8	12.9	38.6

Manual Integrations
APPROVED

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#84

1,2,4-Trimethylbenzene

Concen: 5.14 ug/l

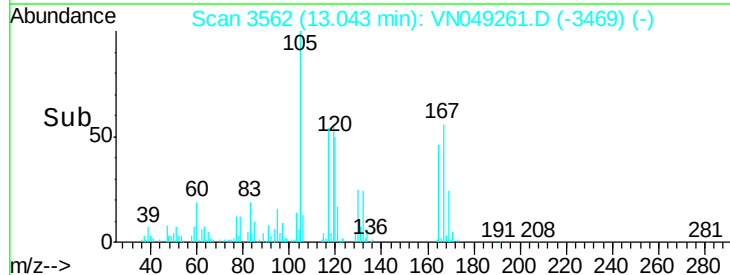
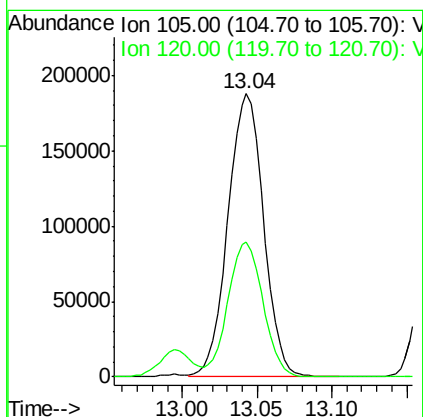
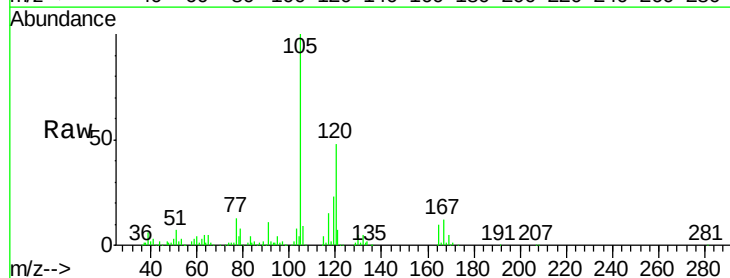
RT: 13.04 min Scan# 3562

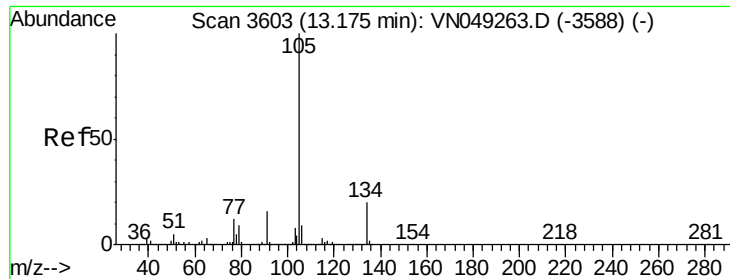
Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Tgt Ion:	105	Resp:	309999
Ion Ratio	Lower	Upper	
105	100		
120	47.1	22.2	66.6





#85

sec-Butylbenzene

Concen: 5.29 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 368871

Ion Ratio Lower Upper

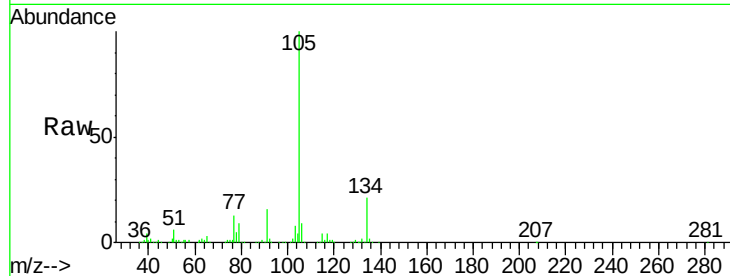
105 100

134 20.5 9.8 29.3

Manual Integrations
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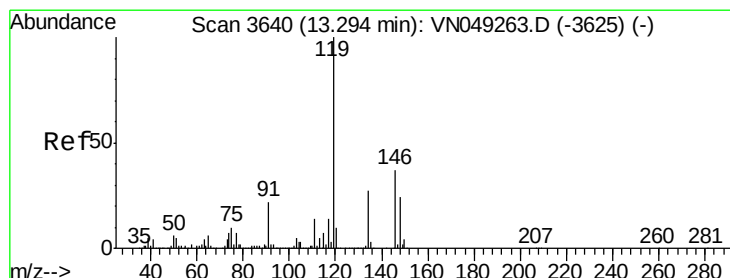
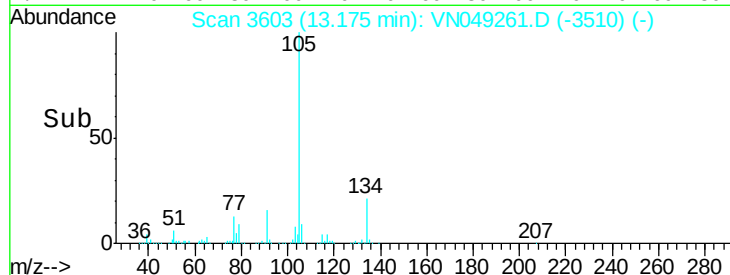
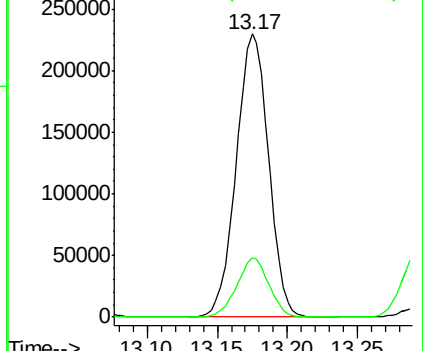
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 5.11 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

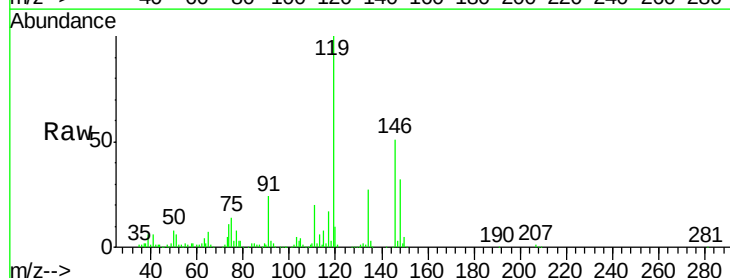
Tgt Ion:119 Resp: 288418

Ion Ratio Lower Upper

119 100

134 27.1 12.9 38.6

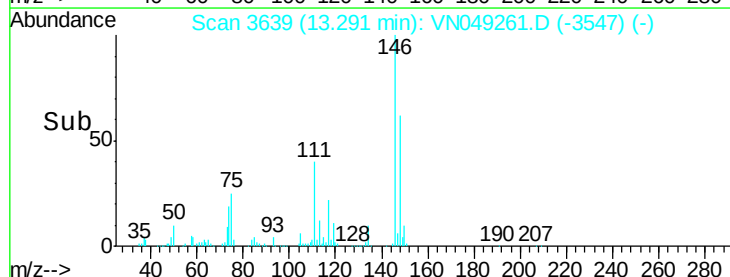
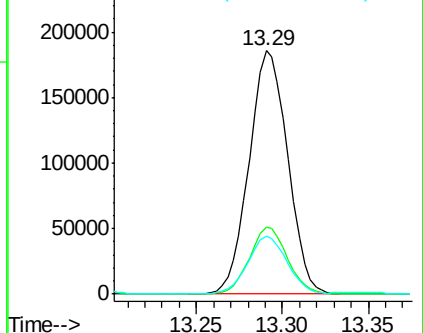
91 23.9 12.1 36.3

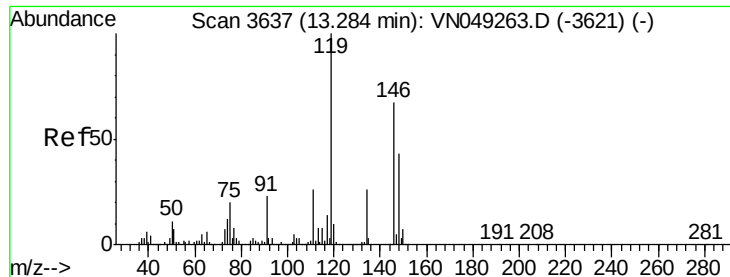


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





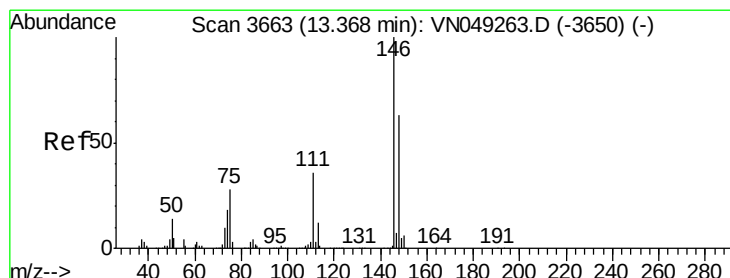
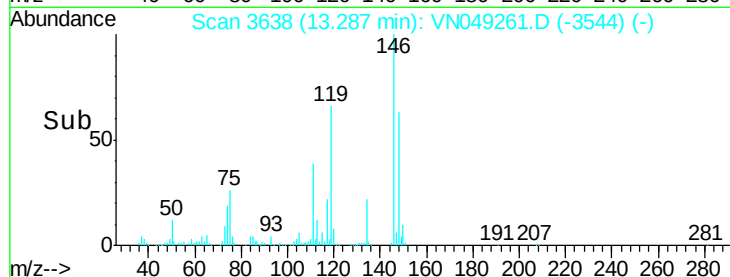
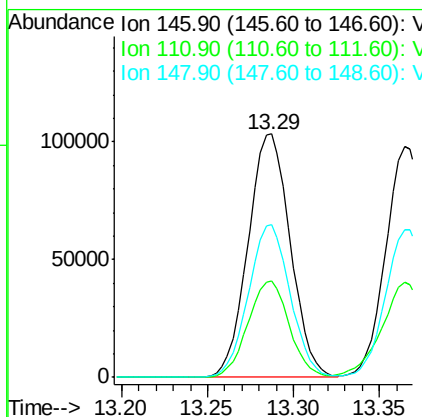
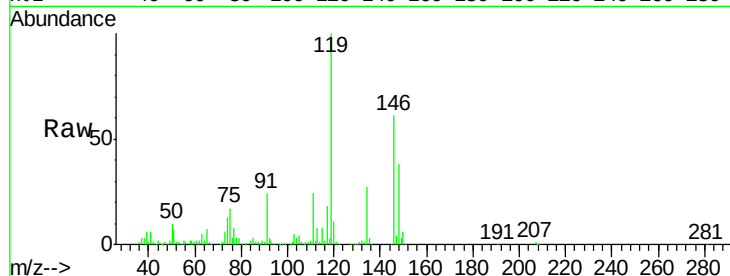
#87
 1,3-Dichlorobenzene
 Concen: 5.68 ug/l
 RT: 13.29 min Scan# 3638
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.9	59.6
148	62.0	32.1	96.5

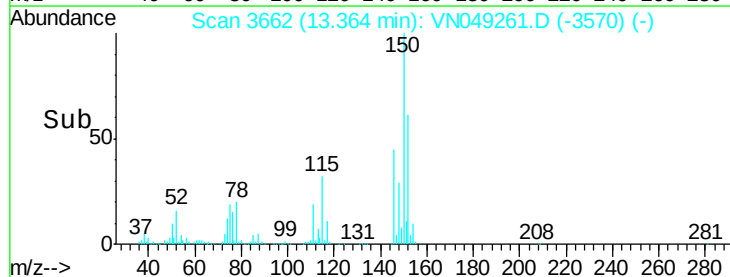
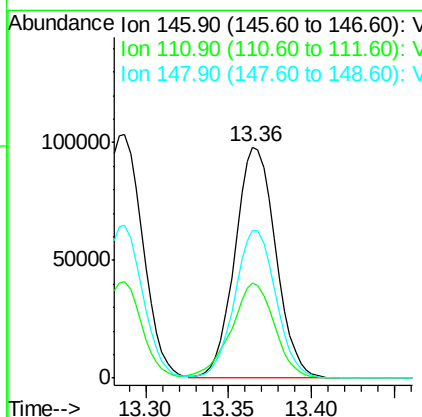
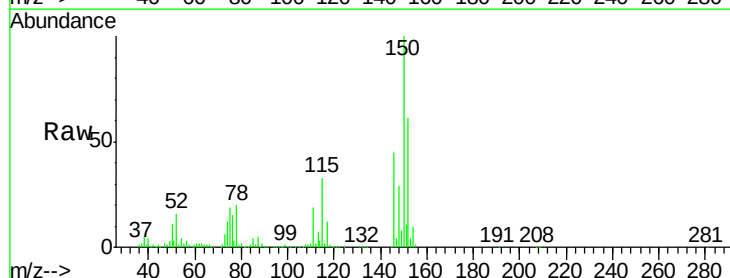
Manual Integrations
 APPROVED

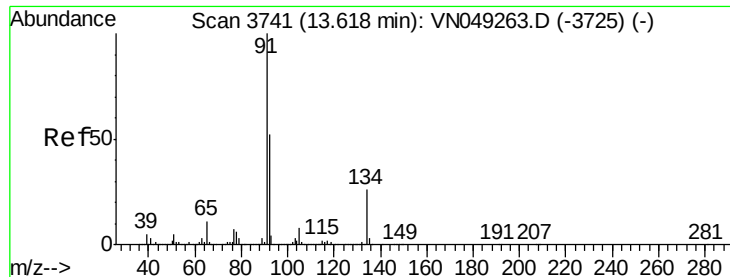
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 6/18/2018 3:16:09 PM



#88
 1,4-Dichlorobenzene
 Concen: 5.50 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.1	19.1	57.1
148	64.7	32.0	96.2





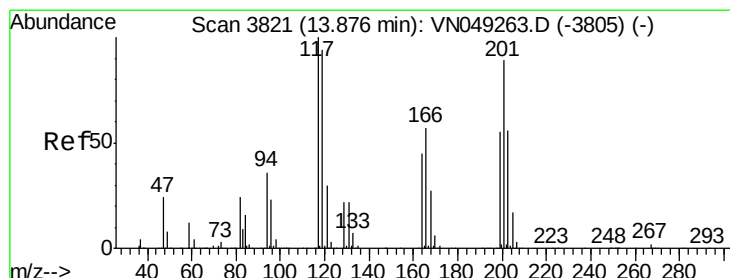
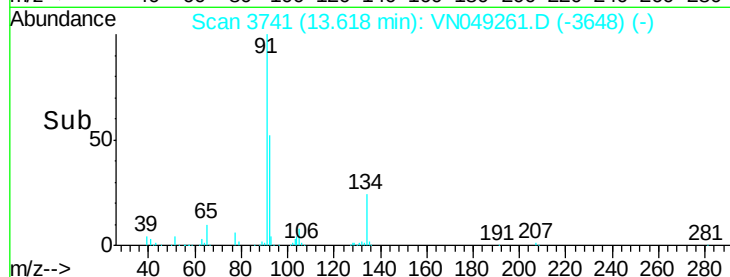
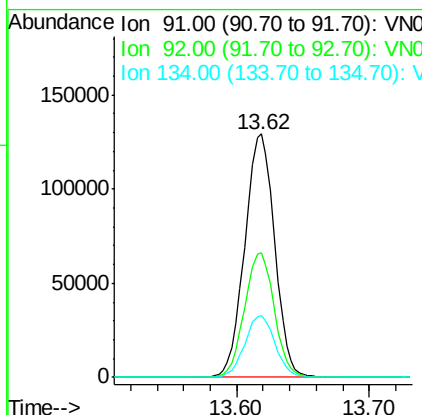
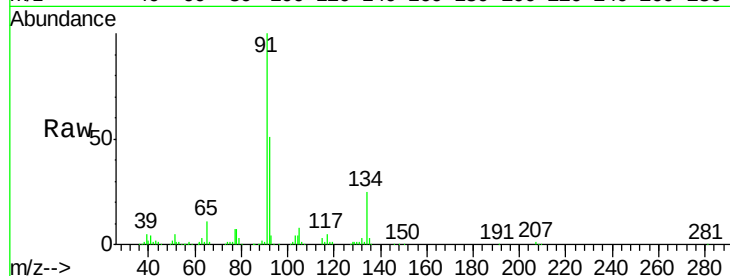
#89
n-Butylbenzene
Concen: 4.63 ug/l
RT: 13.62 min Scan# 3741
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.2	25.1	75.4
134	25.6	12.0	36.0

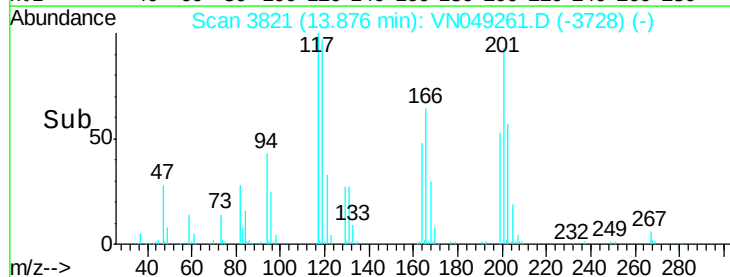
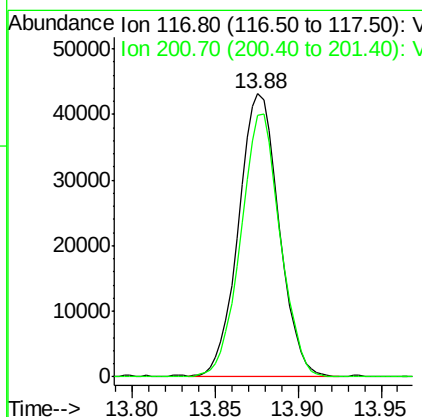
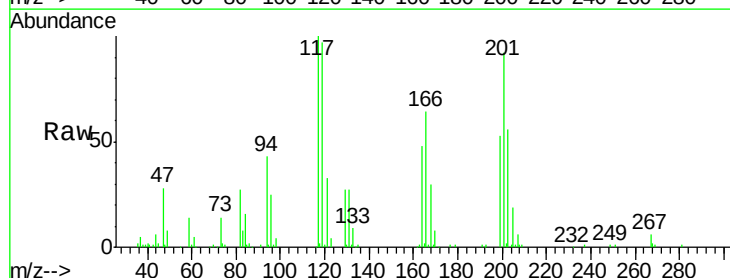
Manual Integrations
APPROVED

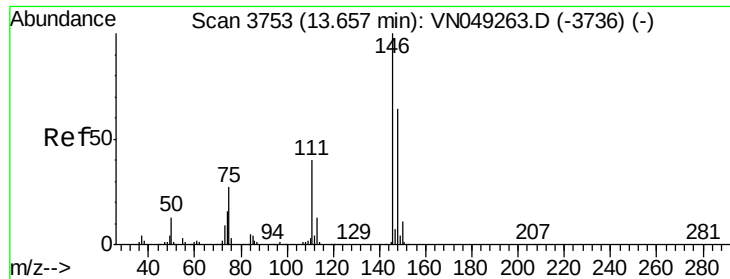
MMDadoda
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#90
Hexachloroethane
Concen: 5.50 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN049261.D
Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.2	40.1	120.2





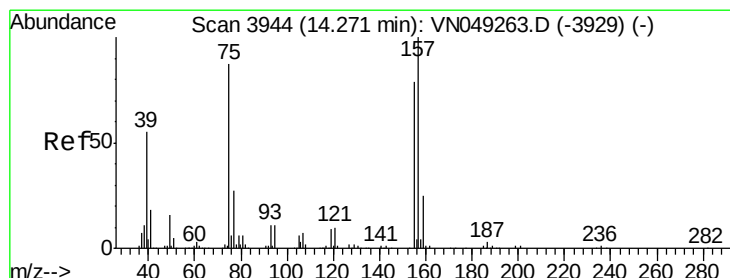
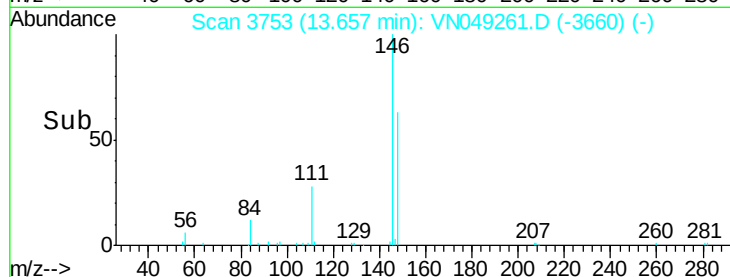
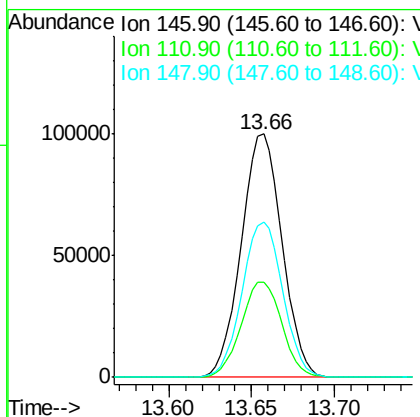
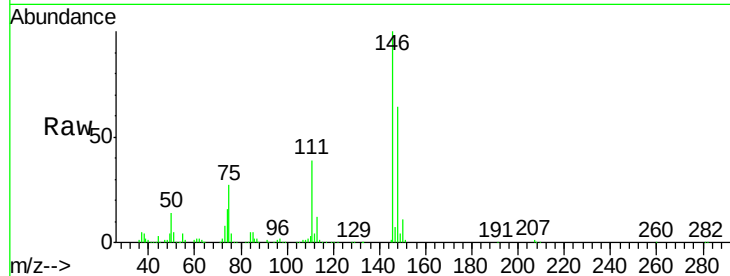
#91
 1,2-Dichlorobenzene
 Concen: 5.62 ug/l
 RT: 13.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	20.8	62.2
148	63.7	32.0	96.2

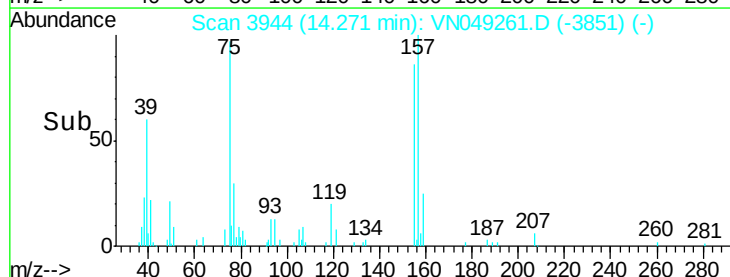
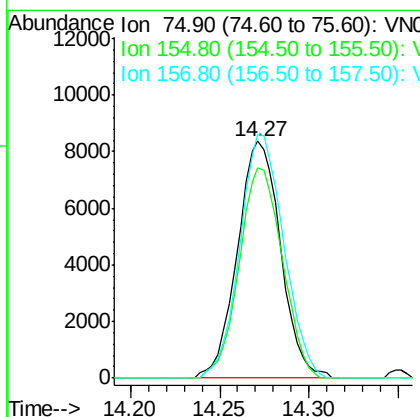
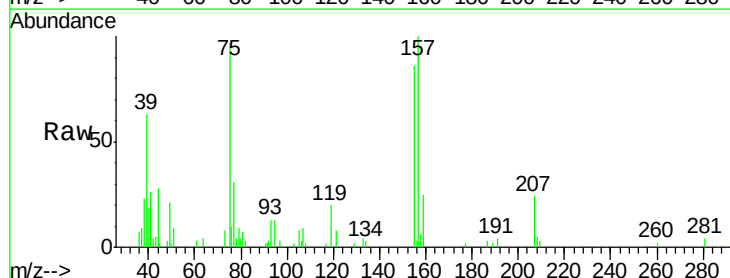
Manual Integrations
 APPROVED

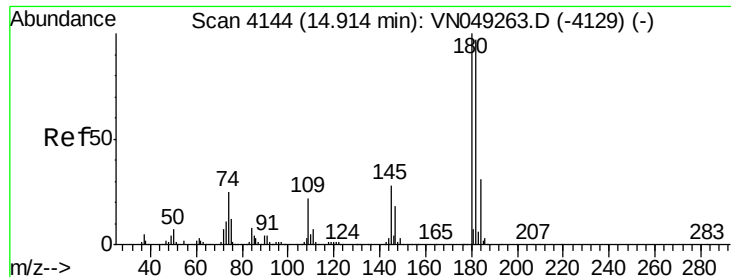
MMDadoda
 6/18/2018 3:16:09 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.11 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.0	38.8	116.3
157	105.0	51.0	153.1





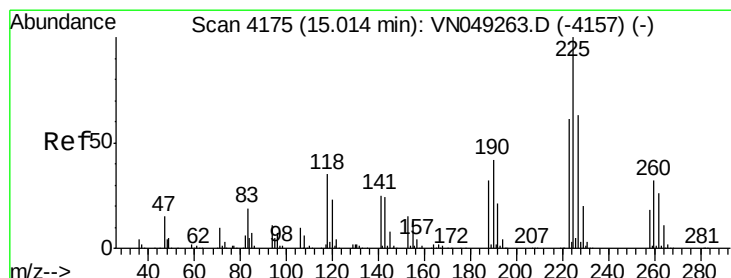
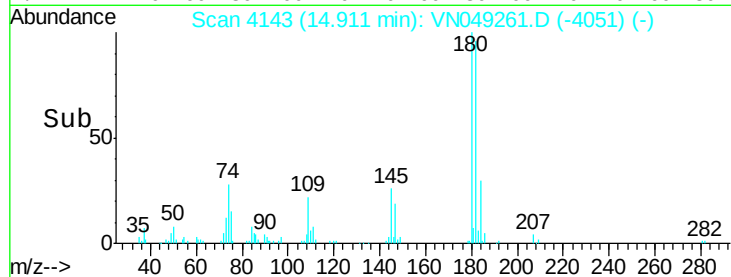
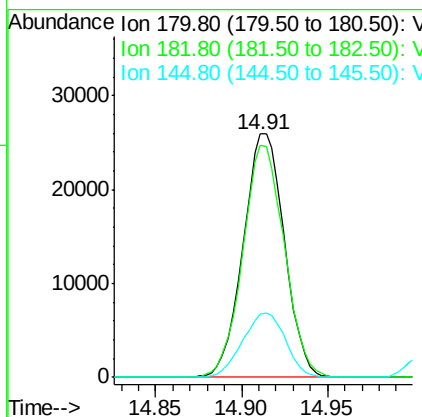
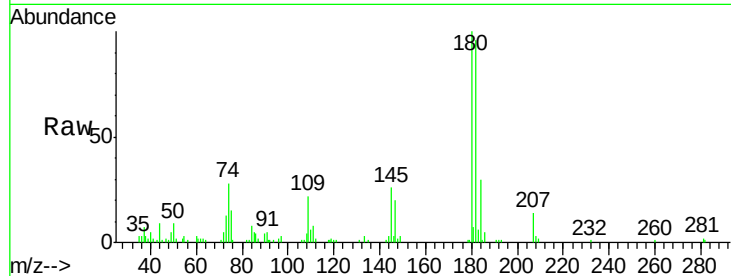
#93
 1,2,4-Trichlorobenzene
 Concen: 3.86 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	46.9	140.8
145	27.3	14.7	44.1

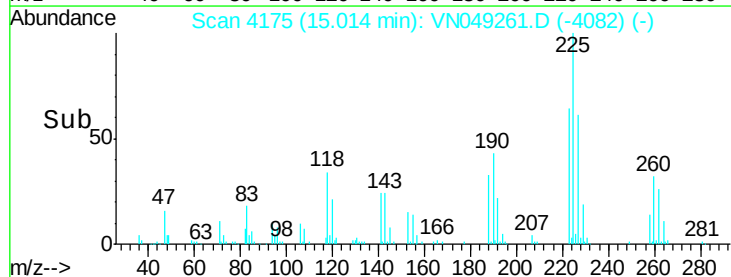
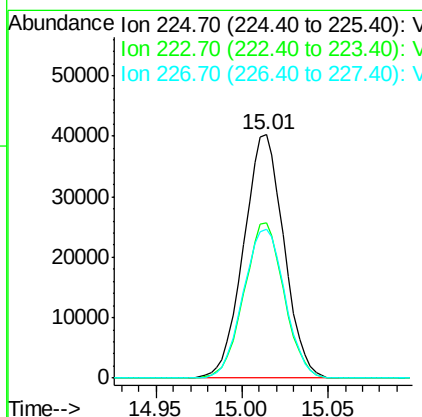
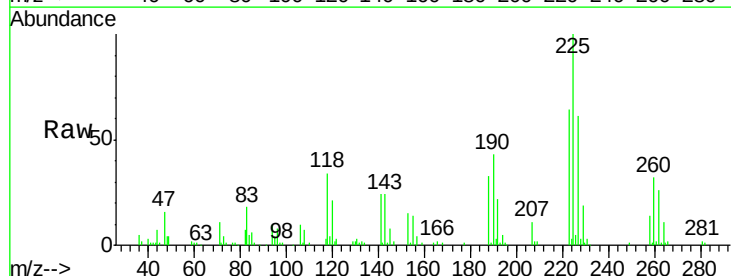
Manual Integrations
 APPROVED

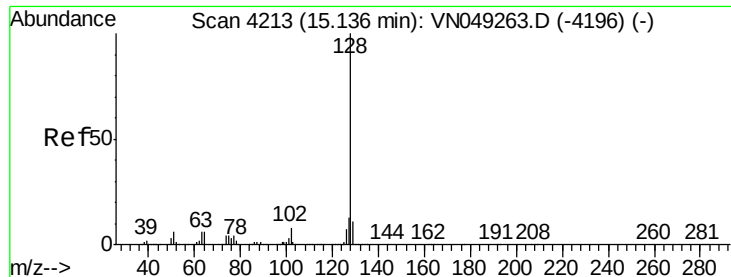
MMDadoda
 6/18/2018 3:16:09 PM



#94
 Hexachlorobutadiene
 Concen: 7.10 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN049261.D
 Acq: 15 Jun 2018 14:27

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	32.1	96.3
227	63.2	31.8	95.3





#95

Naphthalene

Concen: 3.76 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Instrument :

MSVOA_N

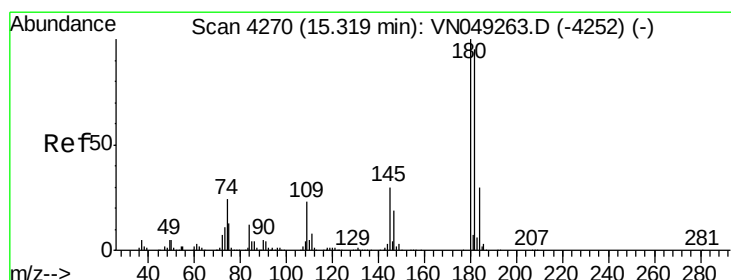
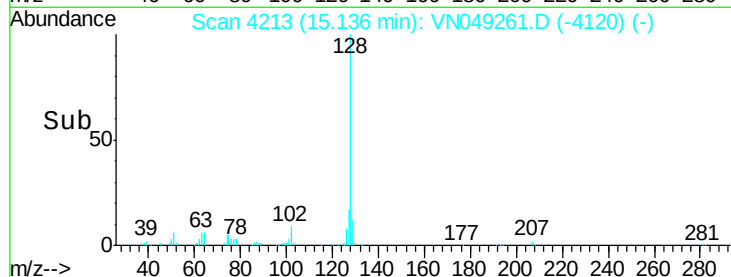
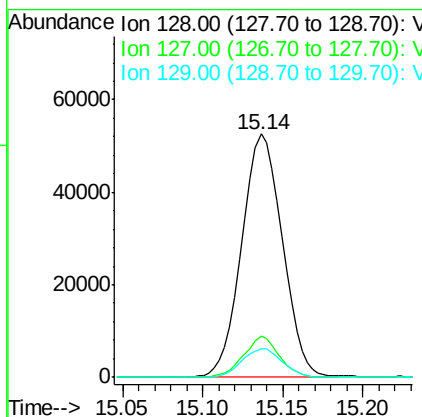
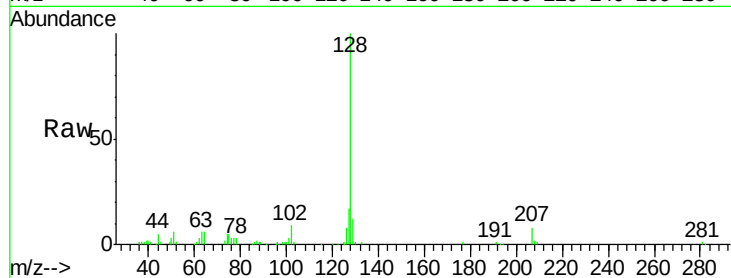
ClientSampleId :

VSTDIC005

Tot Ion:	128	Resp:	91491
Ion Ratio	Lower	Upper	
128	100		
127	14.9	10.6	16.0
129	11.6	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
6/18/2018 3:16:09 PM



#96

1,2,3-Trichlorobenzene

Concen: 4.33 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN049261.D

Acq: 15 Jun 2018 14:27

Tgt Ion:	180	Resp:	52112
Ion Ratio	Lower	Upper	
180	100		
182	94.3	47.3	141.8
145	27.8	15.6	46.7

