

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081919\
 Data File : VN057416.D
 Acq On : 19 Aug 2019 22:48
 Operator : JC/SP
 Sample : VN0819WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBS02

Manual Integrations
 APPROVED

MMDadoda
 8/21/2019 9:45:33 AM

Quant Time: Aug 20 09:02:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 15 11:33:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	814085	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1212998	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	1086023	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	394813	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	426702	48.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.42%	
35) Dibromofluoromethane	7.58	113	393019	49.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.86%	
50) Toluene-d8	10.08	98	1433623	49.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.58%	
62) 4-Bromofluorobenzene	12.40	95	460865	44.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.68%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	130397	18.614	ug/l	98
3) Chloromethane	2.05	50	142767	17.267	ug/l	100
4) Vinyl Chloride	2.18	62	142003	18.255	ug/l	99
5) Bromomethane	2.54	94	113998m	20.559	ug/l	
6) Chloroethane	2.69	64	99924	18.675	ug/l	100
7) Trichlorofluoromethane	3.02	101	237095	19.431	ug/l	98
8) Diethyl Ether	3.40	74	86960	18.935	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	140311	19.572	ug/l	98
10) Methyl Iodide	3.95	142	233207	20.352	ug/l	97
11) Tert butyl alcohol	4.76	59	112852	89.696	ug/l	99
12) 1,1-Dichloroethene	3.73	96	139117	19.477	ug/l	99
13) Acrolein	3.60	56	39745	52.037	ug/l	97
14) Allyl chloride	4.31	41	203608	17.783	ug/l	97
15) Acrylonitrile	4.97	53	317912	93.072	ug/l	100
16) Acetone	3.80	43	241348	78.614	ug/l	99
17) Carbon Disulfide	4.05	76	338890	17.611	ug/l	99
18) Methyl Acetate	4.31	43	179929	20.507	ug/l	98
19) Methyl tert-butyl Ether	5.03	73	448250	20.000	ug/l	100
20) Methylene Chloride	4.54	84	165695	19.290	ug/l	92
21) trans-1,2-Dichloroethene	5.03	96	150446	19.586	ug/l	96
22) Diisopropyl ether	5.94	45	435744	19.266	ug/l	99
23) Vinyl Acetate	5.88	43	1654260	90.879	ug/l	98
24) 1,1-Dichloroethane	5.83	63	268304	19.281	ug/l	99
25) 2-Butanone	6.82	43	387153	87.084	ug/l	95
26) 2,2-Dichloropropane	6.82	77	185063	16.456	ug/l	98
27) cis-1,2-Dichloroethene	6.82	96	179003	19.685	ug/l	96
28) Bromochloromethane	7.19	49	114014	18.441	ug/l	92
29) Tetrahydrofuran	7.20	42	254709	90.531	ug/l	97
30) Chloroform	7.36	83	289751	19.870	ug/l	98
31) Cyclohexane	7.64	56	220660	18.299	ug/l	93
32) 1,1,1-Trichloroethane	7.56	97	253154	20.640	ug/l	98
36) 1,1-Dichloropropene	7.78	75	203015	18.956	ug/l	99
37) Ethyl Acetate	6.91	43	163365	18.624	ug/l	99
38) Carbon Tetrachloride	7.76	117	219981	19.769	ug/l	99

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 Quant Title : SW846 8260
 QLast Update : Thu Aug 15 11:33:14 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	226579	18.118	ug/l	97
40) Benzene	8.03	78	634926	19.382	ug/l	99
41) Methacrylonitrile	7.17	41	80795m	20.453	ug/l	
42) 1,2-Dichloroethane	8.12	62	210037	19.373	ug/l	100
43) Isopropyl Acetate	8.15	43	300687	18.022	ug/l	93
44) Trichloroethene	8.83	130	183580	19.933	ug/l	96
45) 1,2-Dichloropropane	9.11	63	163065	19.312	ug/l	98
46) Dibromomethane	9.20	93	110613	19.637	ug/l	97
47) Bromodichloromethane	9.40	83	222333	19.921	ug/l	96
48) Methyl methacrylate	9.19	41	134069	18.560	ug/l	99
49) 1,4-Dioxane	9.19	88	55027	362.242	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	818527	90.450	ug/l	99
52) Toluene	10.15	92	404792	19.853	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	229107	18.978	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	257205	19.321	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	160643	20.037	ug/l	99
56) Ethyl methacrylate	10.43	69	223504	19.102	ug/l	98
57) 1,3-Dichloropropane	10.70	76	261441	19.520	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	215888	74.697	ug/l	99
59) 2-Hexanone	10.75	43	567783	87.271	ug/l	98
60) Dibromochloromethane	10.90	129	185769	20.676	ug/l	98
61) 1,2-Dibromoethane	11.00	107	171403	20.069	ug/l	100
64) Tetrachloroethene	10.63	164	194084	20.673	ug/l	98
65) Chlorobenzene	11.43	112	442918	19.996	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	176783	20.840	ug/l	99
67) Ethyl Benzene	11.51	91	754808	19.478	ug/l	99
68) m/p-Xylenes	11.62	106	563776	39.486	ug/l	99
69) o-Xylene	11.95	106	279957	19.970	ug/l	98
70) Styrene	11.96	104	444797	19.904	ug/l	99
71) Bromoform	12.13	173	139836	20.895	ug/l #	100
73) Isopropylbenzene	12.25	105	741713	21.707	ug/l	98
74) N-amyl acetate	12.07	43	201982	17.630	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	209187	21.265	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	171367m	20.963	ug/l	
77) Bromobenzene	12.53	156	201515	22.631	ug/l	94
78) n-propylbenzene	12.59	91	730299	19.209	ug/l	98
79) 2-Chlorotoluene	12.67	91	476273	21.571	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	610488	21.671	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	58876	18.184	ug/l	99
82) 4-Chlorotoluene	12.77	91	416718	18.497	ug/l	96
83) tert-Butylbenzene	12.99	119	550936	21.901	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	575668	20.244	ug/l	98
85) sec-Butylbenzene	13.17	105	639068	20.504	ug/l	99
86) p-Isopropyltoluene	13.29	119	565477	19.423	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	274340	19.832	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	252518	19.230	ug/l	99
89) n-Butylbenzene	13.62	91	425132	20.483	ug/l	100
90) Hexachloroethane	13.88	117	116186	22.167	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	261569	20.284	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	24243	17.219	ug/l	97

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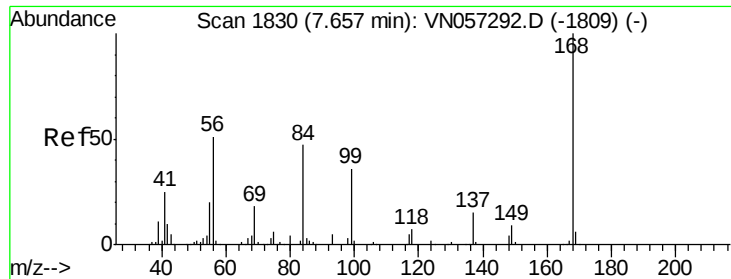
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	62429	16.165	ug/l	98
94) Hexachlorobutadiene	15.01	225	121756	22.105	ug/l	97
95) Naphthalene	15.13	128	125753	19.708	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	60937	19.334	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBS02

Tot Ion:168 Resp: 814085

Ion Ratio Lower Upper

168 100

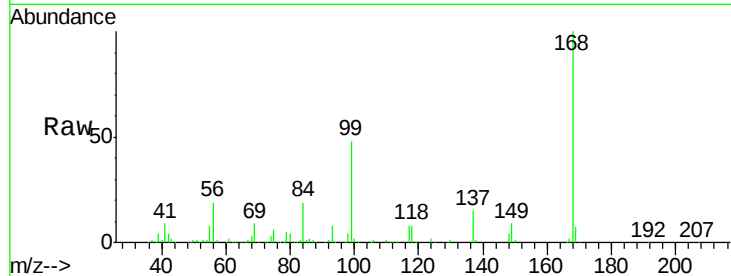
99 47.9 39.4 59.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

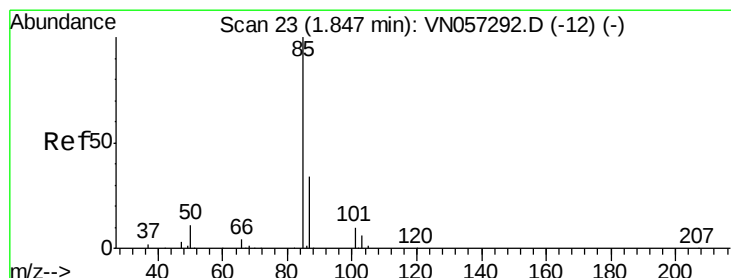
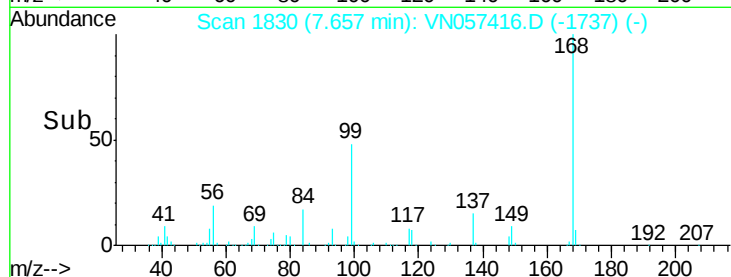
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 18.614 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN057416.D

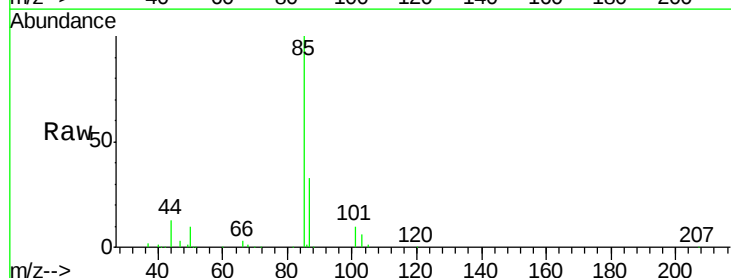
Acq: 19 Aug 2019 22:48

Tgt Ion: 85 Resp: 130397

Ion Ratio Lower Upper

85 100

87 32.9 16.9 50.7



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.85

100000

80000

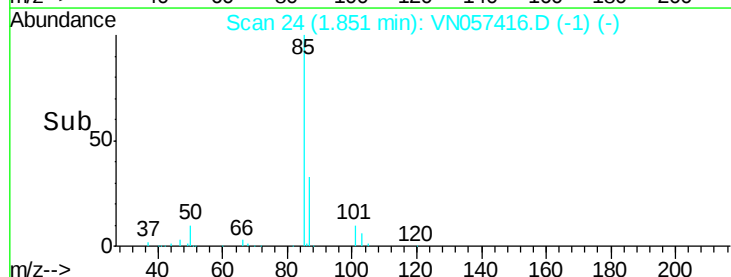
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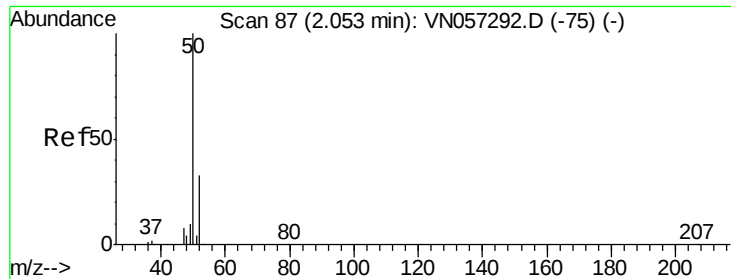
40000

20000

0

Time-->





#3

Chloromethane

Concen: 17.267 ug/l

RT: 2.05 min Scan# 87

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBS02

Tot Ion: 50 Resp: 142767

Ion Ratio Lower Upper

50 100

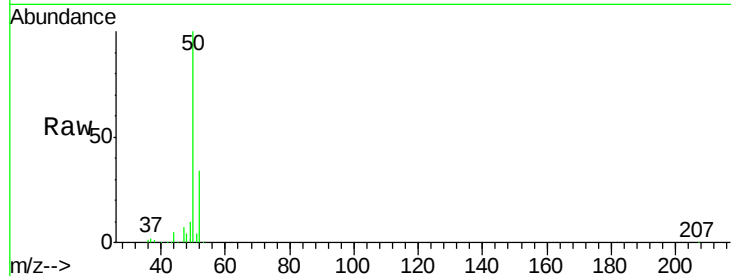
52 33.8 26.8 40.2

Manual Integrations

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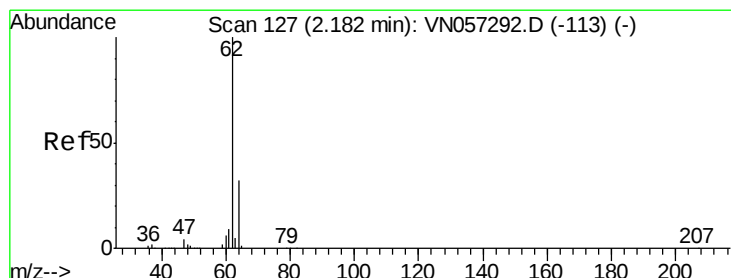
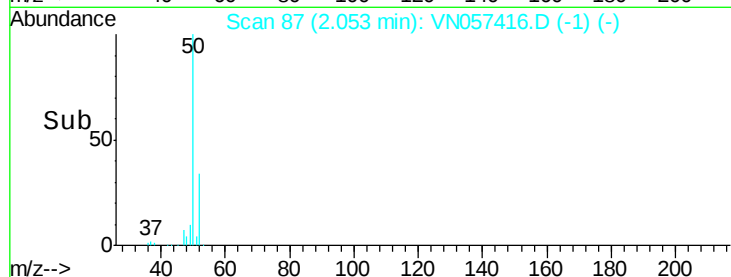
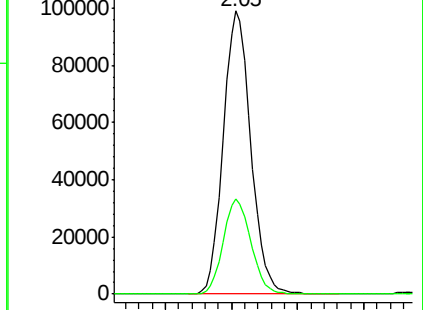
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 18.255 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN057416.D

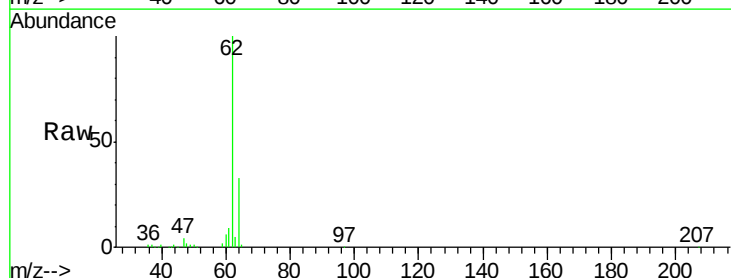
Acq: 19 Aug 2019 22:48

Tgt Ion: 62 Resp: 142003

Ion Ratio Lower Upper

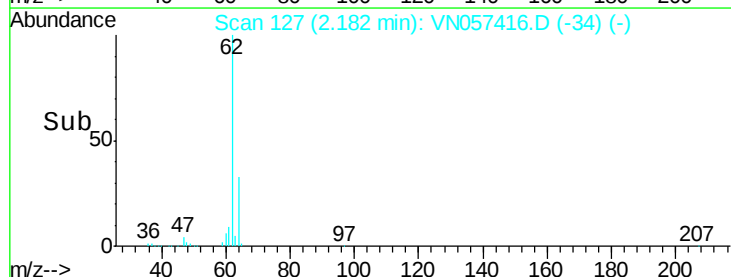
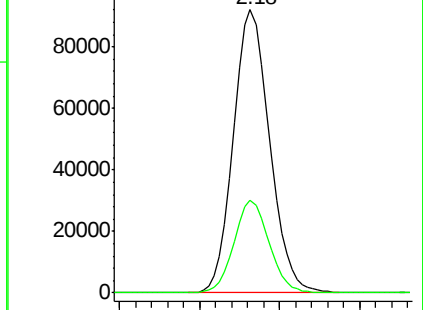
62 100

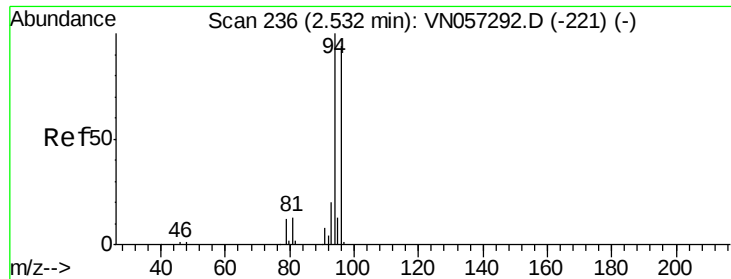
64 32.7 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 20.559 ug/l m

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

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ClientSampleId :

VN0819WBS02

Tot Ion: 94 Resp: 113998

Ion Ratio Lower Upper

94 100

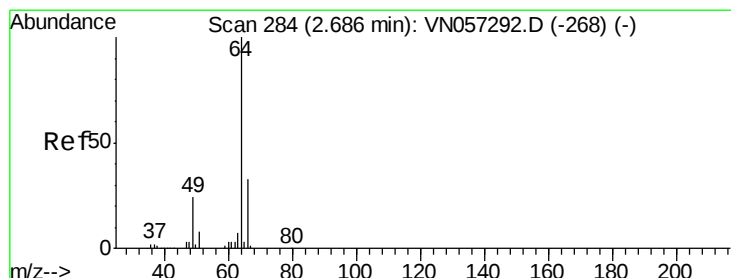
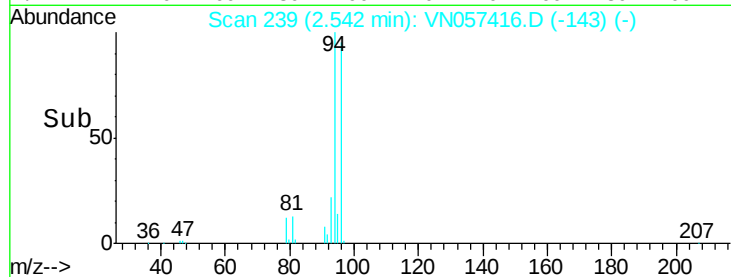
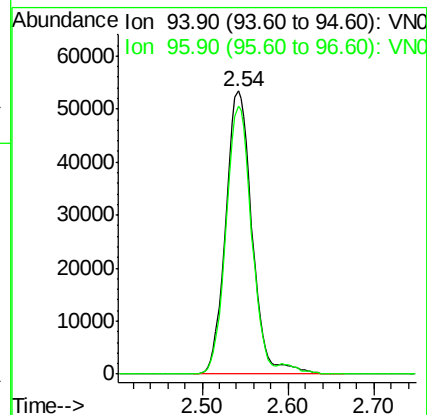
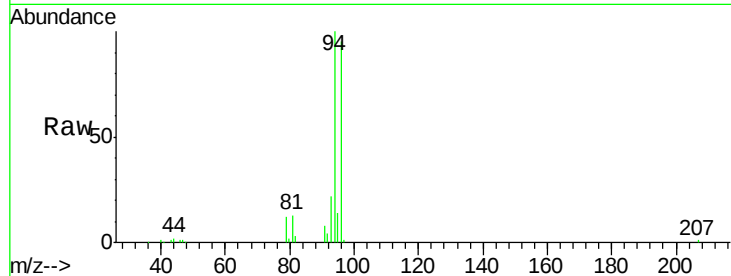
96 94.7 75.0 112.6

Manual Integrations

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#6

Chloroethane

Concen: 18.675 ug/l

RT: 2.69 min Scan# 286

Delta R.T. 0.01 min

Lab File: VN057416.D

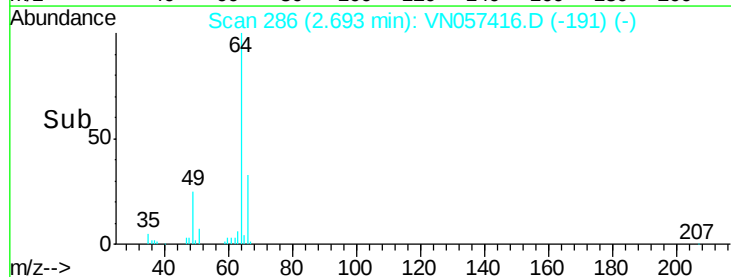
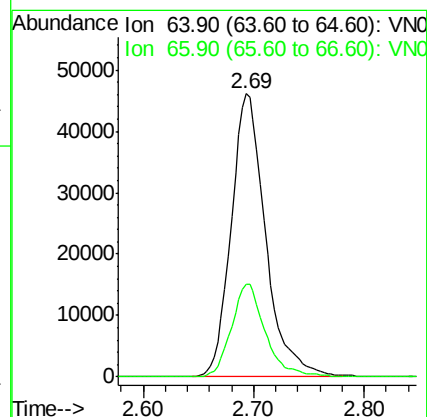
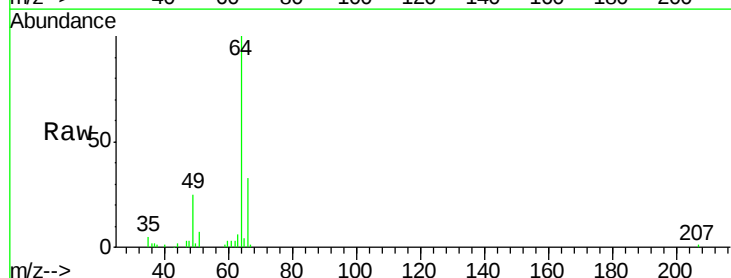
Acq: 19 Aug 2019 22:48

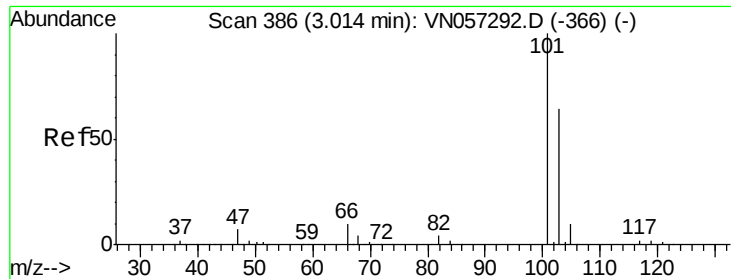
Tgt Ion: 64 Resp: 99924

Ion Ratio Lower Upper

64 100

66 33.0 26.4 39.6





#7

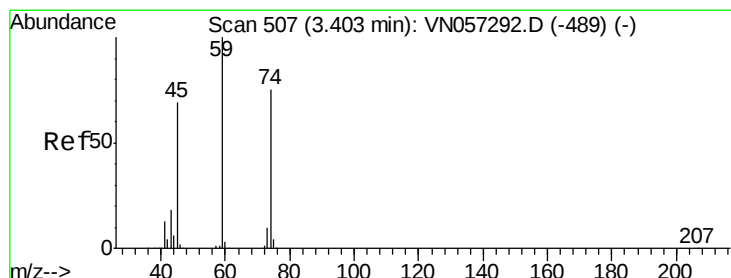
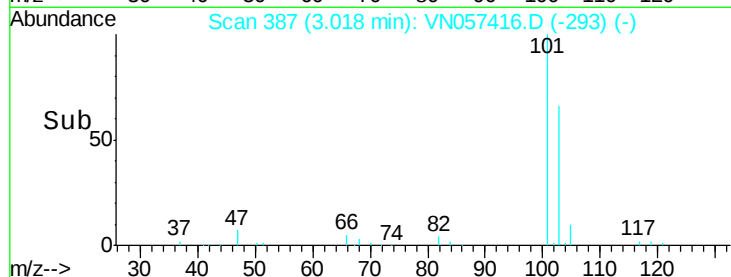
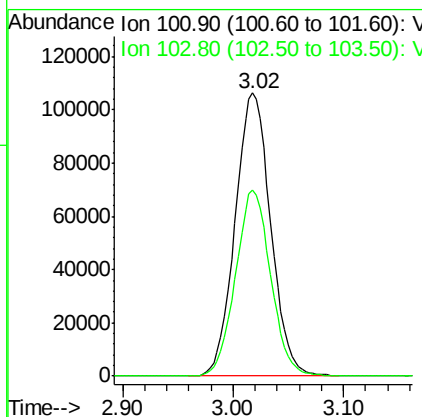
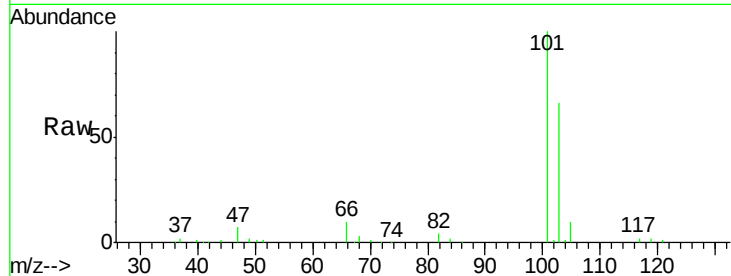
Trichlorofluoromethane
 Concen: 19.431 ug/l
 RT: 3.02 min Scan# 387
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

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 VN0819WBS02

Tot Ion	Ratio	Resp	Lower	Upper
101	100	237095		
103	65.7	51.5	77.3	

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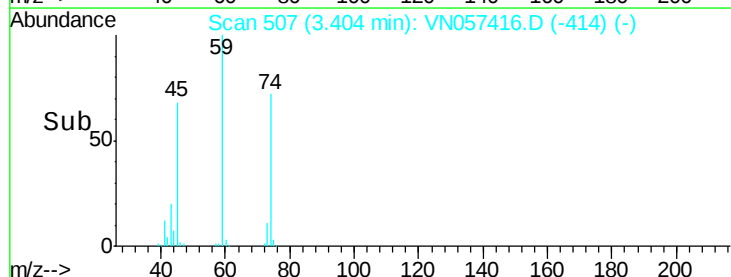
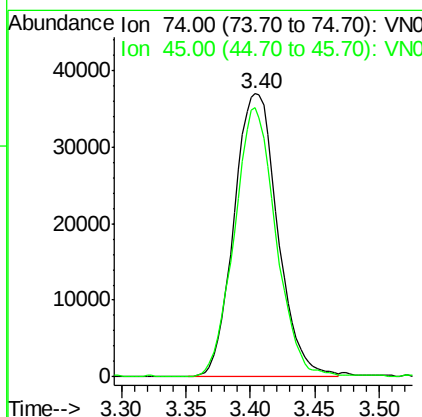
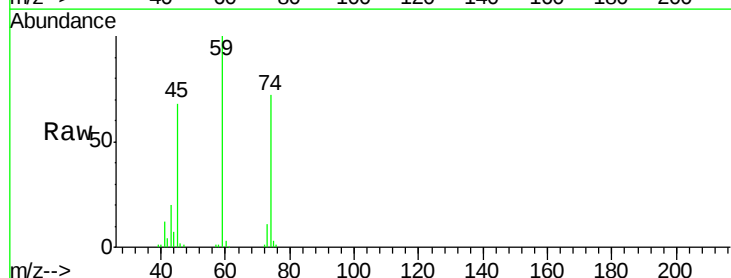
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 8/21/2019 9:45:33 AM

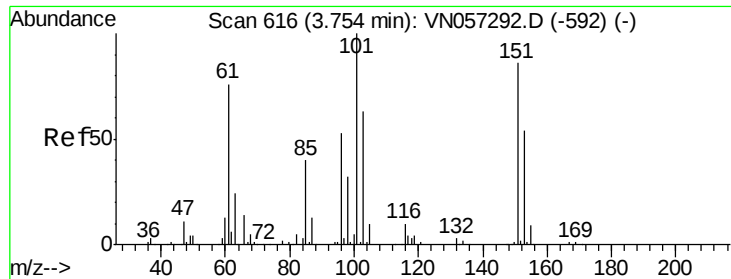


#8

Diethyl Ether
 Concen: 18.935 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	86960		
45	90.6	45.9	137.6	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.572 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

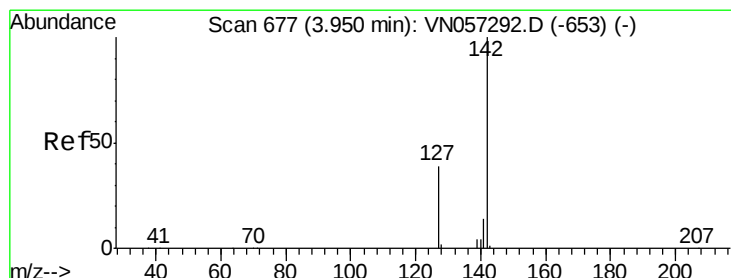
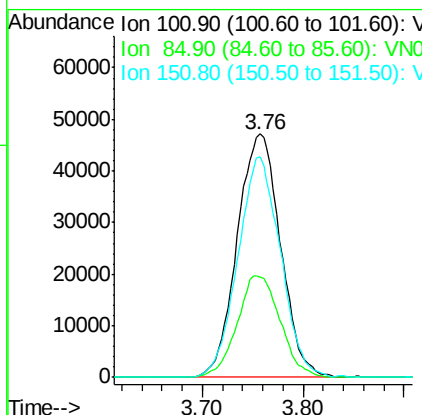
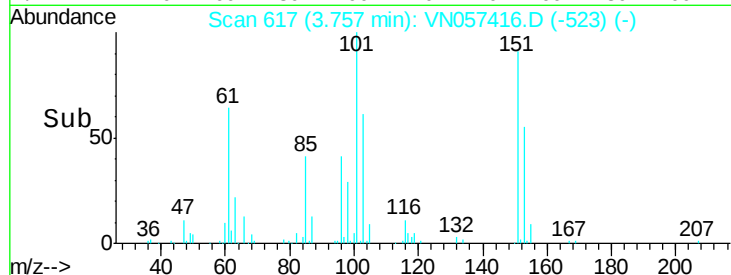
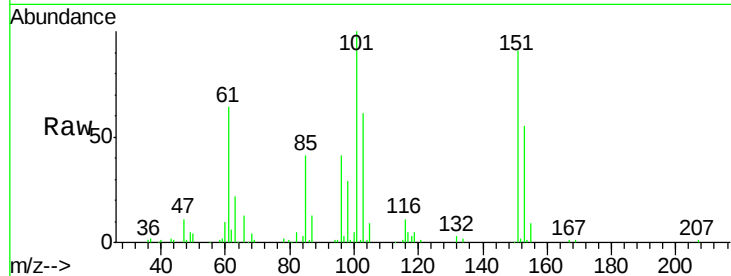
ClientSampleId :

VN0819WBS02

Tot Ion:	101	Resp:	140311
Ion Ratio	Lower	Upper	
101	100		
85	41.6	32.7	49.1
151	89.2	69.1	103.7

Manual Integrations
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#10

Methyl Iodide

Concen: 20.352 ug/l

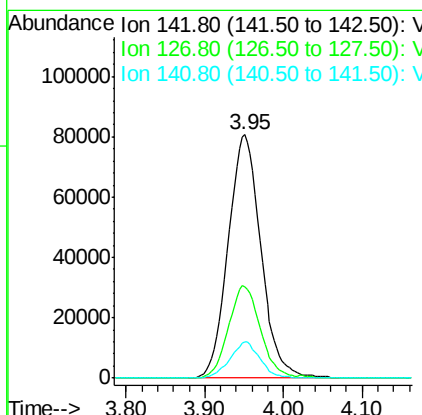
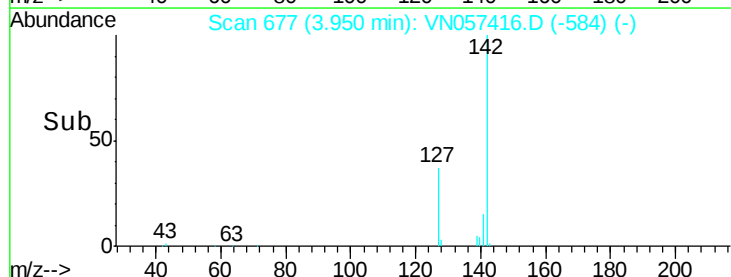
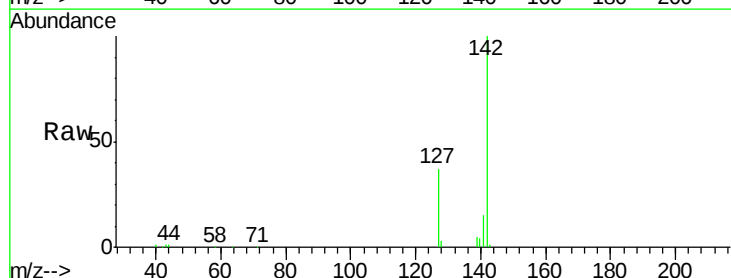
RT: 3.95 min Scan# 677

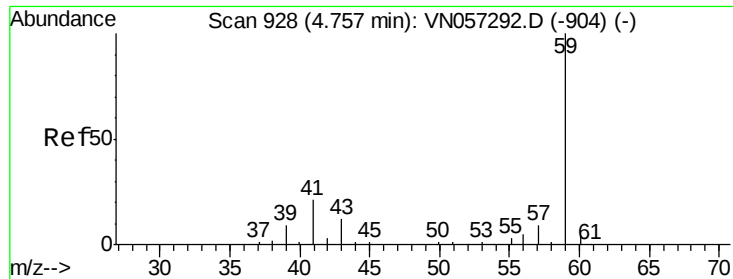
Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Tgt Ion:	142	Resp:	233207
Ion Ratio	Lower	Upper	
142	100		
127	37.3	31.6	47.4
141	13.6	11.2	16.8





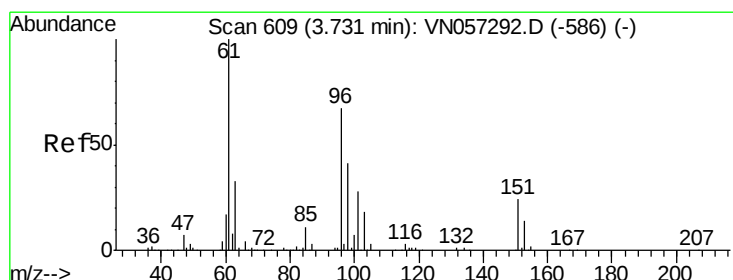
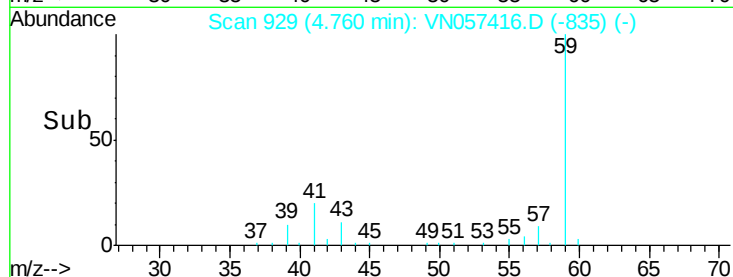
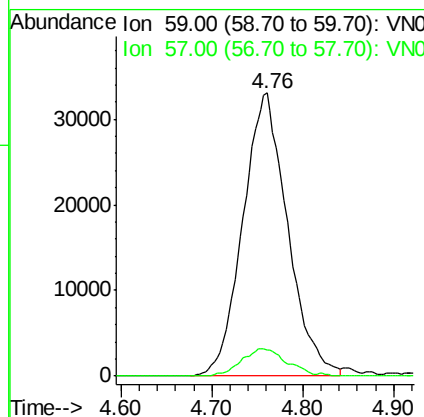
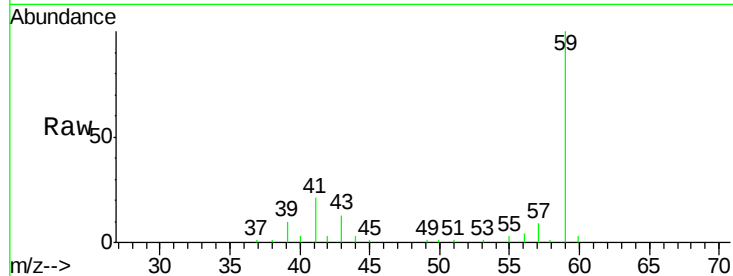
#11
Tert butyl alcohol
Concen: 89.696 ug/l
RT: 4.76 min Scan# 929
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBS02

Tot Ion	Ratio	Resp	Lower	Upper
59	100	112852		
57	9.6		8.2	12.2

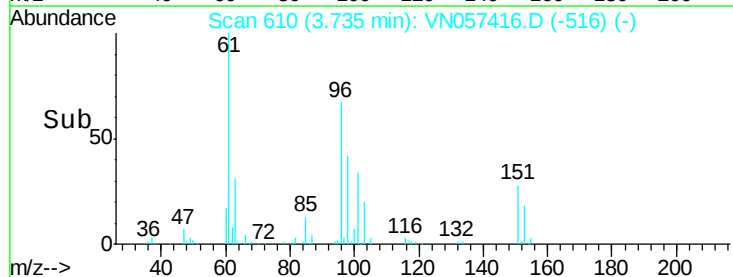
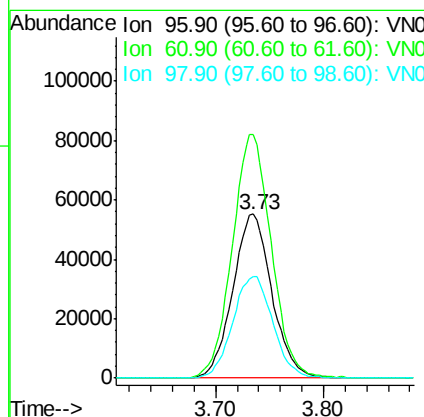
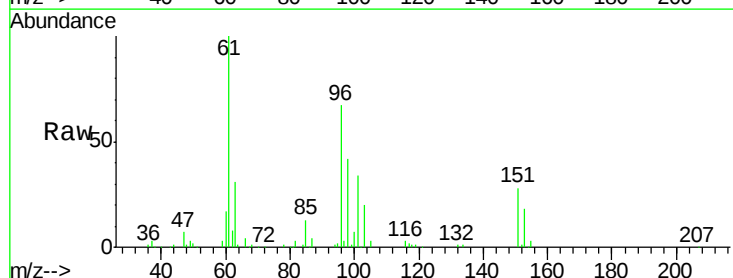
Manual Integrations
APPROVED

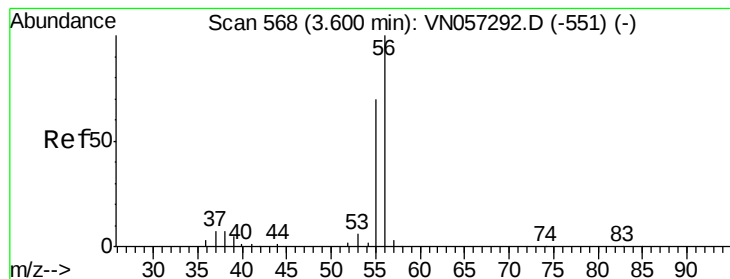
MMDadoda
8/21/2019 9:45:33 AM



#12
1,1-Dichloroethene
Concen: 19.477 ug/l
RT: 3.73 min Scan# 610
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	139117		
61	148.1		119.7	179.5
98	62.3		49.0	73.4





#13

Acrolein

Concen: 52.037 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBS02

Tot Ion: 56 Resp: 39745

Ion Ratio Lower Upper

56 100

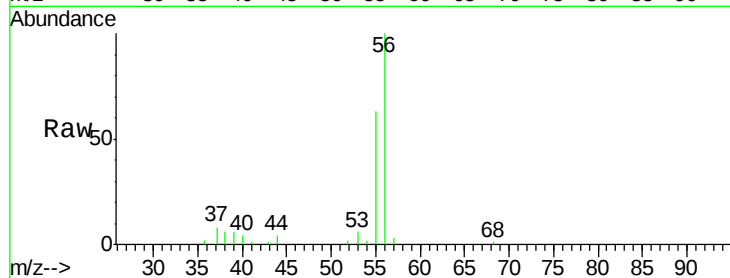
55 68.3 56.6 84.8

Manual Integrations

APPROVED

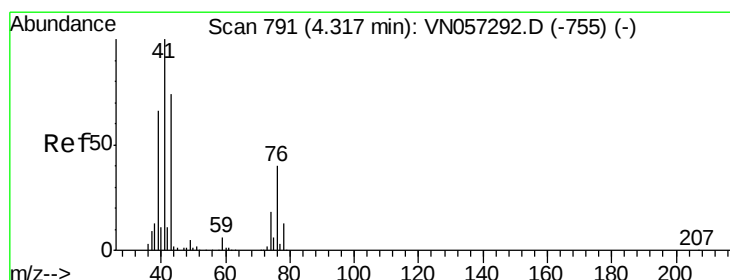
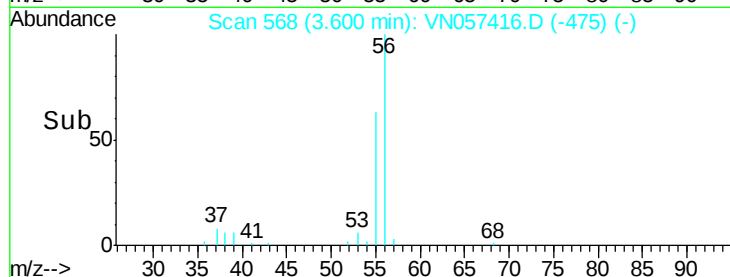
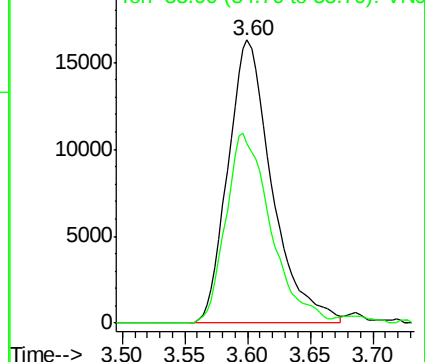
MMDadoda

8/21/2019 9:45:33 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 17.783 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

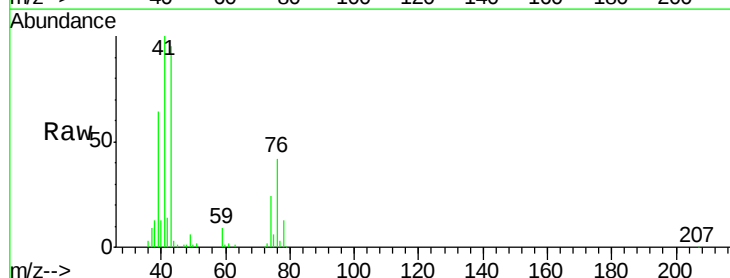
Tgt Ion: 41 Resp: 203608

Ion Ratio Lower Upper

41 100

39 62.1 49.0 73.6

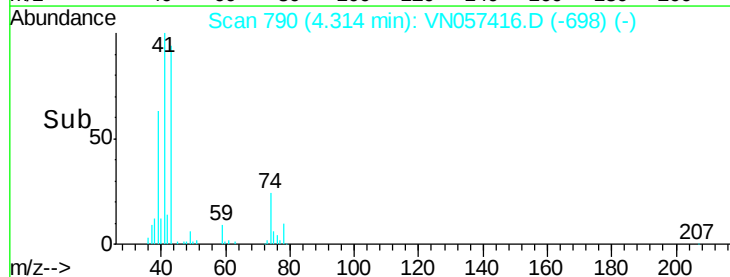
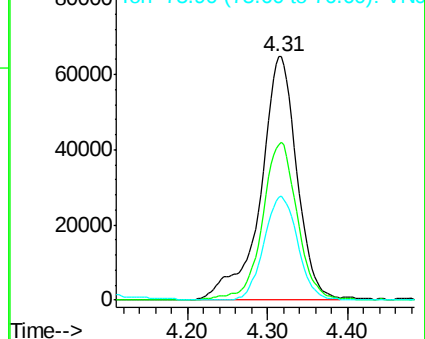
76 39.7 29.0 43.4

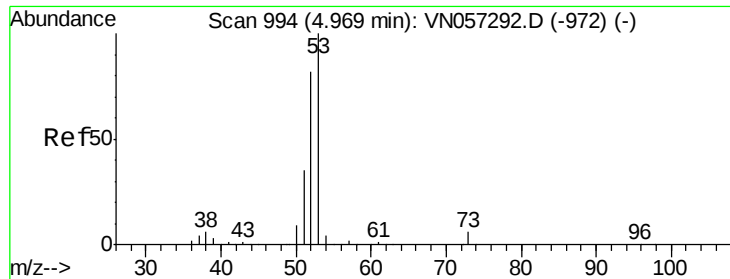


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





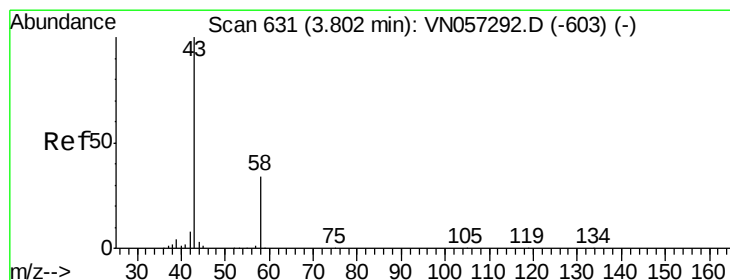
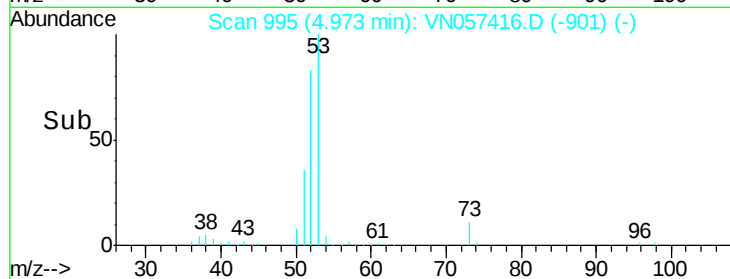
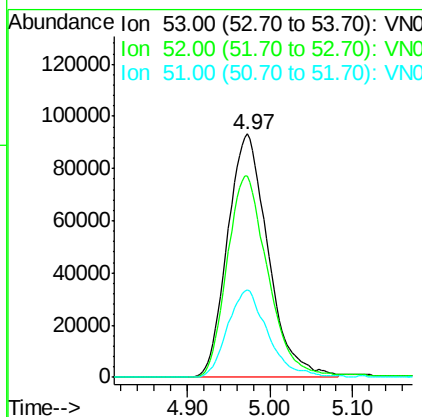
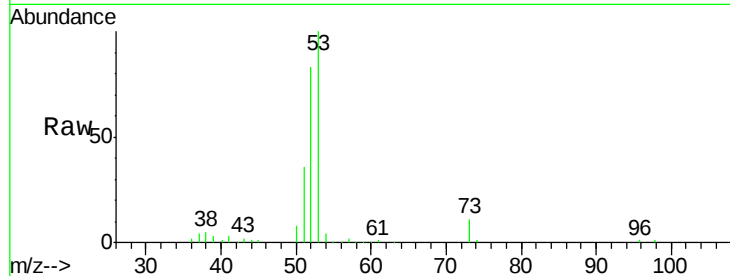
#15
 Acrylonitrile
 Concen: 93.072 ug/l
 RT: 4.97 min Scan# 995
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBS02

Tot Ion:	53	Resp:	317912
Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.2	99.2
51	35.6	28.5	42.7

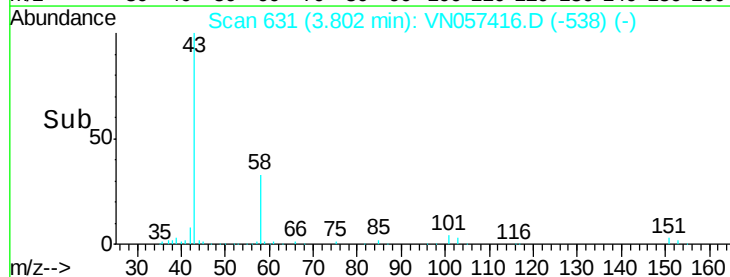
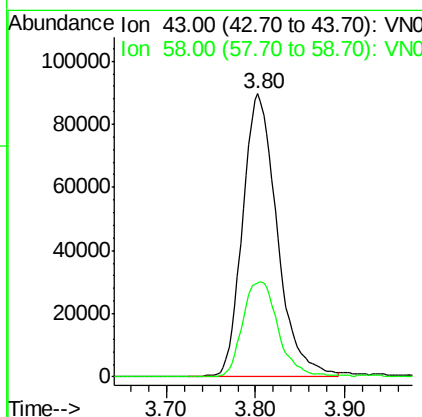
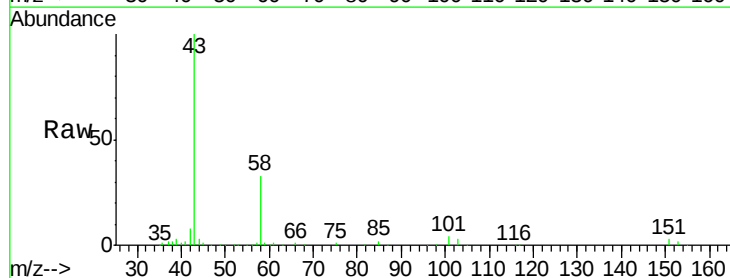
Manual Integrations
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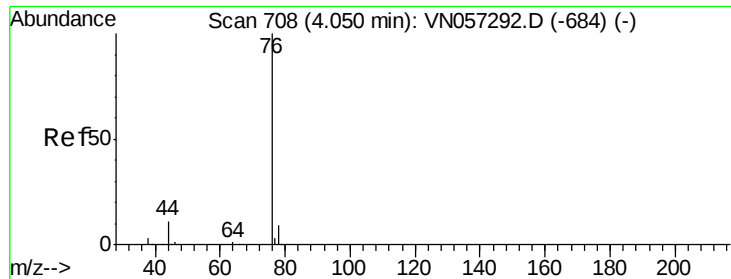
MMDadoda
 8/21/2019 9:45:33 AM



#16
 Acetone
 Concen: 78.614 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Tgt Ion:	43	Resp:	241348
Ion	Ratio	Lower	Upper
43	100		
58	33.0	27.0	40.6





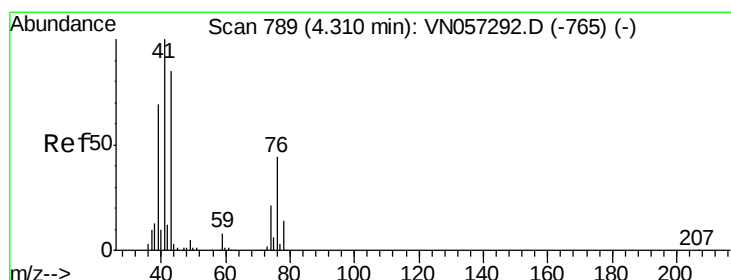
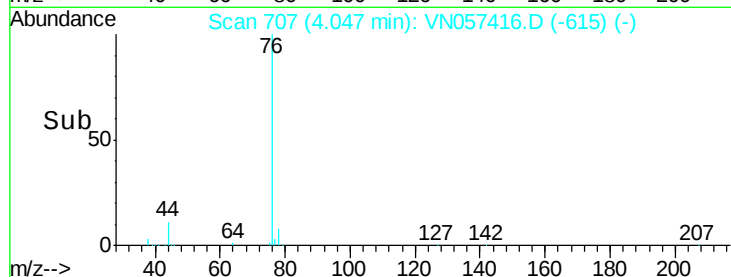
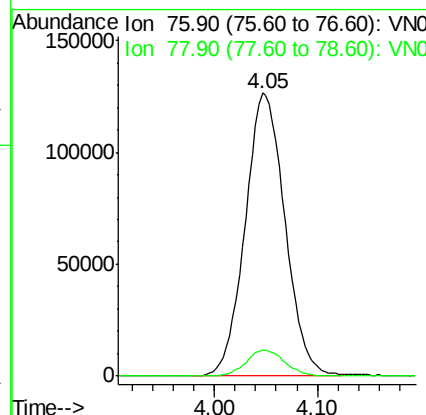
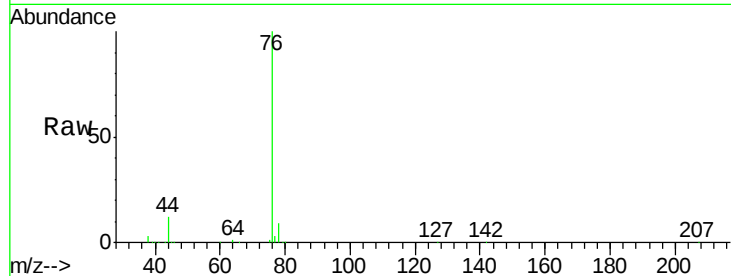
#17
Carbon Disulfide
Concen: 17.611 ug/l
RT: 4.05 min Scan# 707
Delta R.T. -0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBS02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
76	100		338890		
78	9.1		7.0	10.6	

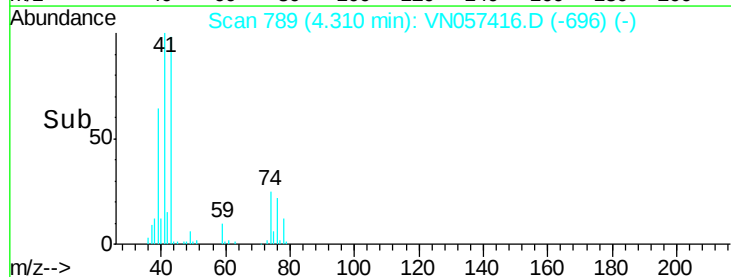
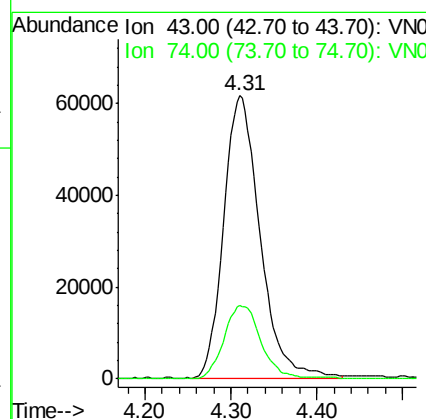
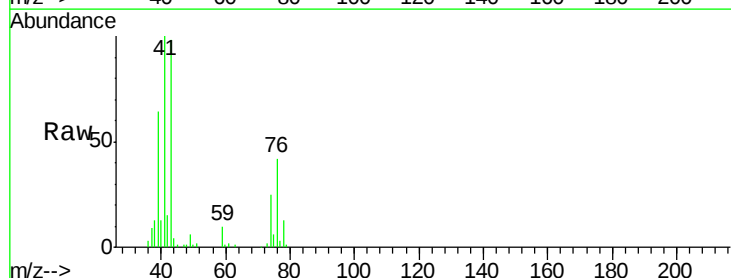
Manual Integrations
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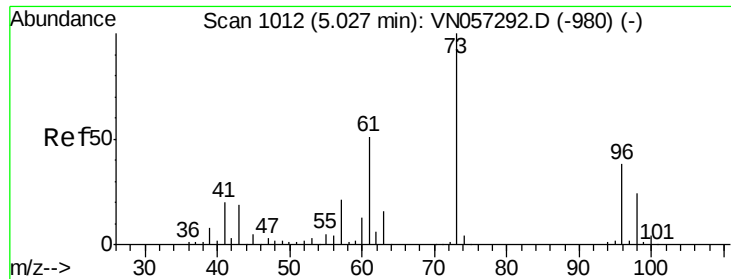
MMDadoda
8/21/2019 9:45:33 AM



#18
Methyl Acetate
Concen: 20.507 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
43	100		179929		
74	26.4		20.2	30.2	





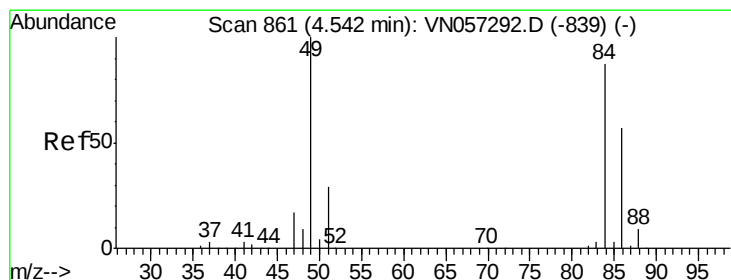
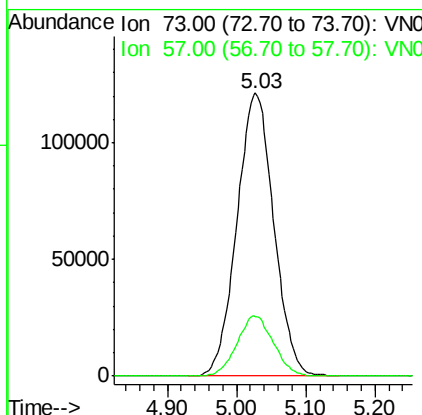
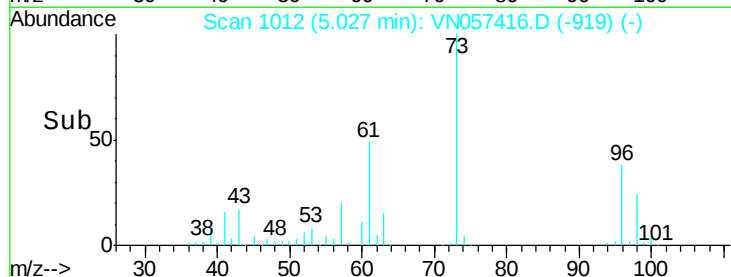
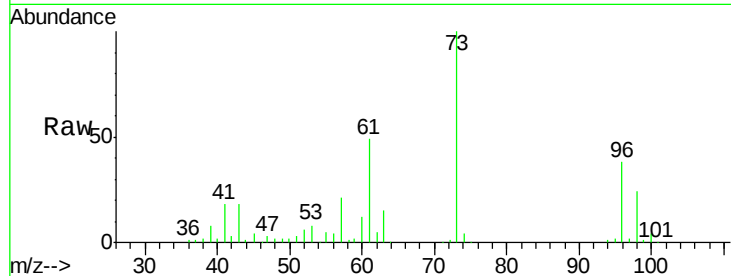
#19
Methvl tert-butvl Ether
Concen: 20.000 ug/l
RT: 5.03 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBS02

Tot Ion: 73 Resp: 448250
Ion Ratio Lower Upper
73 100
57 21.1 16.9 25.3

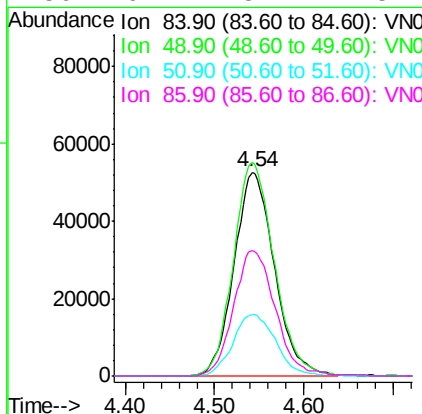
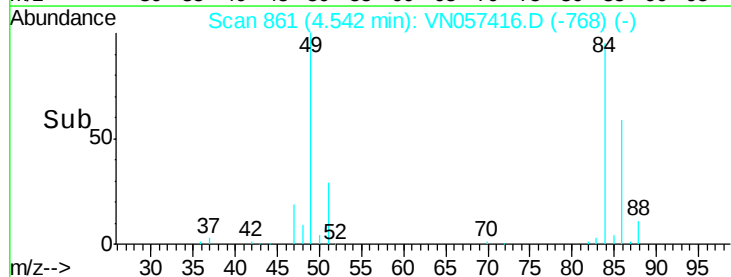
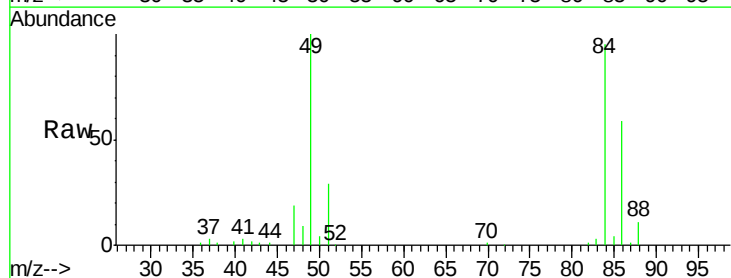
Manual Integrations
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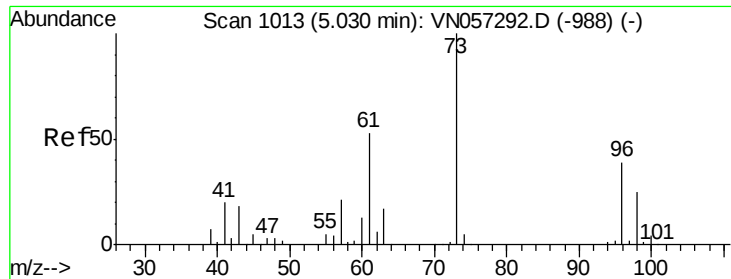
MMDadoda
8/21/2019 9:45:33 AM



#20
Methylene Chloride
Concen: 19.290 ug/l
RT: 4.54 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Tgt Ion: 84 Resp: 165695
Ion Ratio Lower Upper
84 100
49 104.7 92.0 138.0
51 30.4 27.1 40.7
86 61.4 52.2 78.2





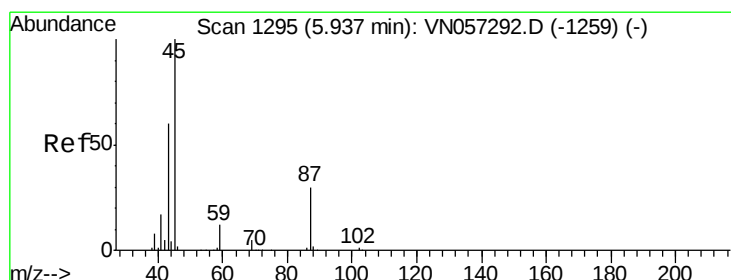
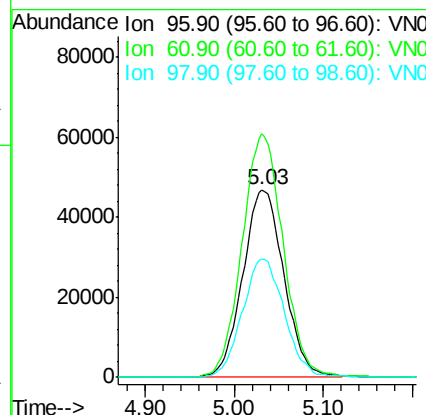
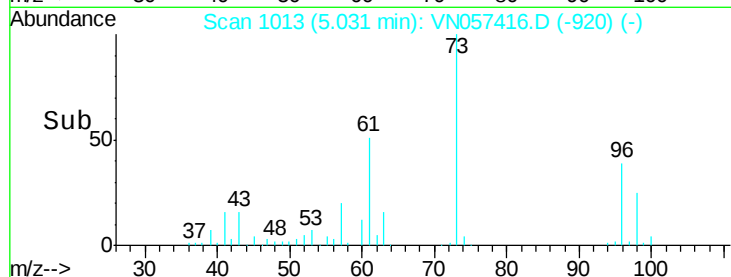
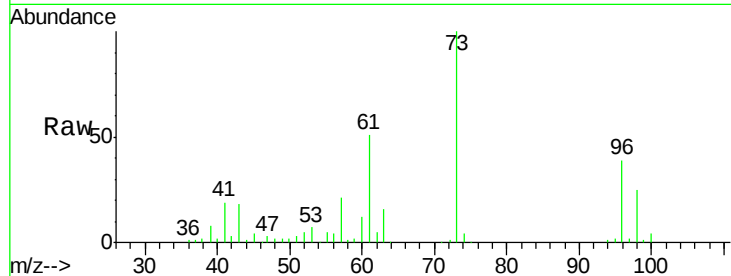
#21
trans-1,2-Dichloroethene
Concen: 19.586 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Instrument :
MSVOA_N
ClientSampled :
VN0819WBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.0	109.5	164.3
98	63.2	51.0	76.6

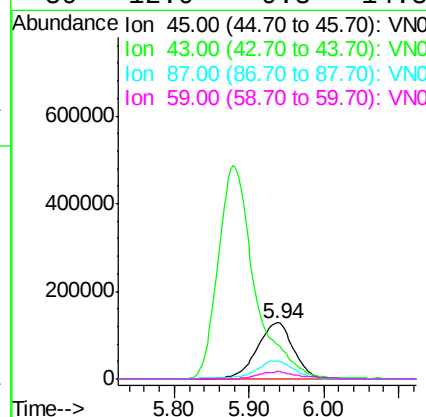
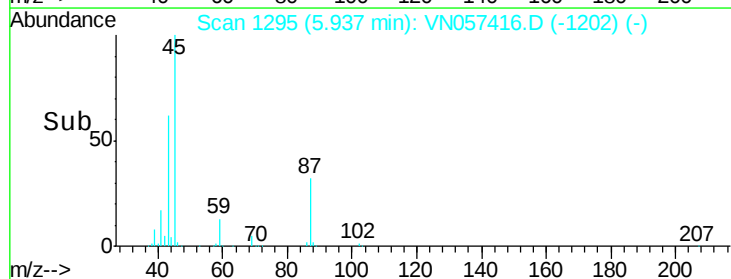
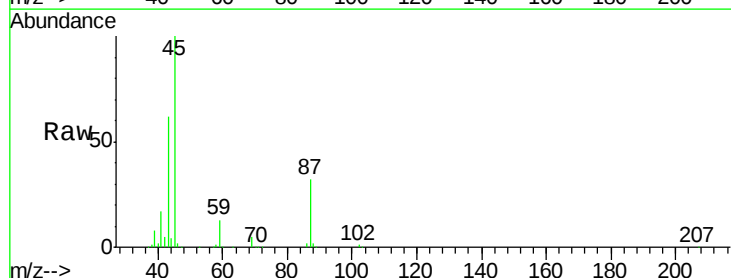
Manual Integrations
APPROVED

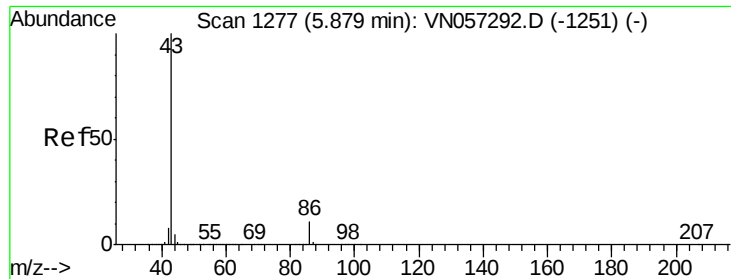
MMDadoda
8/21/2019 9:45:33 AM



#22
Diisopropyl ether
Concen: 19.266 ug/l
RT: 5.94 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.1	48.3	72.5
87	32.1	24.6	36.8
59	12.9	9.8	14.8





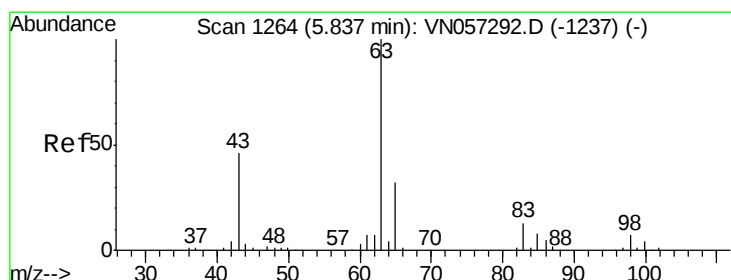
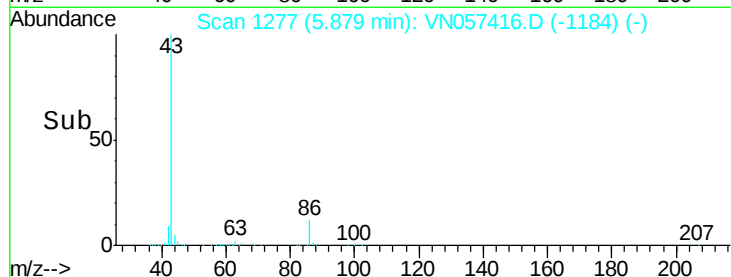
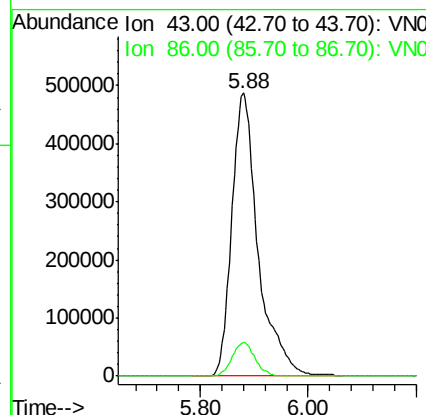
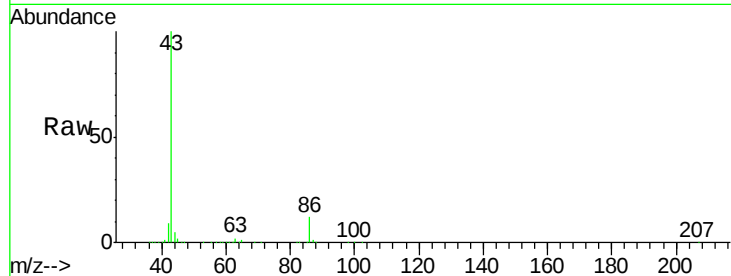
#23
 Vinyl Acetate
 Concen: 90.879 ug/l
 RT: 5.88 min Scan# 1277
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBS02

Tot Ion: 43 Resp: 1654260
 Ion Ratio Lower Upper
 43 100
 86 11.7 8.7 13.1

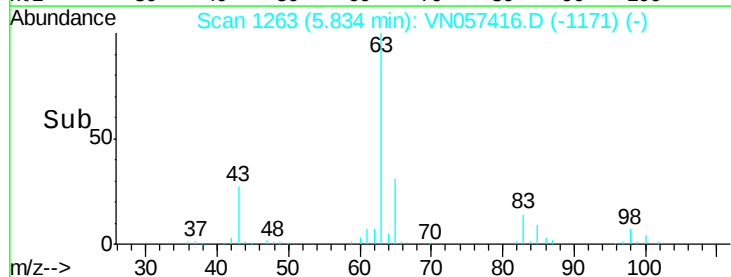
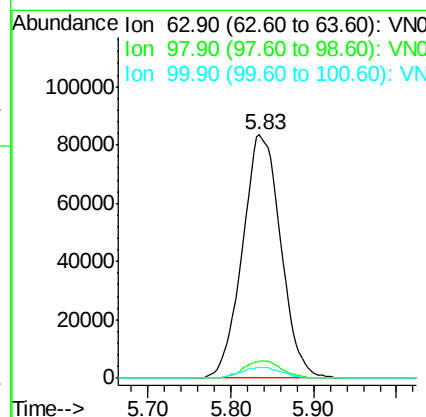
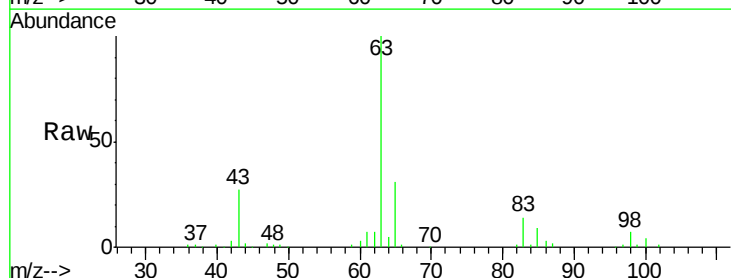
Manual Integrations
 APPROVED

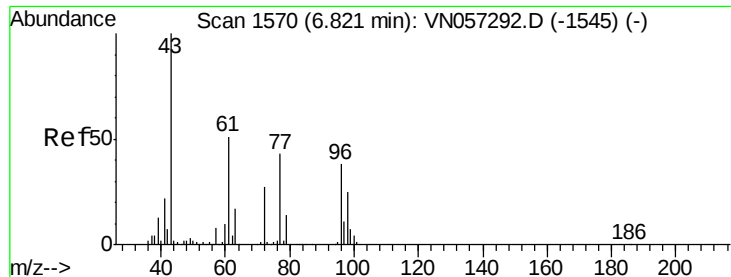
MMDadoda
 8/21/2019 9:45:33 AM



#24
 1,1-Dichloroethane
 Concen: 19.281 ug/l
 RT: 5.83 min Scan# 1263
 Delta R.T. -0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Tgt Ion: 63 Resp: 268304
 Ion Ratio Lower Upper
 63 100
 98 6.8 3.3 9.9
 100 4.5 2.1 6.5





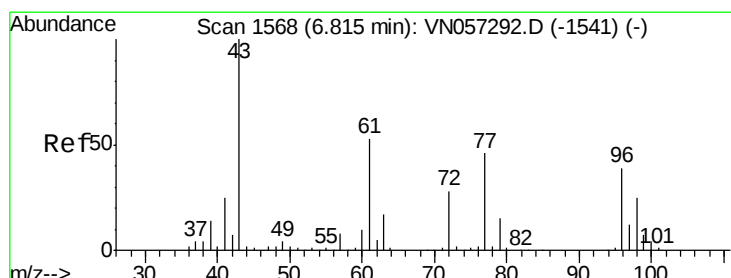
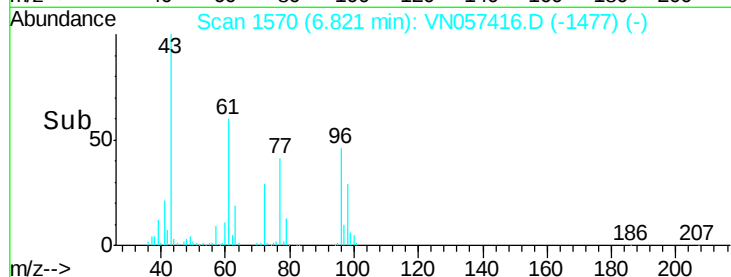
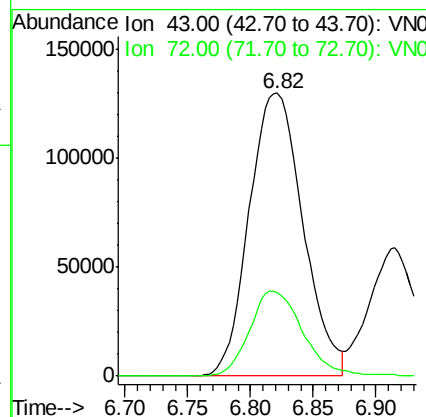
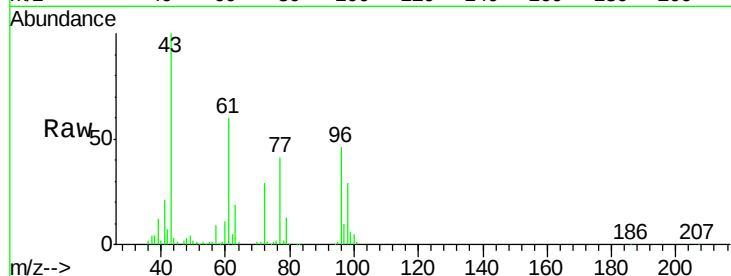
#25
2-Butanone
Concen: 87.084 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Instrument :
MSVOA_N
ClientSampled :
VN0819WBS02

Tot Ion: 43 Resp: 387153
Ion Ratio Lower Upper
43 100
72 29.5 21.5 32.3

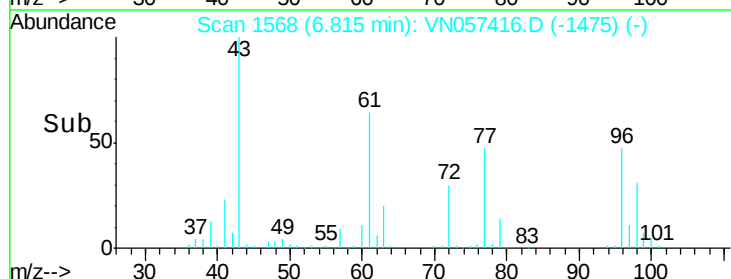
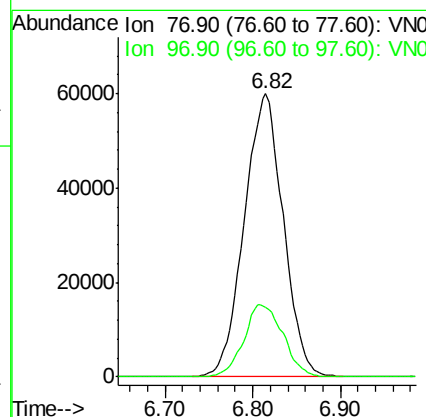
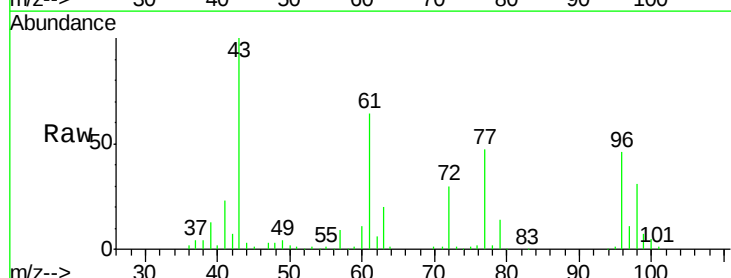
Manual Integrations
APPROVED

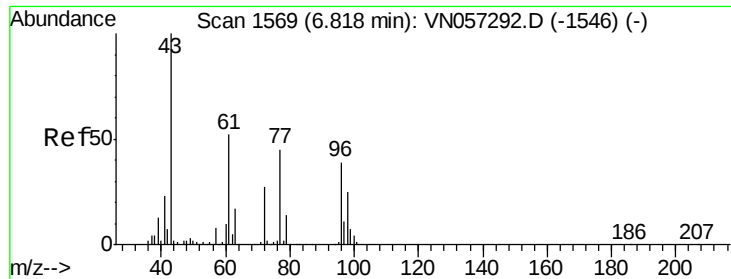
MMDadoda
8/21/2019 9:45:33 AM



#26
2,2-Dichloropropane
Concen: 16.456 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Tgt Ion: 77 Resp: 185063
Ion Ratio Lower Upper
77 100
97 25.7 12.3 36.9





#27

cis-1,2-Dichloroethene

Concen: 19.685 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

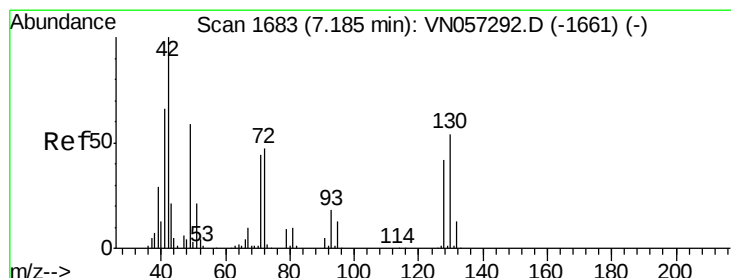
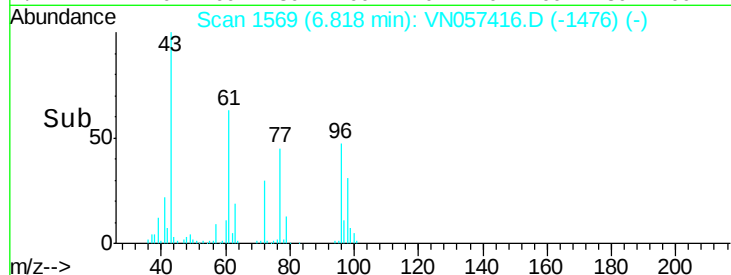
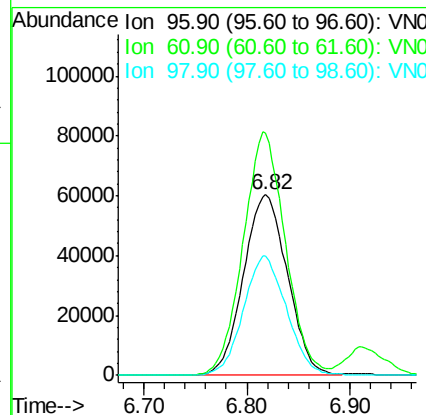
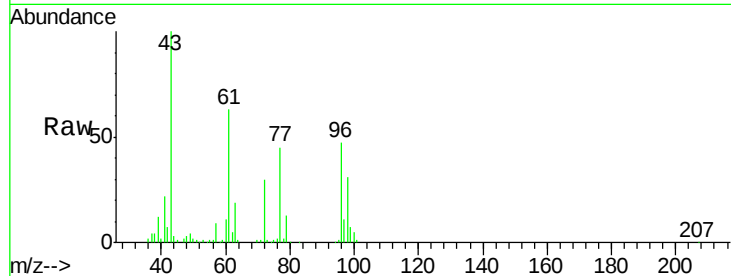
ClientSampleId :

VN0819WBS02

Tot Ion:	96	Resp:	179003
Ion	Ratio	Lower	Upper
96	100		
61	129.2	0.0	272.0
98	64.7	0.0	130.4

Manual Integrations
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MMDadoda
8/21/2019 9:45:33 AM



#28

Bromochloromethane

Concen: 18.441 ug/l

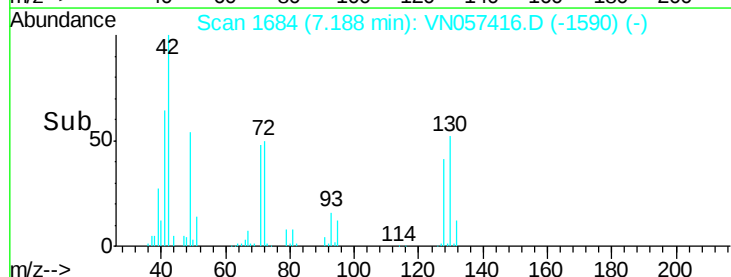
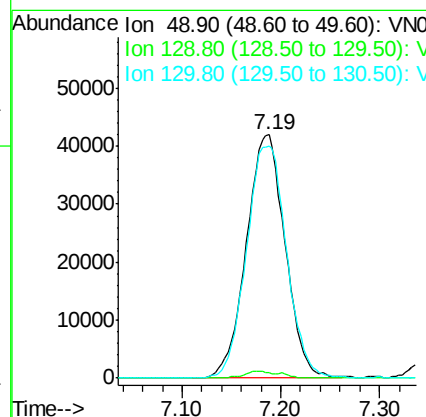
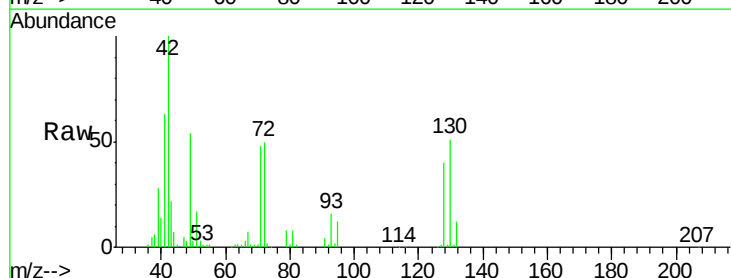
RT: 7.19 min Scan# 1684

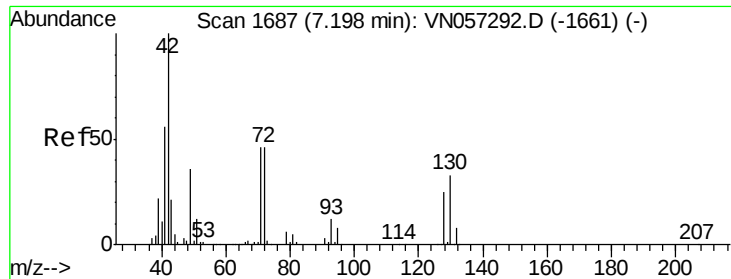
Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Tgt Ion:	49	Resp:	114014
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	2.0
130	98.8	73.2	109.8





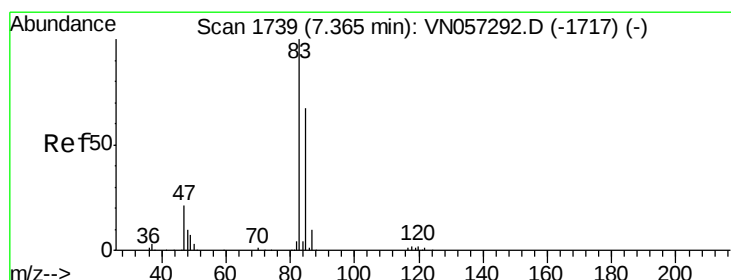
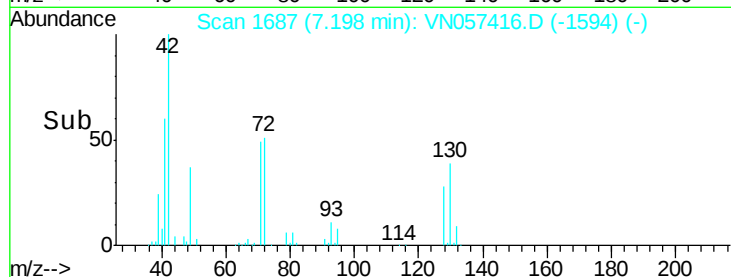
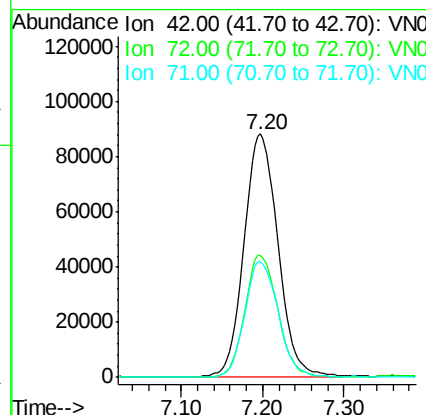
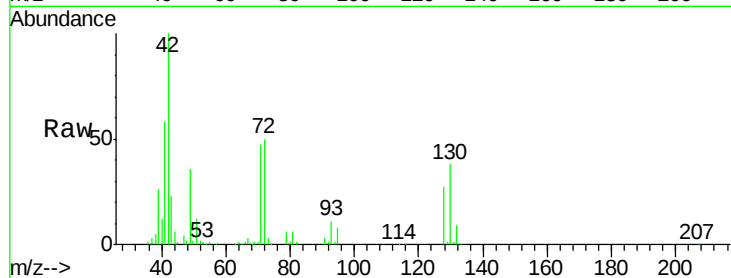
#29
Tetrahydrofuran
Concen: 90.531 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.6	37.8	56.6
71	46.7	35.7	53.5

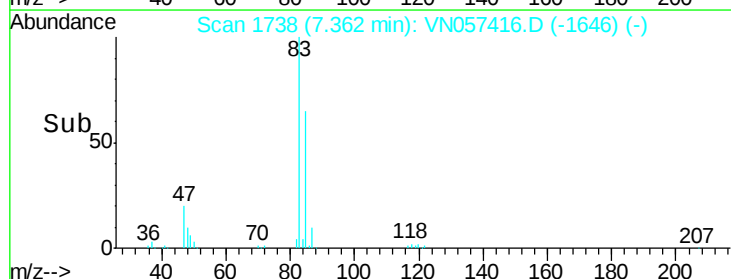
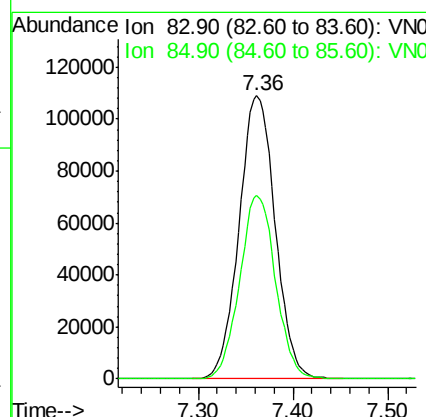
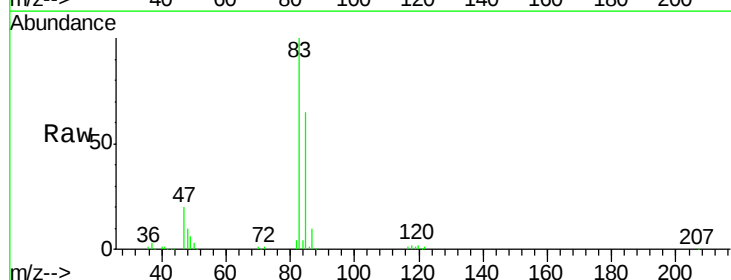
Manual Integrations
APPROVED

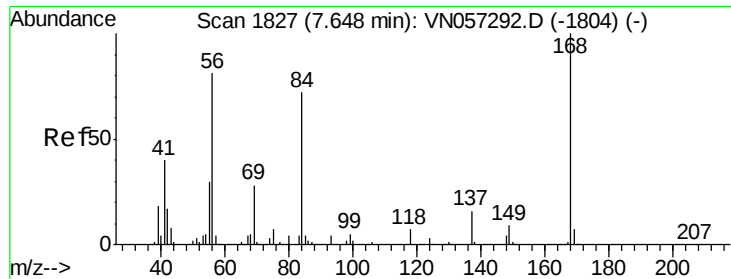
MMDadoda
8/21/2019 9:45:33 AM



#30
Chloroform
Concen: 19.870 ug/l
RT: 7.36 min Scan# 1738
Delta R.T. -0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	53.3	79.9





#31

Cyclohexane

Concen: 18.299 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

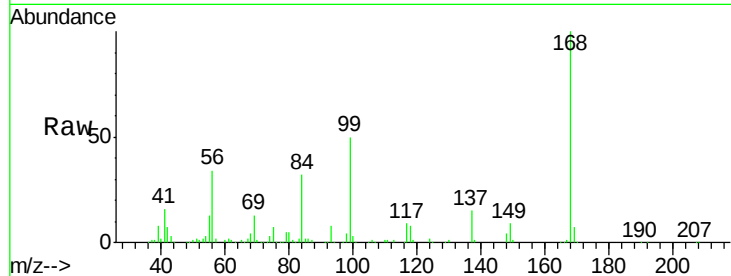
ClientSampleId :

VN0819WBS02

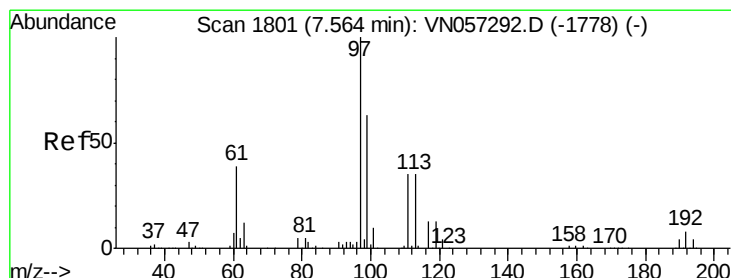
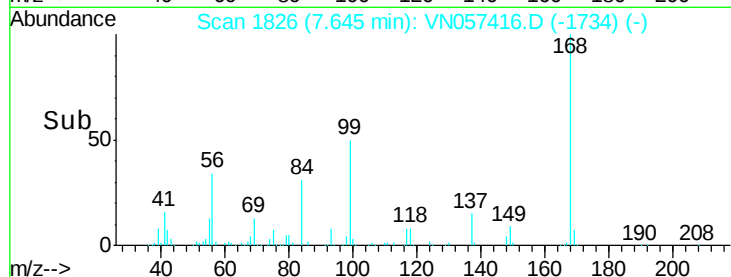
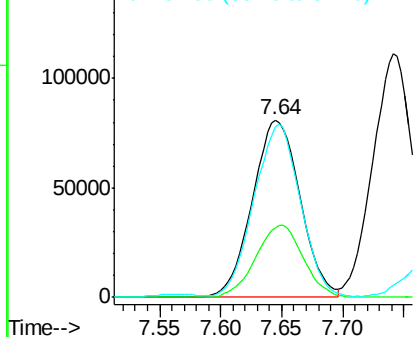
Tot Ion:	56	Resp:	220660
Ion Ratio	Lower	Upper	
56	100		
69	39.5	27.3	40.9
84	94.1	71.0	106.6

Manual Integrations
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Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 20.640 ug/l

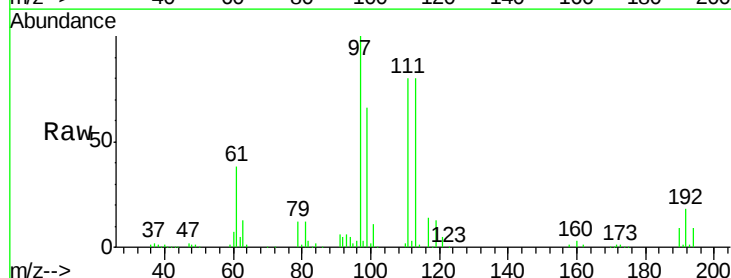
RT: 7.56 min Scan# 1800

Delta R.T. -0.00 min

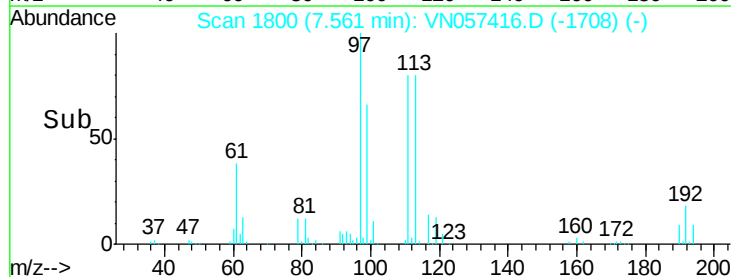
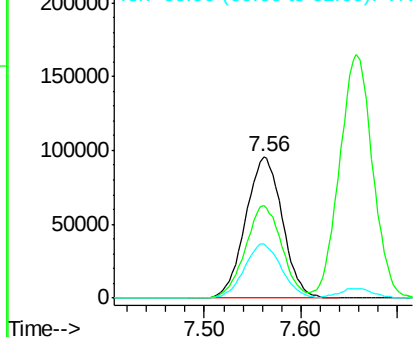
Lab File: VN057416.D

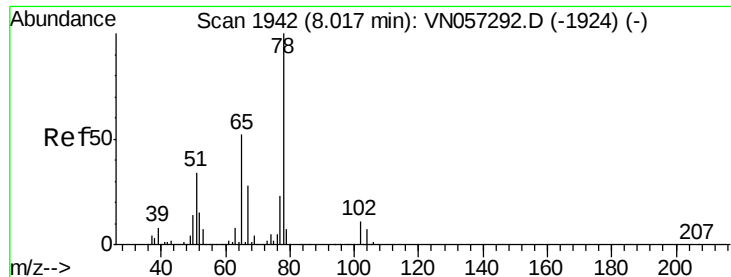
Acq: 19 Aug 2019 22:48

Tgt Ion:	97	Resp:	253154
Ion Ratio	Lower	Upper	
97	100		
99	64.8	50.3	75.5
61	38.5	31.3	46.9



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





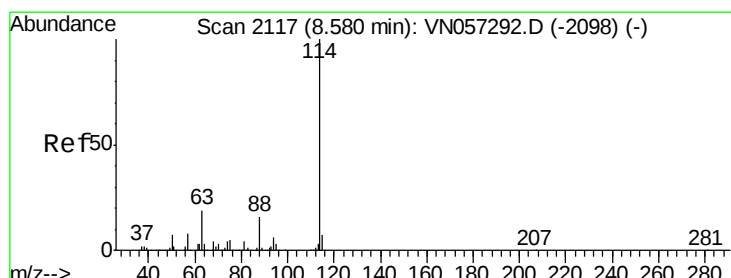
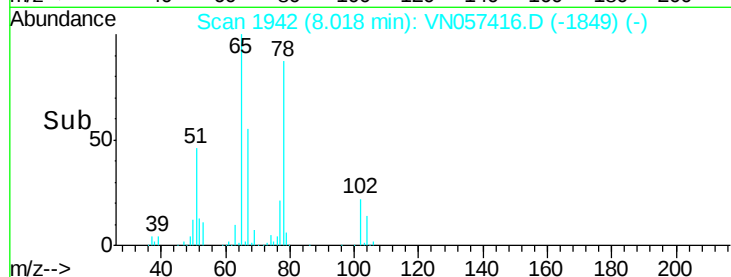
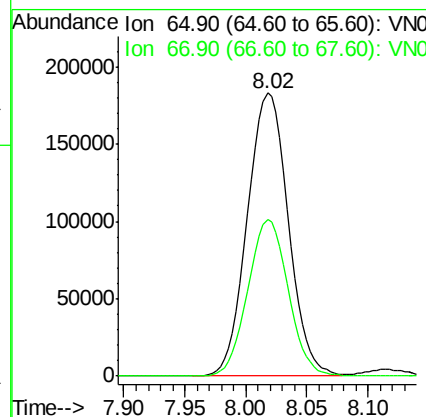
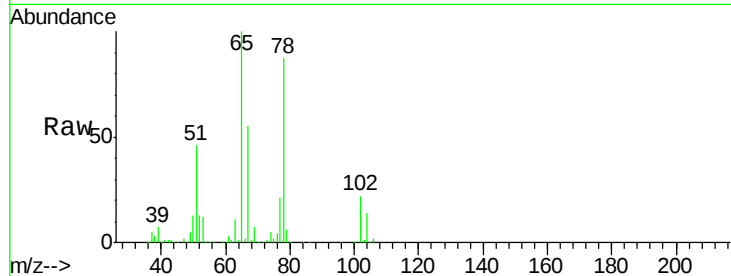
#33
 1,2-Dichloroethane-d4
 Concen: 48.215 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBS02

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.5	0.0	107.4	

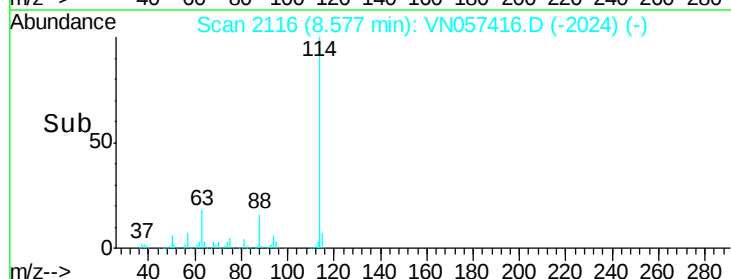
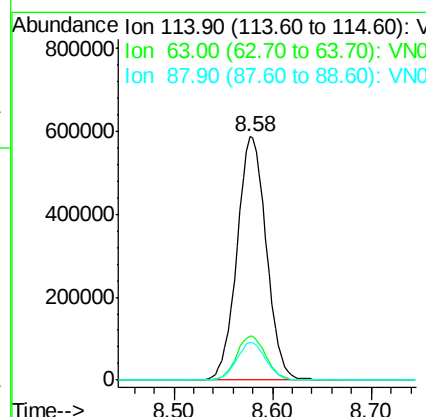
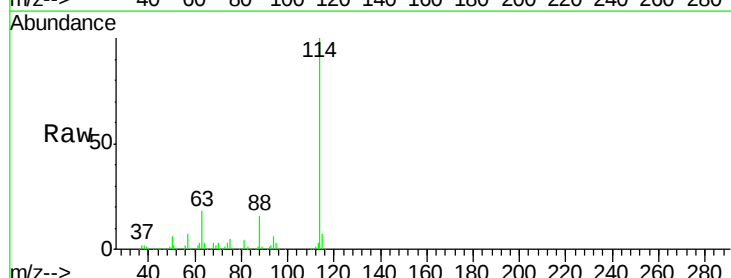
Manual Integrations
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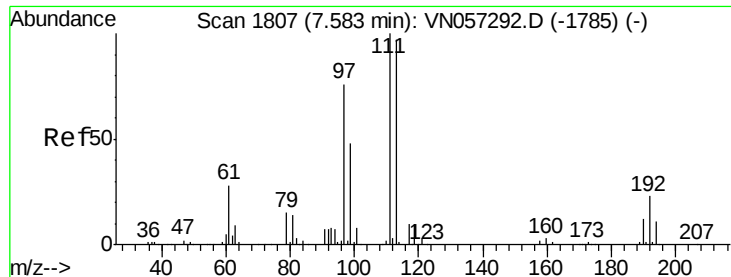
MMDadoda
 8/21/2019 9:45:33 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. -0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.0	0.0	38.8	
88	15.6	0.0	31.4	





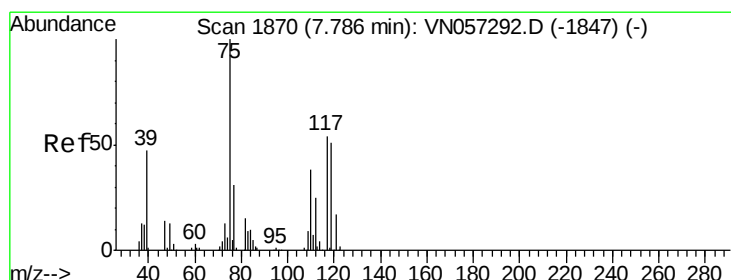
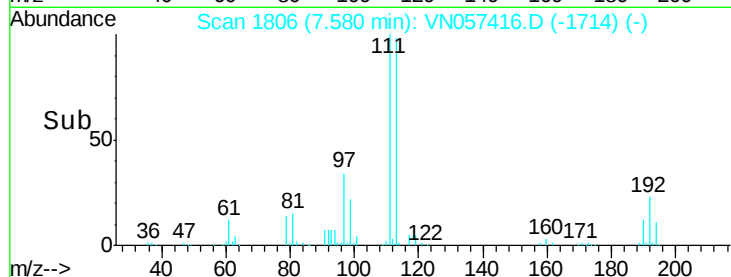
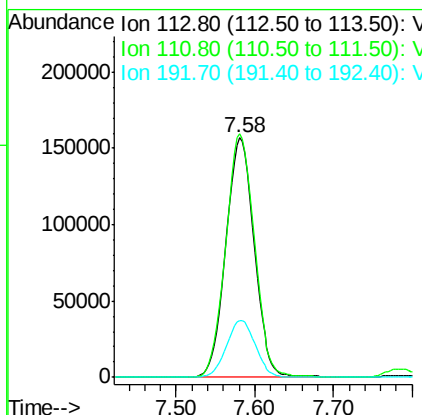
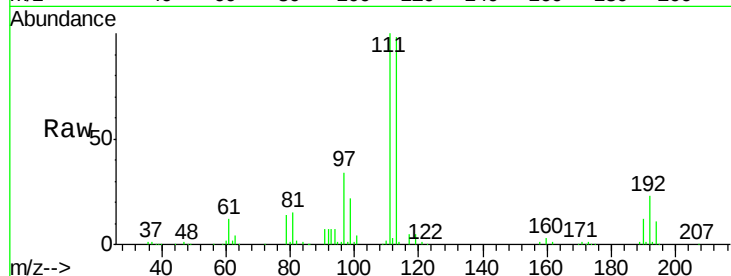
#35
 Dibromofluoromethane
 Concen: 49.427 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBS02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	393019		
111	102.4	82.1	123.1	
192	24.2	19.3	28.9	

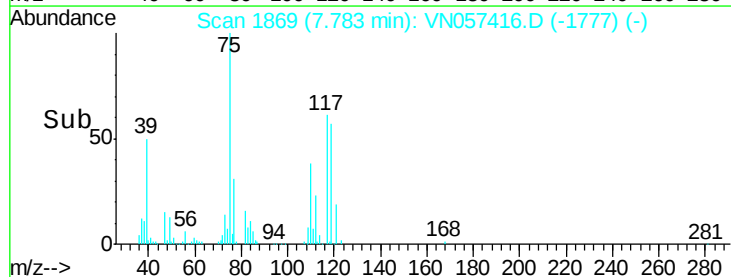
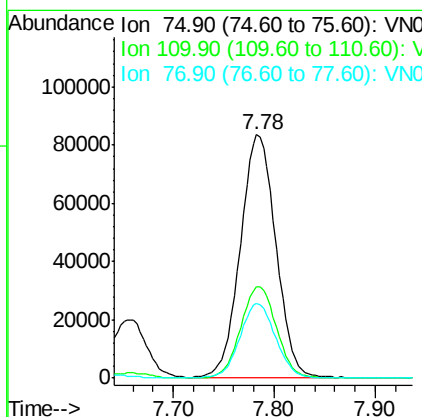
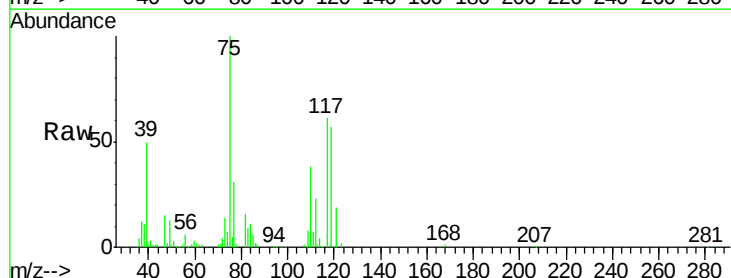
Manual Integrations
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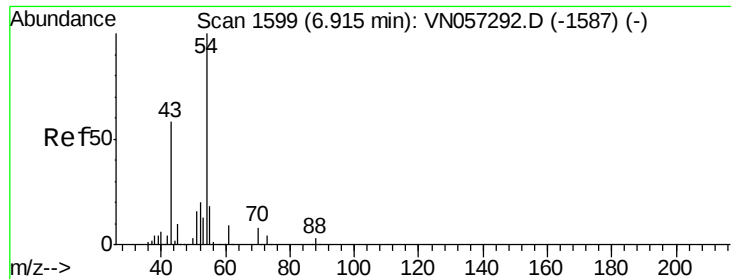
MMDadoda
 8/21/2019 9:45:33 AM



#36
 1,1-Dichloropropene
 Concen: 18.956 ug/l
 RT: 7.78 min Scan# 1869
 Delta R.T. -0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	203015		
110	38.2	19.5	58.5	
77	30.9	25.0	37.6	





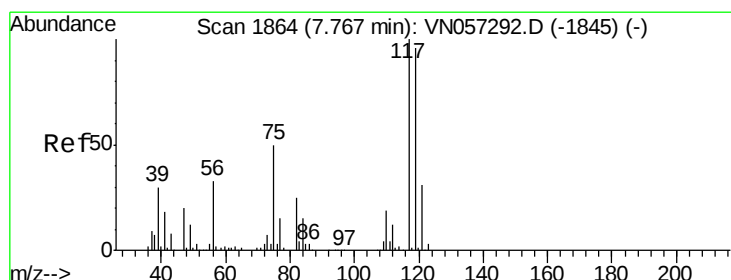
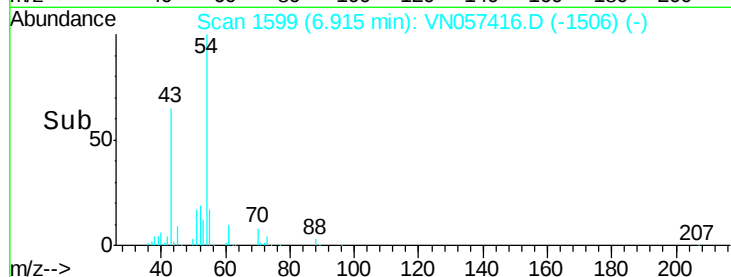
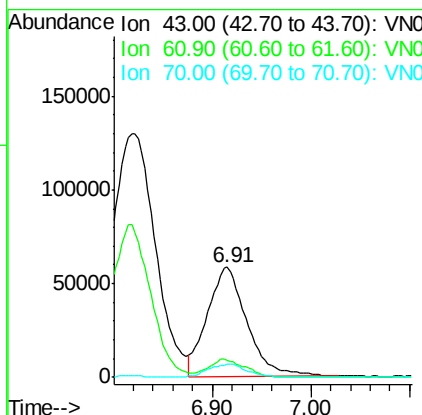
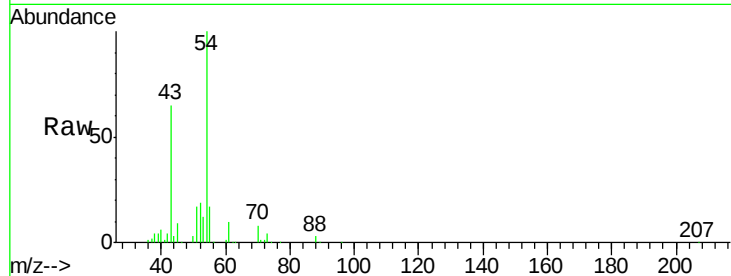
#37
Ethyl Acetate
Concen: 18.624 ug/l
RT: 6.91 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.4	12.0	18.0
70	11.3	9.2	13.8

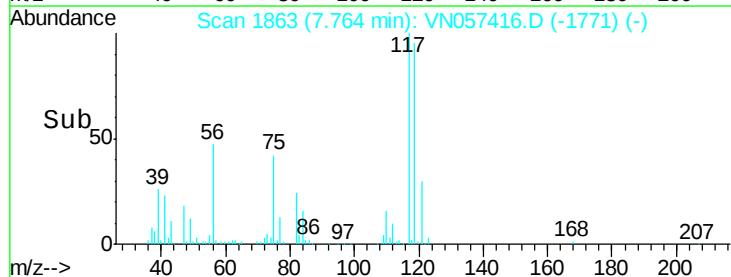
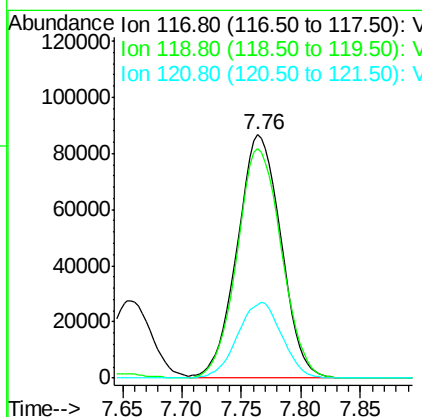
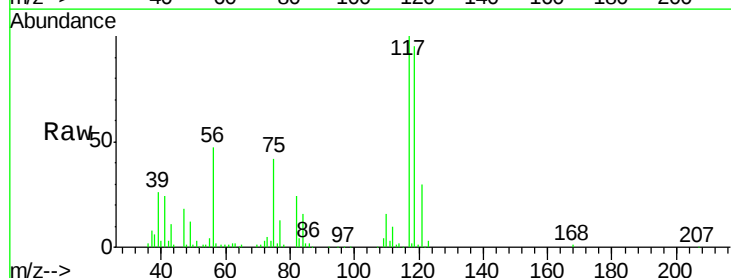
Manual Integrations
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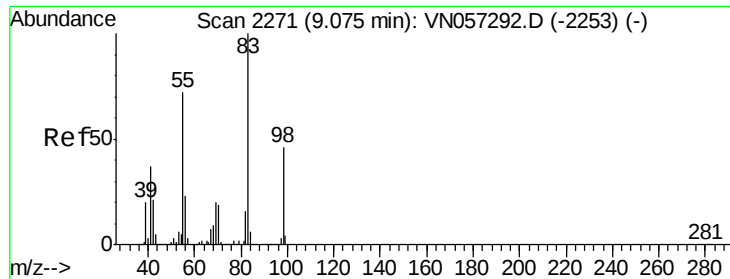
MMDadoda
8/21/2019 9:45:33 AM



#38
Carbon Tetrachloride
Concen: 19.769 ug/l
RT: 7.76 min Scan# 1863
Delta R.T. -0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.6	76.8	115.2
121	30.3	25.0	37.4





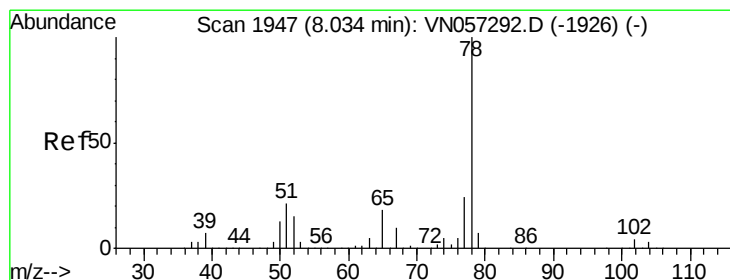
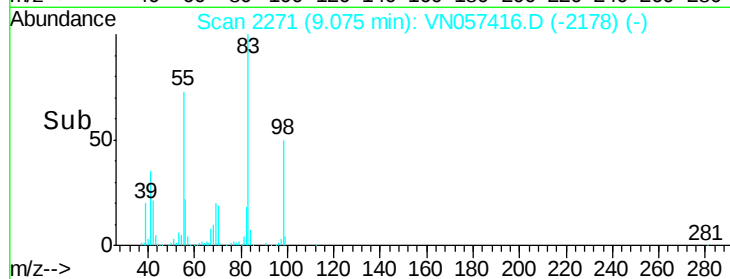
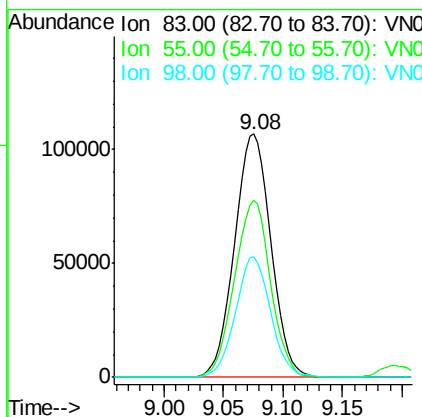
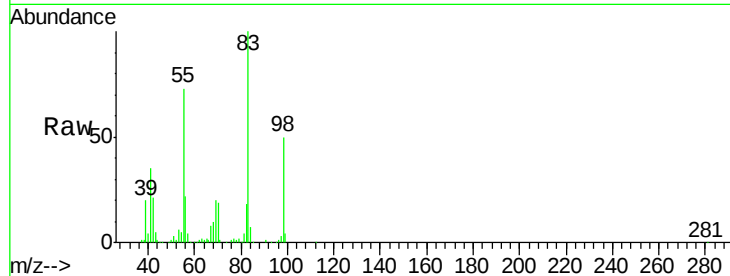
#39
Methvlcvclohexane
Concen: 18.118 ug/l
RT: 9.08 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	72.8	57.5	86.3
98	49.6	36.6	55.0

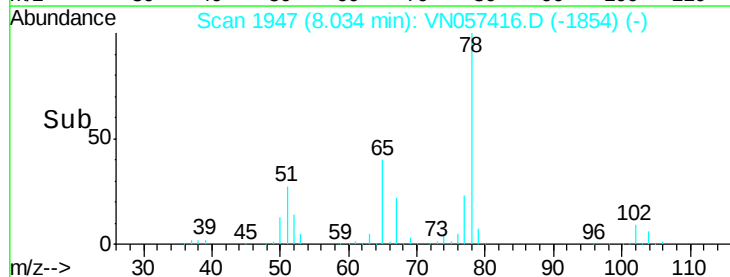
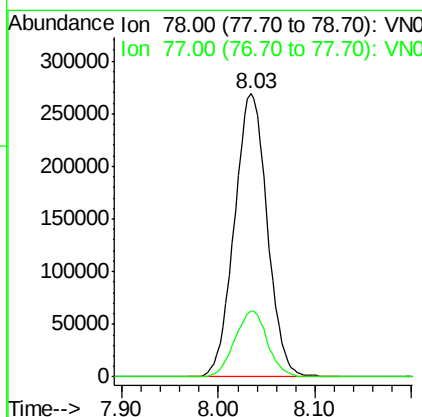
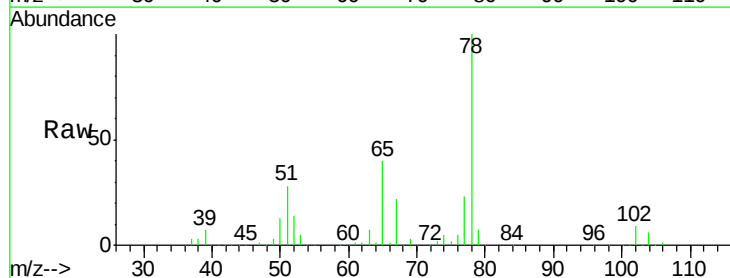
Manual Integrations
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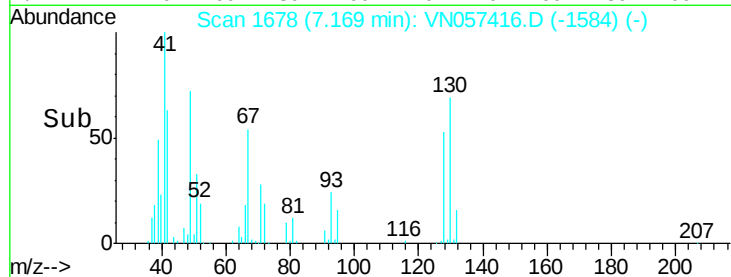
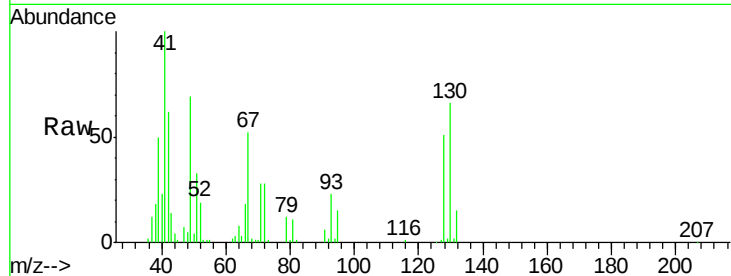
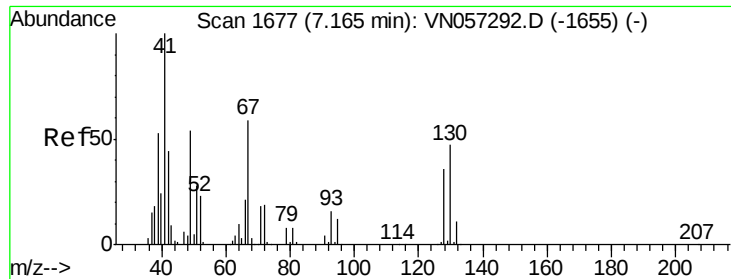
MMDadoda
8/21/2019 9:45:33 AM



#40
Benzene
Concen: 19.382 ug/l
RT: 8.03 min Scan# 1947
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.1	28.7





#41

Methacrylonitrile

Concen: 20.453 ug/l m

RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Tot Ion	41	Resp	80795
Ion Ratio	Lower	Upper	
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

Instrument :

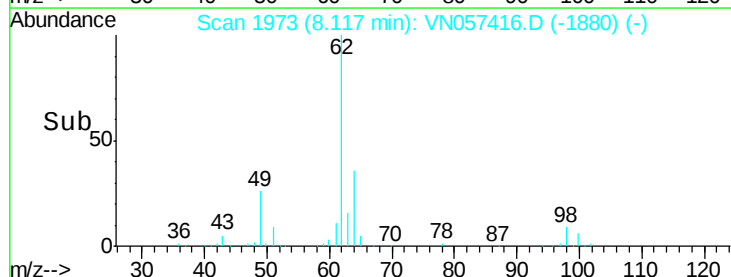
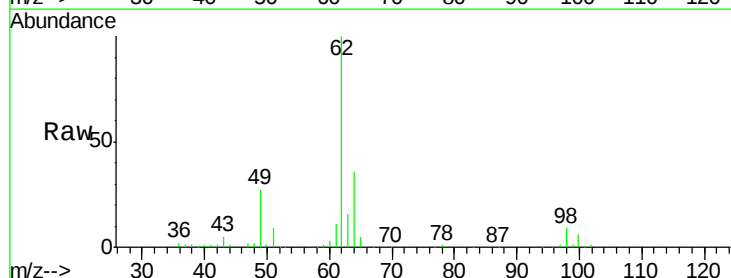
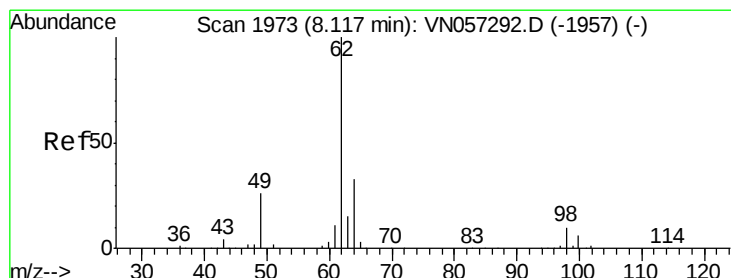
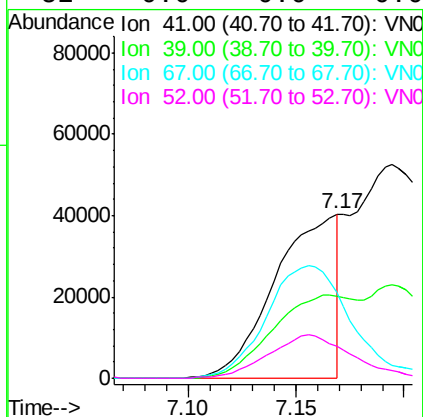
MSVOA_N

ClientSampleId :

VN0819WBS02

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#42

1,2-Dichloroethane

Concen: 19.373 ug/l

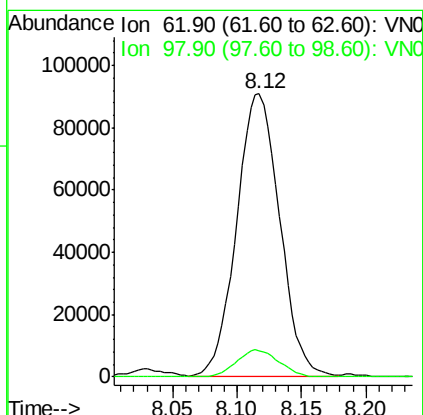
RT: 8.12 min Scan# 1973

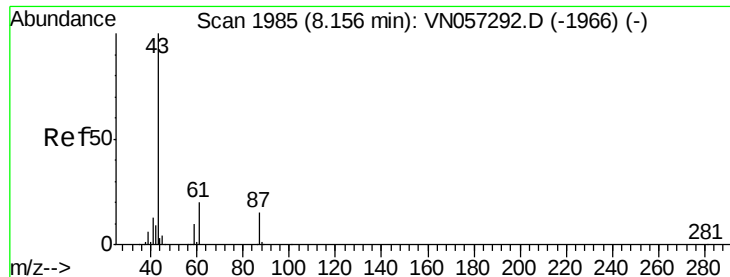
Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Tgt Ion	62	Resp	210037
Ion Ratio	Lower	Upper	
62	100		
98	9.6	0.0	19.4





#43

Isopropyl Acetate

Concen: 18.022 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. -0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

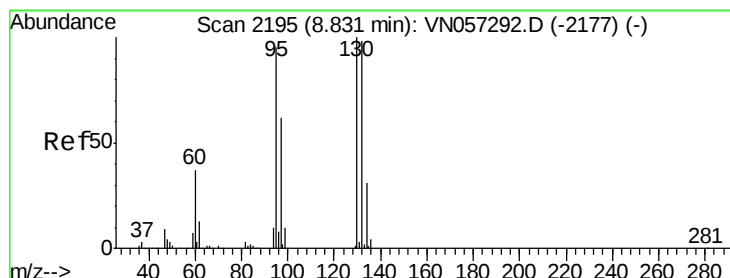
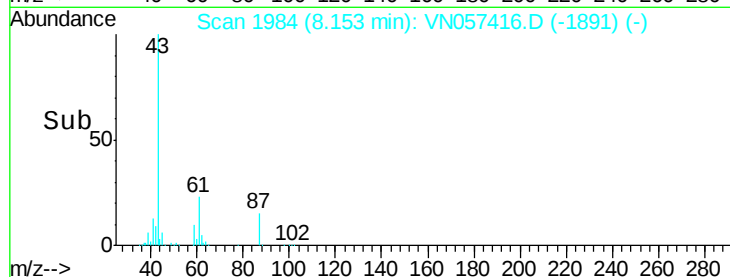
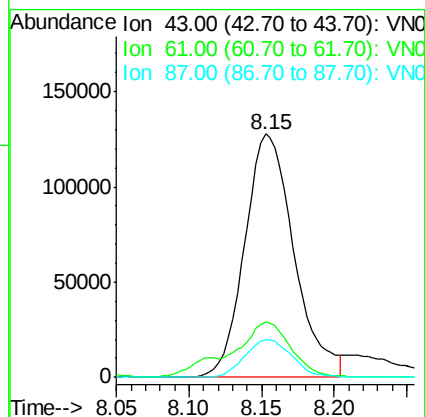
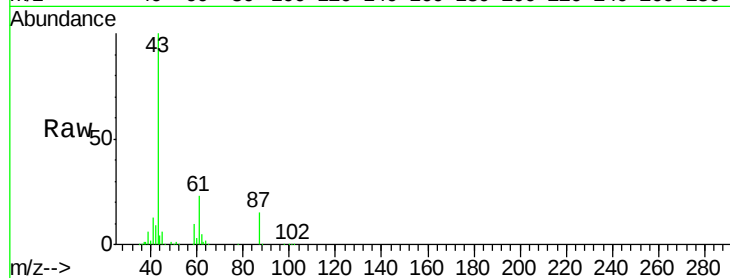
ClientSampleId :

VN0819WBS02

Tot Ion:	43	Resp:	300687
Ion	Ratio	Lower	Upper
43	100		
61	21.9	21.6	32.4
87	14.8	11.4	17.0

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#44

Trichloroethene

Concen: 19.933 ug/l

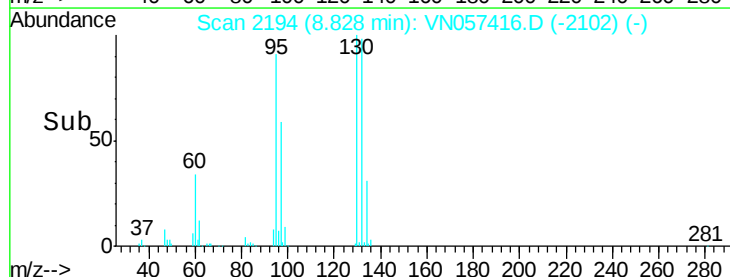
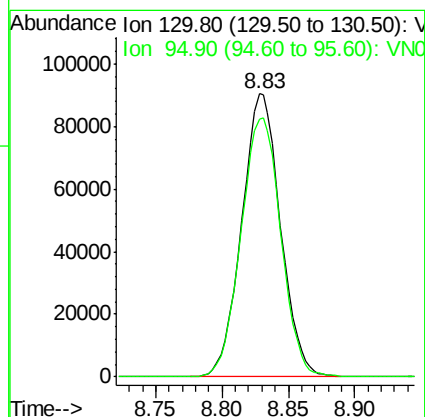
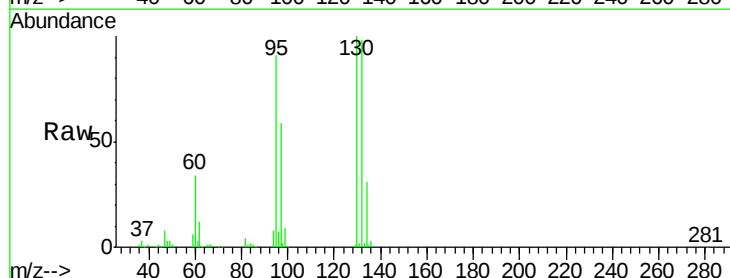
RT: 8.83 min Scan# 2194

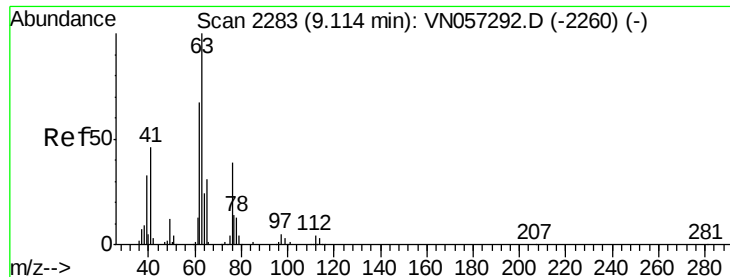
Delta R.T. -0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Tgt Ion:	130	Resp:	183580
Ion	Ratio	Lower	Upper
130	100		
95	91.0	0.0	189.2





#45

1,2-Dichloropropane

Concen: 19.312 ug/l

RT: 9.11 min Scan# 2282

Delta R.T. -0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBS02

Tot Ion: 63 Resp: 163065

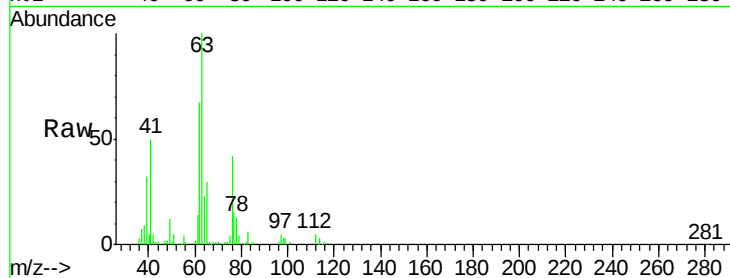
Ion Ratio Lower Upper

63 100

65 30.0 24.8 37.2

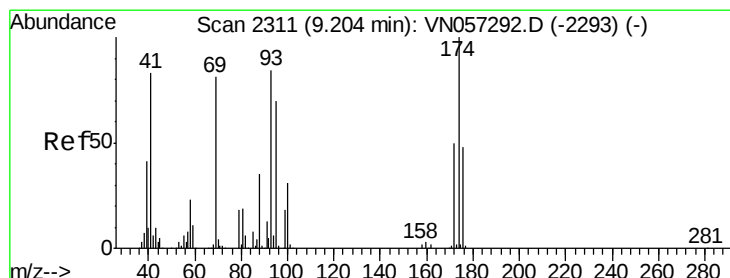
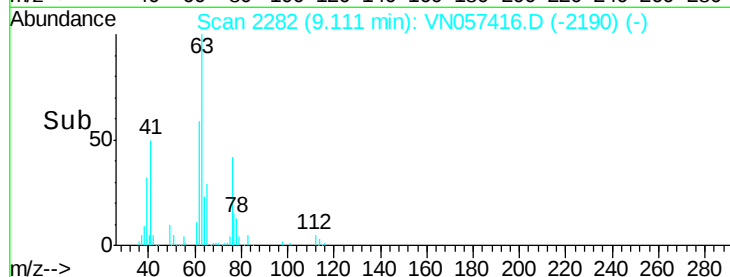
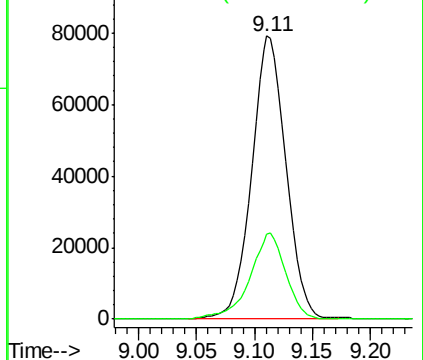
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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 19.637 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

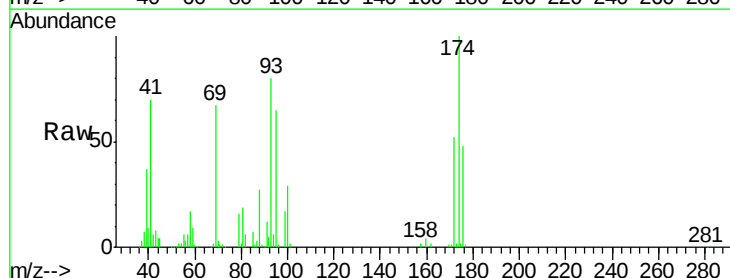
Tgt Ion: 93 Resp: 110613

Ion Ratio Lower Upper

93 100

95 83.3 66.5 99.7

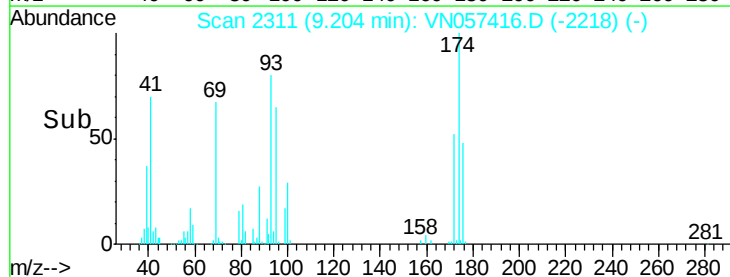
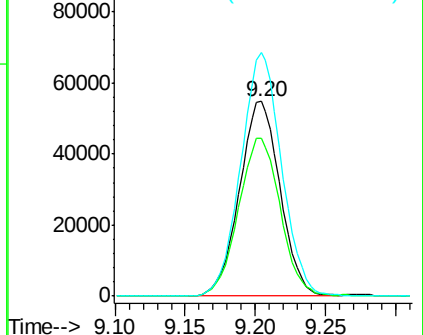
174 125.4 95.7 143.5

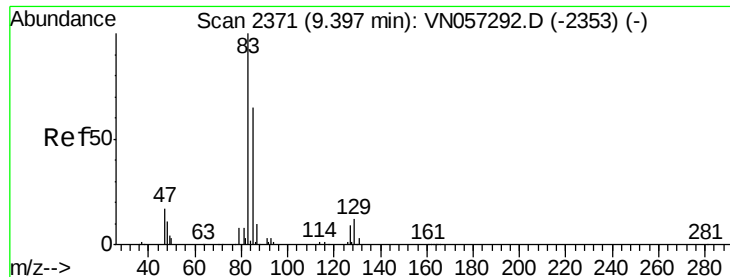


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 19.921 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

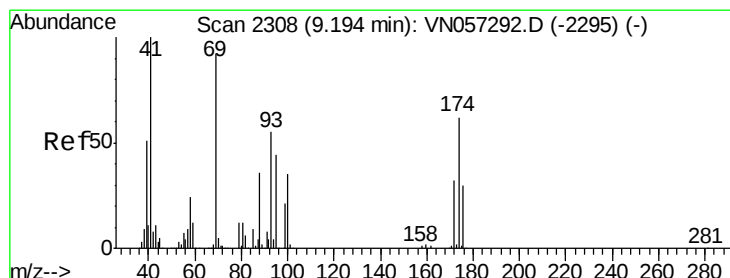
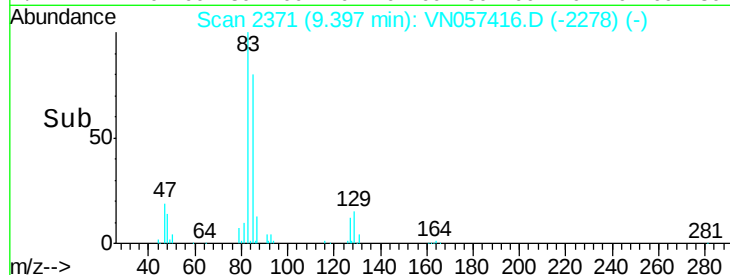
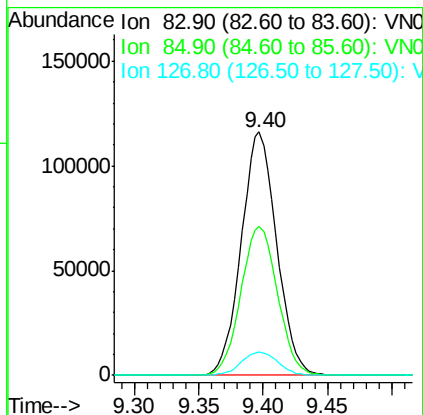
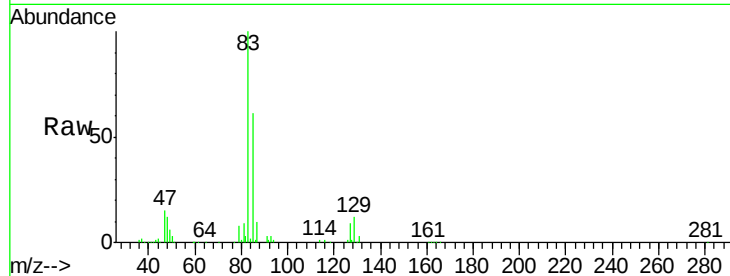
ClientSampleId :

VN0819WBS02

Tot Ion:	83	Resp:	222333
Ion Ratio	Lower	Upper	
83	100		
85	61.0	51.9	77.9
127	9.5	7.2	10.8

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#48

Methyl methacrylate

Concen: 18.560 ug/l

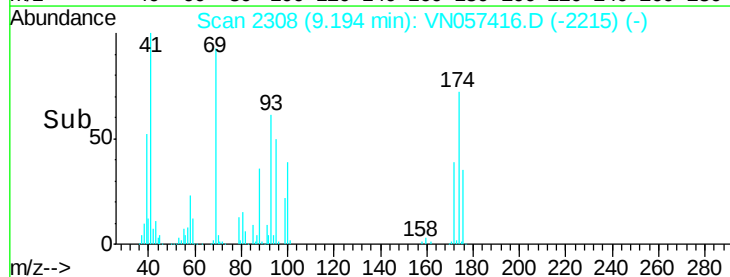
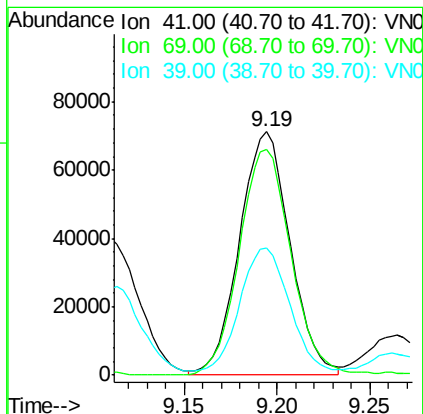
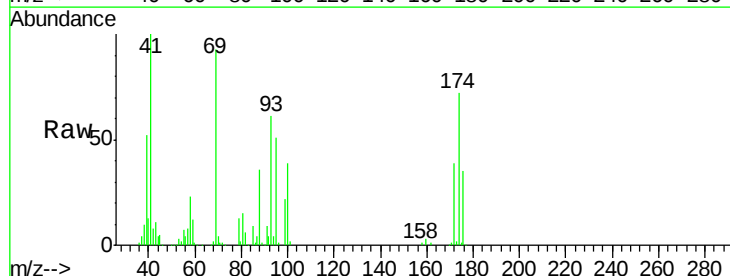
RT: 9.19 min Scan# 2308

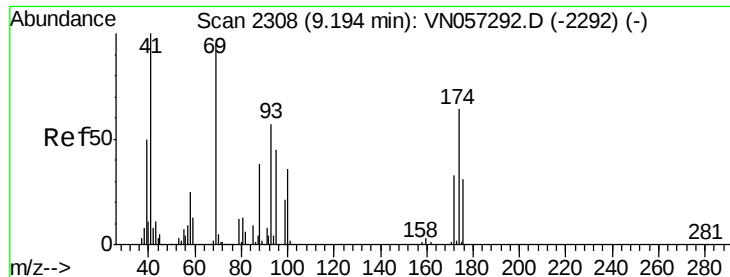
Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Tgt Ion:	41	Resp:	134069
Ion Ratio	Lower	Upper	
41	100		
69	96.0	75.9	113.9
39	52.7	42.3	63.5





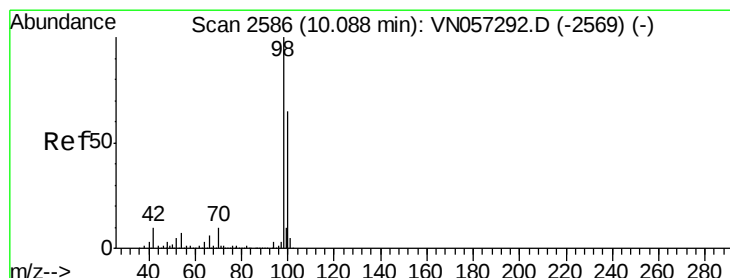
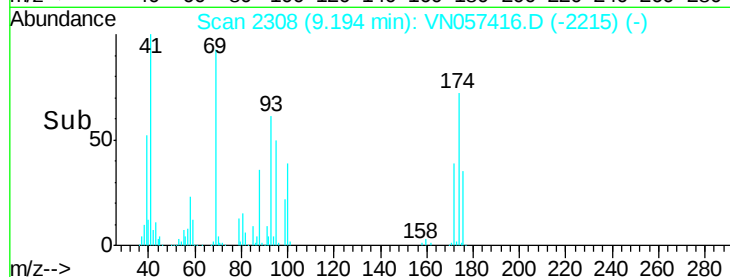
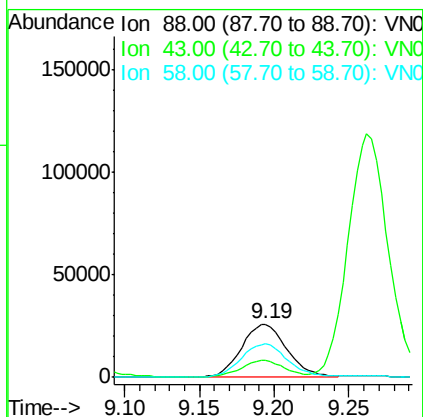
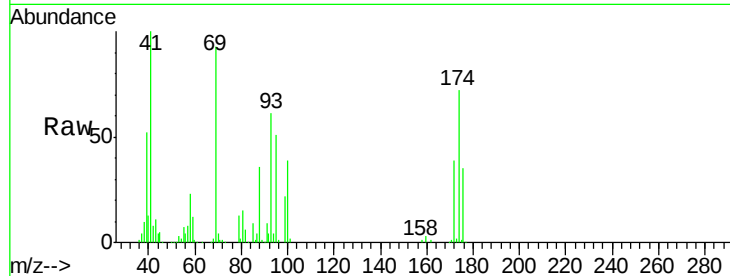
#49
1,4-Dioxane
Concen: 362.242 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBS02

Tot Ion	88	Resp	55027
Ion Ratio	100	Lower	Upper
88	100		
43	29.7	22.9	34.3
58	64.0	52.7	79.1

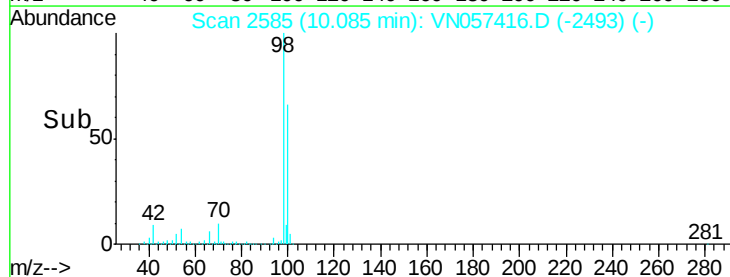
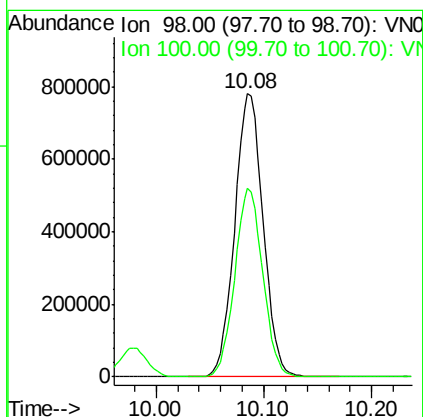
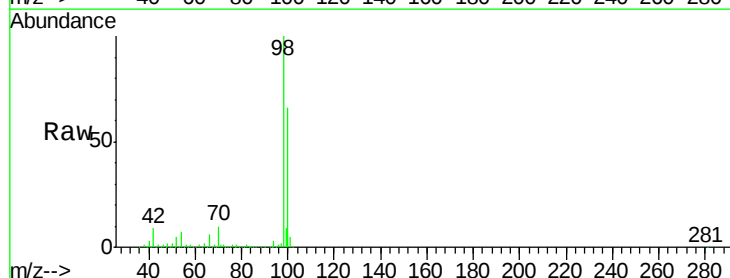
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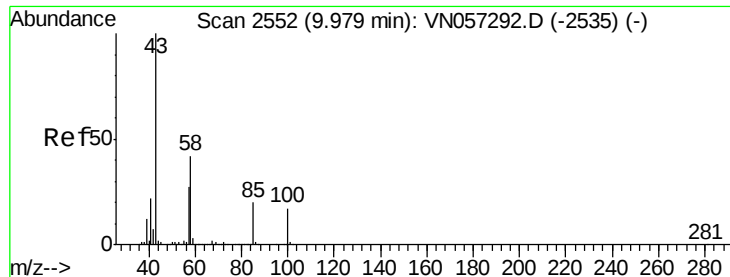
MMDadoda
8/21/2019 9:45:33 AM



#50
Toluene-d8
Concen: 49.295 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Tgt Ion	98	Resp	1433623
Ion Ratio	100	Lower	Upper
98	100		
100	65.5	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 90.450 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBS02

Tot Ion: 43 Resp: 818527

Ion Ratio Lower Upper

43 100

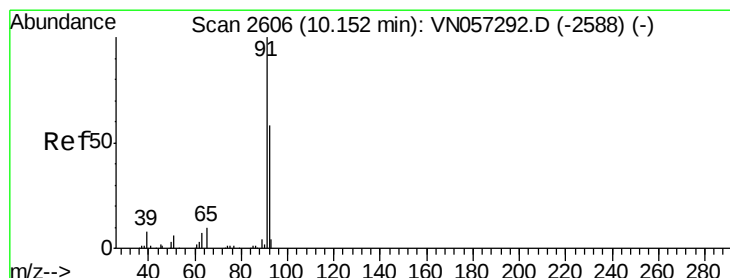
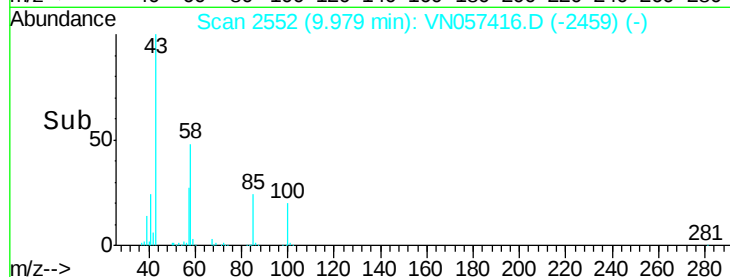
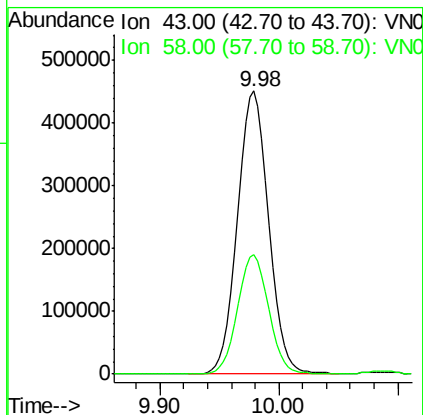
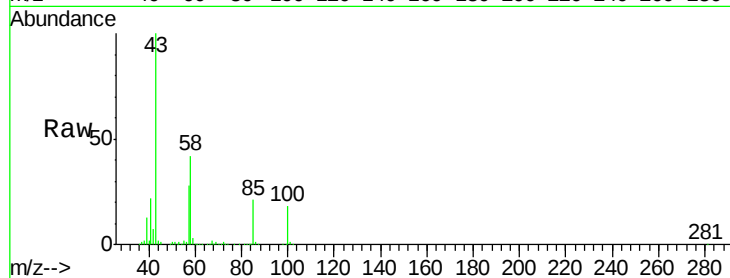
58 42.1 33.2 49.8

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#52

Toluene

Concen: 19.853 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN057416.D

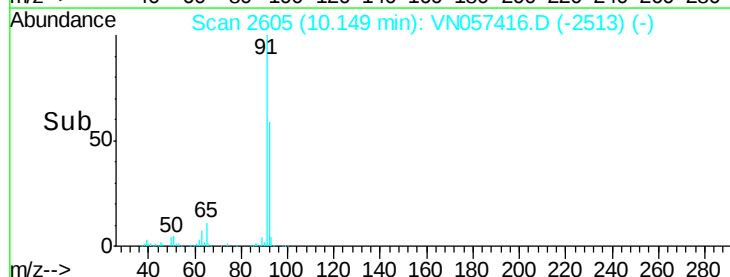
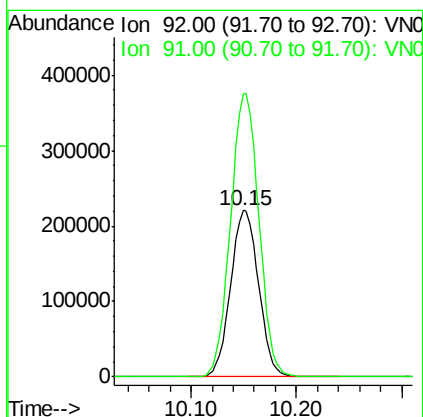
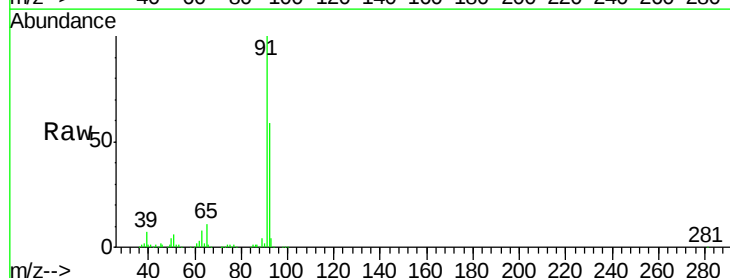
Acq: 19 Aug 2019 22:48

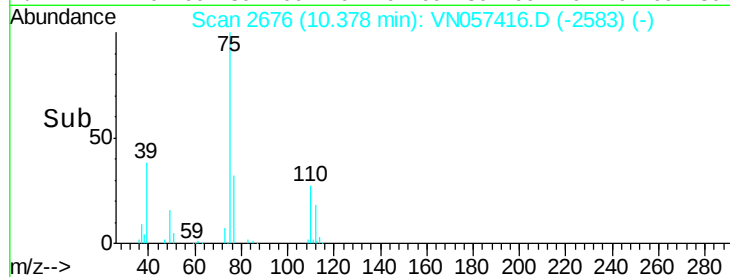
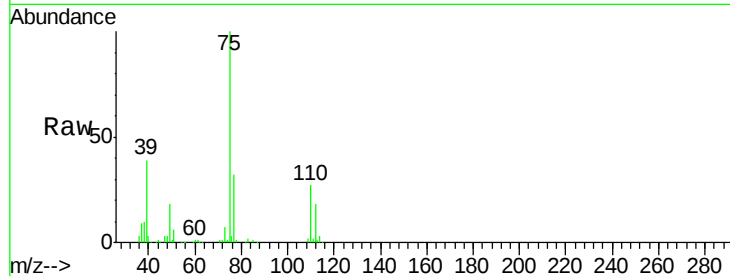
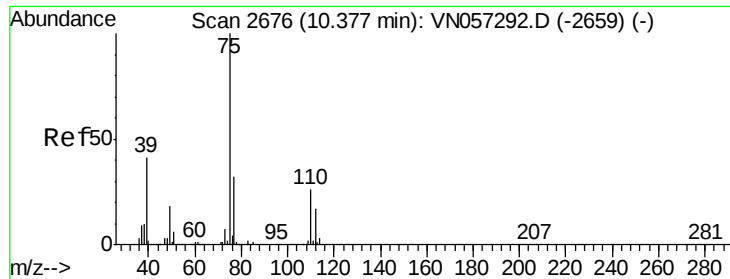
Tgt Ion: 92 Resp: 404792

Ion Ratio Lower Upper

92 100

91 172.6 138.9 208.3





#53

t-1,3-Dichloropropene

Concen: 18.978 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.5	38.3

Instrument :

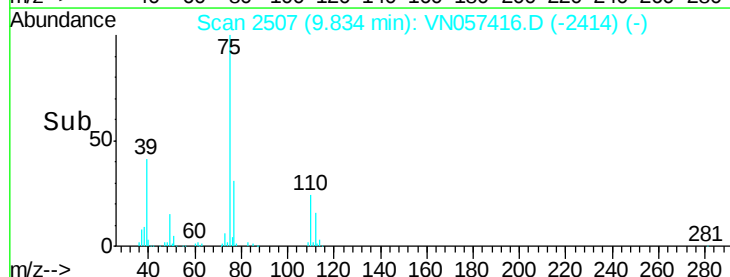
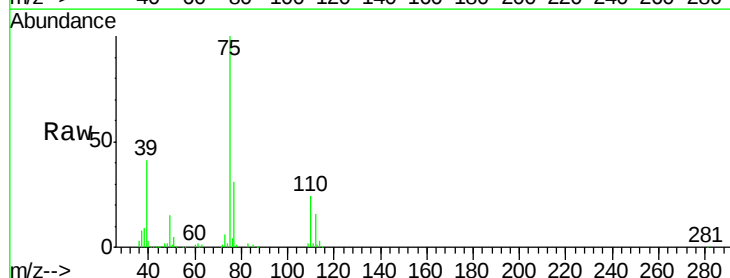
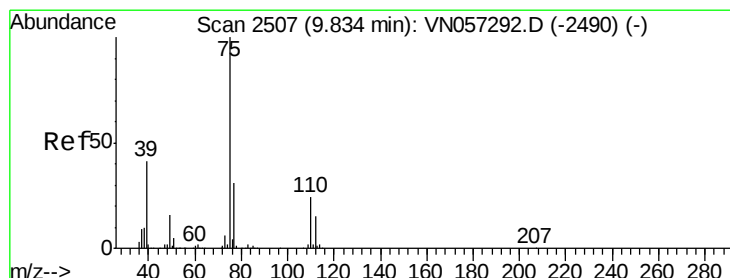
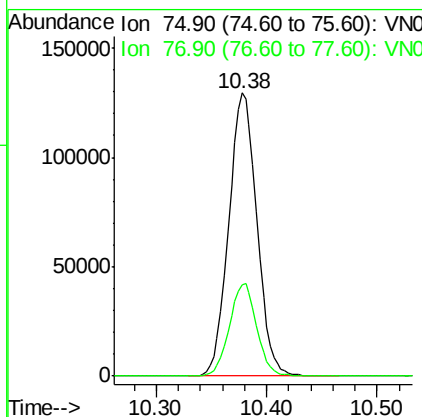
MSVOA_N

ClientSampled :

VN0819WBS02

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#54

cis-1,3-Dichloropropene

Concen: 19.321 ug/l

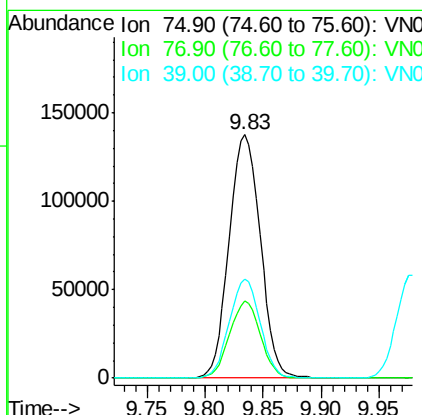
RT: 9.83 min Scan# 2507

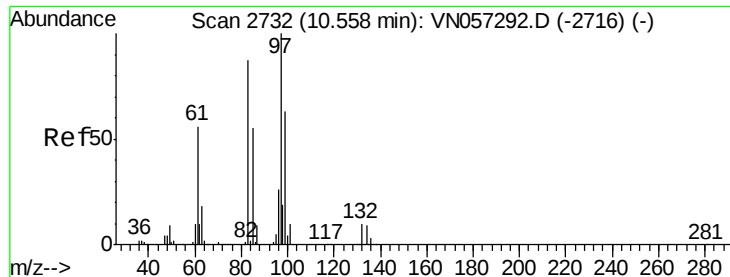
Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.9	37.3
39	40.8	32.7	49.1





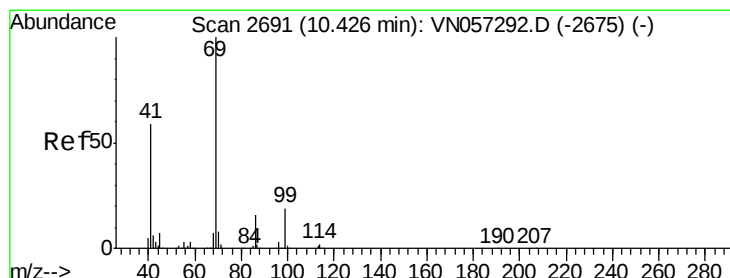
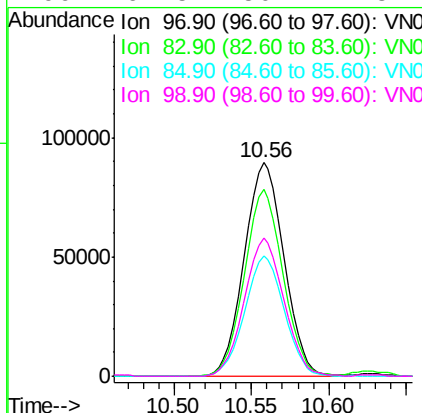
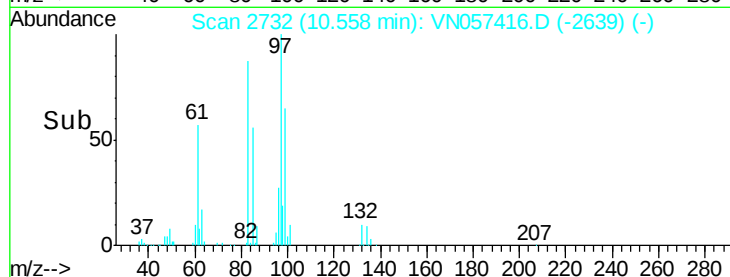
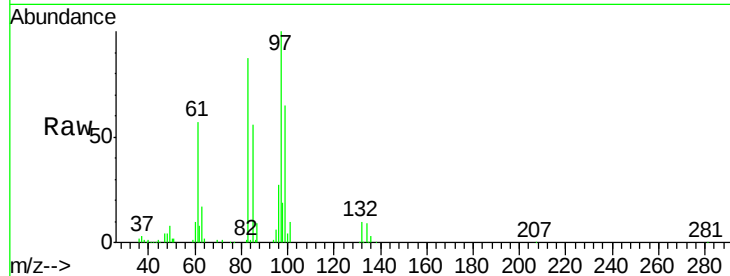
#55
 1,1,2-Trichloroethane
 Concen: 20.037 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBS02

Tot Ion:	97	Resp:	160643
Ion	Ratio	Lower	Upper
97	100		
83	87.2	69.8	104.8
85	56.2	44.1	66.1
99	64.5	50.2	75.2

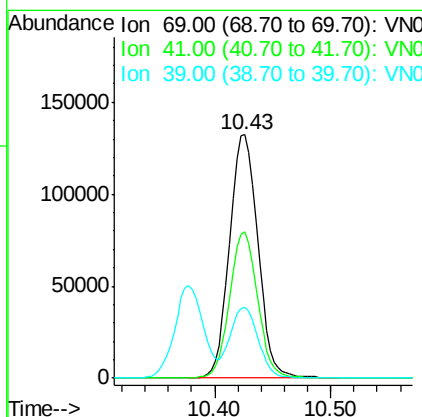
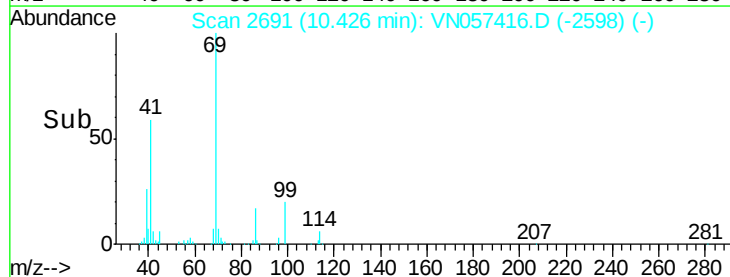
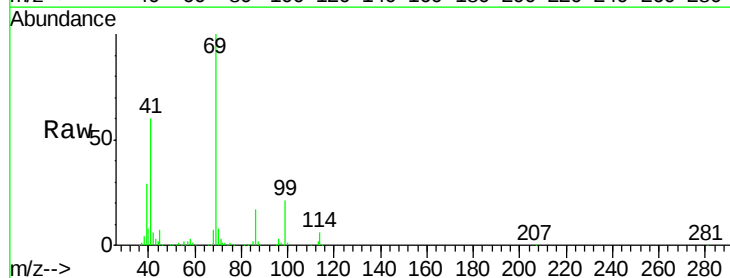
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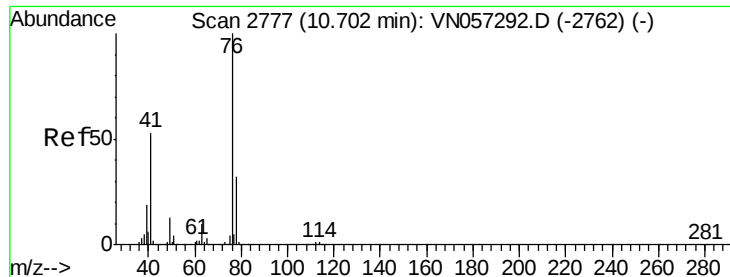
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 8/21/2019 9:45:33 AM



#56
 Ethyl methacrylate
 Concen: 19.102 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Tgt Ion:	69	Resp:	223504
Ion	Ratio	Lower	Upper
69	100		
41	57.9	48.2	72.2
39	28.6	23.4	35.0





#57

1,3-Dichloropropane

Concen: 19.520 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBS02

Tot Ion: 76 Resp: 261441

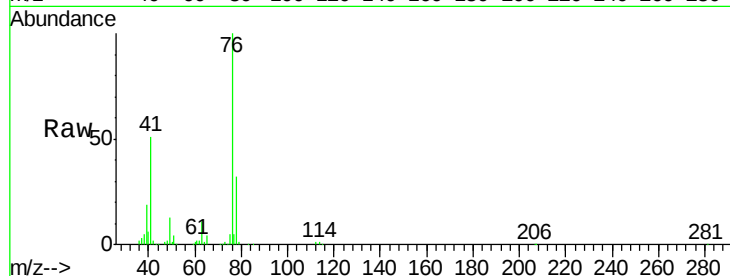
Ion Ratio Lower Upper

76 100

78 32.0 25.6 38.4

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.70

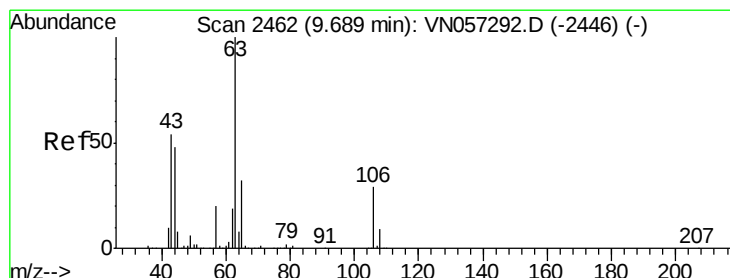
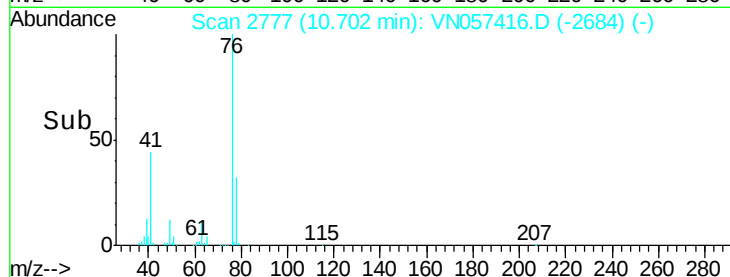
150000

100000

50000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 74.697 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN057416.D

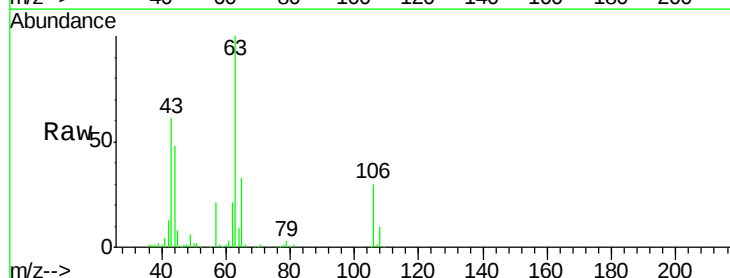
Acq: 19 Aug 2019 22:48

Tgt Ion: 63 Resp: 215888

Ion Ratio Lower Upper

63 100

106 29.5 23.2 34.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

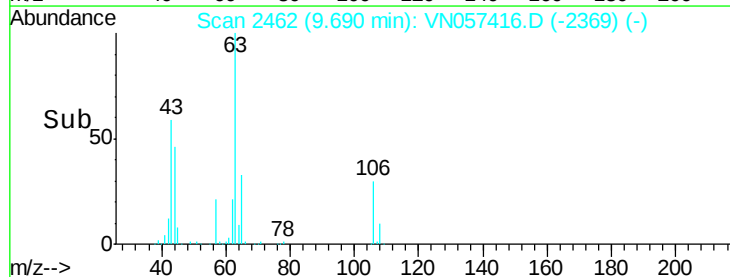
9.69

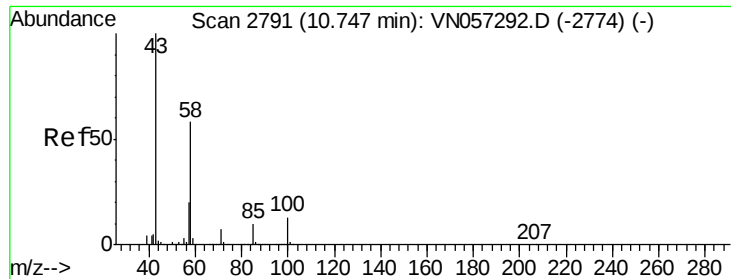
100000

50000

0

Time--> 9.60 9.65 9.70 9.75





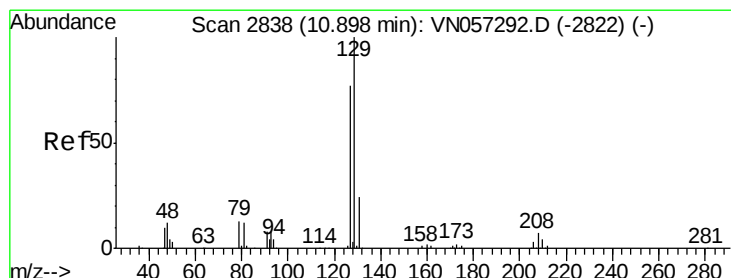
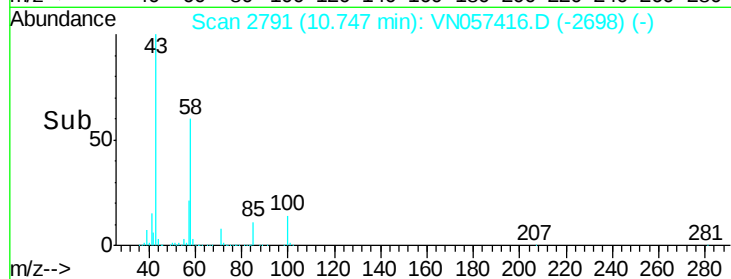
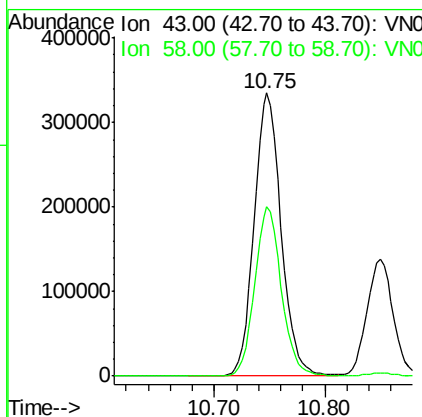
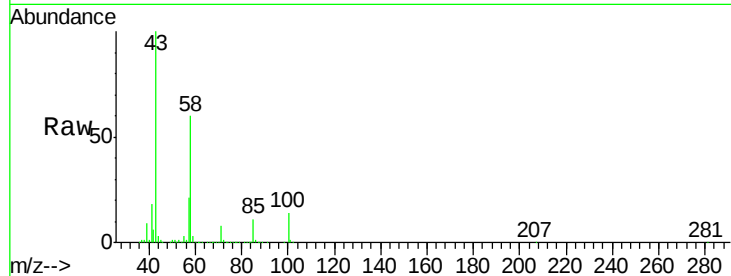
#59
2-Hexanone
Concen: 87.271 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	59.0	28.6	85.9

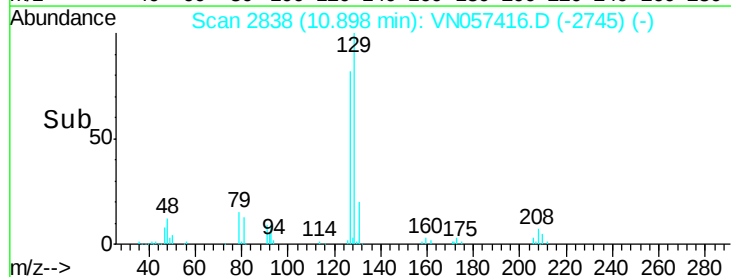
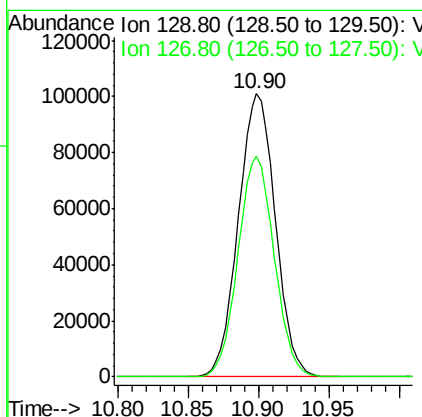
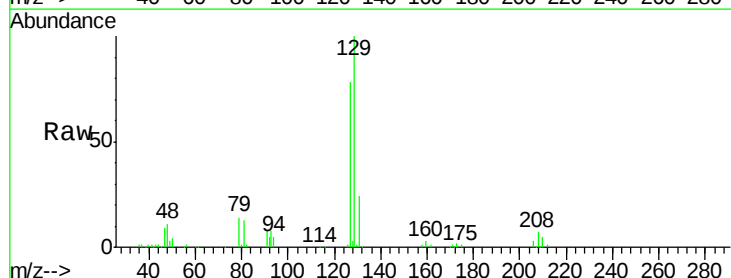
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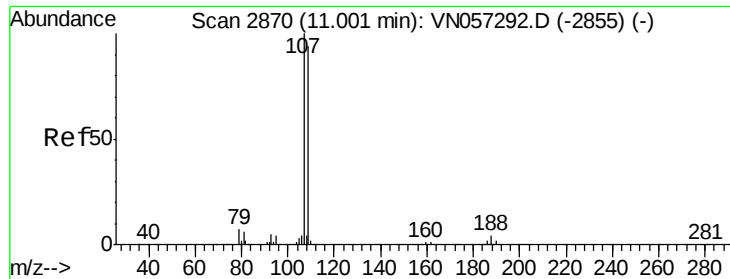
MMDadoda
8/21/2019 9:45:33 AM



#60
Dibromochloromethane
Concen: 20.676 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.5	39.0	116.9





#61

1,2-Dibromoethane

Concen: 20.069 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBS02

Tot Ion: 107 Resp: 171403

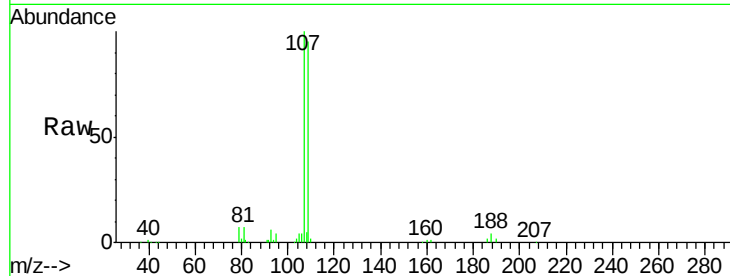
Ion Ratio Lower Upper

107 100

109 94.8 75.7 113.5

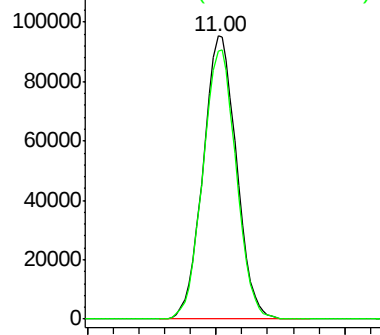
Manual Integrations
APPROVED

MMDadoda
8/21/2019 9:45:33 AM

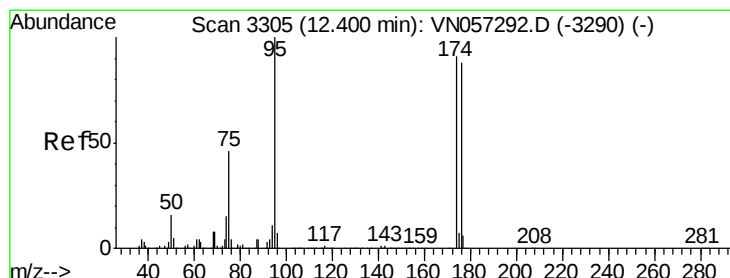
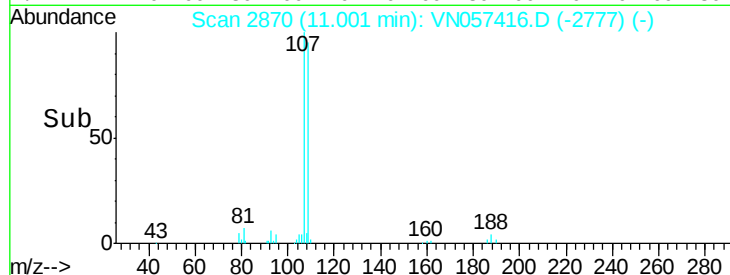


Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 44.842 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

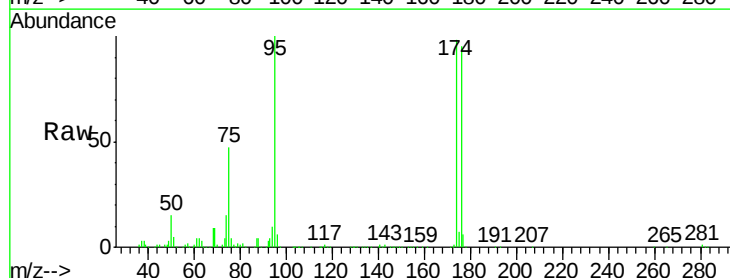
Tgt Ion: 95 Resp: 460865

Ion Ratio Lower Upper

95 100

174 96.8 0.0 185.0

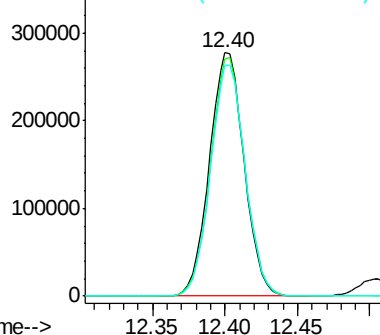
176 94.6 0.0 181.0



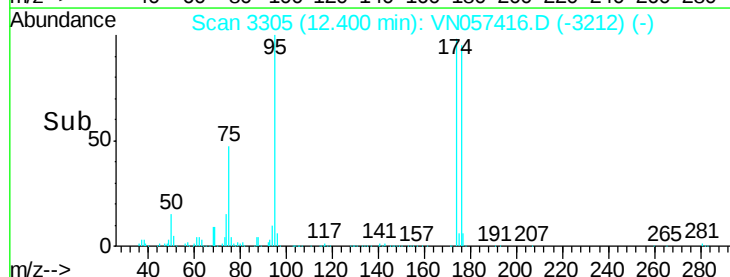
Abundance Ion 94.90 (94.60 to 95.60): V

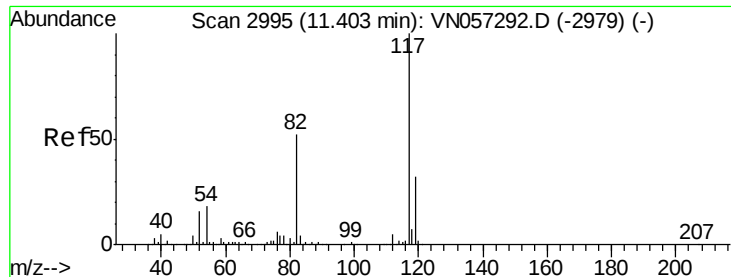
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time--> 12.35 12.40 12.45





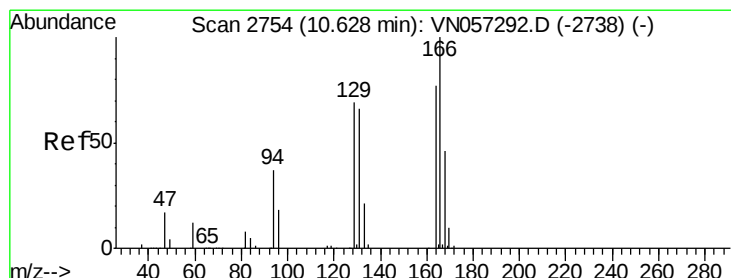
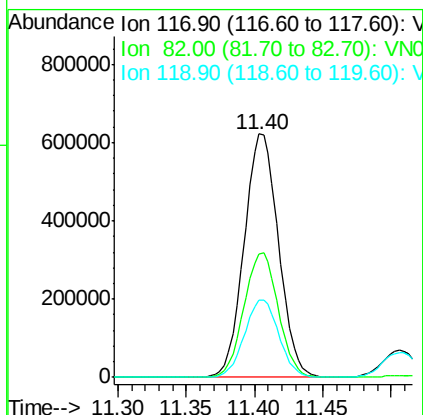
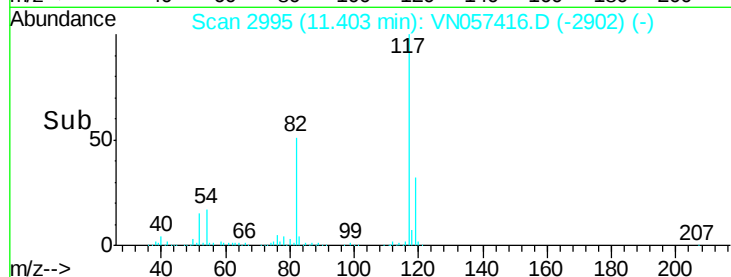
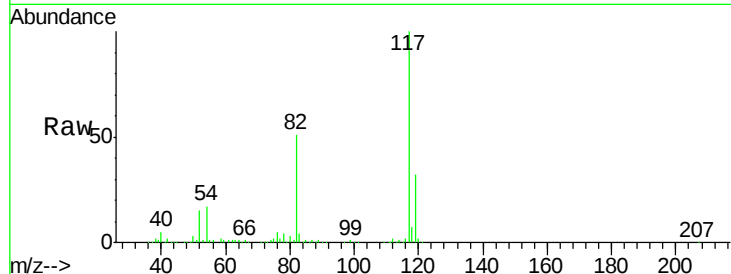
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBS02

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.9	41.2	61.8
119	31.8	25.8	38.8

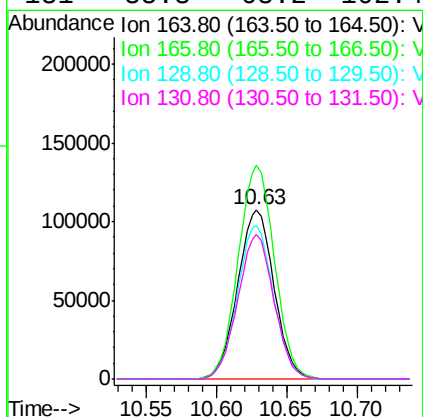
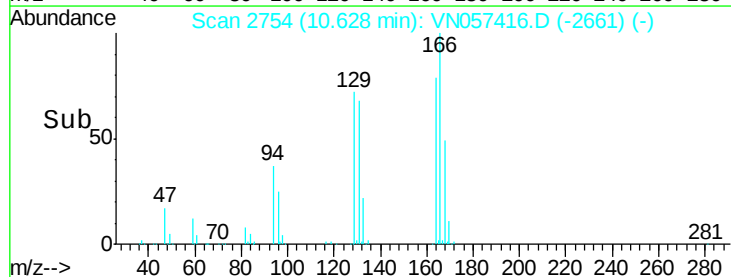
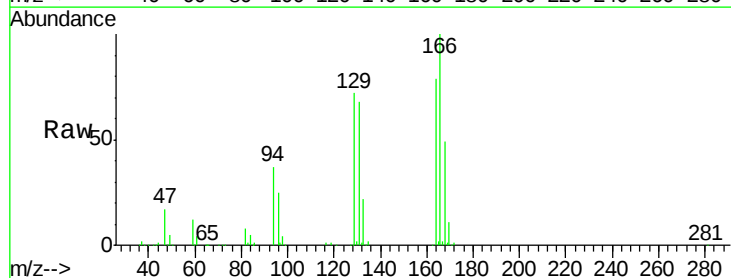
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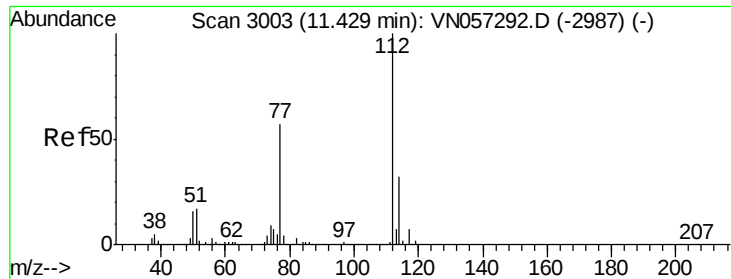
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#64
Tetrachloroethene
Concen: 20.673 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.4	103.5	155.3
129	90.8	71.2	106.8
131	85.3	68.2	102.4





#65

Chlorobenzene

Concen: 19.996 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBS02

Tot Ion:112 Resp: 442918

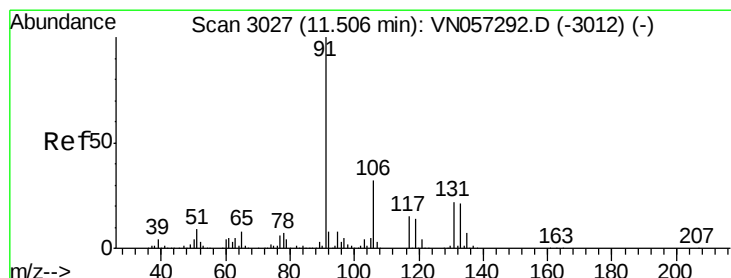
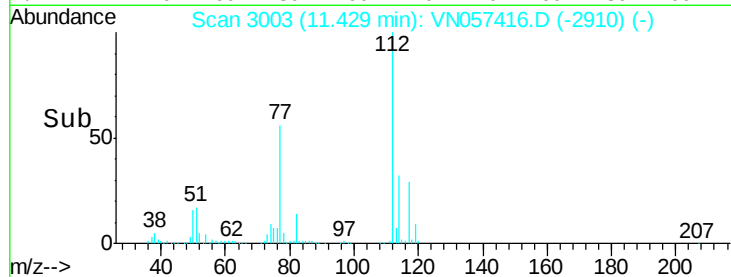
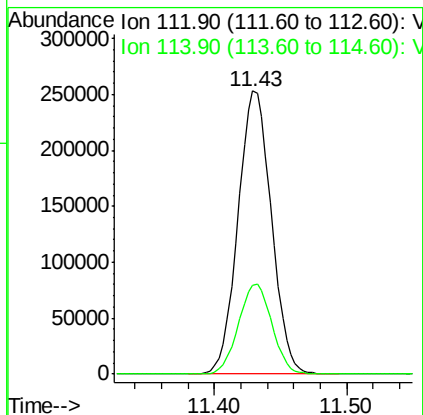
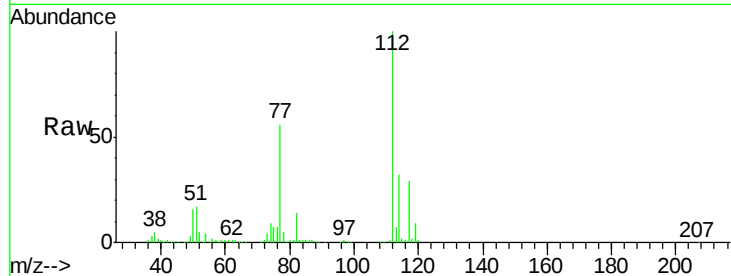
Ion Ratio Lower Upper

112 100

114 31.6 25.7 38.5

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 20.840 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

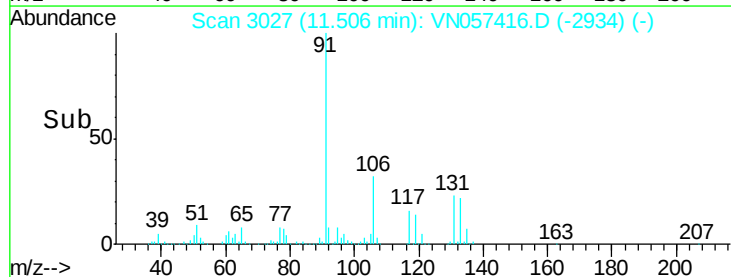
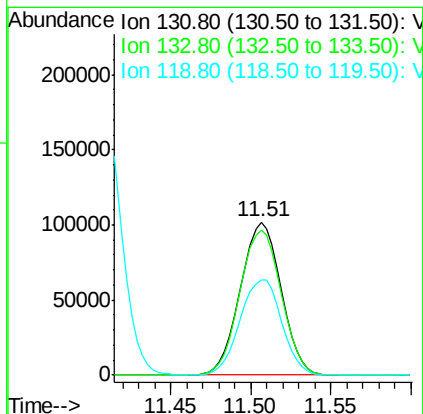
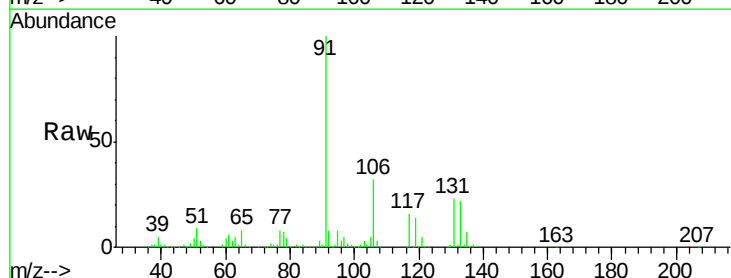
Tgt Ion:131 Resp: 176783

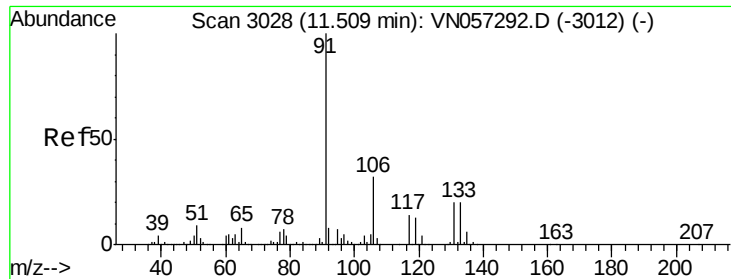
Ion Ratio Lower Upper

131 100

133 96.8 47.6 142.8

119 64.1 32.0 96.2





#67

Ethyl Benzene

Concen: 19.478 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

ClientSampled :

VN0819WBS02

Tot Ion: 91 Resp: 754808

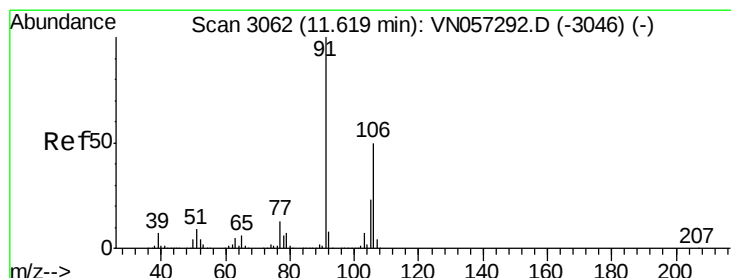
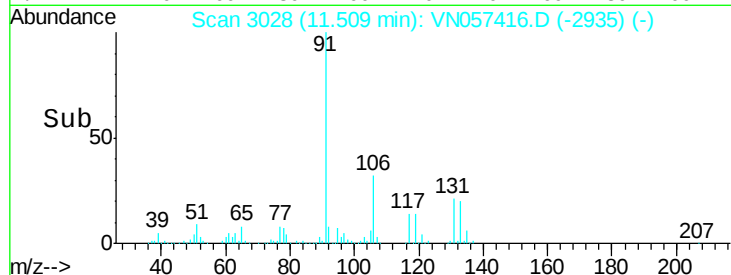
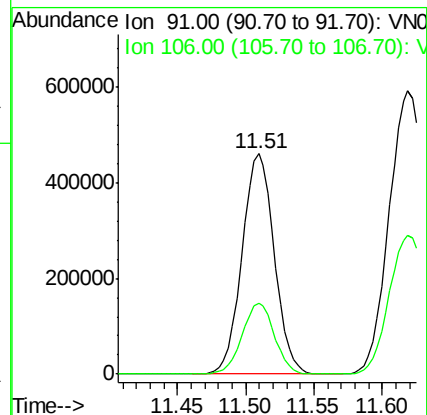
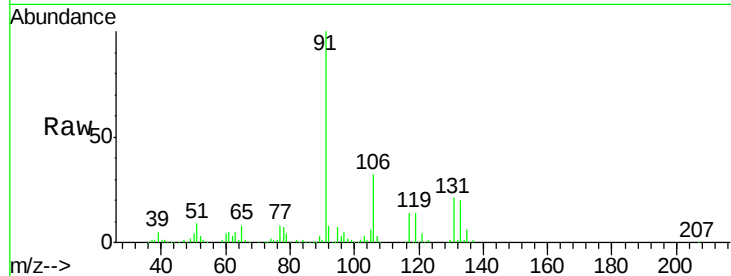
Ion Ratio Lower Upper

91 100

106 32.3 25.5 38.3

Manual Integrations
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#68

m/p-Xylenes

Concen: 39.486 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN057416.D

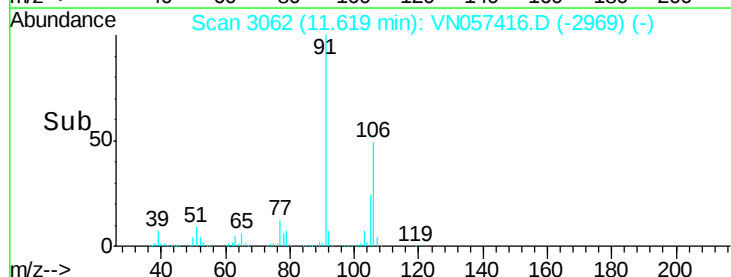
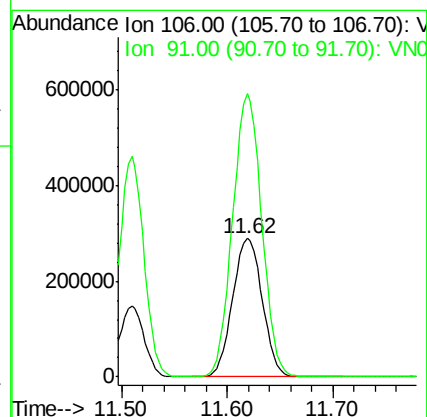
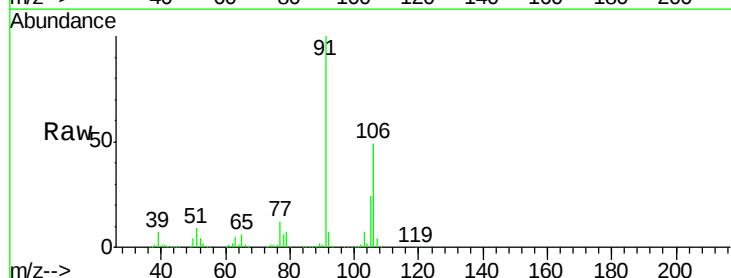
Acq: 19 Aug 2019 22:48

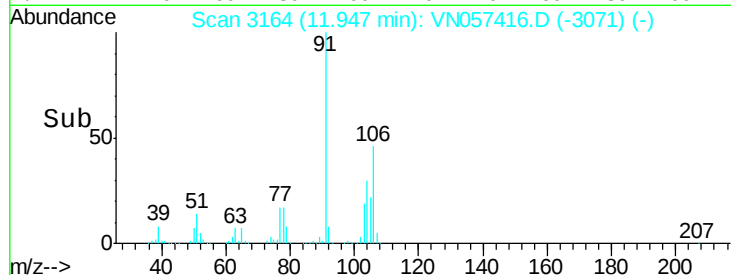
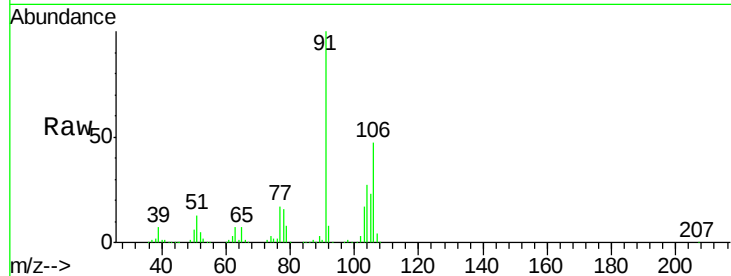
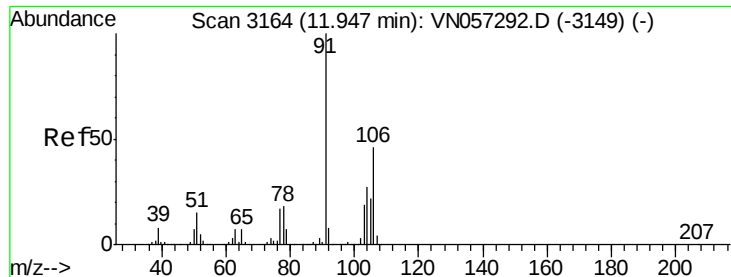
Tgt Ion: 106 Resp: 563776

Ion Ratio Lower Upper

106 100

91 199.7 161.5 242.3





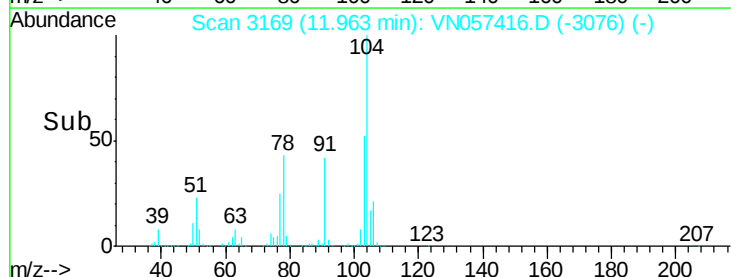
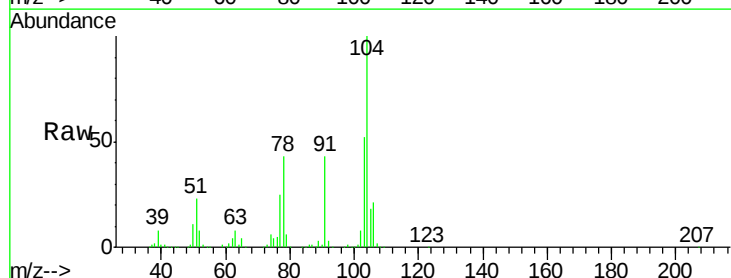
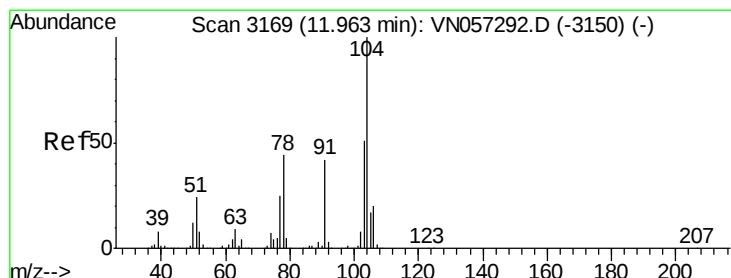
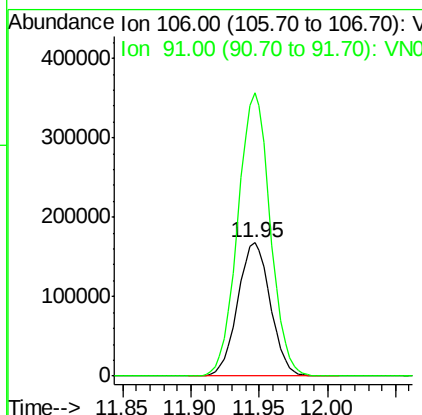
#69
o-Xylene
Concen: 19.970 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	279957		
91	209.4	106.3	319.0		

Instrument :
MSVOA_N
ClientSampled :
VN0819WBS02

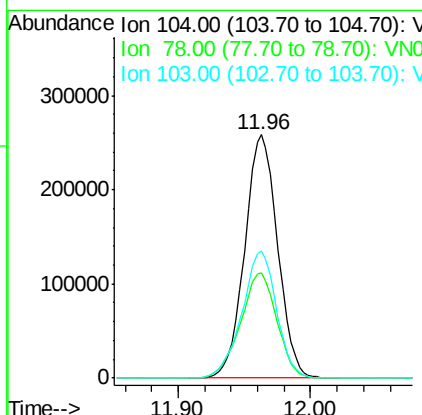
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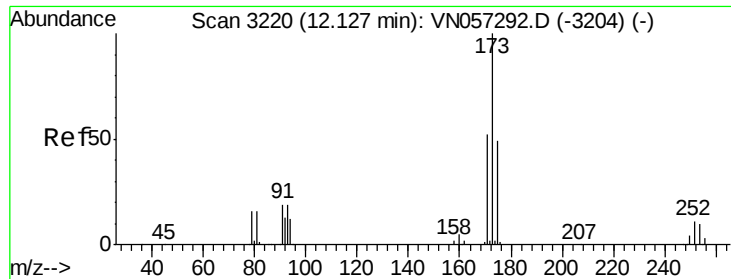
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#70
Styrene
Concen: 19.904 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	444797		
78	47.7	39.2	58.8		
103	55.0	44.6	66.8		





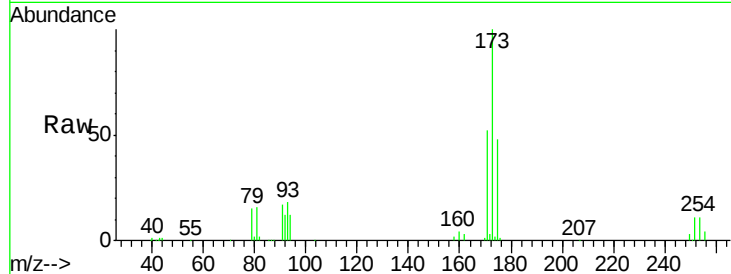
#71
Bromoform
Concen: 20.895 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBS02

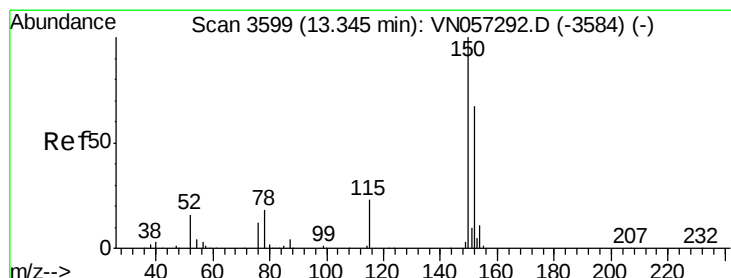
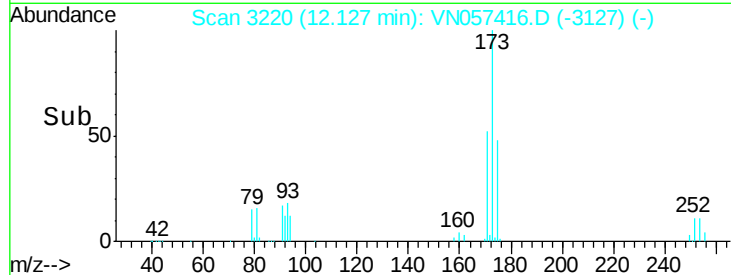
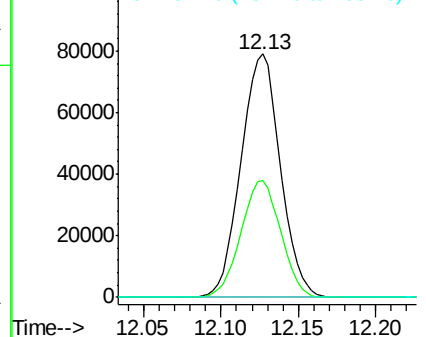
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.2	72.6
254	0.0	0.2	0.2

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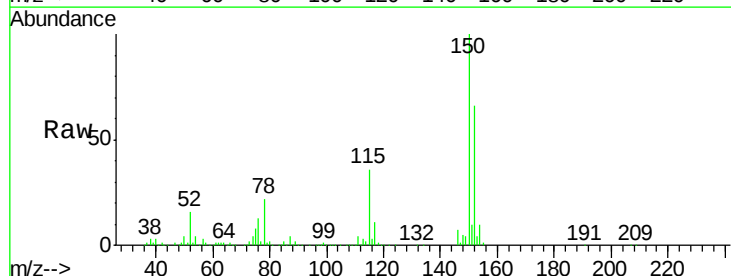


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

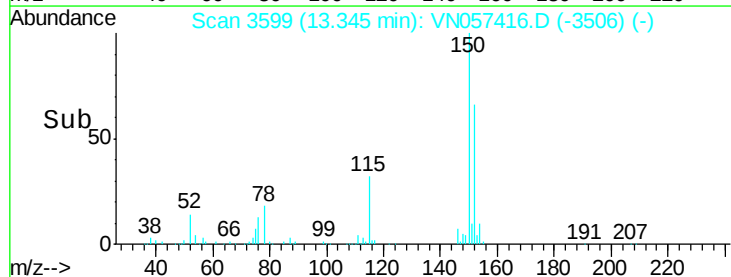
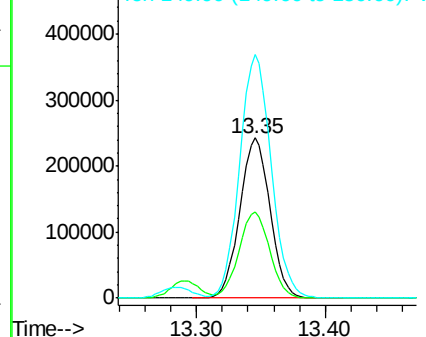


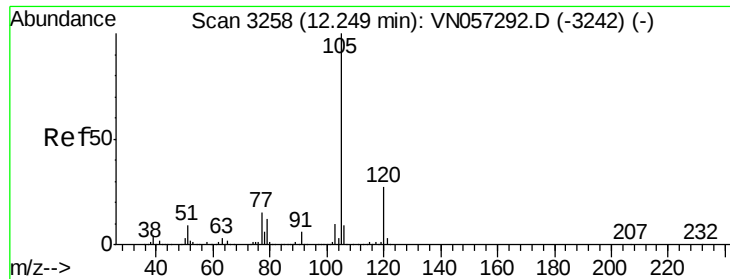
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	27.3	81.9
150	159.1	0.0	344.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.707 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBS02

Tot Ion: 105 Resp: 741713

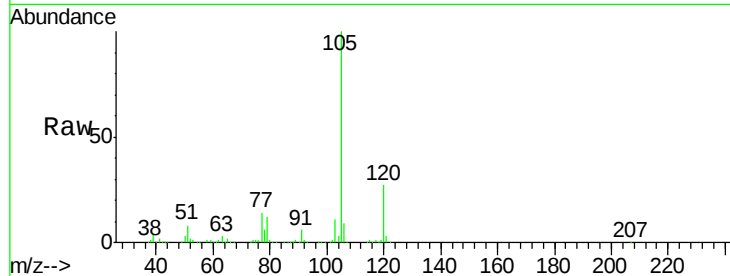
Ion Ratio Lower Upper

105 100

120 27.3 13.2 39.6

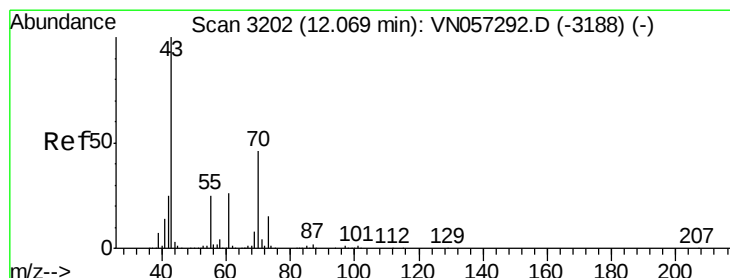
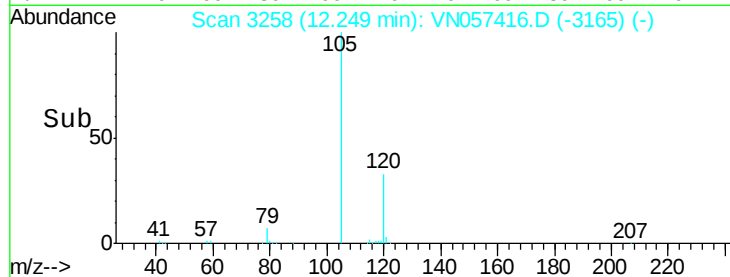
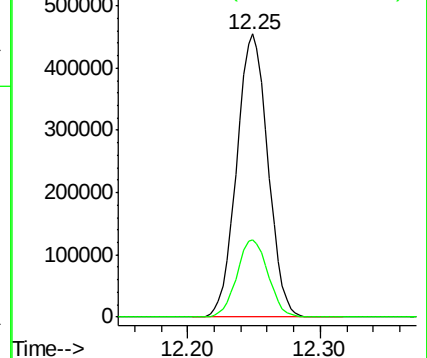
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 17.630 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Tgt Ion: 43 Resp: 201982

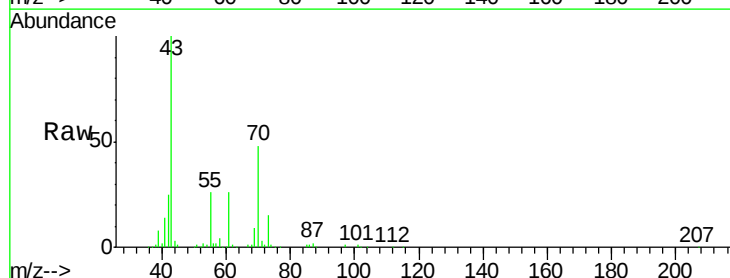
Ion Ratio Lower Upper

43 100

70 47.8 36.2 54.2

55 26.9 20.1 30.1

61 26.4 20.9 31.3

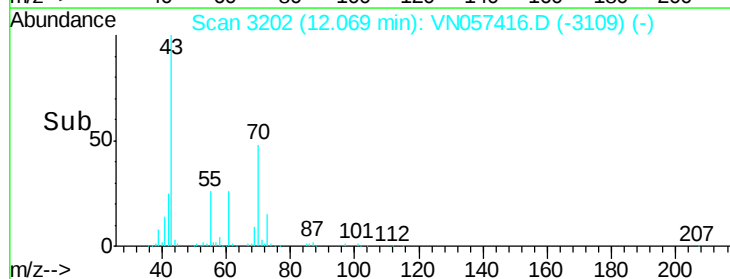
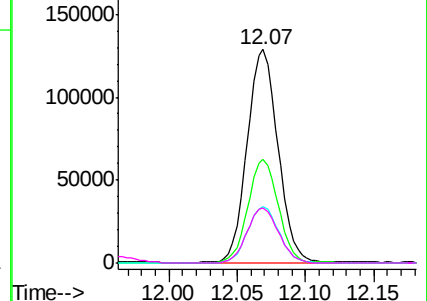


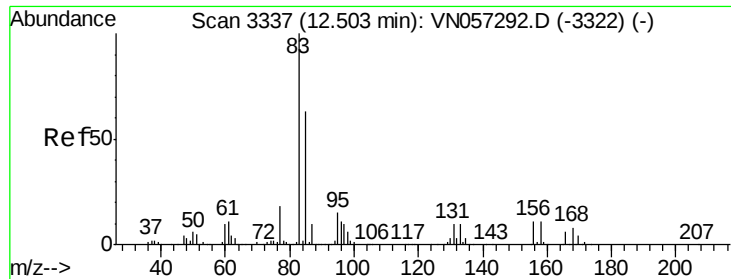
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 21.265 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

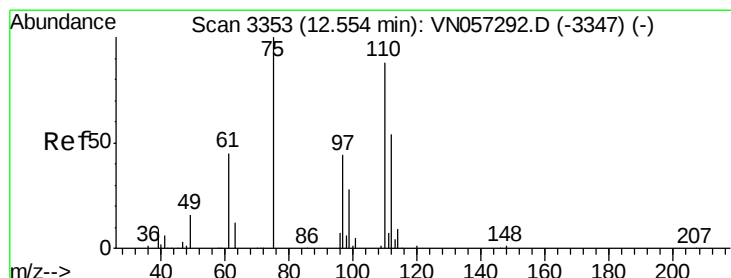
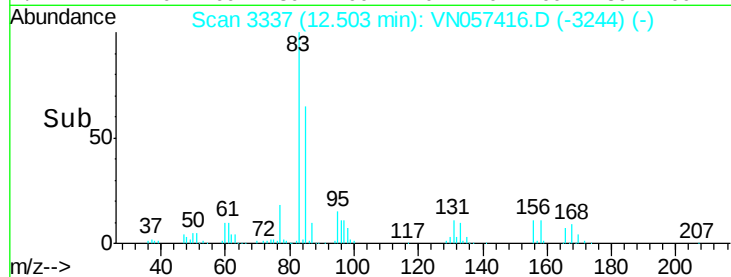
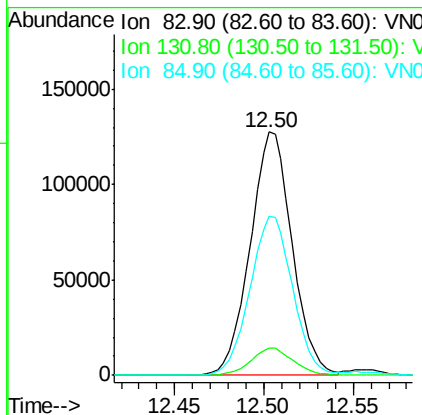
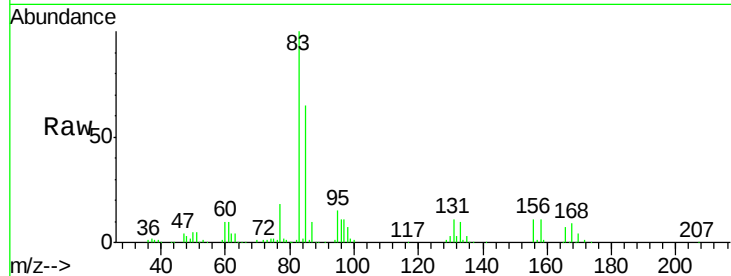
ClientSampleId :

VN0819WBS02

Tot Ion:	83	Resp:	209187
Ion Ratio	Lower	Upper	
83	100		
131	11.5	5.4	16.2
85	66.4	32.3	96.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 20.963 ug/l m

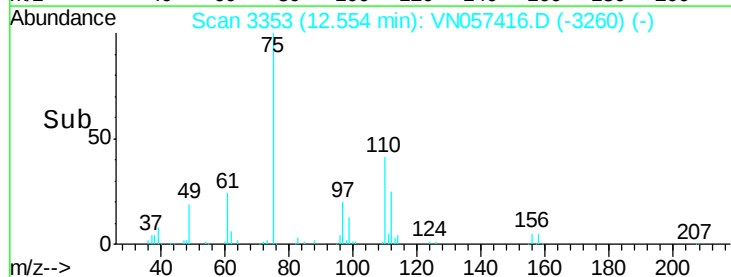
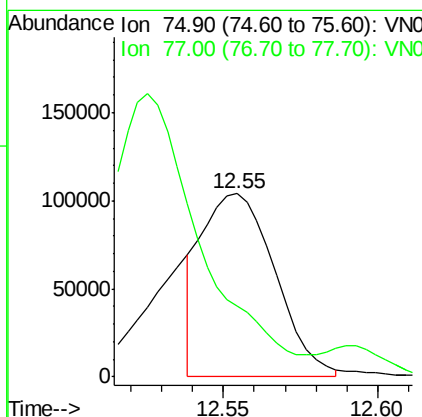
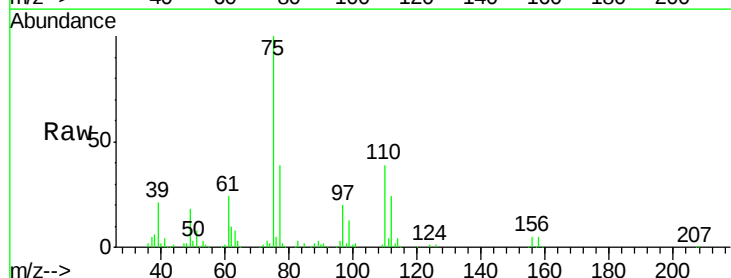
RT: 12.55 min Scan# 3353

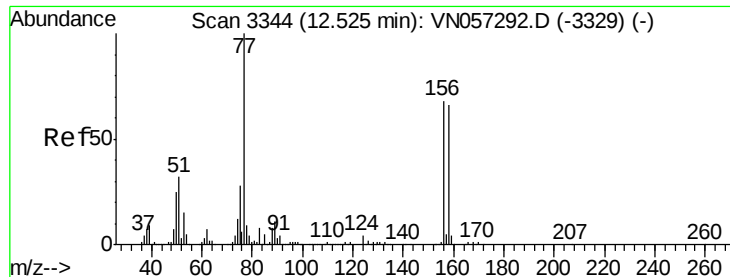
Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Tgt Ion:	75	Resp:	171367
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 22.631 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

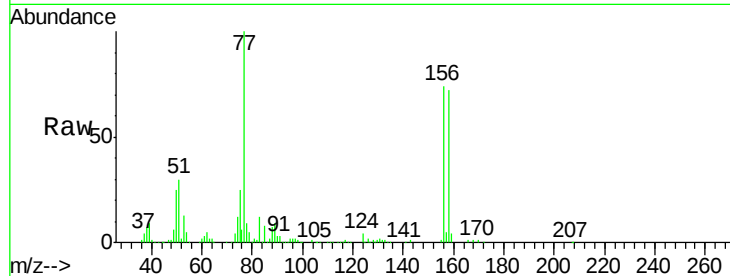
ClientSampleId :

VN0819WBS02

Tot Ion:	156	Resp:	201515
Ion Ratio		Lower	Upper
156	100		
77	167.2	89.8	269.6
158	96.5	49.3	147.8

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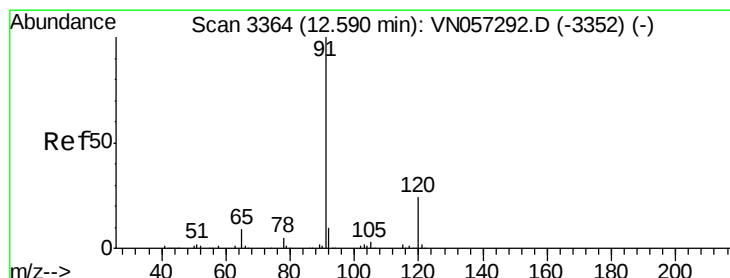
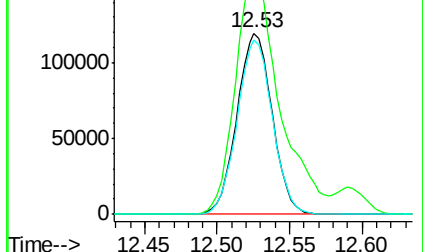
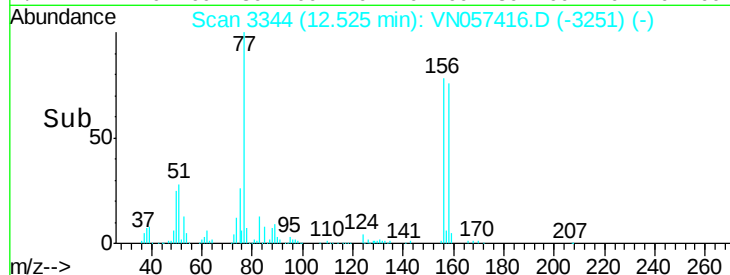
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.209 ug/l

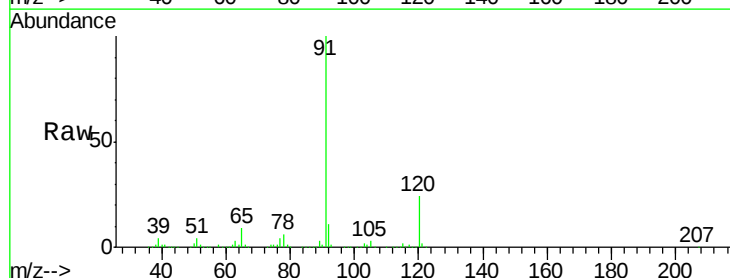
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN057416.D

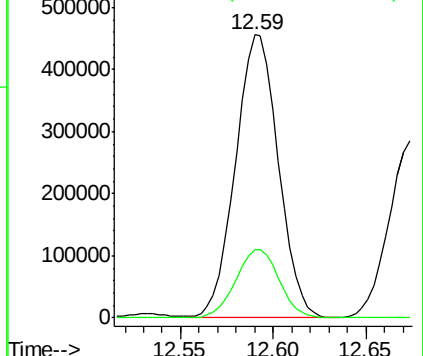
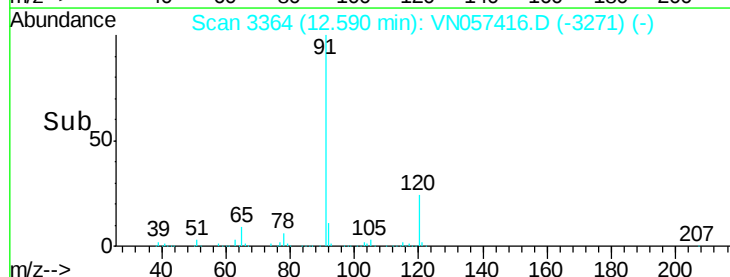
Acq: 19 Aug 2019 22:48

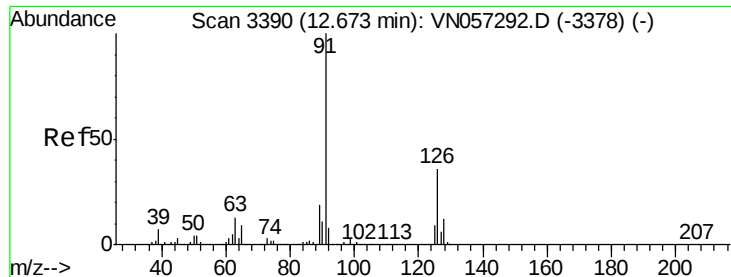
Tgt Ion:	91	Resp:	730299
Ion Ratio		Lower	Upper
91	100		
120	24.6	11.9	35.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.571 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBS02

Tot Ion: 91 Resp: 476273

Ion Ratio Lower Upper

91 100

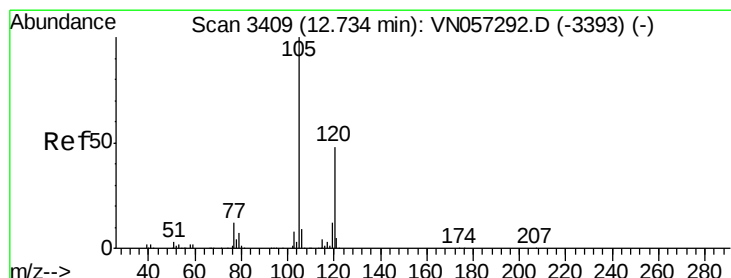
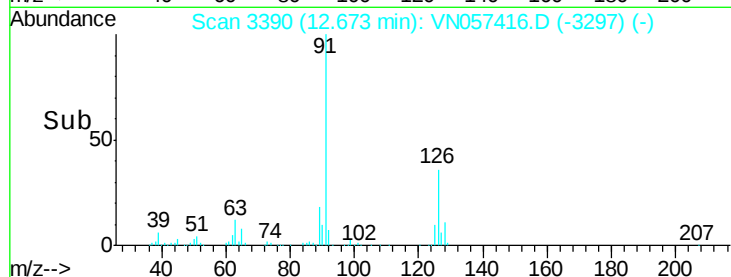
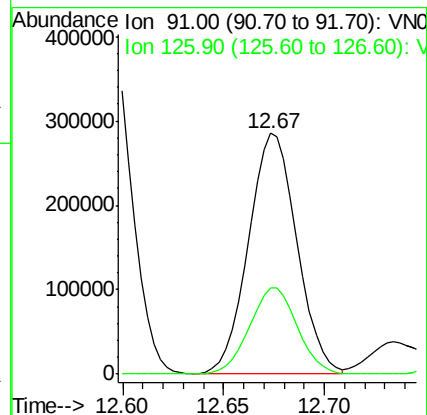
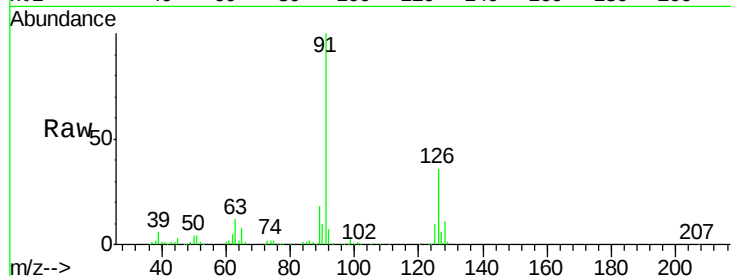
126 35.9 18.1 54.1

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 21.671 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057416.D

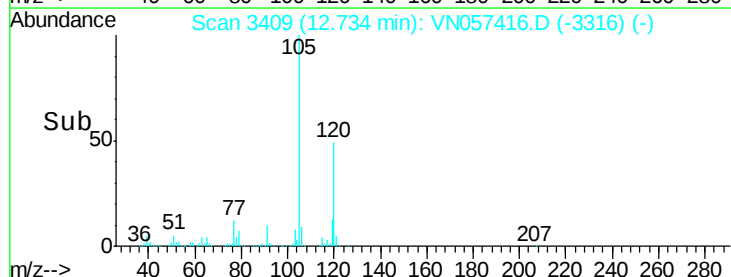
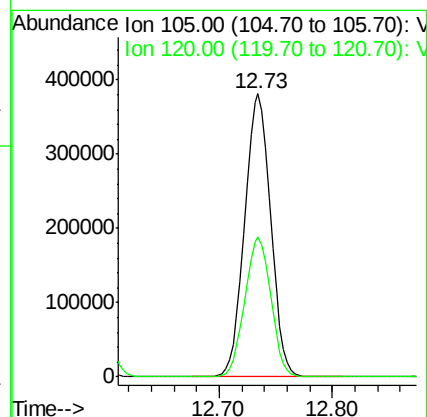
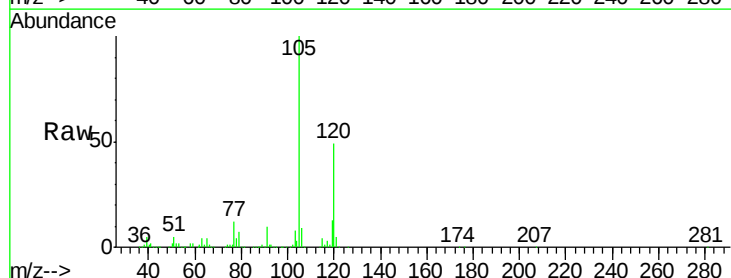
Acq: 19 Aug 2019 22:48

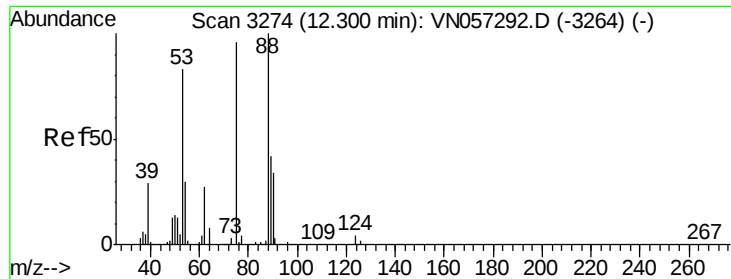
Tgt Ion: 105 Resp: 610488

Ion Ratio Lower Upper

105 100

120 49.7 24.3 73.0





#81

trans-1,4-Dichloro-2-butene

Concen: 18.184 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

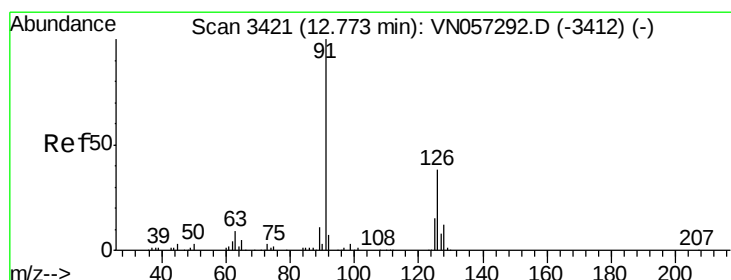
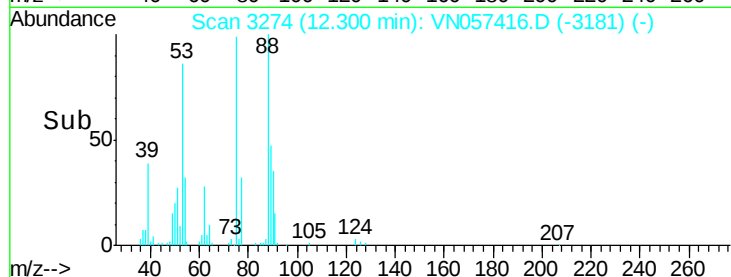
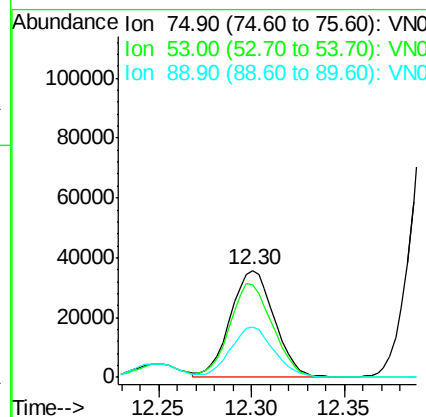
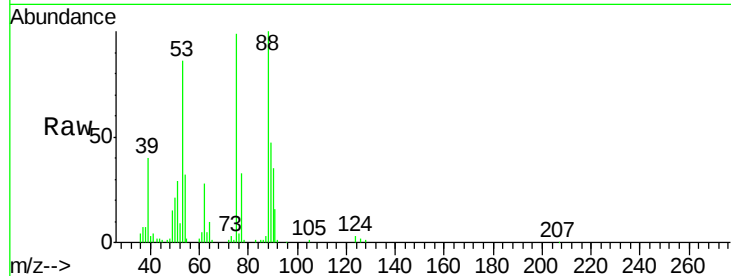
ClientSampleId :

VN0819WBS02

Tot Ion:	75	Resp:	58876
Ion	Ratio	Lower	Upper
75	100		
53	85.7	67.9	101.9
89	46.3	36.2	54.4

Manual Integrations
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#82

4-Chlorotoluene

Concen: 18.497 ug/l

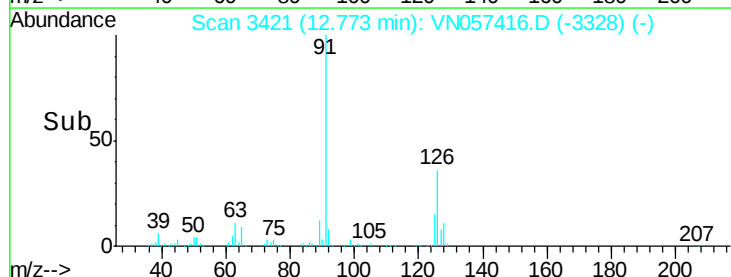
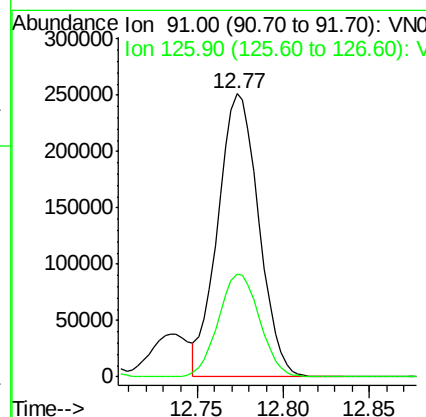
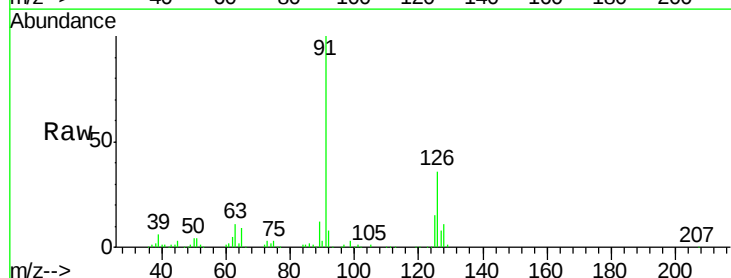
RT: 12.77 min Scan# 3421

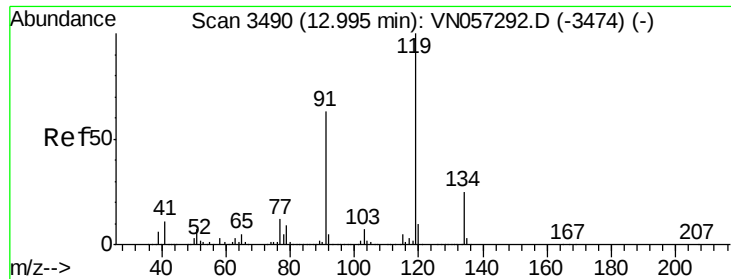
Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Tgt Ion:	91	Resp:	416718
Ion	Ratio	Lower	Upper
91	100		
126	36.8	17.3	51.7





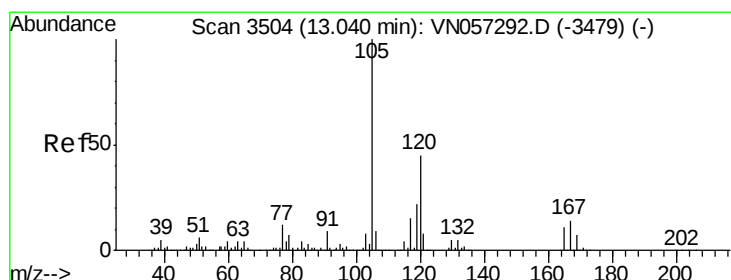
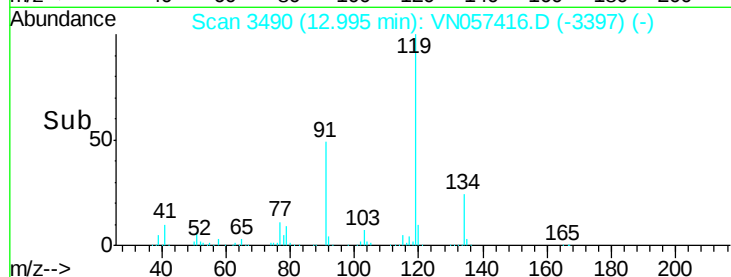
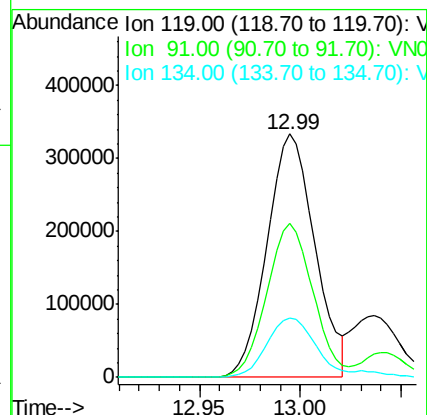
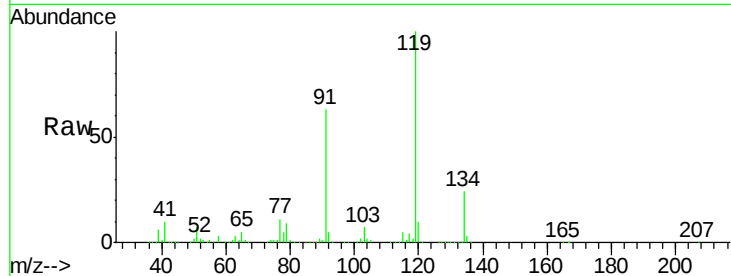
#83
 tert-Butylbenzene
 Concen: 21.901 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBS02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	550936		
91	61.3		31.3	93.8
134	24.5		13.1	39.1

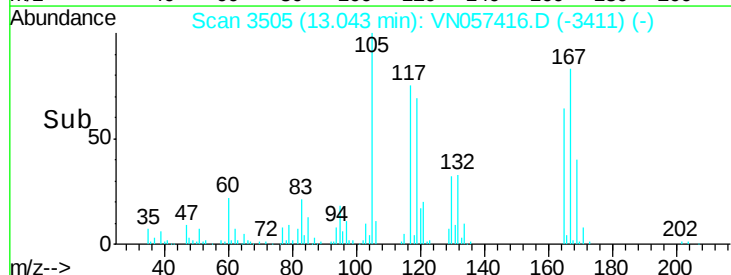
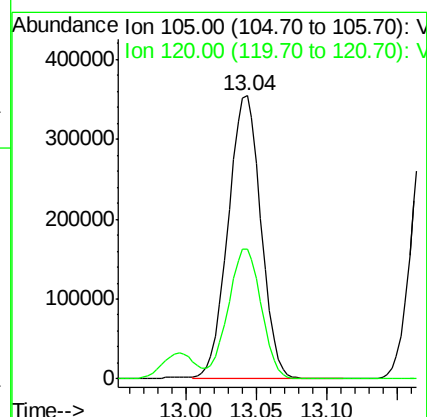
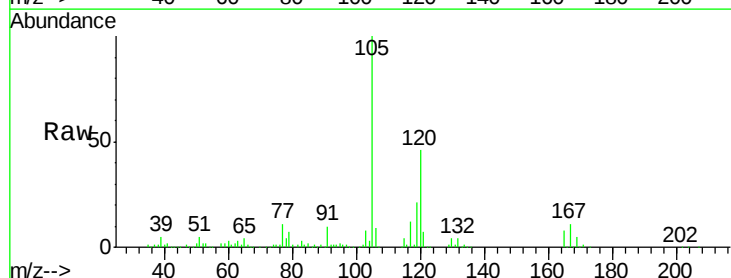
Manual Integrations
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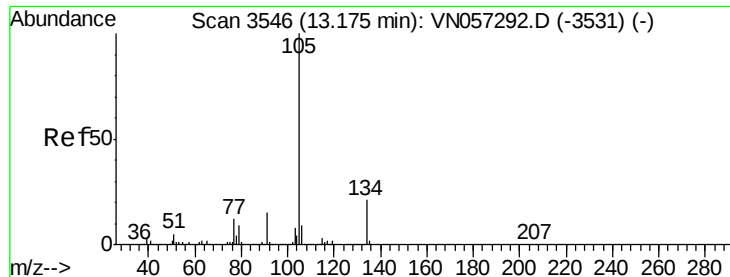
MMDadoda
 8/21/2019 9:45:33 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.244 ug/l
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	575668		
120	46.2		22.6	67.7





#85

sec-Butylbenzene

Concen: 20.504 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBS02

Tot Ion:105 Resp: 639068

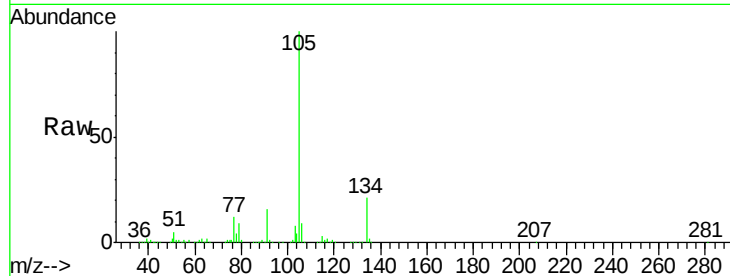
Ion Ratio Lower Upper

105 100

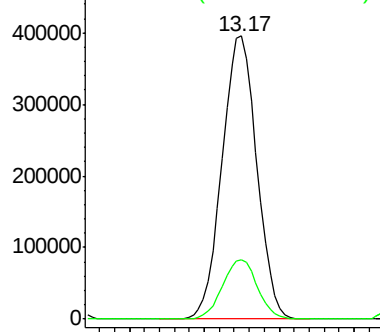
134 21.1 10.4 31.2

Manual Integrations
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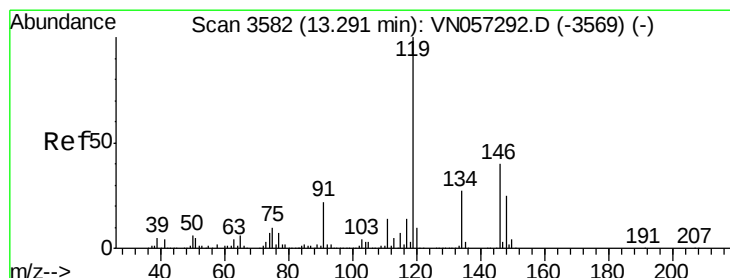
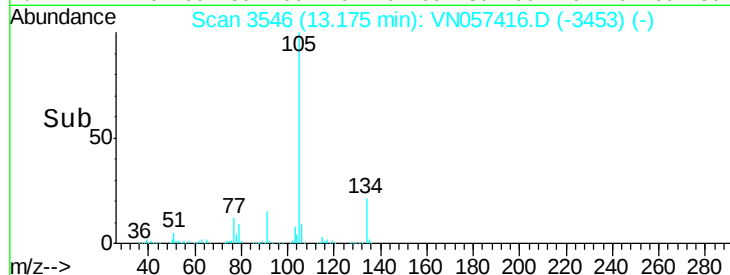
MMDadoda
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Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 19.423 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

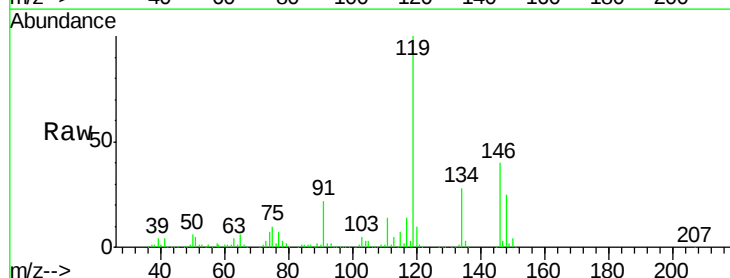
Tgt Ion:119 Resp: 565477

Ion Ratio Lower Upper

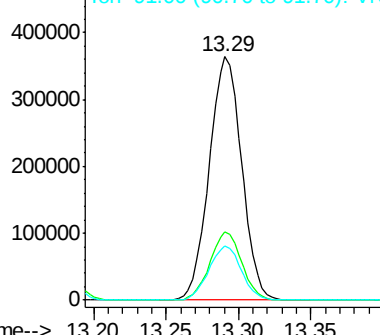
119 100

134 27.4 13.4 40.2

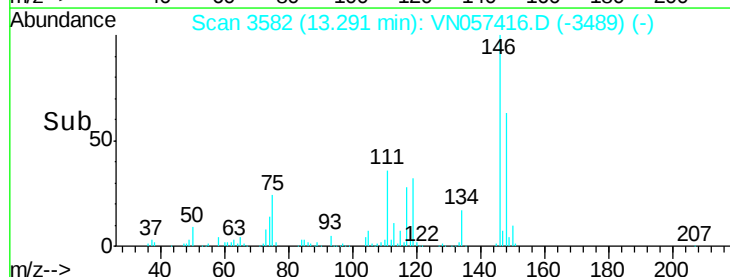
91 22.1 11.2 33.5

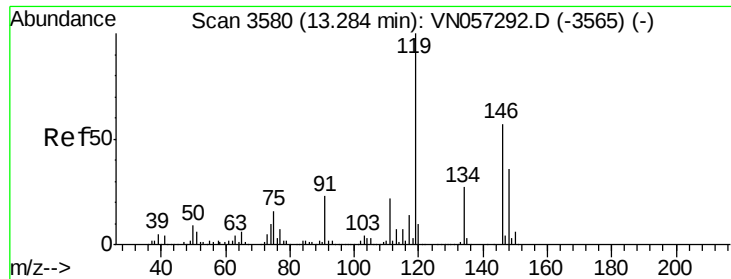


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V



Time-->





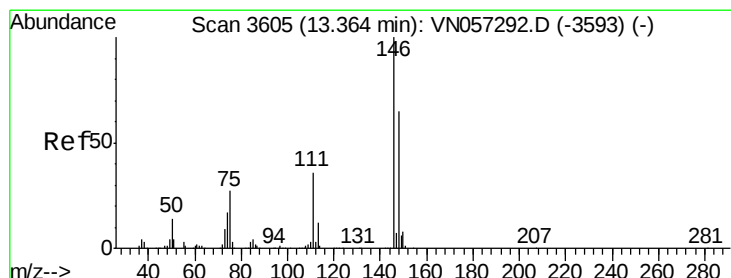
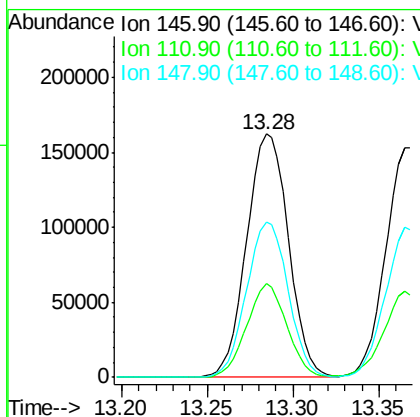
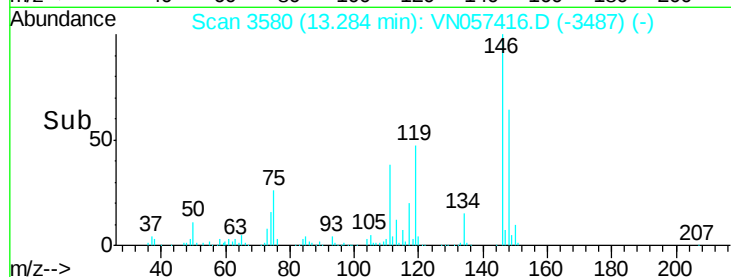
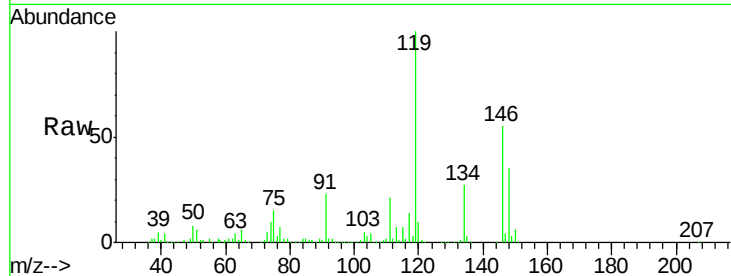
#87
 1,3-Dichlorobenzene
 Concen: 19.832 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Instrument :
 MSVOA_N
 ClientSampled :
 VN0819WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.8	18.7	56.1
148	63.4	31.7	95.1

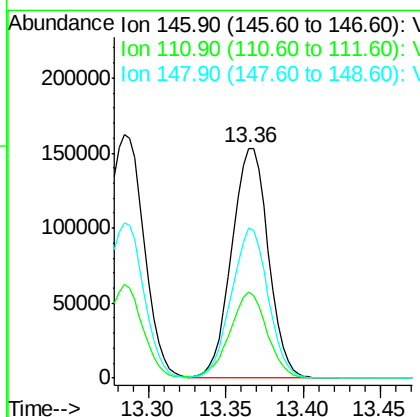
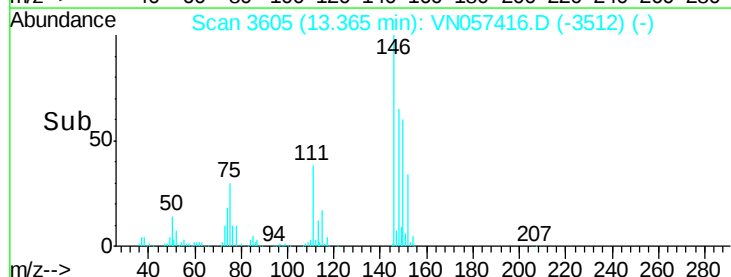
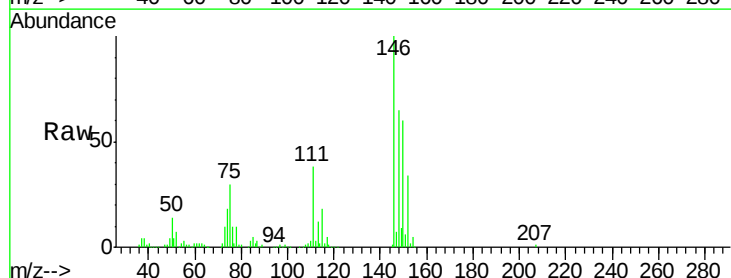
Manual Integrations
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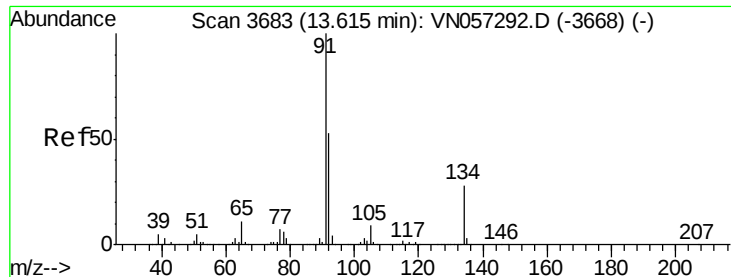
MMDadoda
 8/21/2019 9:45:33 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.230 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	18.4	55.4
148	65.2	32.5	97.4





#89

n-Butylbenzene

Concen: 20.483 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Instrument :

MSVOA_N

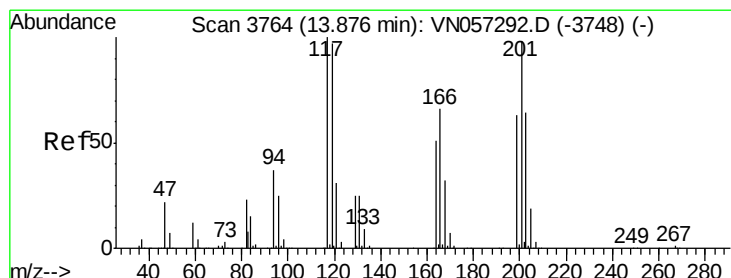
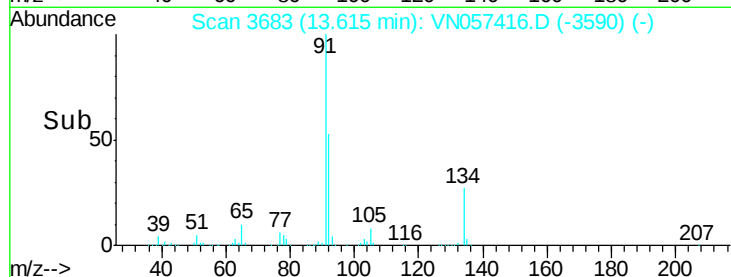
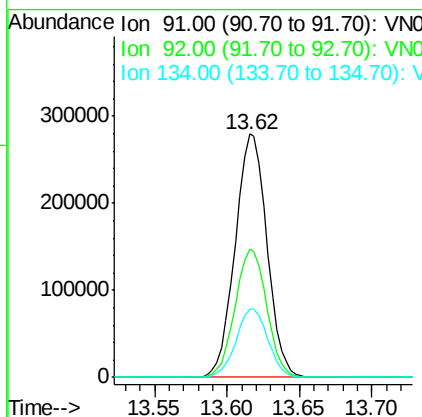
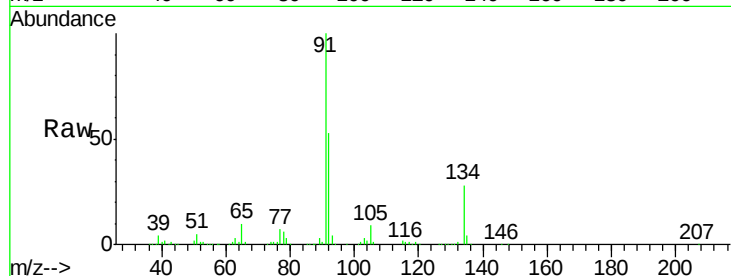
ClientSampleId :

VN0819WBS02

Tot Ion:	91	Resp:	425132
Ion Ratio	Lower	Upper	
91	100		
92	52.5	26.2	78.6
134	28.2	13.9	41.7

Manual Integrations
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8/21/2019 9:45:33 AM



#90

Hexachloroethane

Concen: 22.167 ug/l

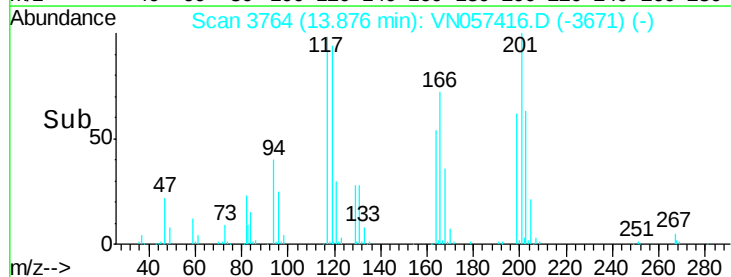
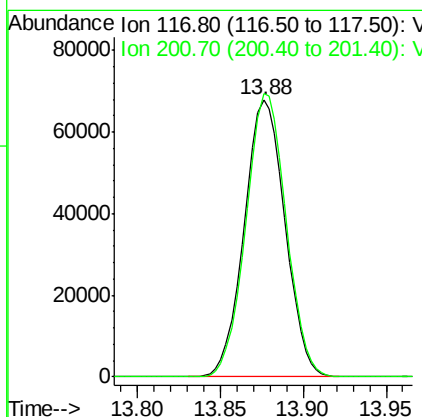
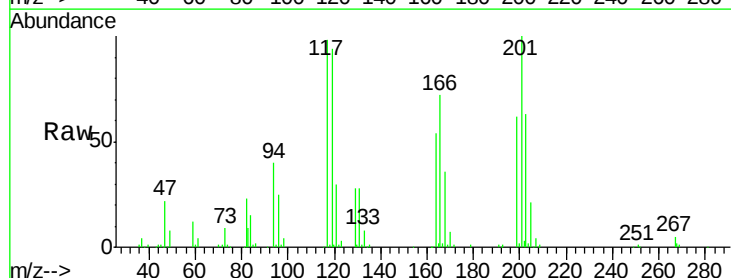
RT: 13.88 min Scan# 3764

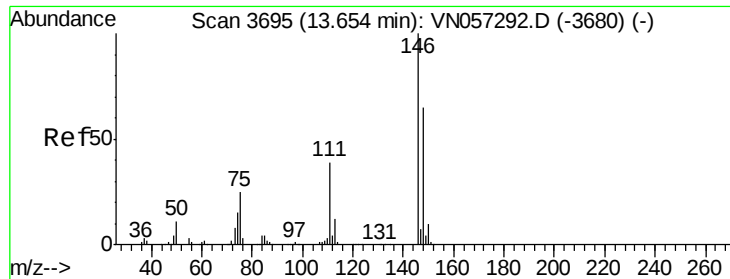
Delta R.T. 0.00 min

Lab File: VN057416.D

Acq: 19 Aug 2019 22:48

Tgt Ion:	117	Resp:	116186
Ion Ratio	Lower	Upper	
117	100		
201	100.6	48.4	145.0





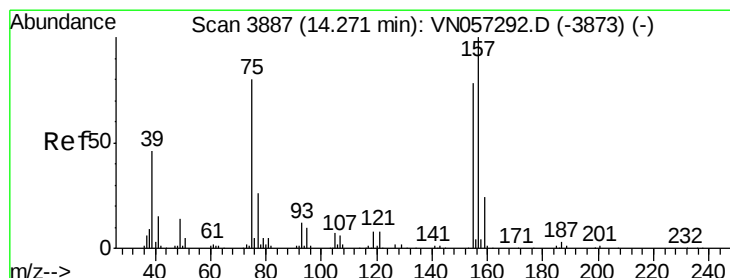
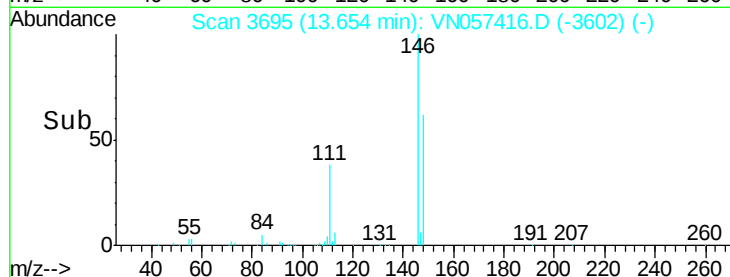
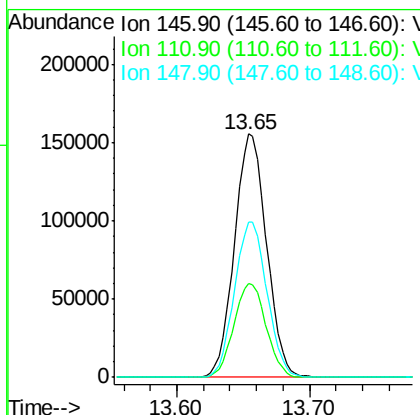
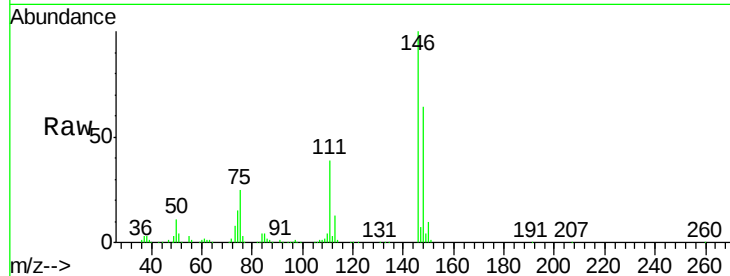
#91
 1,2-Dichlorobenzene
 Concen: 20.284 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.7	59.1
148	64.5	32.0	96.0

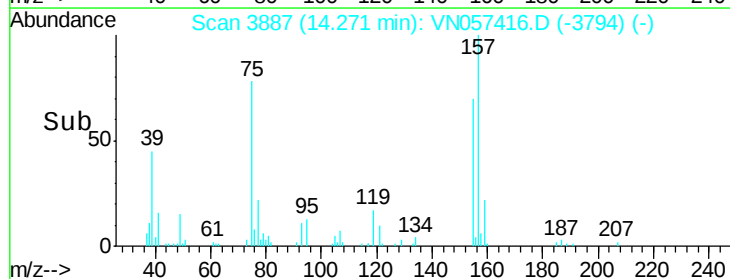
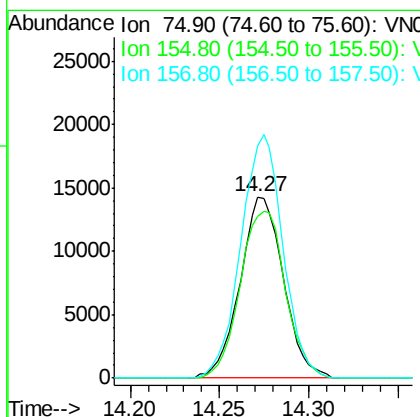
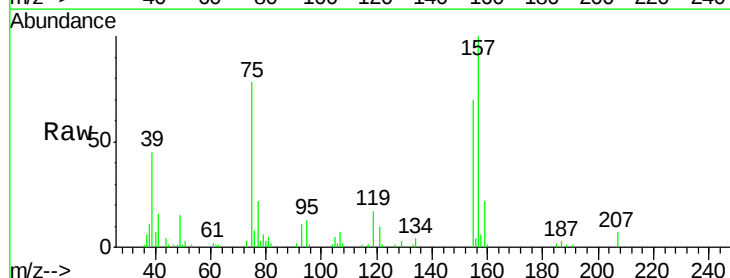
Manual Integrations
 APPROVED

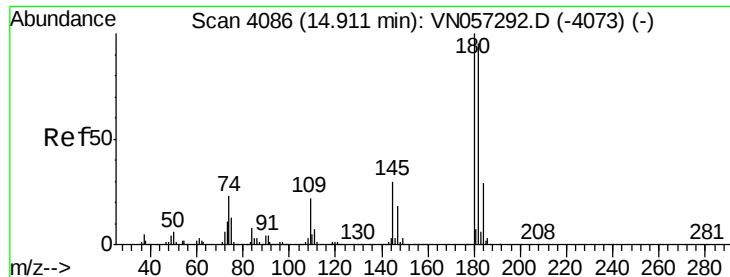
MMDadoda
 8/21/2019 9:45:33 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.219 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.8	49.6	148.8
157	130.4	63.7	191.1





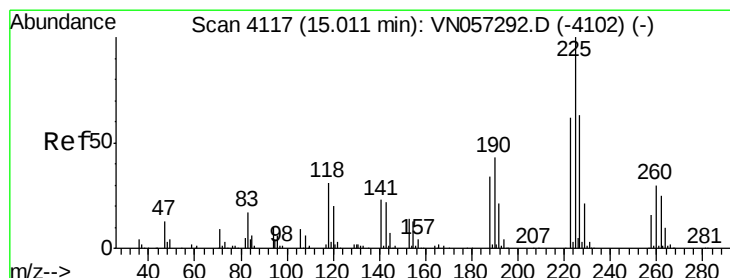
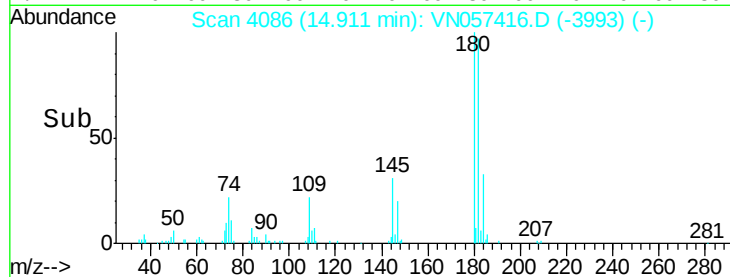
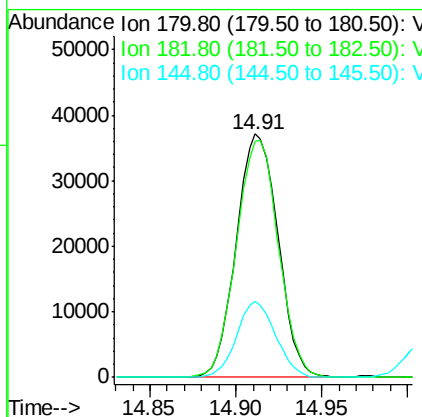
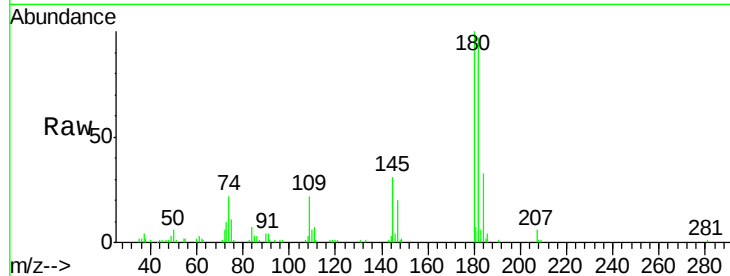
#93
 1,2,4-Trichlorobenzene
 Concen: 16.165 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBS02

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.5	48.0	144.2
145	29.1	14.5	43.6

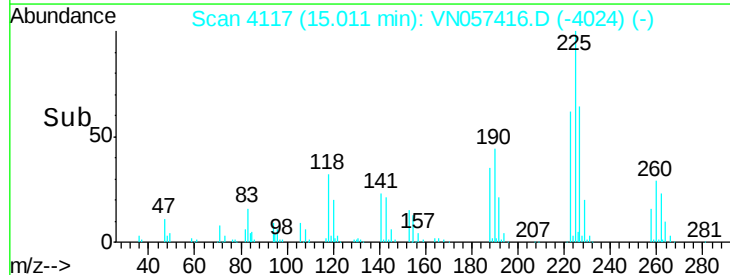
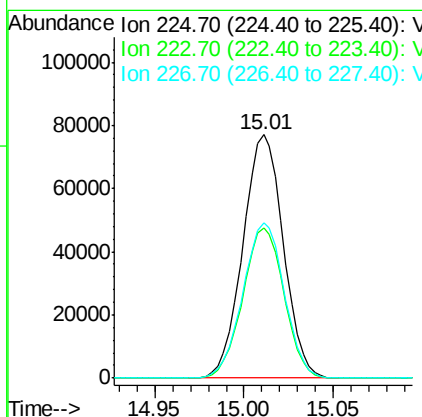
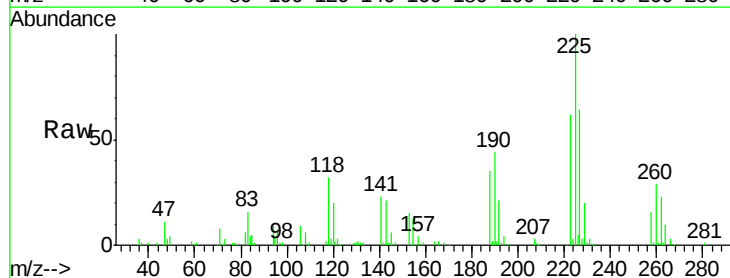
Manual Integrations
 APPROVED

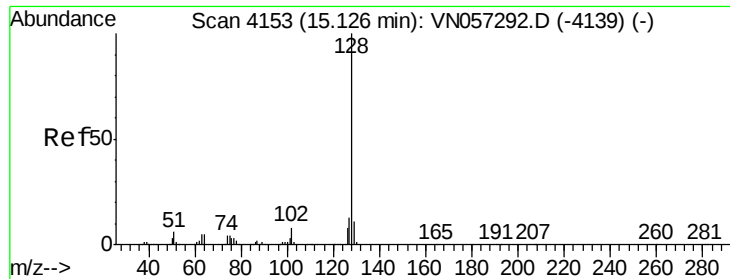
MMDadoda
 8/21/2019 9:45:33 AM



#94
 Hexachlorobutadiene
 Concen: 22.105 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN057416.D
 Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	30.7	92.1
227	65.2	30.9	92.7





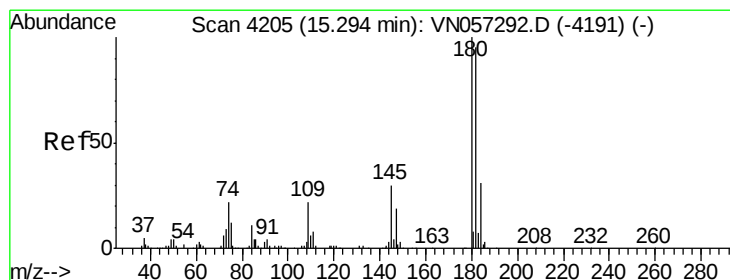
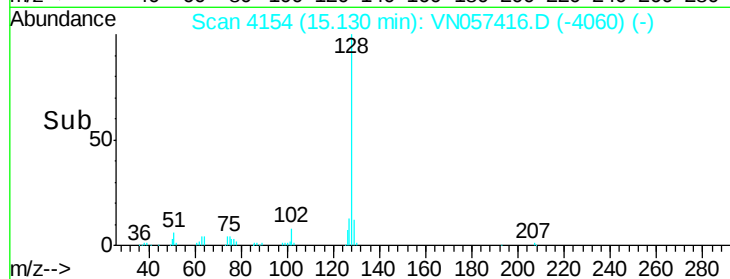
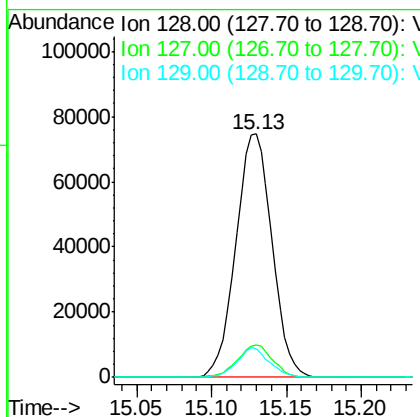
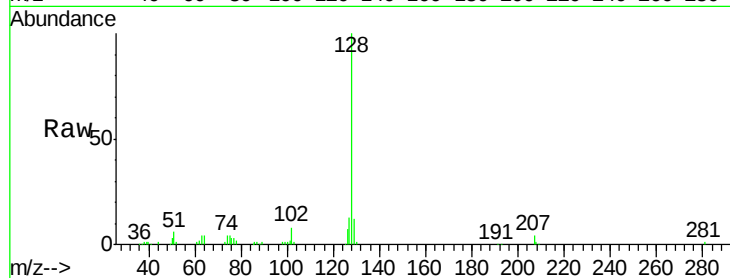
#95
Naphthalene
Concen: 19.708 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBS02

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	10.8	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
8/21/2019 9:45:33 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.334 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. 0.00 min
Lab File: VN057416.D
Acq: 19 Aug 2019 22:48

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.9	143.6
145	28.6	15.1	45.3

