

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022519\
 Data File : VN053932.D
 Acq On : 25 Feb 2019 16:29
 Operator : JC/SP
 Sample : VN0225WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0225WBS01

Manual Integrations
 APPROVED

MMDadoda
 2/28/2019 10:48:33 AM

Quant Time: Feb 28 04:29:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 28 04:05:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	692190	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1087844	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	931429	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	408658	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	391651	48.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.54%	
35) Dibromofluoromethane	7.59	113	354987	50.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.92%	
50) Toluene-d8	10.09	98	1310407	50.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.08%	
62) 4-Bromofluorobenzene	12.40	95	420054	48.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.30%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	126881	19.917	ug/l	100
3) Chloromethane	2.06	50	168216	19.037	ug/l	99
4) Vinyl Chloride	2.19	62	173056	19.547	ug/l	97
5) Bromomethane	2.57	94	113871	19.420	ug/l	98
6) Chloroethane	2.71	64	104457	18.971	ug/l	99
7) Trichlorofluoromethane	3.02	101	218241	19.295	ug/l	100
8) Diethyl Ether	3.41	74	78985	18.639	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	3.76	101	139986	19.596	ug/l	95
10) Methyl Iodide	3.95	142	172675	18.396	ug/l	98
11) Tert butyl alcohol	4.77	59	45159	87.793	ug/l	99
12) 1,1-Dichloroethene	3.74	96	130255	19.063	ug/l	91
13) Acrolein	3.61	56	44745	84.019	ug/l	99
14) Allyl chloride	4.33	41	232775	19.423	ug/l	95
15) Acrylonitrile	4.99	53	249556	92.052	ug/l	100
16) Acetone	3.81	43	217788	93.801	ug/l	93
17) Carbon Disulfide	4.06	76	410544	18.624	ug/l	98
18) Methyl Acetate	4.32	43	104101	18.348	ug/l	95
19) Methyl tert-butyl Ether	5.04	73	353853	19.304	ug/l	99
20) Methylene Chloride	4.55	84	151550	18.871	ug/l	94
21) trans-1,2-Dichloroethene	5.04	96	141216	19.095	ug/l	93
22) Diisopropyl ether	5.95	45	459470	19.873	ug/l	95
23) Vinyl Acetate	5.89	43	1603449	96.405	ug/l	96
24) 1,1-Dichloroethane	5.85	63	273276	19.274	ug/l	99
25) 2-Butanone	6.83	43	288770	90.638	ug/l	96
26) 2,2-Dichloropropane	6.82	77	197216	19.578	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	159672	19.414	ug/l	95
28) Bromochloromethane	7.19	49	129562	19.964	ug/l	85
29) Tetrahydrofuran	7.21	42	191742	90.375	ug/l	93
30) Chloroform	7.37	83	262775	19.113	ug/l	100
31) Cyclohexane	7.65	56	260507	19.830	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	217414	19.179	ug/l	97
36) 1,1-Dichloropropene	7.79	75	200344	19.804	ug/l	98
37) Ethyl Acetate	6.93	43	131676	18.229	ug/l	98
38) Carbon Tetrachloride	7.77	117	190952	18.149	ug/l	97

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 Quant Title : SW846 8260
 QLast Update : Thu Feb 28 04:05:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	239813	19.667	ug/l	93
40) Benzene	8.04	78	611161	19.665	ug/l	100
41) Methacrylonitrile	7.19	41	92815m	19.954	ug/l	
42) 1,2-Dichloroethane	8.12	62	186805	19.415	ug/l	98
43) Isopropyl Acetate	8.16	43	217357	17.821	ug/l #	89
44) Trichloroethene	8.83	130	161105	19.553	ug/l	95
45) 1,2-Dichloropropane	9.12	63	166352	19.840	ug/l	100
46) Dibromomethane	9.21	93	94764	19.467	ug/l	93
47) Bromodichloromethane	9.40	83	198870	19.386	ug/l	100
48) Methyl methacrylate	9.20	41	103673	18.480	ug/l	95
49) 1,4-Dioxane	9.20	88	28210	371.263	ug/l #	91
51) 4-Methyl-2-Pentanone	9.98	43	581216	92.737	ug/l	96
52) Toluene	10.15	92	362943	19.833	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	191885	19.224	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	230665	19.603	ug/l	92
55) 1,1,2-Trichloroethane	10.56	97	130667	19.119	ug/l	97
56) Ethyl methacrylate	10.43	69	149933	18.032	ug/l	93
57) 1,3-Dichloropropane	10.71	76	222488	19.267	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	354929	94.057	ug/l	96
59) 2-Hexanone	10.75	43	370793	90.966	ug/l	93
60) Dibromochloromethane	10.90	129	141703	18.656	ug/l	100
61) 1,2-Dibromoethane	11.01	107	123791	18.777	ug/l	99
64) Tetrachloroethene	10.63	164	160319	20.327	ug/l	98
65) Chlorobenzene	11.43	112	381841	19.425	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	140866	19.883	ug/l	99
67) Ethyl Benzene	11.51	91	664669	20.169	ug/l	99
68) m/p-Xylenes	11.62	106	511752	41.145	ug/l	99
69) o-Xylene	11.95	106	245518	20.090	ug/l	99
70) Styrene	11.96	104	382102	20.327	ug/l	99
71) Bromoform	12.13	173	91329	18.530	ug/l #	100
73) Isopropylbenzene	12.25	105	650833	20.459	ug/l	99
74) N-amyl acetate	12.07	43	159325	19.109	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.50	83	151316	19.022	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	122847m	18.739	ug/l	
77) Bromobenzene	12.53	156	157481	19.498	ug/l	90
78) n-propylbenzene	12.59	91	743455	20.550	ug/l	98
79) 2-Chlorotoluene	12.67	91	441276	20.305	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	545859	20.960	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	36501	17.598	ug/l	89
82) 4-Chlorotoluene	12.77	91	431817	20.104	ug/l	98
83) tert-Butylbenzene	12.99	119	470838	20.442	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	549338	21.129	ug/l	99
85) sec-Butylbenzene	13.17	105	650765	20.686	ug/l	99
86) p-Isopropyltoluene	13.29	119	555621	20.892	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	277883	19.889	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	270734	19.973	ug/l	99
89) n-Butylbenzene	13.62	91	466831	20.828	ug/l	99
90) Hexachloroethane	13.87	117	99610	19.328	ug/l	94
91) 1,2-Dichlorobenzene	13.65	146	268996	19.889	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	20241	18.005	ug/l	91

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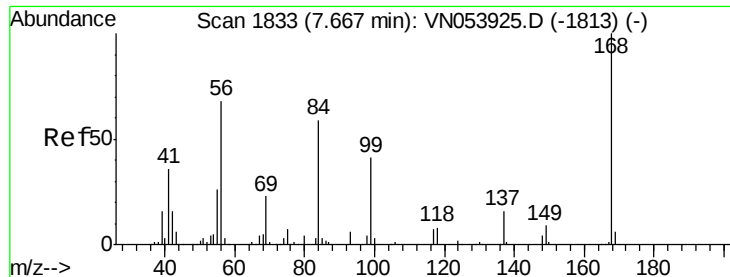
Manual Integrations
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	131609	18.965	ug/l	97
94) Hexachlorobutadiene	15.01	225	102502	20.981	ug/l	99
95) Naphthalene	15.13	128	246032	17.440	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	129959	19.033	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

VN0225WBS01

Tot Ion:168 Resp: 692190

Ion Ratio Lower Upper

168 100

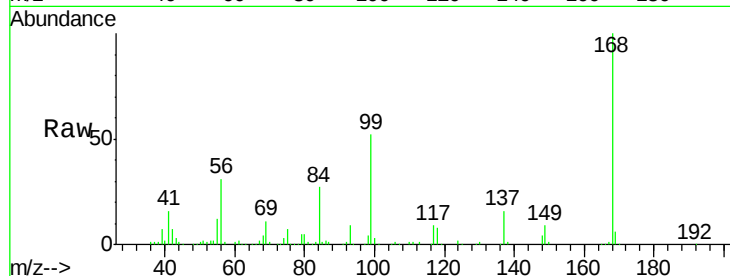
99 50.8 36.9 55.3

Manual Integrations

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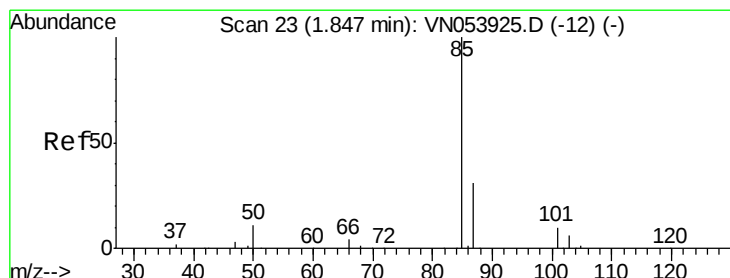
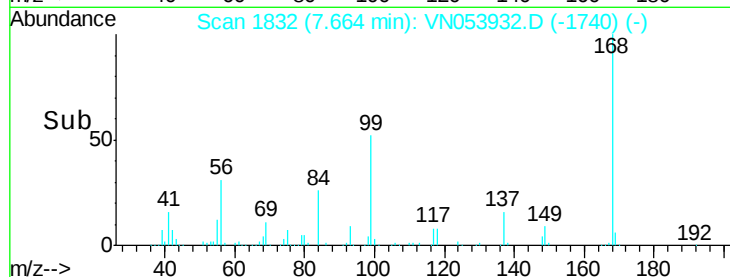
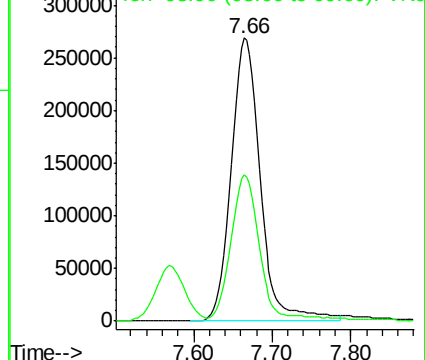
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 19.917 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN053932.D

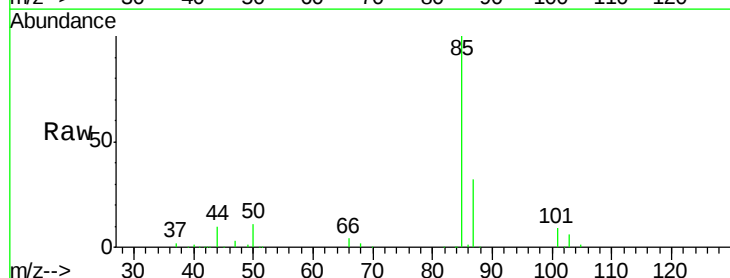
Acq: 25 Feb 2019 16:29

Tgt Ion: 85 Resp: 126881

Ion Ratio Lower Upper

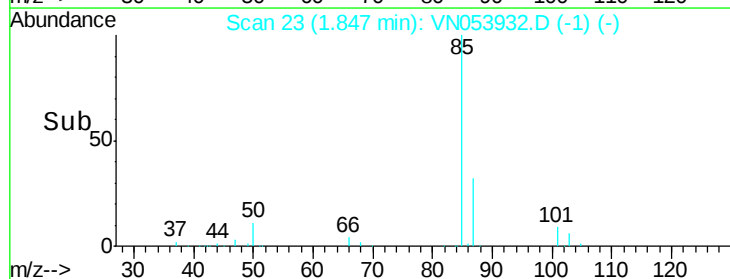
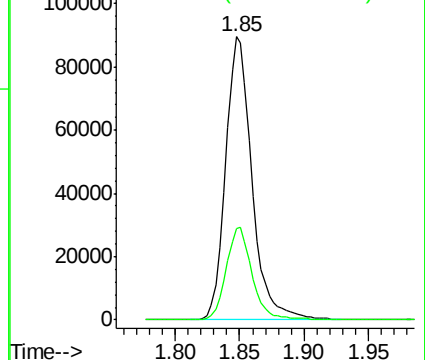
85 100

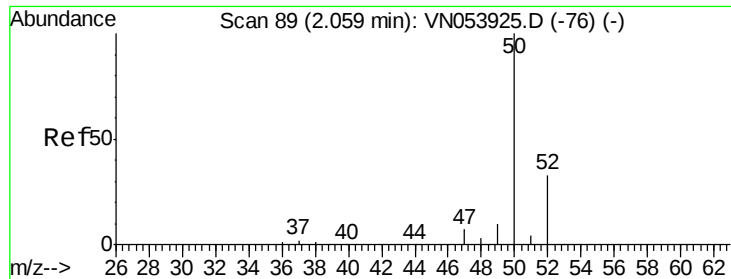
87 32.4 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 19.037 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampled :

VN0225WBS01

Tot Ion: 50 Resp: 168216

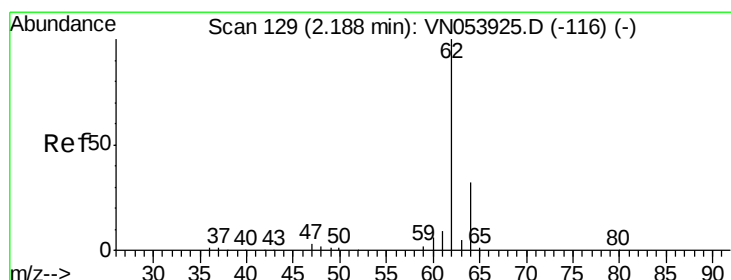
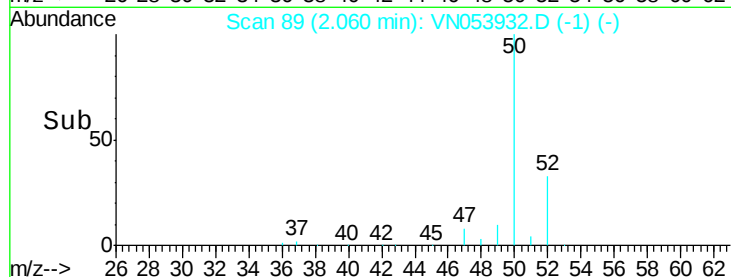
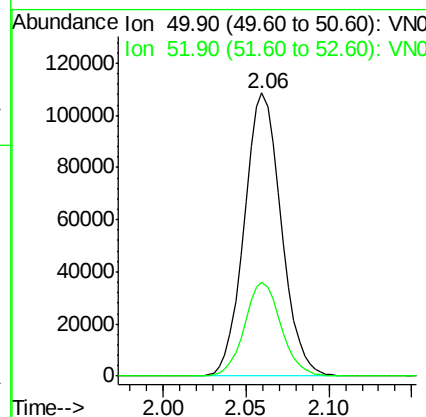
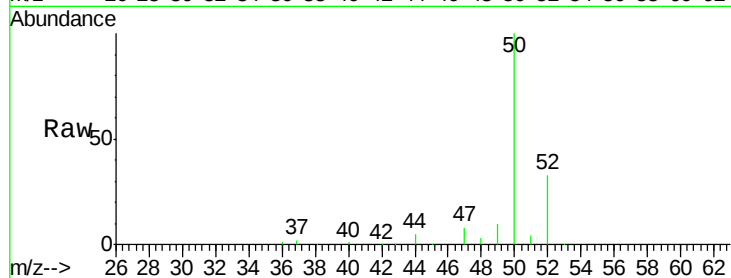
Ion Ratio Lower Upper

50 100

52 33.1 26.0 39.0

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#4

Vinyl Chloride

Concen: 19.547 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053932.D

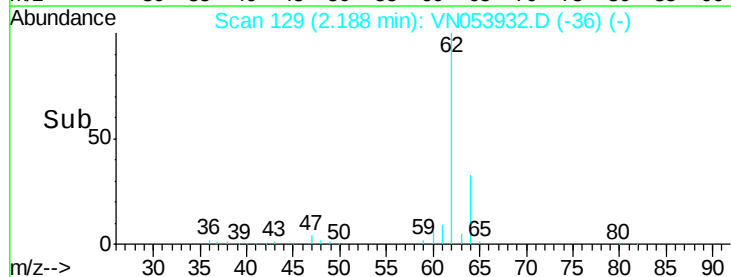
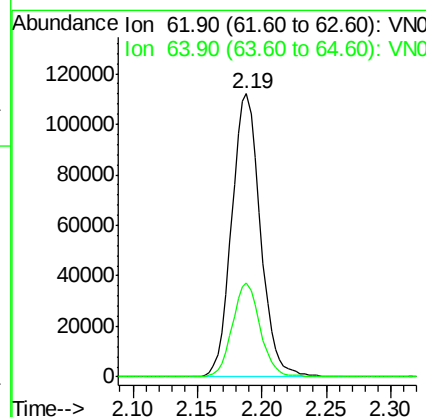
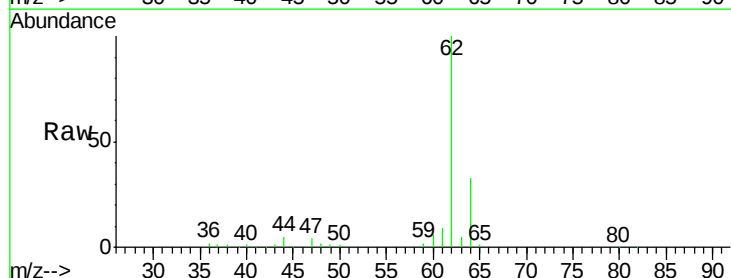
Acq: 25 Feb 2019 16:29

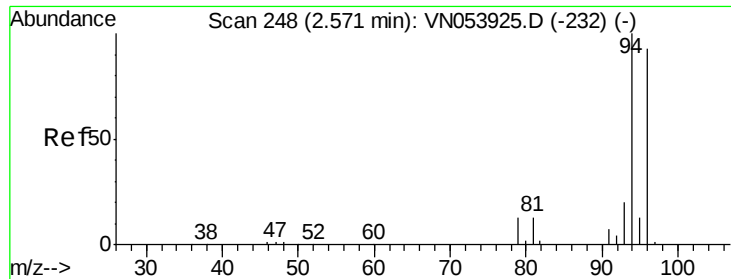
Tgt Ion: 62 Resp: 173056

Ion Ratio Lower Upper

62 100

64 33.0 25.1 37.7





#5

Bromomethane

Concen: 19.420 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

VN0225WBS01

Tot Ion: 94 Resp: 113871

Ion Ratio Lower Upper

94 100

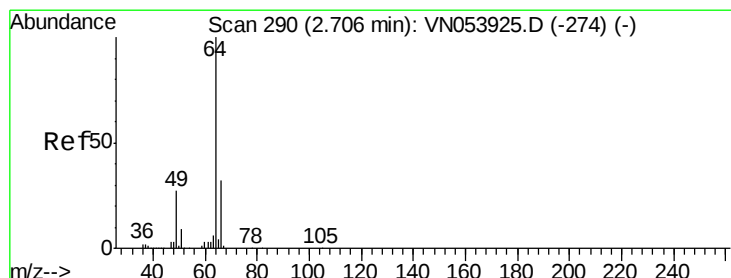
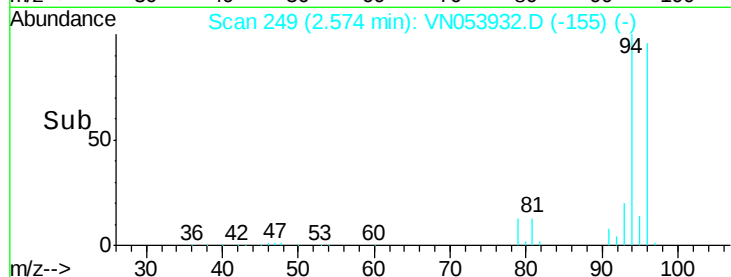
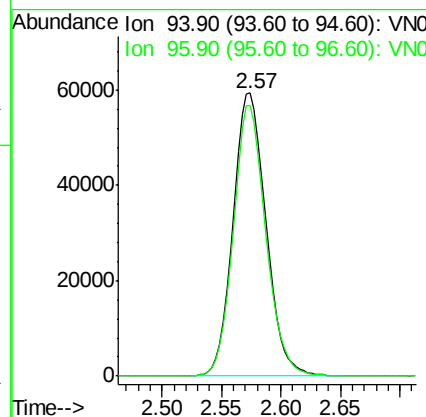
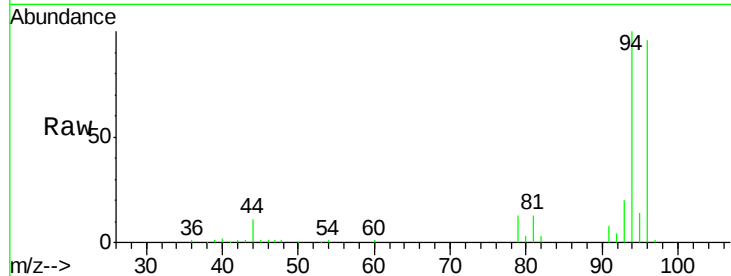
96 95.4 74.9 112.3

Manual Integrations

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#6

Chloroethane

Concen: 18.971 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN053932.D

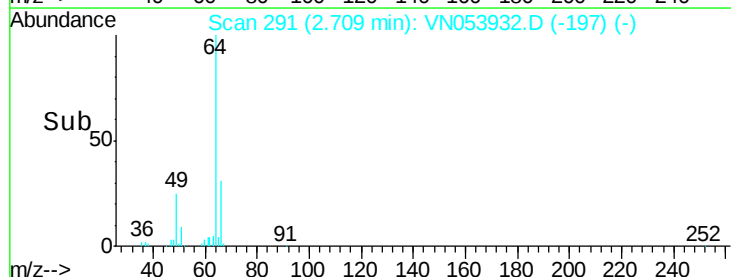
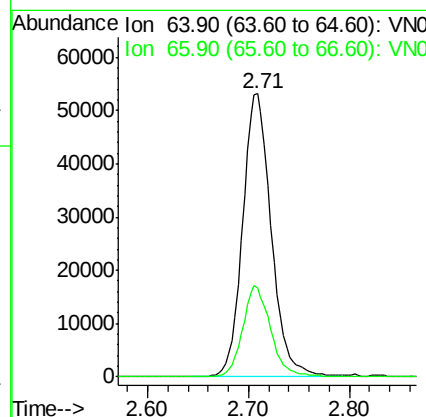
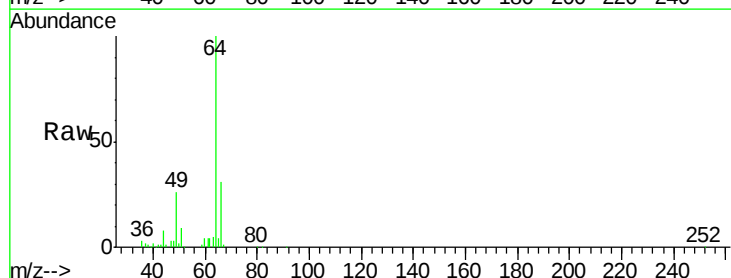
Acq: 25 Feb 2019 16:29

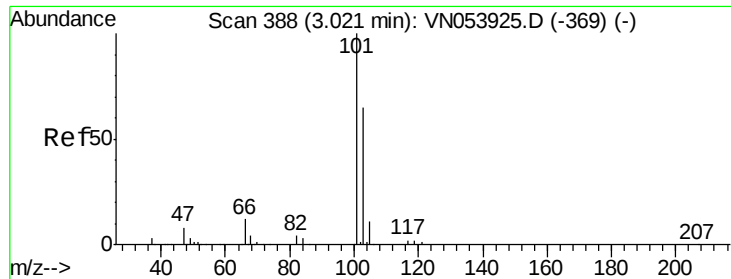
Tgt Ion: 64 Resp: 104457

Ion Ratio Lower Upper

64 100

66 31.4 25.5 38.3





#7

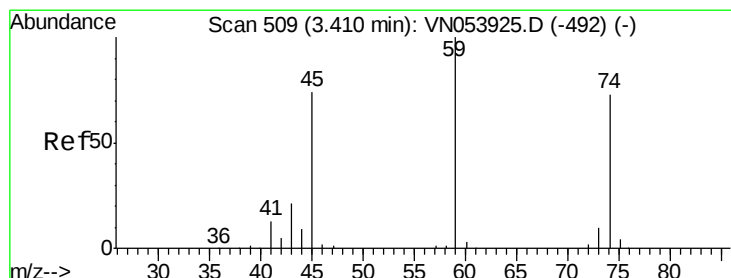
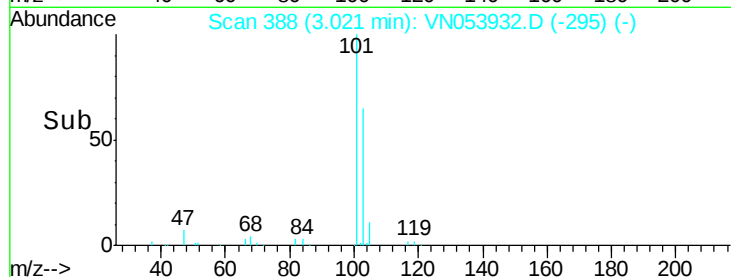
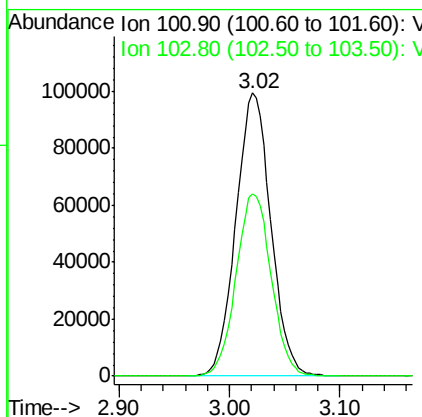
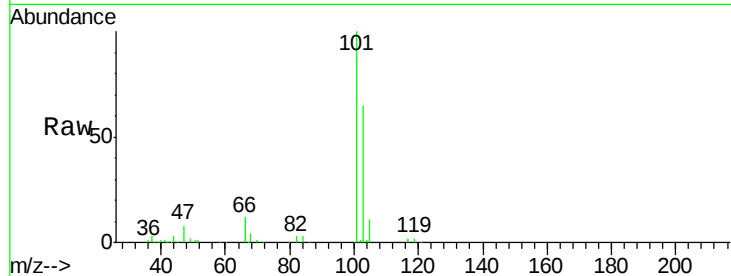
Trichlorofluoromethane
Concen: 19.295 ug/l
RT: 3.02 min Scan# 388
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
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ClientSampleId :
VN0225WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.9	77.9

Manual Integrations
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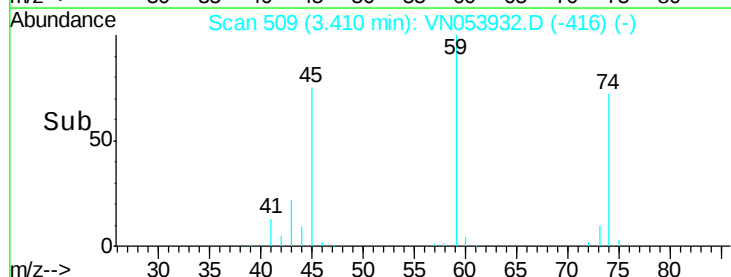
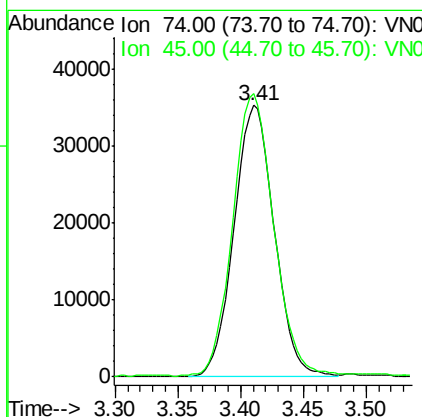
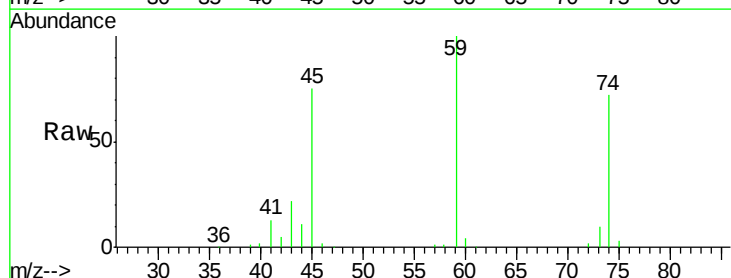
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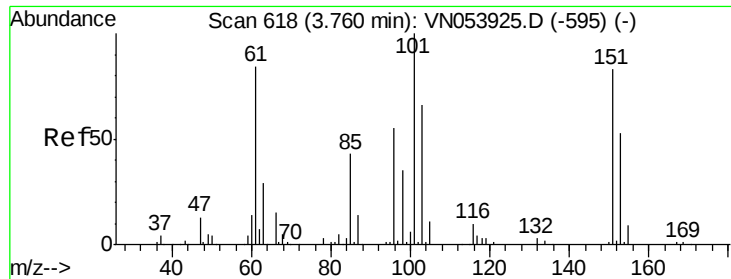


#8

Diethyl Ether
Concen: 18.639 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Lower	Upper
74	100		
45	107.1	46.9	140.6





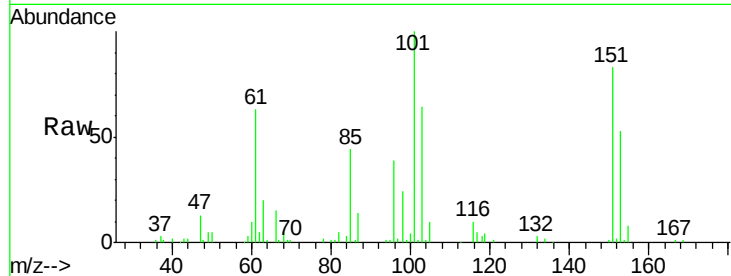
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.596 ug/l
RT: 3.76 min Scan# 619
Delta R.T. 0.00 min
Lab File: VN053932.D
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Tot Ion	Ratio	Lower	Upper
101	100		
85	42.3	32.5	48.7
151	82.2	70.2	105.2

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MMDadoda
2/28/2019 10:48:33 AM

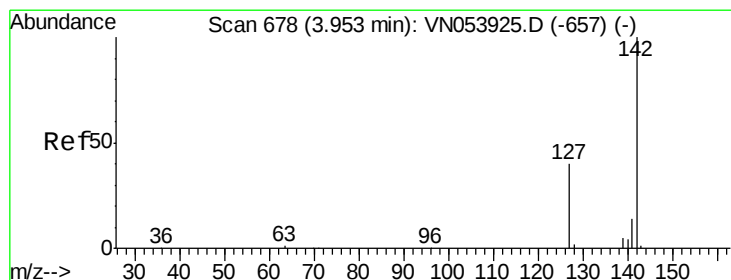
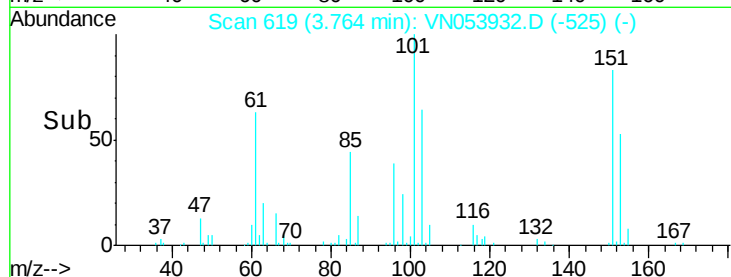
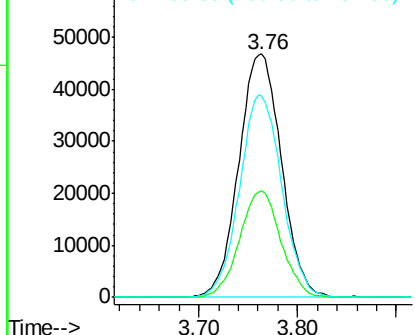


Abundance

Ion 100.90 (100.60 to 101.60): V

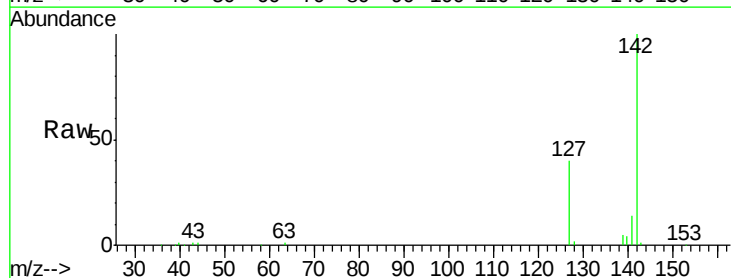
Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10
Methyl Iodide
Concen: 18.396 ug/l
RT: 3.95 min Scan# 678
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Lower	Upper
142	100		
127	40.6	31.0	46.4
141	14.1	11.3	16.9

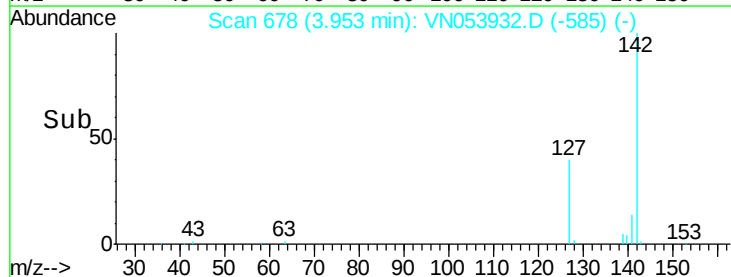
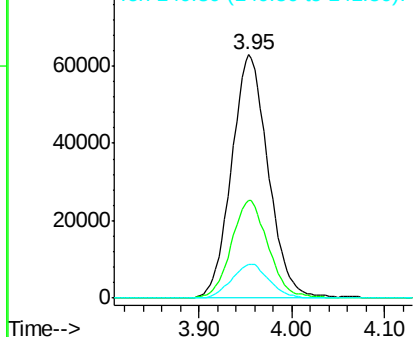


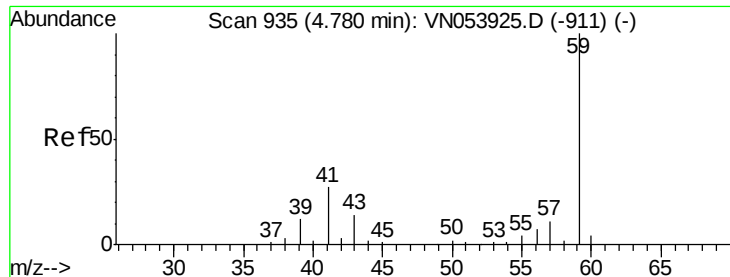
Abundance

Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





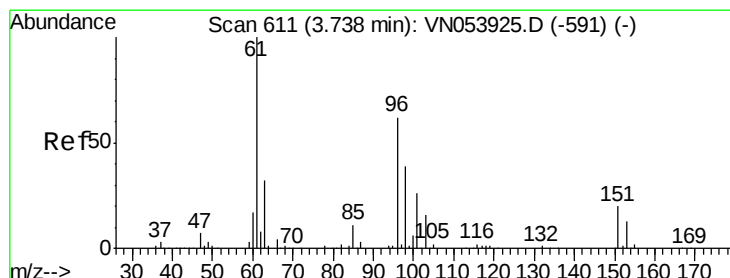
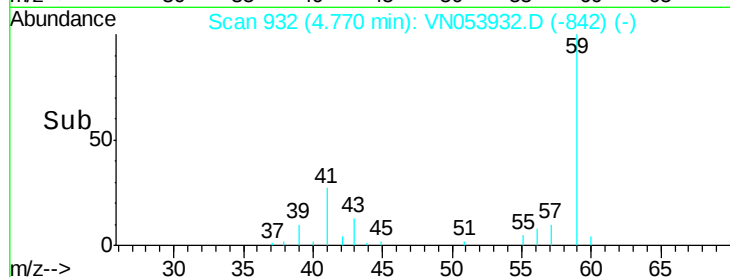
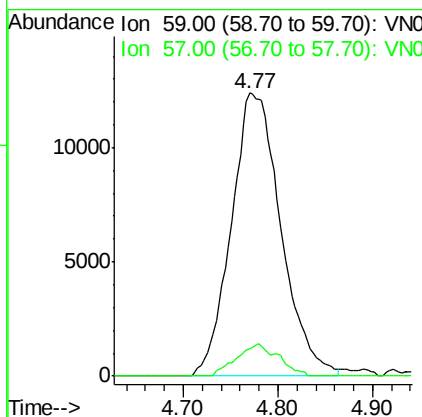
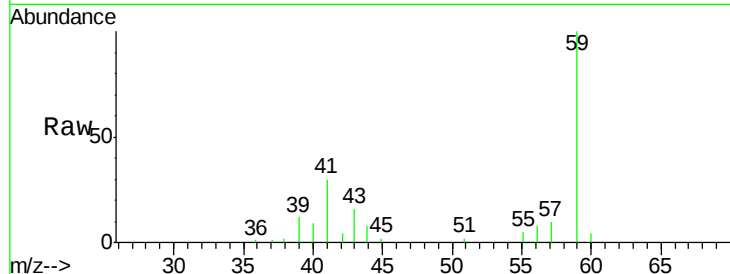
#11
Tert butyl alcohol
Concen: 87.793 ug/l
RT: 4.77 min Scan# 932
Delta R.T. -0.01 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampled :
VN0225WBS01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	45159		
57	9.6		8.1	12.1

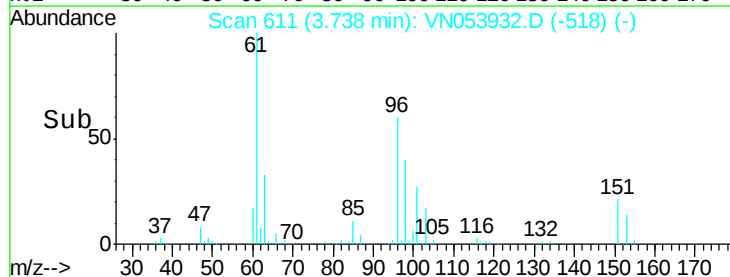
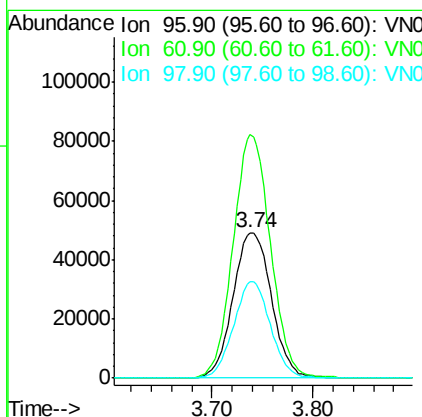
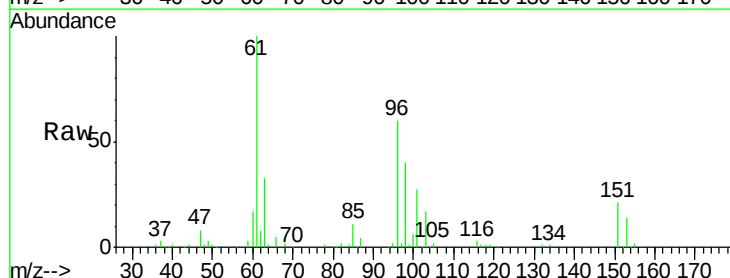
Manual Integrations
APPROVED

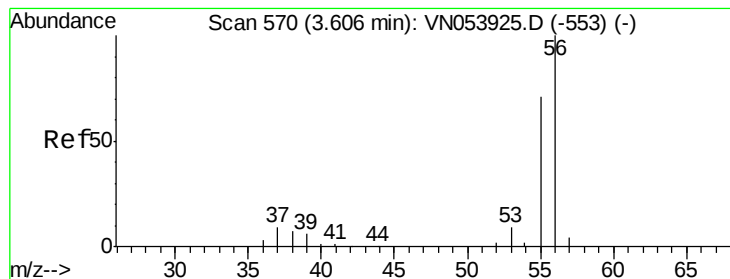
MMDadoda
2/28/2019 10:48:33 AM



#12
1,1-Dichloroethene
Concen: 19.063 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	130255		
61	166.9		121.0	181.4
98	66.5		52.2	78.2





#13

Acrolein

Concen: 84.019 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

VN0225WBS01

Tot Ion: 56 Resp: 44745

Ion Ratio Lower Upper

56 100

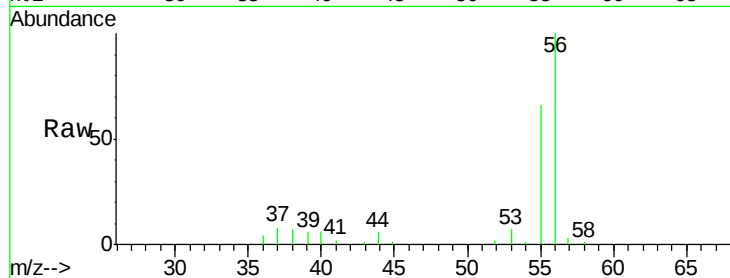
55 71.0 56.3 84.5

Manual Integrations

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2/28/2019 10:48:33 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

20000

15000

10000

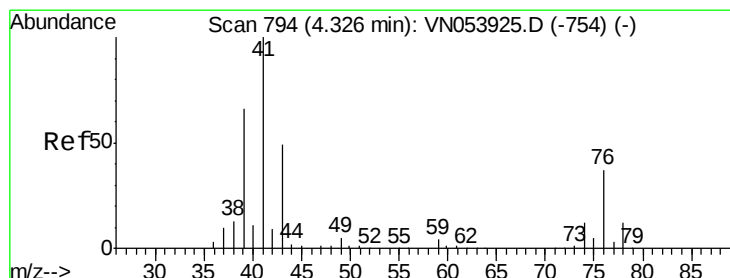
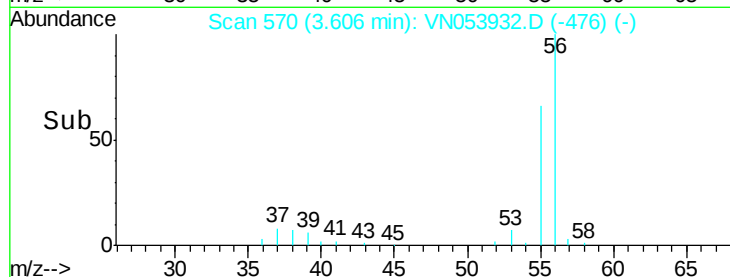
5000

0

Time-->

3.50 3.55 3.60 3.65 3.70

3.61



#14

Allyl chloride

Concen: 19.423 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

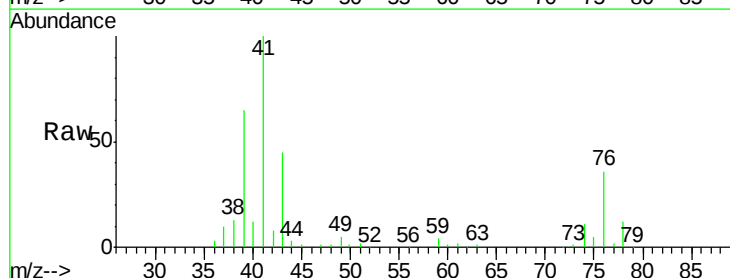
Tgt Ion: 41 Resp: 232775

Ion Ratio Lower Upper

41 100

39 63.4 48.8 73.2

76 33.7 30.9 46.3



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

100000

80000

60000

40000

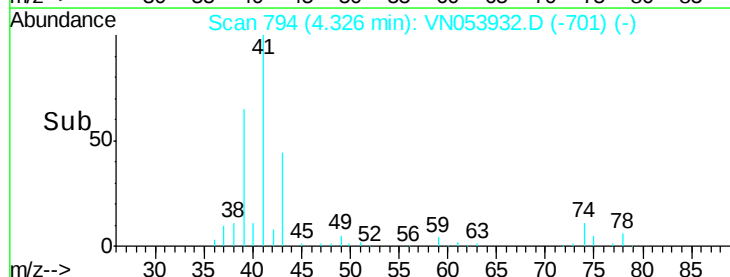
20000

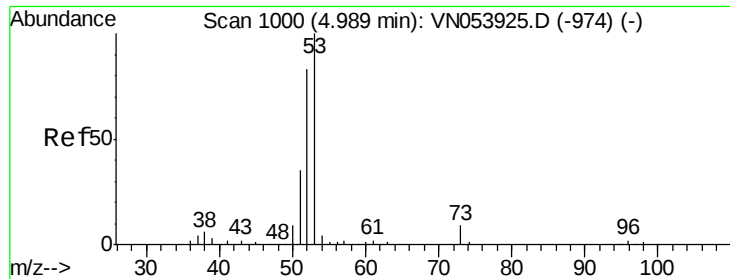
0

Time-->

4.20 4.30 4.40

4.33





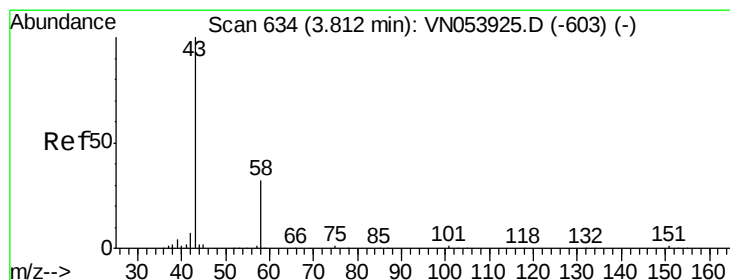
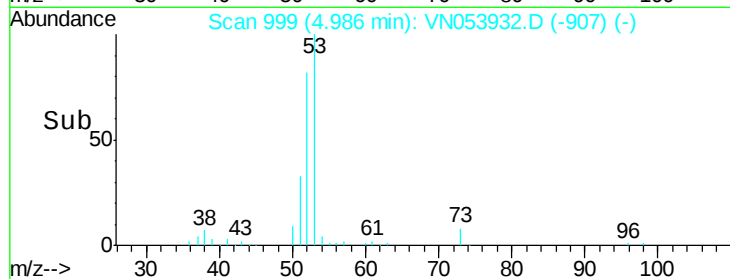
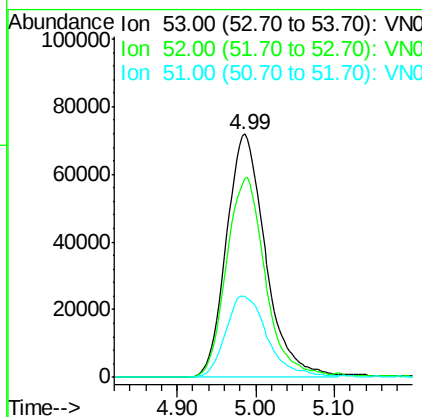
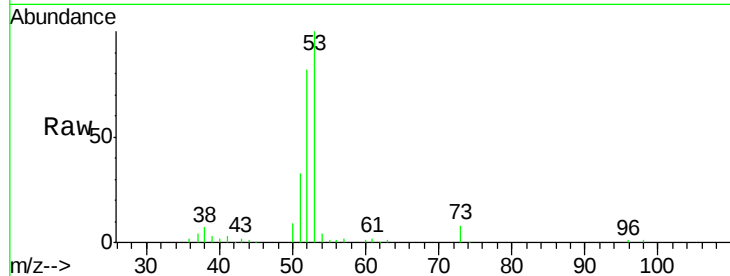
#15
 Acrylonitrile
 Concen: 92.052 ug/l
 RT: 4.99 min Scan# 999
 Delta R.T. -0.00 min
 Lab File: VN053932.D
 Acq: 25 Feb 2019 16:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0225WBS01

Tot Ion:	53	Resp:	249556
Ion Ratio	Lower	Upper	
53	100		
52	81.4	65.1	97.7
51	35.7	28.2	42.4

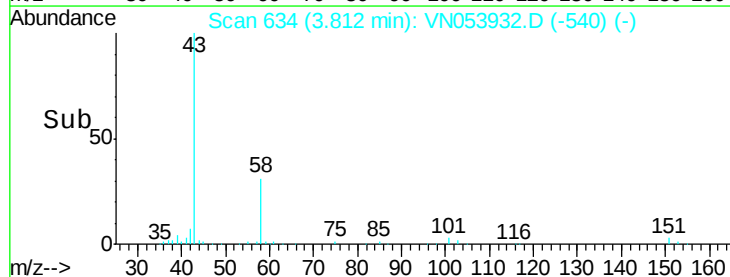
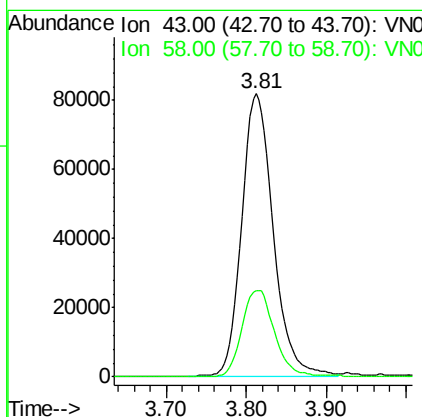
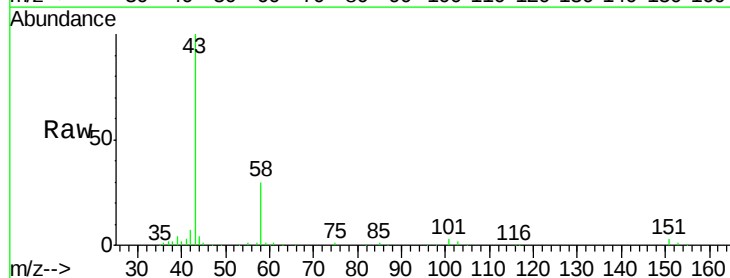
Manual Integrations
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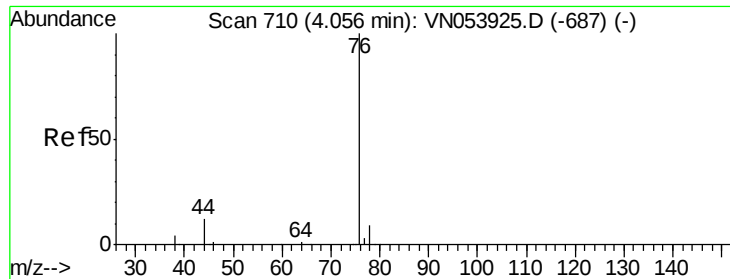
MMDadoda
 2/28/2019 10:48:33 AM



#16
 Acetone
 Concen: 93.801 ug/l
 RT: 3.81 min Scan# 634
 Delta R.T. 0.00 min
 Lab File: VN053932.D
 Acq: 25 Feb 2019 16:29

Tgt Ion:	43	Resp:	217788
Ion Ratio	Lower	Upper	
43	100		
58	30.5	27.6	41.4





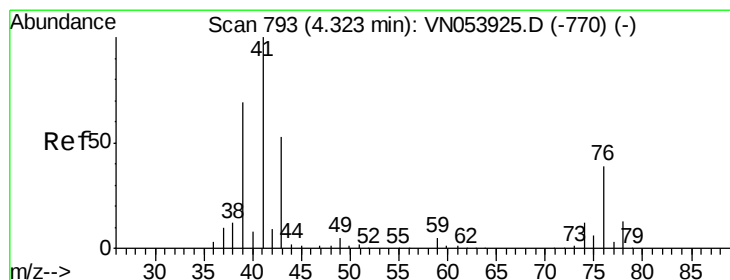
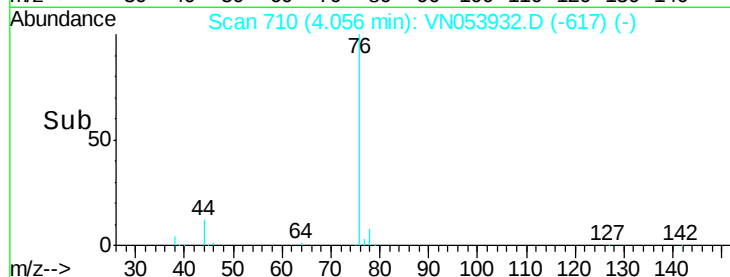
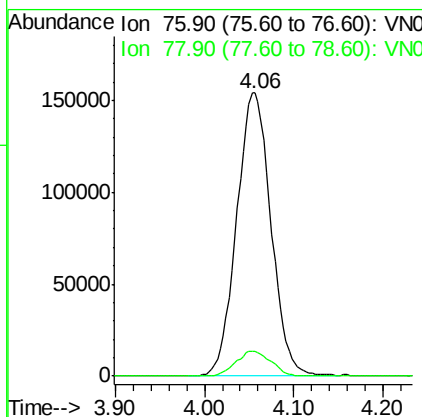
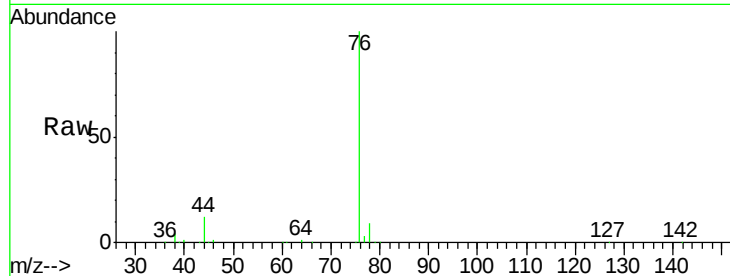
#17
Carbon Disulfide
Concen: 18.624 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampled :
VN0225WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.5	11.3

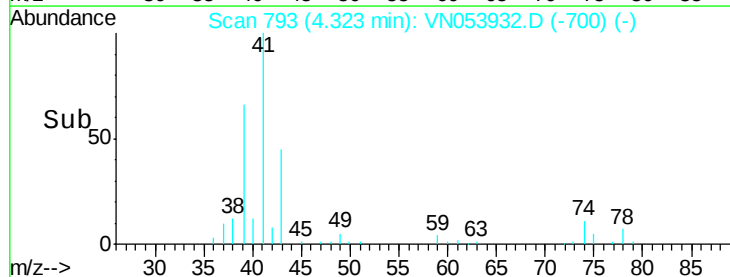
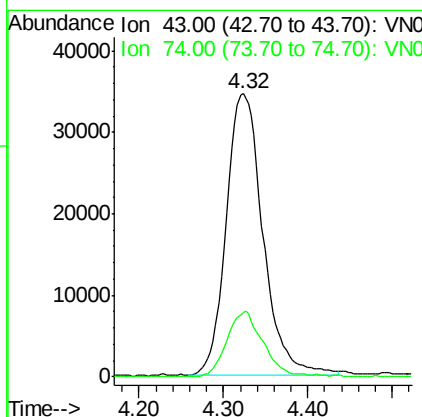
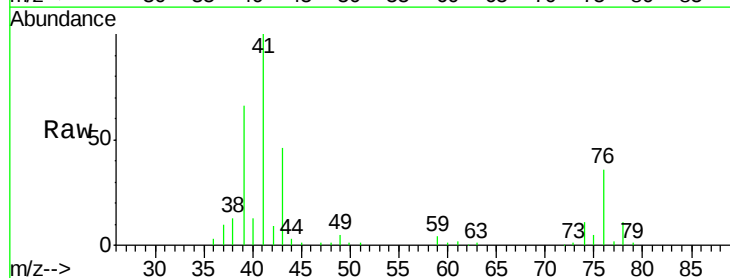
Manual Integrations
APPROVED

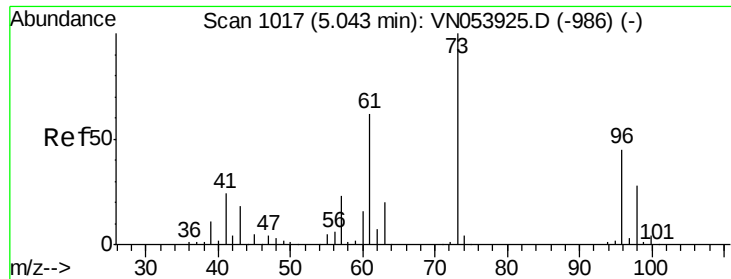
MMDadoda
2/28/2019 10:48:33 AM



#18
Methyl Acetate
Concen: 18.348 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.0	20.5	30.7





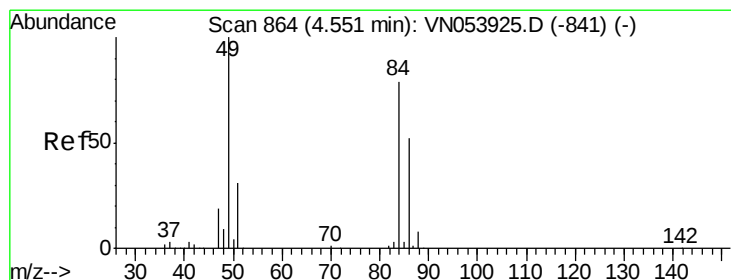
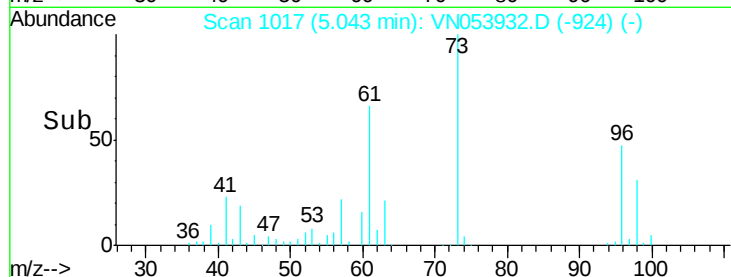
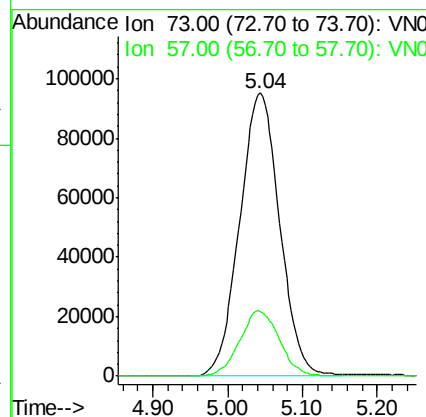
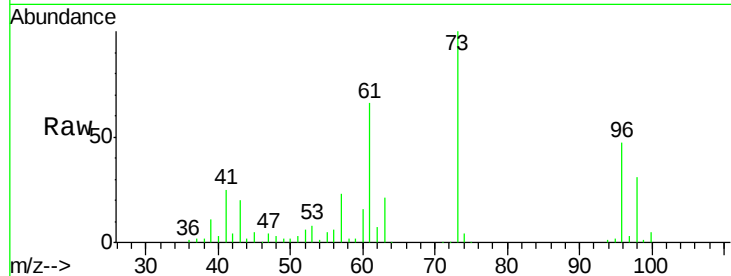
#19
Methvl tert-butvl Ether
Concen: 19.304 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Tot Ion: 73 Resp: 353853
Ion Ratio Lower Upper
73 100
57 22.9 18.0 27.0

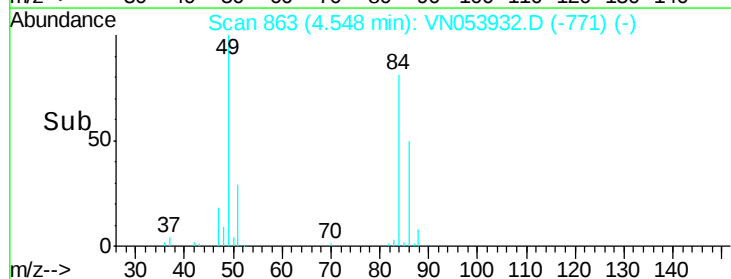
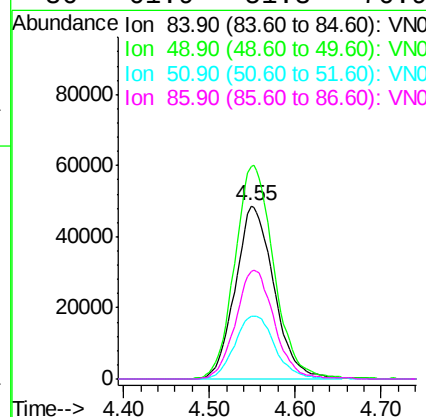
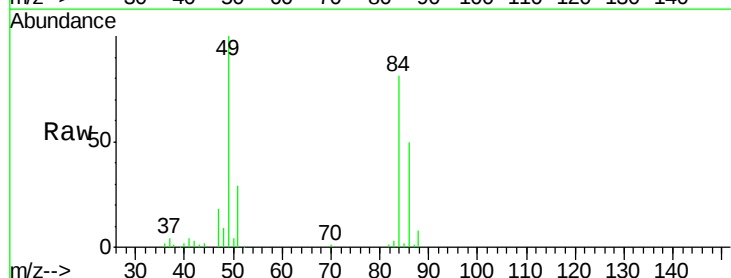
Manual Integrations
APPROVED

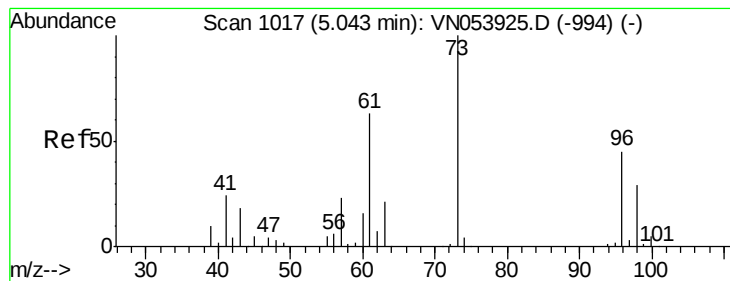
MMDadoda
2/28/2019 10:48:33 AM



#20
Methylene Chloride
Concen: 18.871 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion: 84 Resp: 151550
Ion Ratio Lower Upper
84 100
49 122.6 89.7 134.5
51 36.0 27.8 41.8
86 61.9 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 19.095 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampled :

VN0225WBS01

Tot Ion: 96 Resp: 141216

Ion Ratio Lower Upper

96 100

61 141.1 104.5 156.7

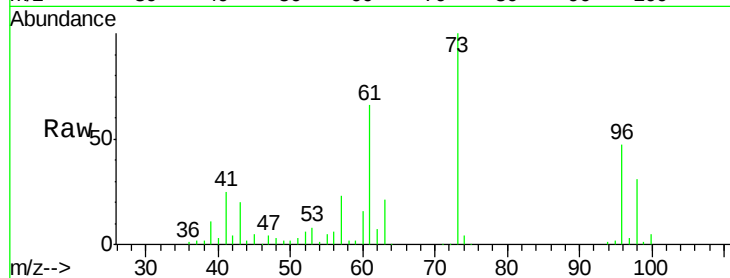
98 65.1 50.6 76.0

Manual Integrations

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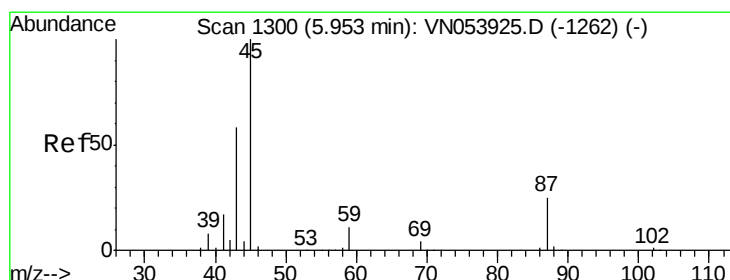
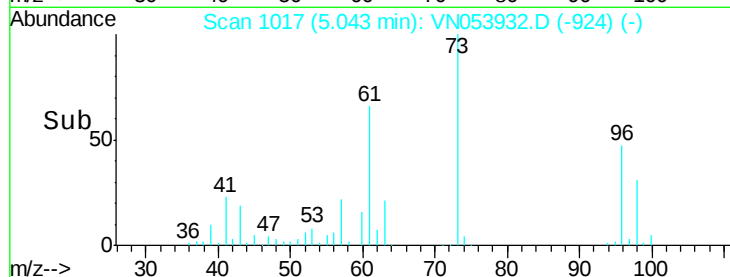
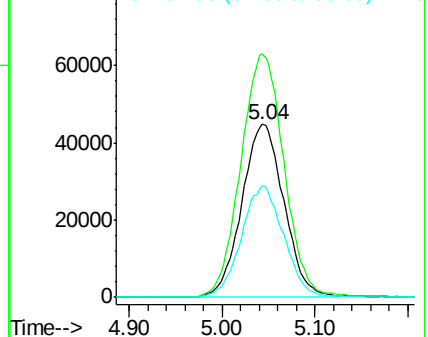


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 19.873 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. -0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Tgt Ion: 45 Resp: 459470

Ion Ratio Lower Upper

45 100

43 60.4 46.2 69.4

87 25.1 23.4 35.0

59 11.1 9.4 14.0

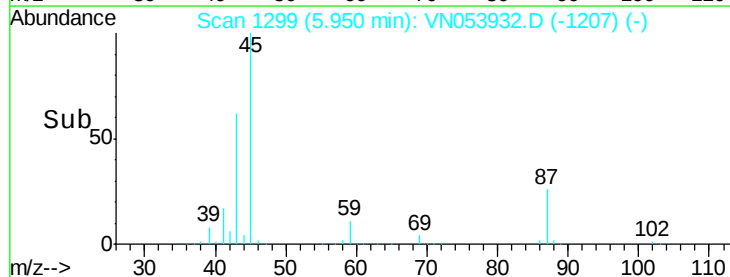
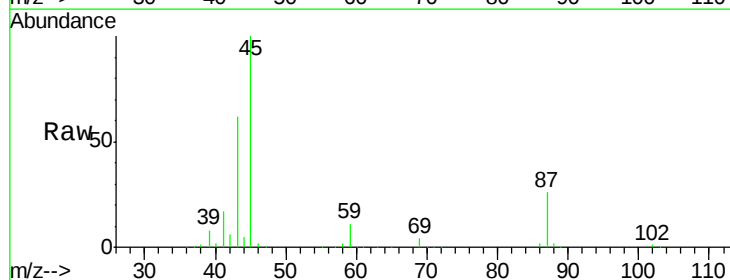
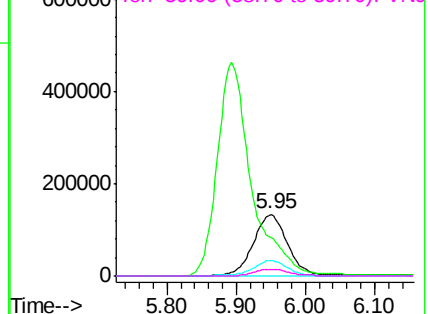
Abundance

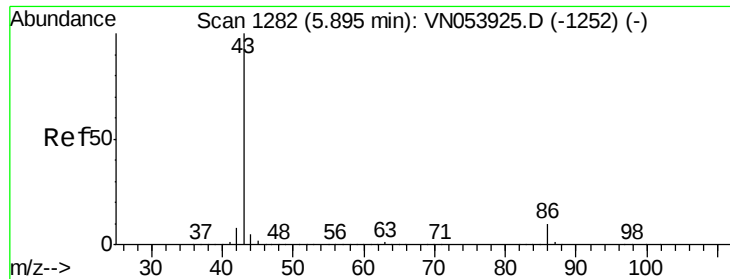
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





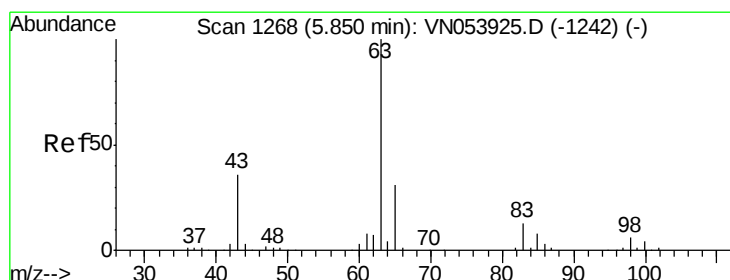
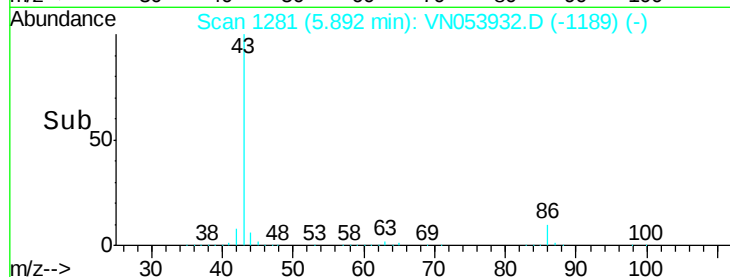
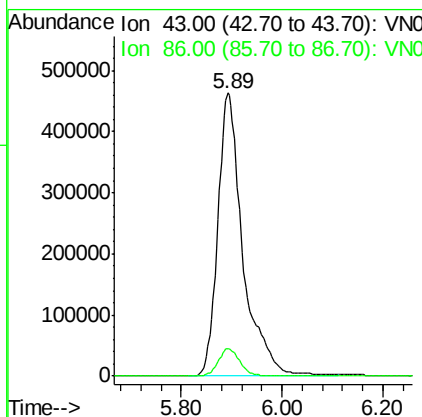
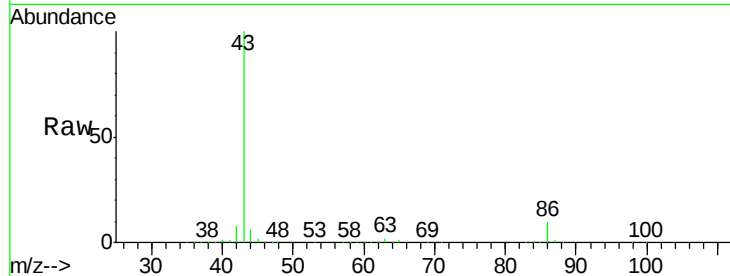
#23
 Vinyl Acetate
 Concen: 96.405 ug/l
 RT: 5.89 min Scan# 1281
 Delta R.T. -0.00 min
 Lab File: VN053932.D
 Acq: 25 Feb 2019 16:29

Instrument :
 MSVOA_N
 ClientSampled :
 VN0225WBS01

Tot Ion: 43 Resp: 1603449
 Ion Ratio Lower Upper
 43 100
 86 9.7 9.1 13.7

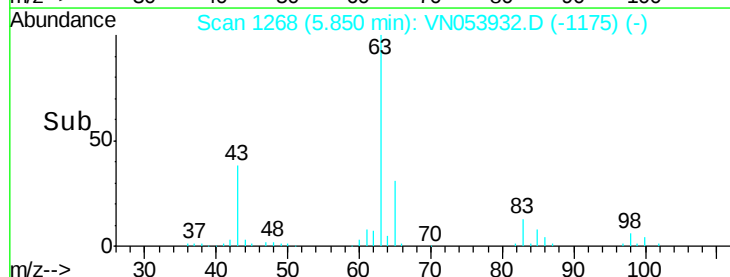
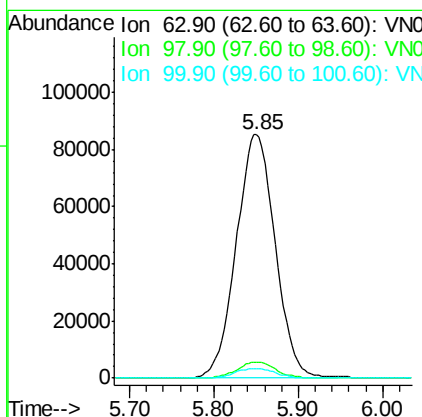
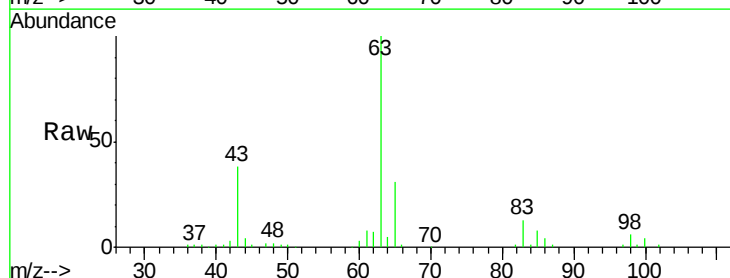
Manual Integrations
 APPROVED

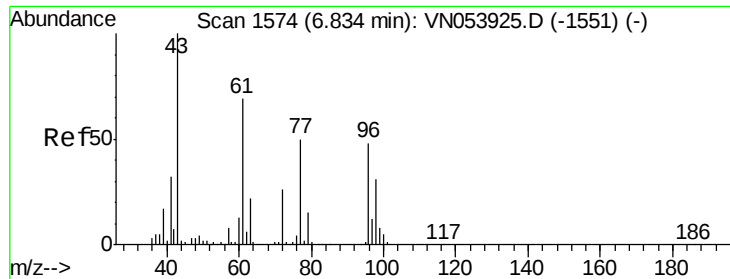
MMDadoda
 2/28/2019 10:48:33 AM



#24
 1,1-Dichloroethane
 Concen: 19.274 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN053932.D
 Acq: 25 Feb 2019 16:29

Tgt Ion: 63 Resp: 273276
 Ion Ratio Lower Upper
 63 100
 98 6.4 3.4 10.2
 100 3.8 2.2 6.6





#25

2-Butanone

Concen: 90.638 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

VN0225WBS01

Tot Ion: 43 Resp: 288770

Ion Ratio Lower Upper

43 100

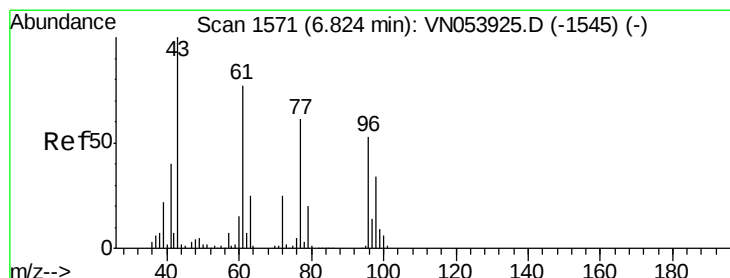
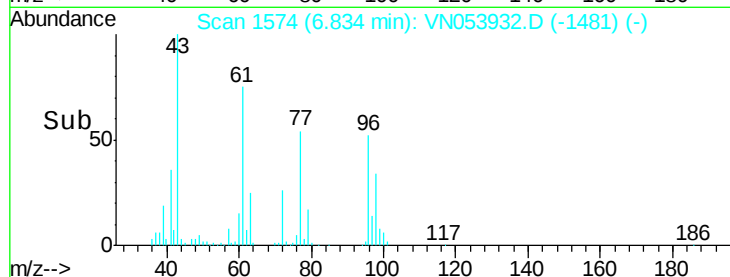
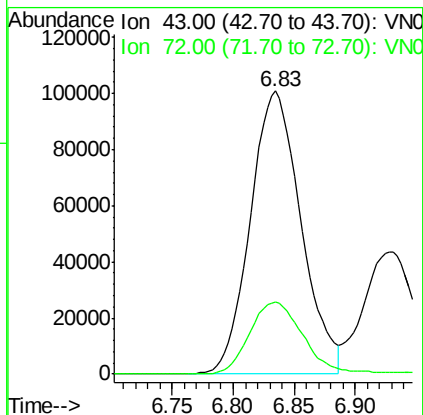
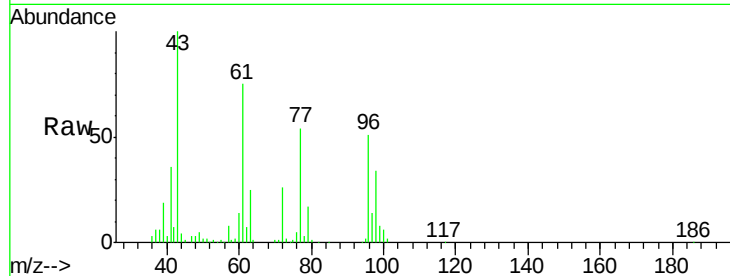
72 25.7 22.1 33.1

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#26

2,2-Dichloropropane

Concen: 19.578 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN053932.D

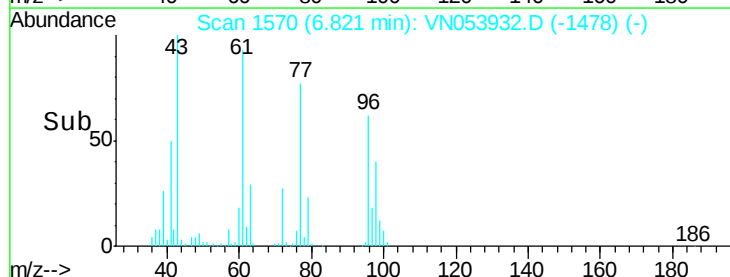
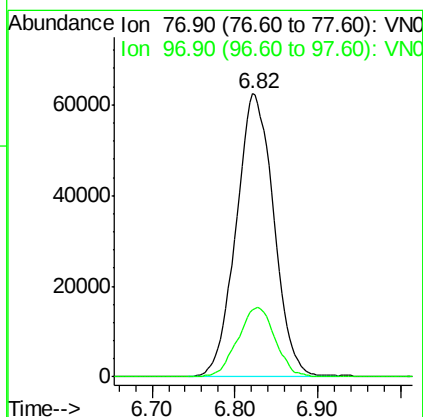
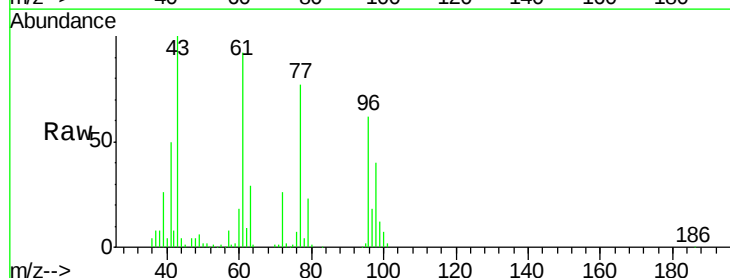
Acq: 25 Feb 2019 16:29

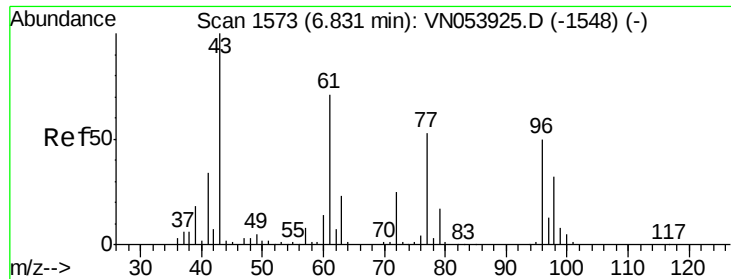
Tgt Ion: 77 Resp: 197216

Ion Ratio Lower Upper

77 100

97 24.3 12.3 36.9





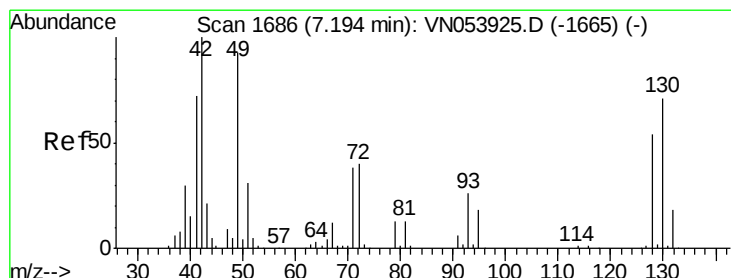
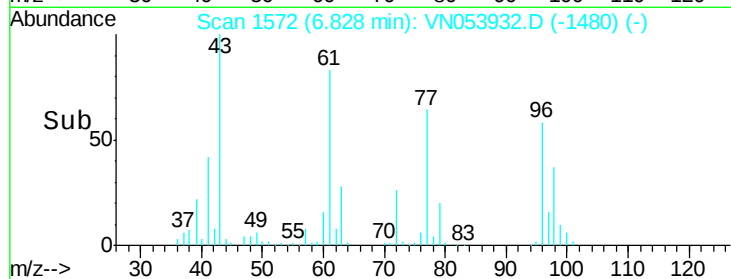
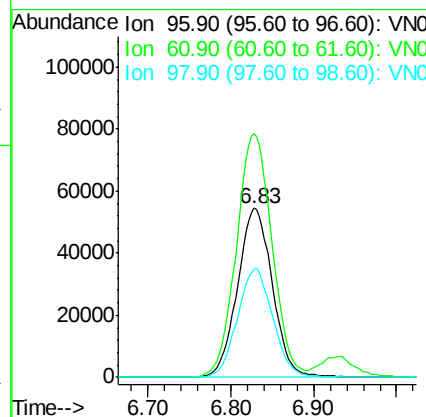
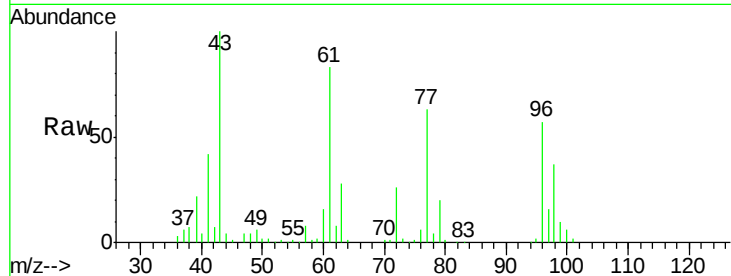
#27
 cis-1,2-Dichloroethene
 Concen: 19.414 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN053932.D
 Acq: 25 Feb 2019 16:29

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0225WBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	159672		
61	146.3	0.0	275.6	
98	65.0	0.0	130.0	

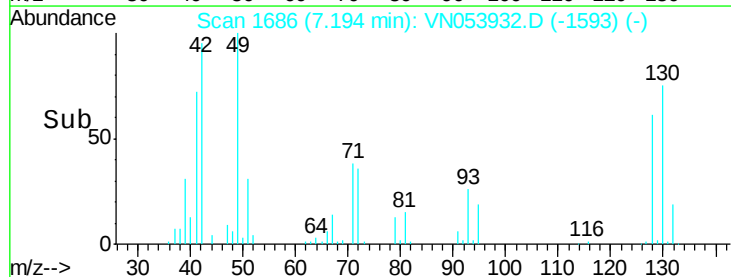
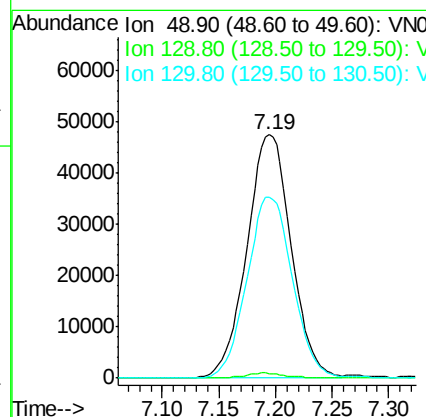
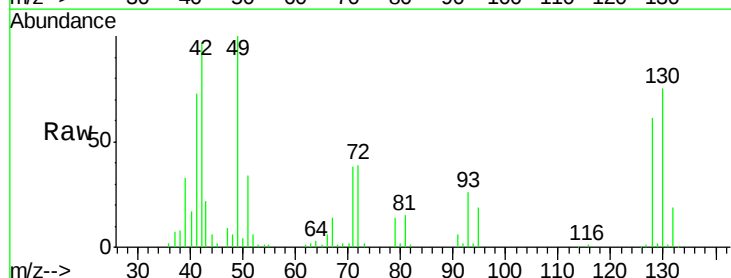
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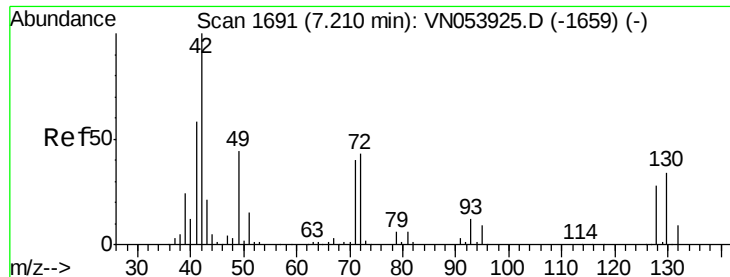
MMDadoda
 2/28/2019 10:48:33 AM



#28
 Bromochloromethane
 Concen: 19.964 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN053932.D
 Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	129562		
129	1.8	0.0	4.6	
130	76.3	72.9	109.3	





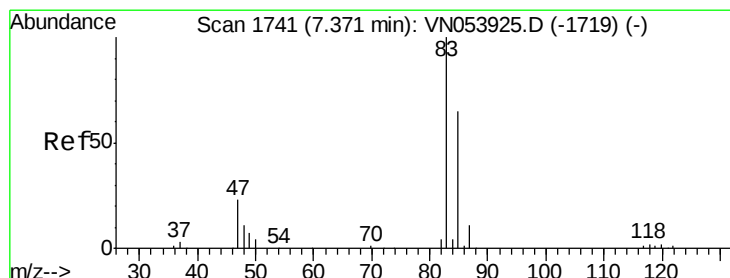
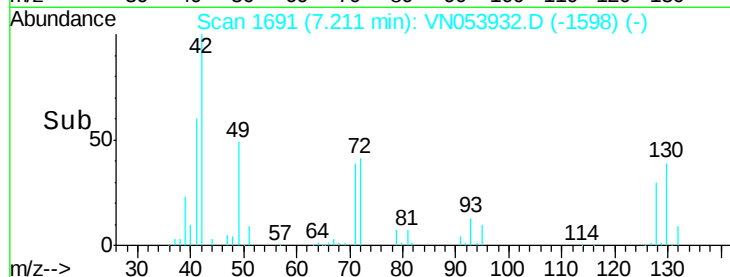
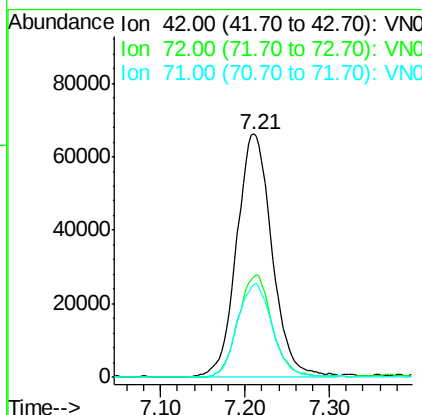
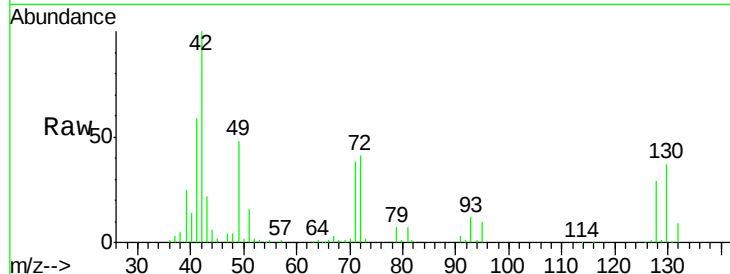
#29
Tetrahydrofuran
Concen: 90.375 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampled :
VN0225WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.2	36.9	55.3
71	38.6	34.6	52.0

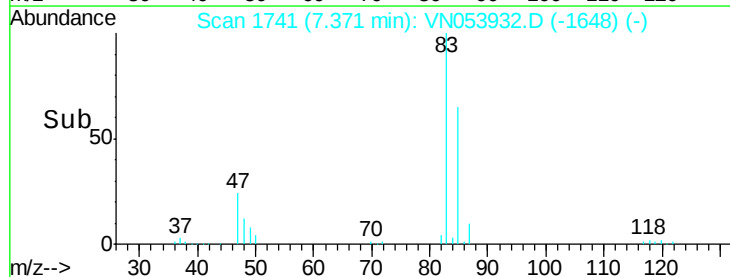
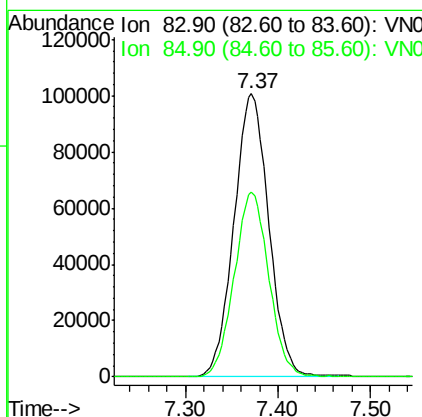
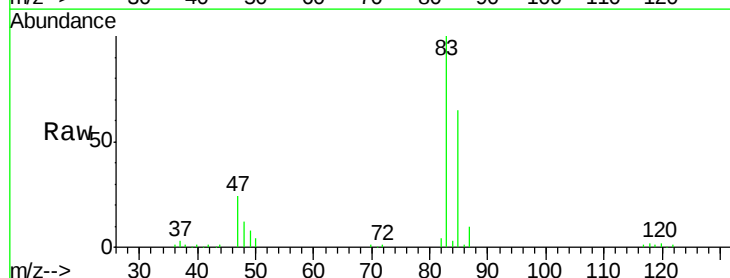
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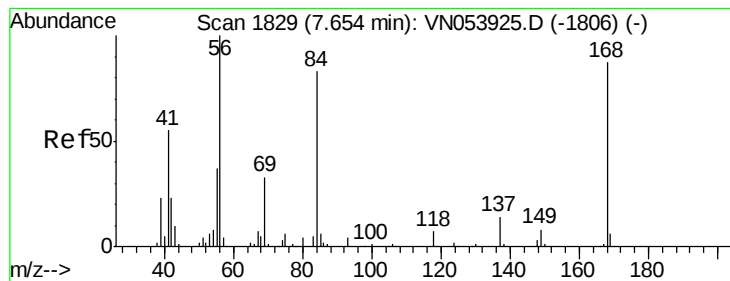
MMDadoda
2/28/2019 10:48:33 AM



#30
Chloroform
Concen: 19.113 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.6	78.8





#31

Cyclohexane

Concen: 19.830 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

VN0225WBS01

Tot Ion: 56 Resp: 260507

Ion Ratio Lower Upper

56 100

69 34.3 26.0 39.0

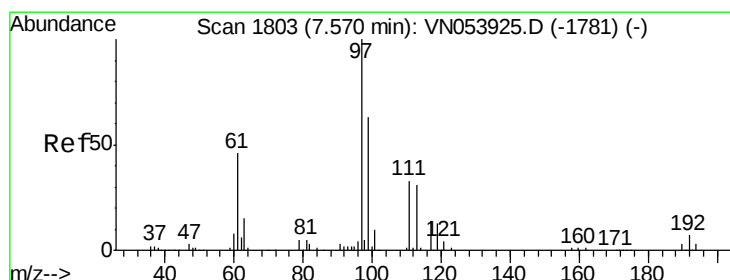
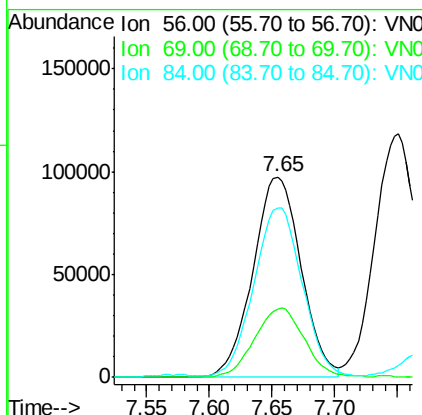
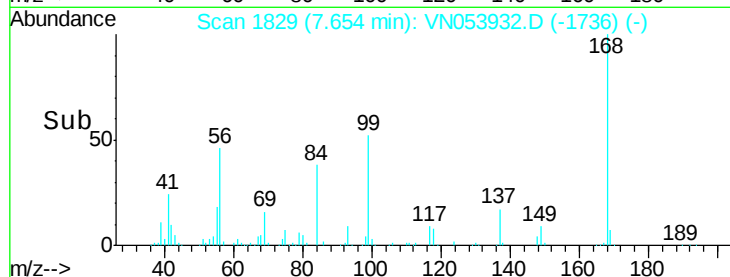
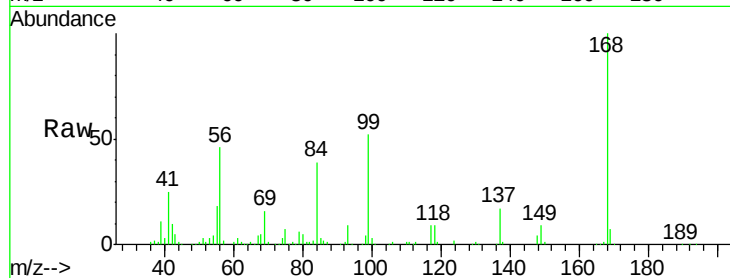
84 83.5 69.1 103.7

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#32

1,1,1-Trichloroethane

Concen: 19.179 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

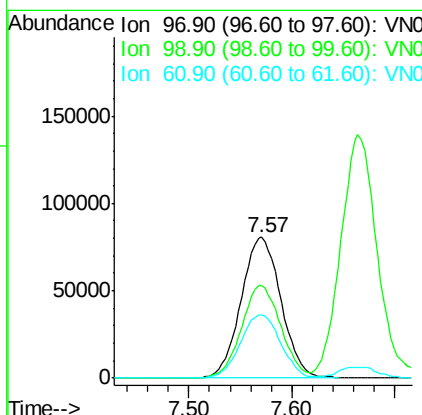
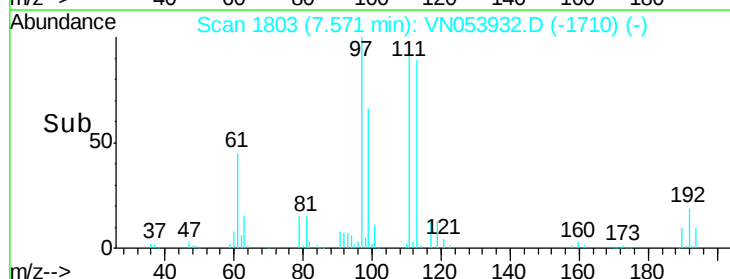
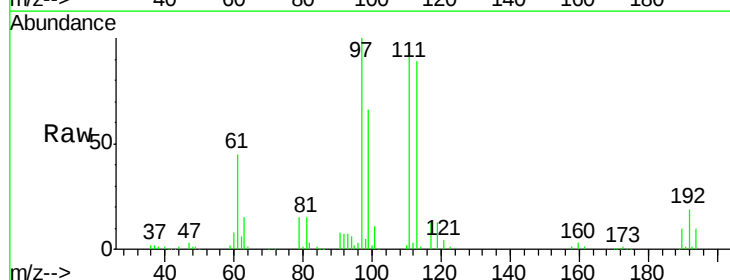
Tgt Ion: 97 Resp: 217414

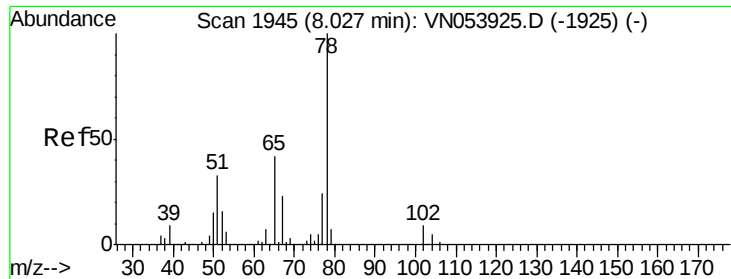
Ion Ratio Lower Upper

97 100

99 64.6 51.8 77.8

61 45.3 33.2 49.8





#33

1,2-Dichloroethane-d4

Concen: 48.268 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

VN0225WBS01

Tot Ion: 65 Resp: 391651

Ion Ratio Lower Upper

65 100

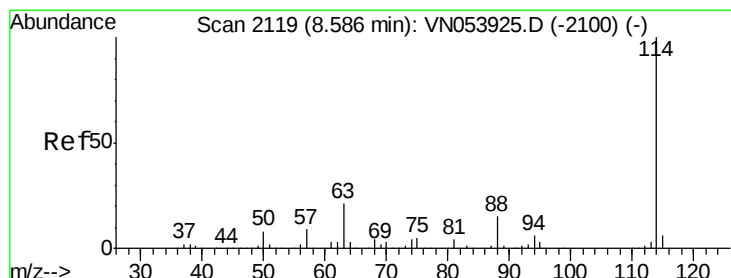
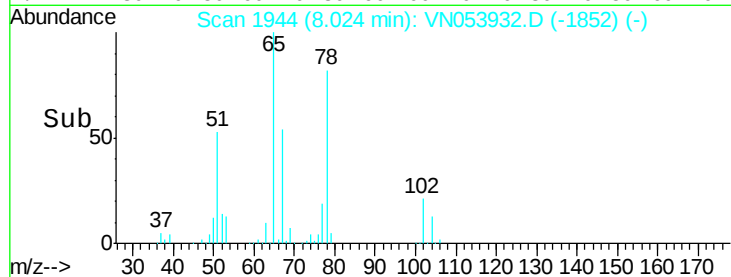
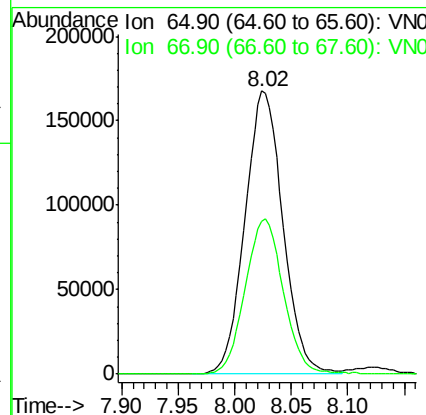
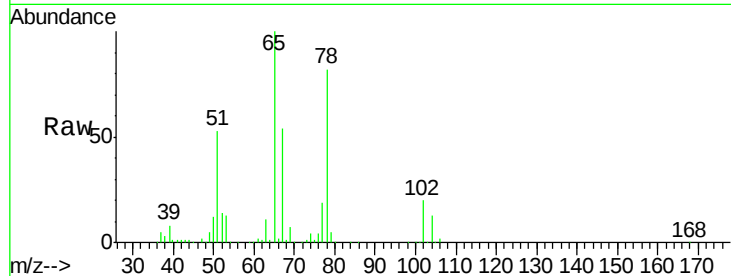
67 55.1 0.0 111.8

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

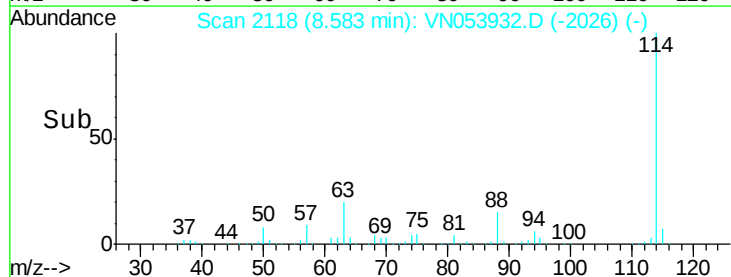
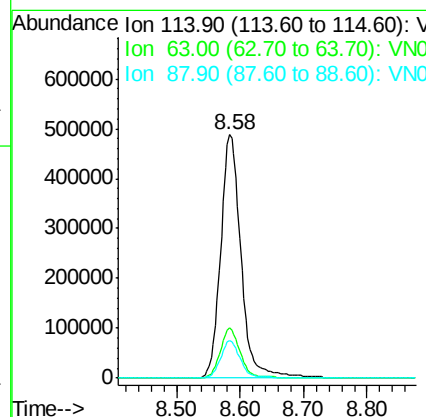
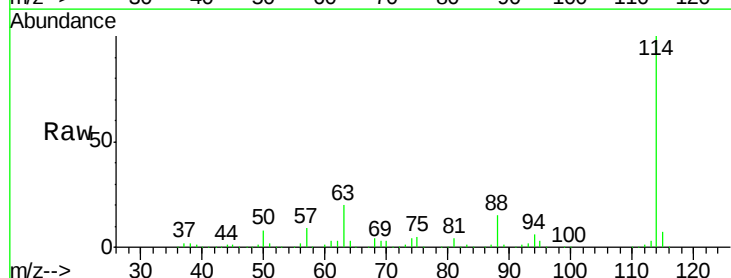
Tgt Ion: 114 Resp: 1087844

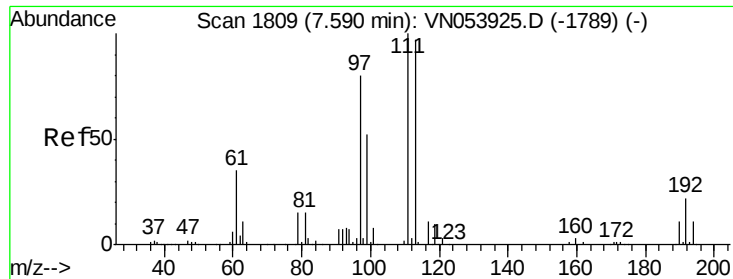
Ion Ratio Lower Upper

114 100

63 20.4 0.0 37.4

88 15.3 0.0 30.4





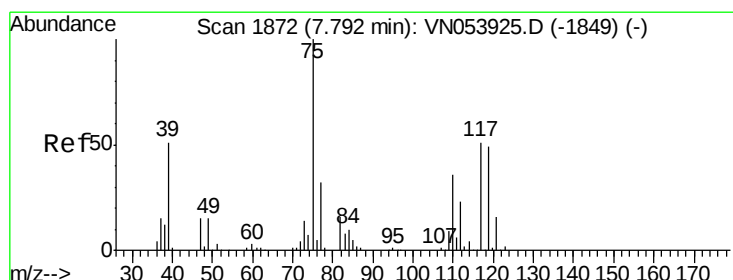
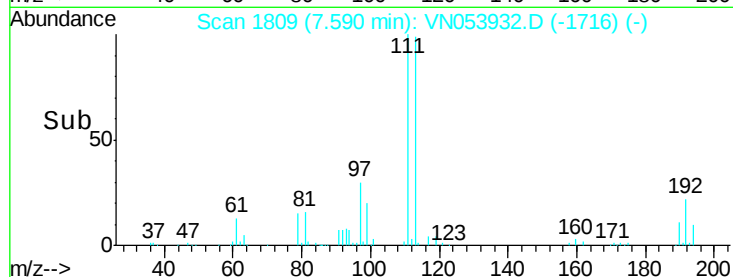
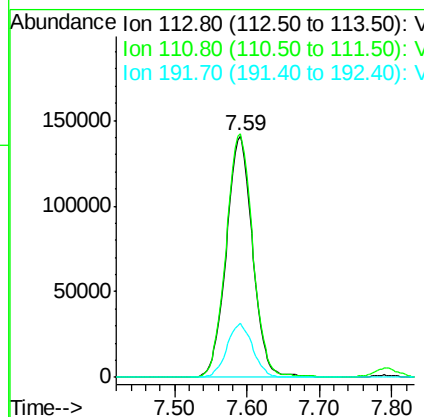
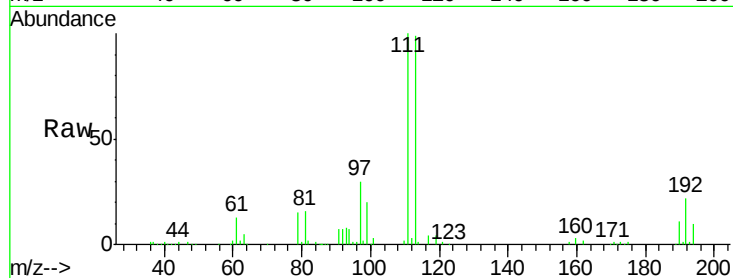
#35
Dibromofluoromethane
Concen: 50.463 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	354987		
111	102.5	81.1	121.7	
192	22.0	18.8	28.2	

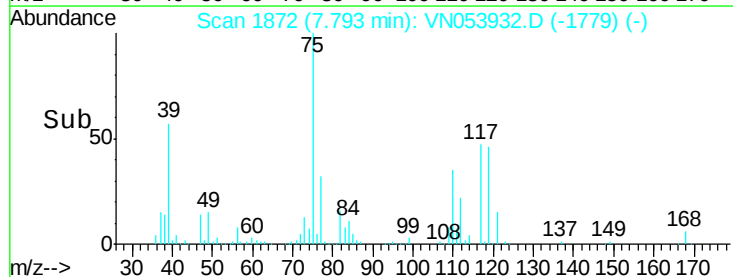
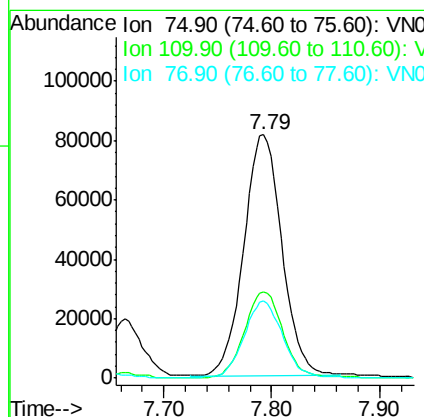
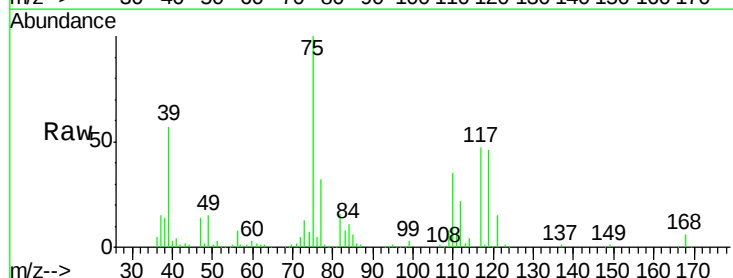
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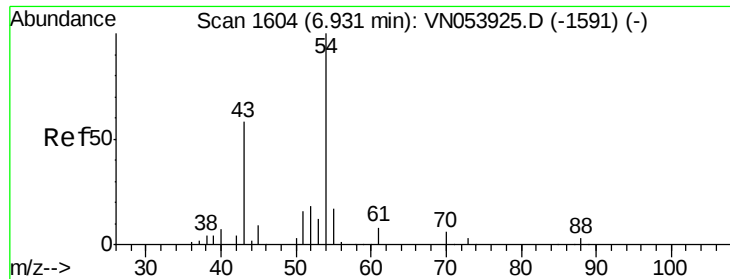
MMDadoda
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#36
1,1-Dichloropropene
Concen: 19.804 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	200344		
110	36.1	19.0	57.0	
77	32.3	25.4	38.0	





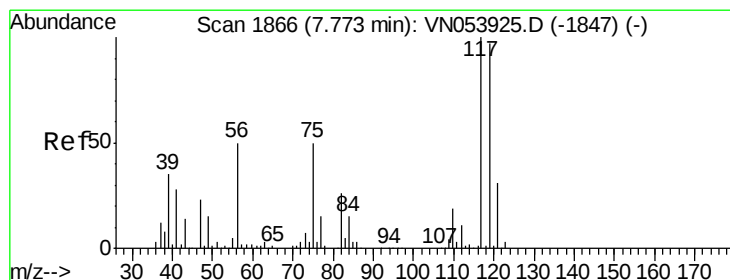
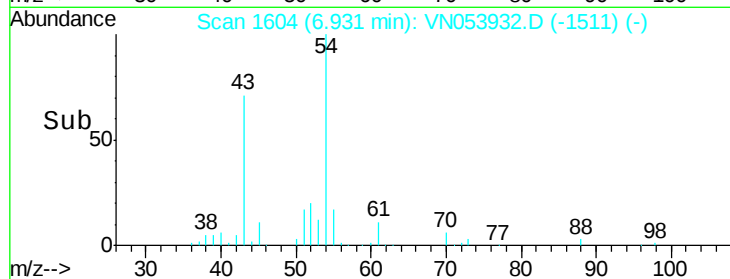
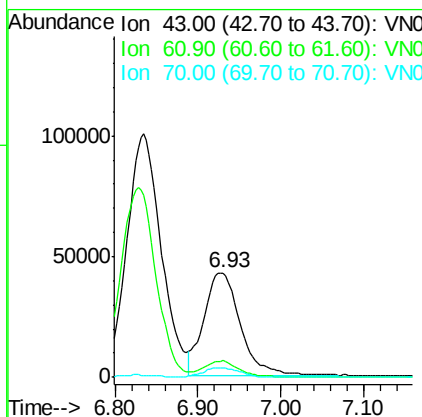
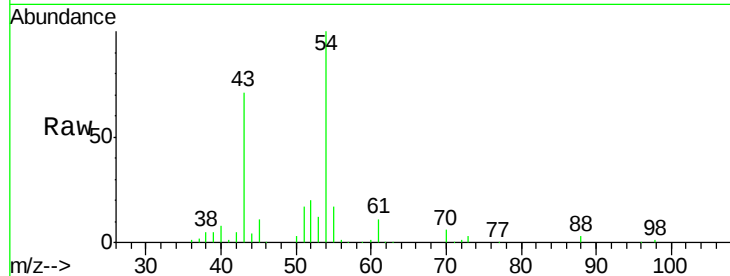
#37
Ethyl Acetate
Concen: 18.229 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.6	12.0	18.0
70	9.5	8.7	13.1

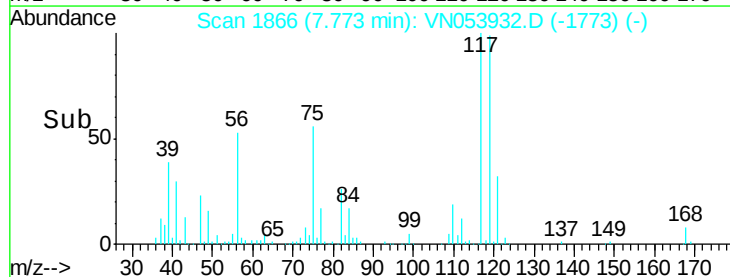
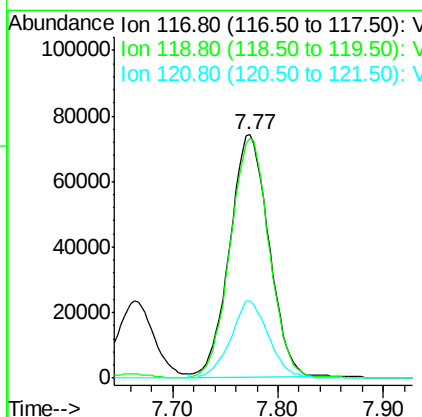
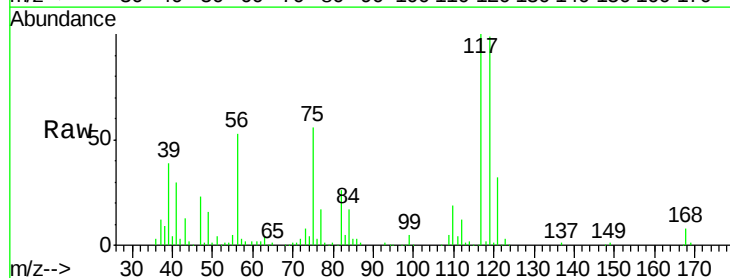
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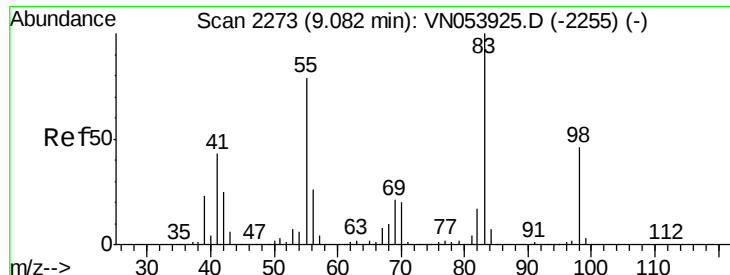
MMDadoda
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#38
Carbon Tetrachloride
Concen: 18.149 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.0	76.2	114.2
121	31.9	24.6	36.8





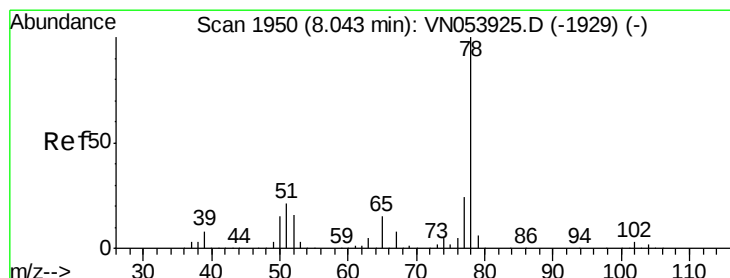
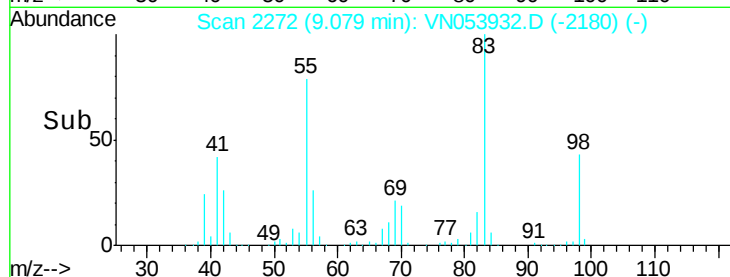
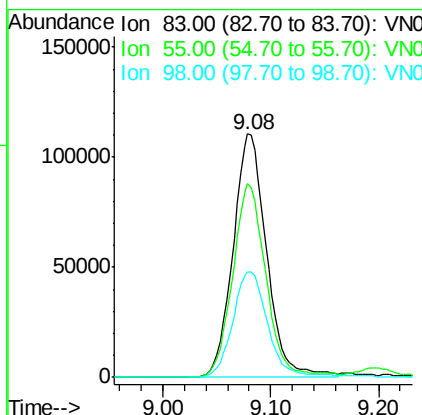
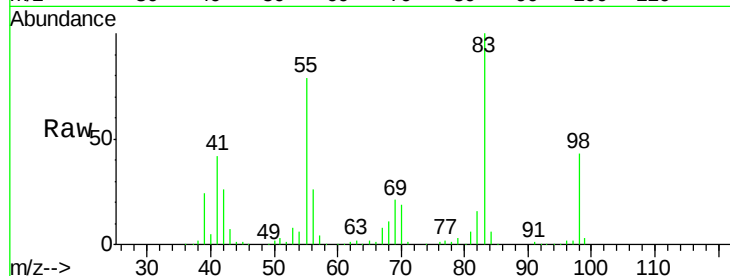
#39
Methvlcvclohexane
Concen: 19.667 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampled :
VN0225WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.4	58.2	87.4
98	43.5	37.2	55.8

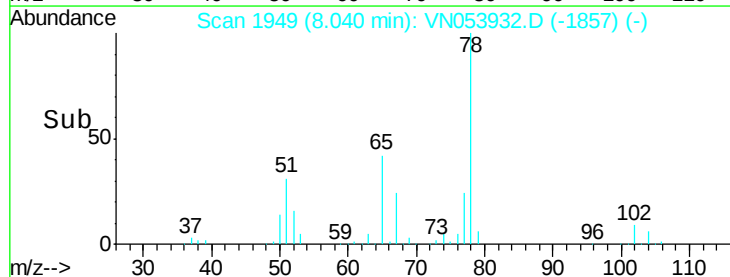
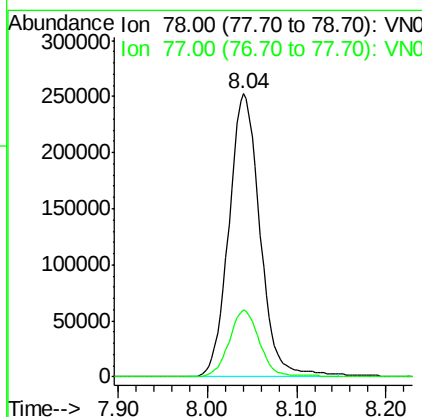
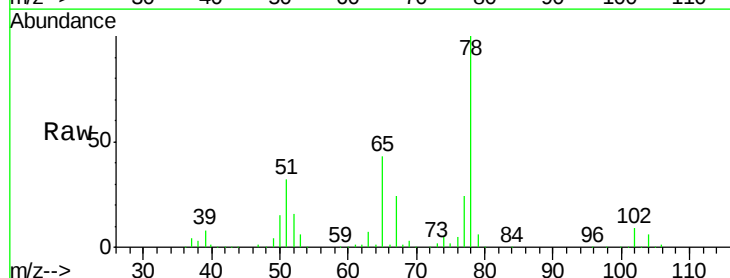
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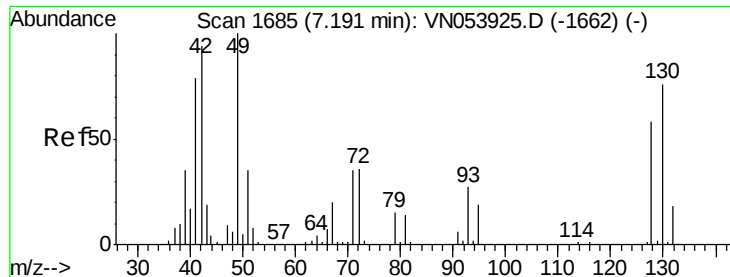
MMDadoda
2/28/2019 10:48:33 AM



#40
Benzene
Concen: 19.665 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.8	28.2





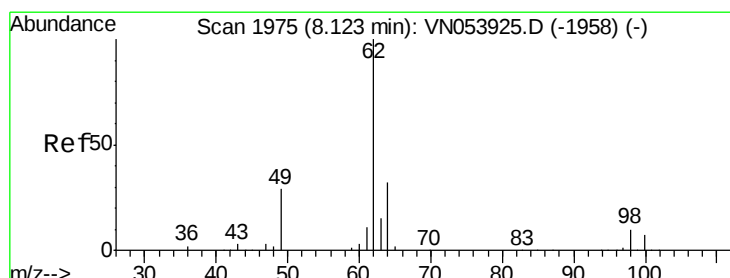
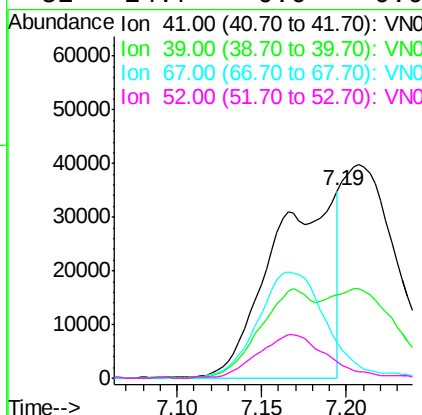
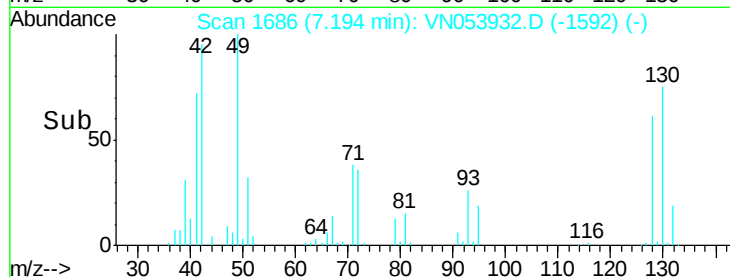
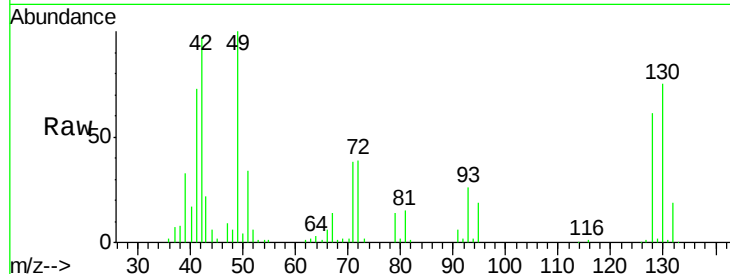
#41
Methacrylonitrile
Concen: 19.954 ug/l m
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	38.8	0.0	0.0#	
67	60.5	0.0	0.0#	
52	24.7	0.0	0.0#	

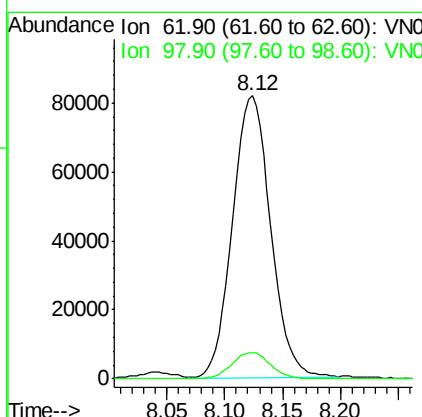
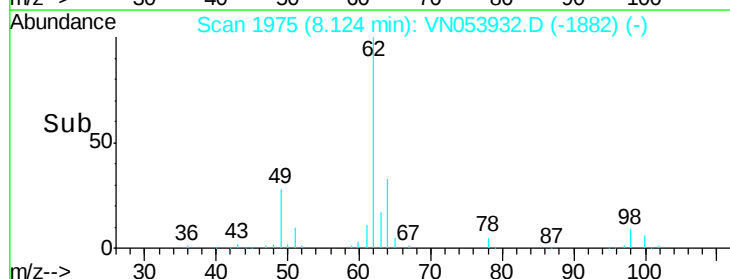
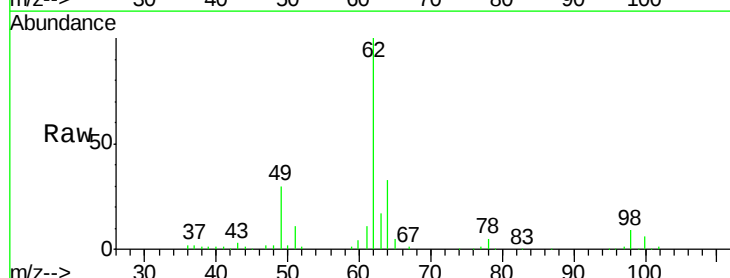
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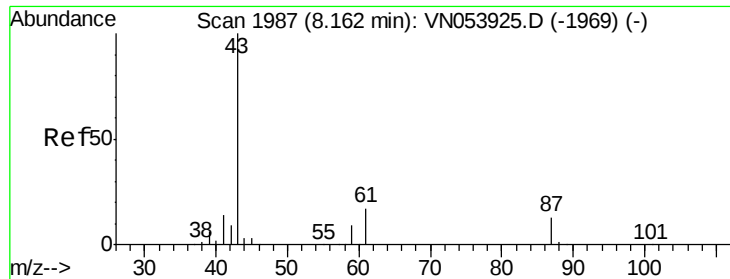
MMDadoda
2/28/2019 10:48:33 AM



#42
1,2-Dichloroethane
Concen: 19.415 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.5	0.0	20.8	





#43

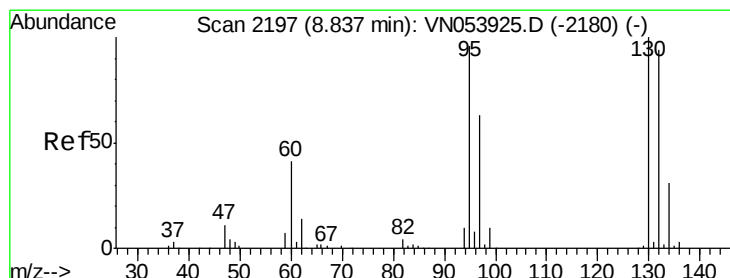
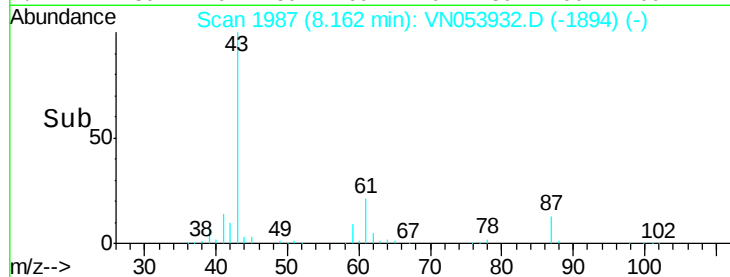
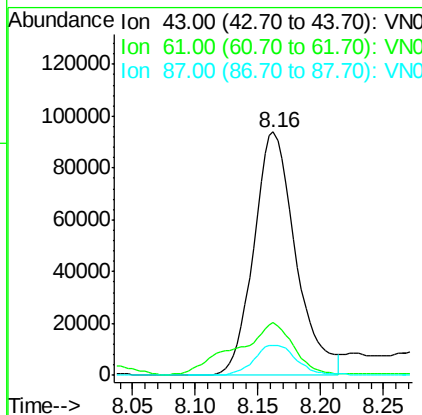
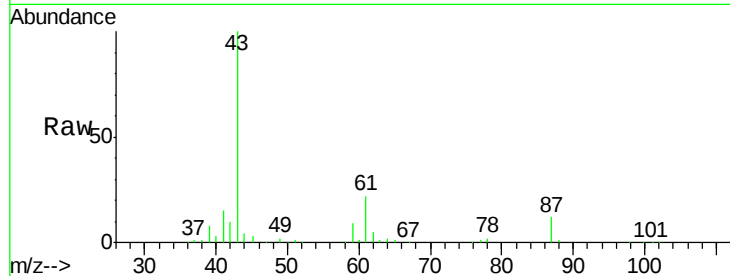
Isopropyl Acetate
 Concen: 17.821 ug/l
 RT: 8.16 min Scan# 1987
 Delta R.T. 0.00 min
 Lab File: VN053932.D
 Acq: 25 Feb 2019 16:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0225WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.0	17.4	26.0
87	12.7	11.5	17.3

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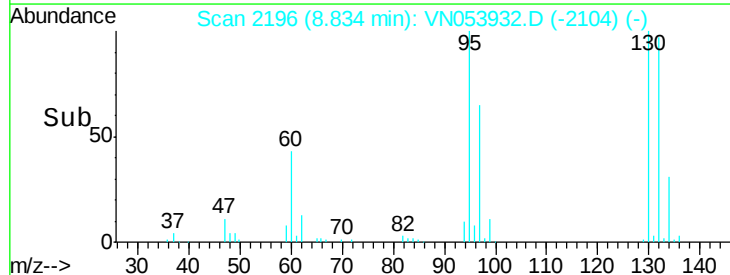
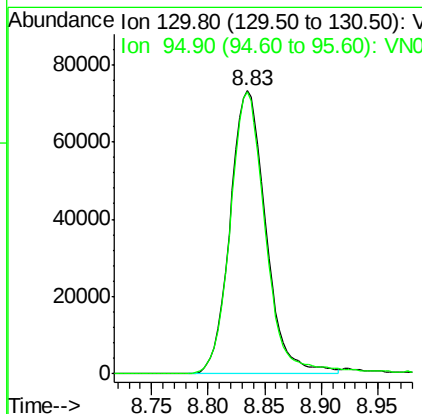
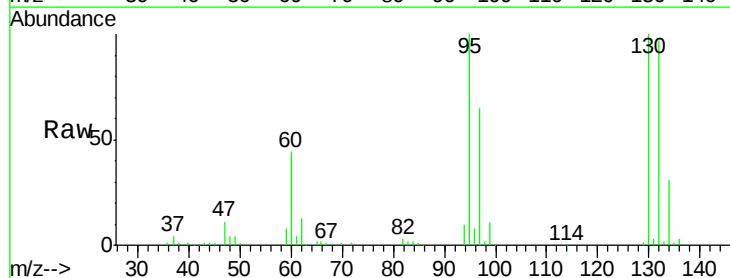
MMDadoda
 2/28/2019 10:48:33 AM

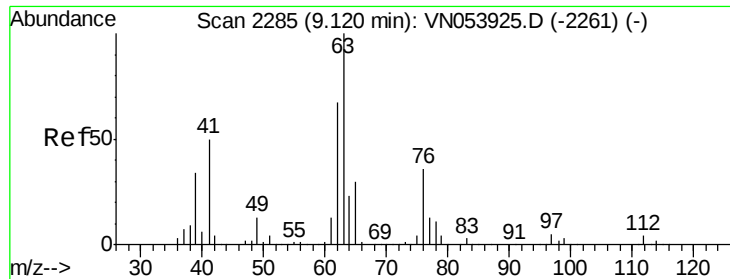


#44

Trichloroethene
 Concen: 19.553 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN053932.D
 Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.9	0.0	190.0





#45

1,2-Dichloropropane

Concen: 19.840 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

VN0225WBS01

Tot Ion: 63 Resp: 166352

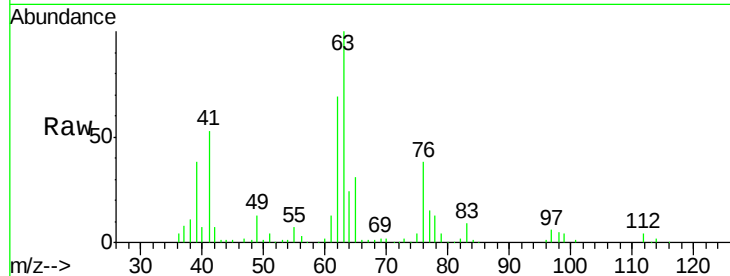
Ion Ratio Lower Upper

63 100

65 30.6 24.3 36.5

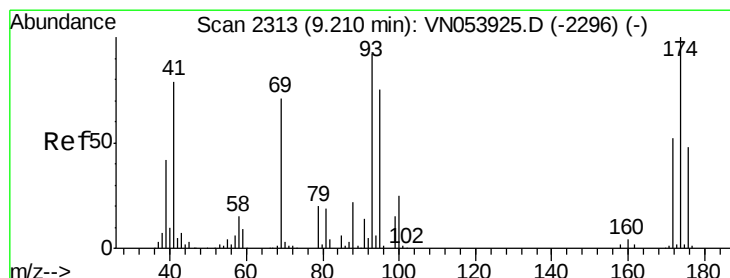
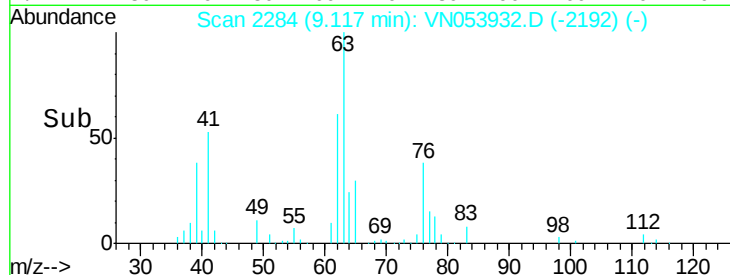
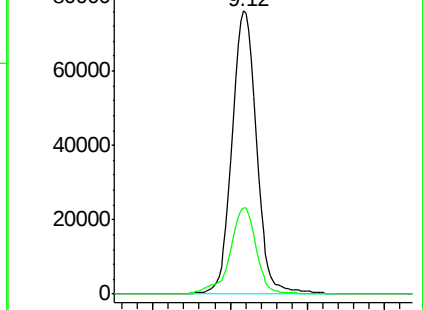
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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 19.467 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

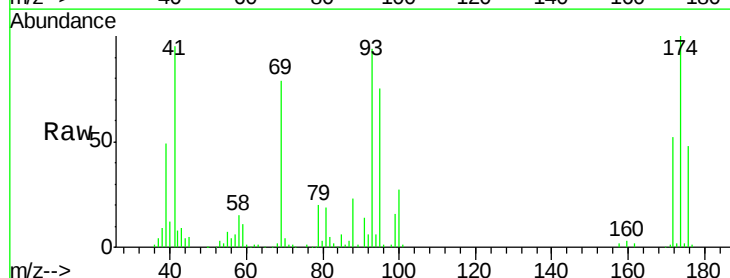
Tgt Ion: 93 Resp: 94764

Ion Ratio Lower Upper

93 100

95 82.4 66.6 100.0

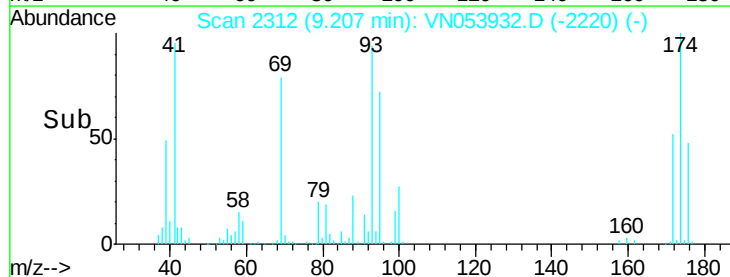
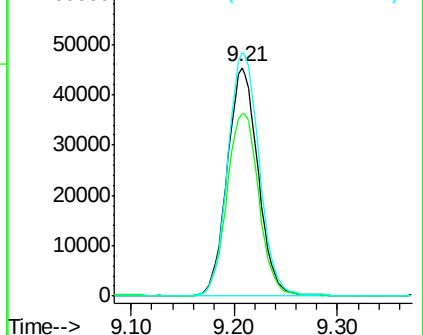
174 108.3 96.2 144.4

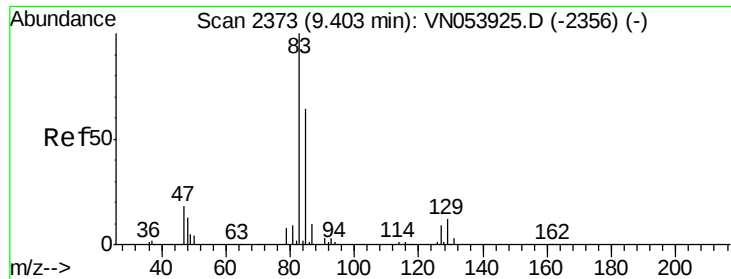


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 19.386 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

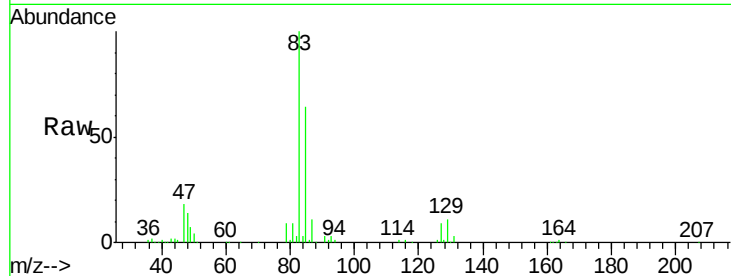
ClientSampleId :

VN0225WBS01

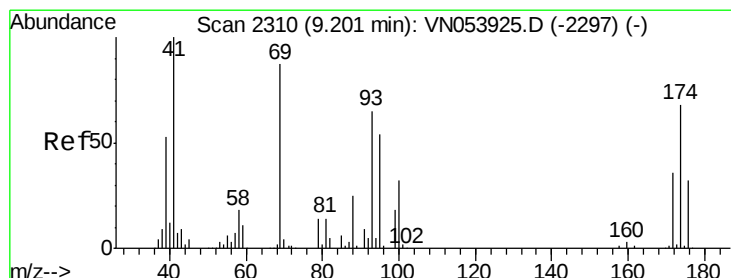
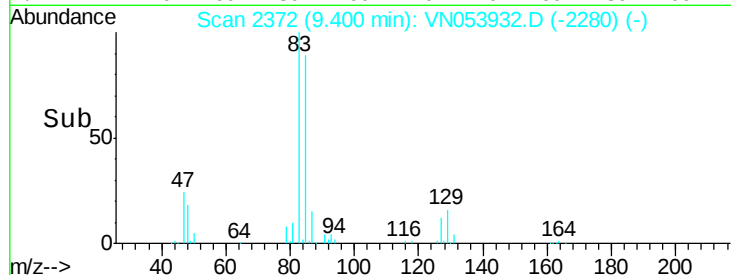
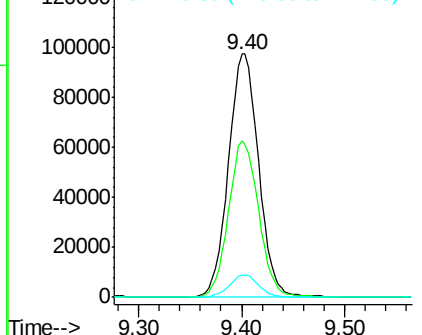
Tot Ion:	83	Resp:	198870
Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.8	77.6
127	9.0	7.4	11.0

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 18.480 ug/l

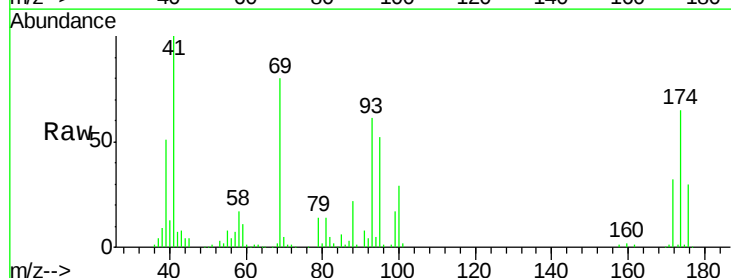
RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

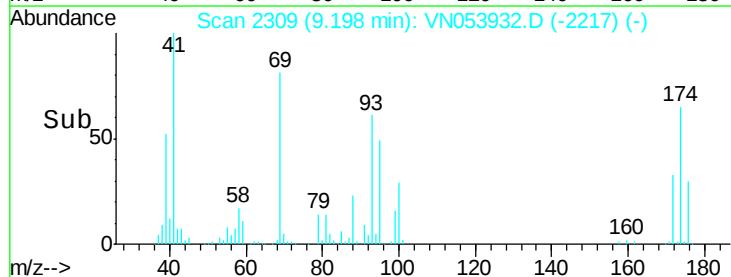
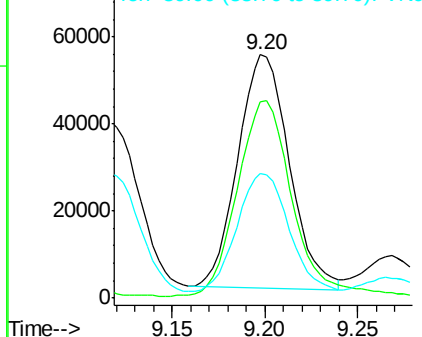
Lab File: VN053932.D

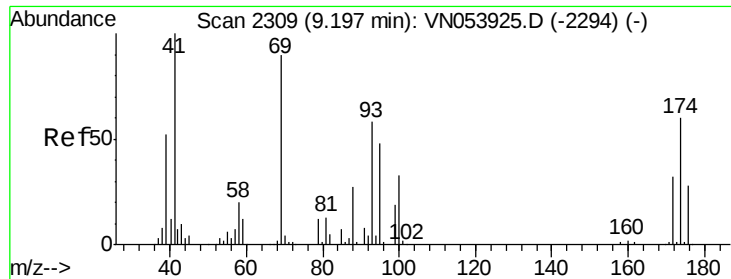
Acq: 25 Feb 2019 16:29

Tgt Ion:	41	Resp:	103673
Ion	Ratio	Lower	Upper
41	100		
69	91.8	74.8	112.2
39	56.9	39.0	58.6



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





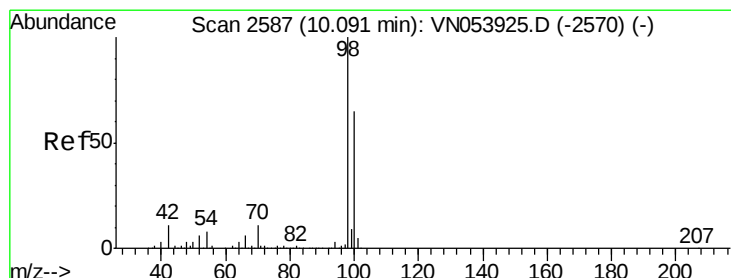
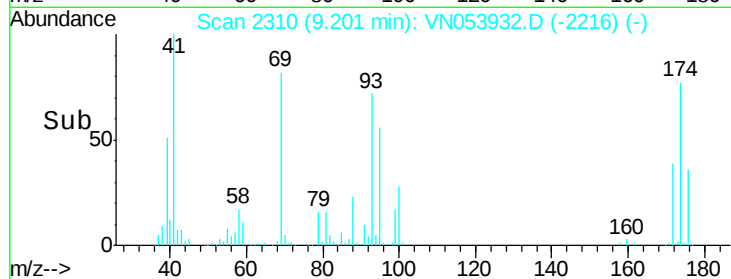
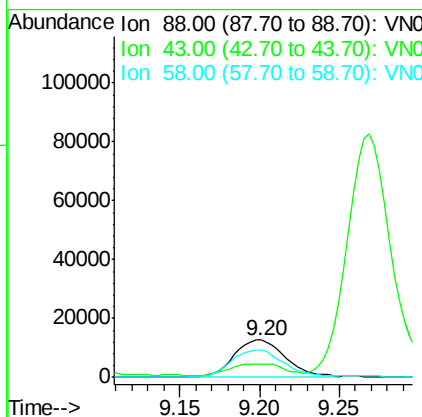
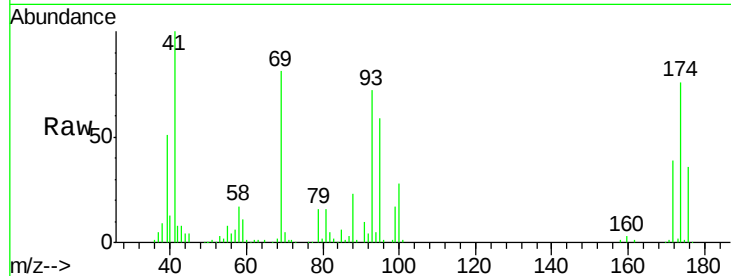
#49
 1,4-Dioxane
 Concen: 371.263 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN053932.D
 Acq: 25 Feb 2019 16:29

Instrument :
 MSVOA_N
 ClientSampled :
 VN0225WBS01

Tot Ion	88	Resp	28210
Ion	Ratio	Lower	Upper
88	100		
43	32.2	21.2	31.8#
58	74.2	54.2	81.2

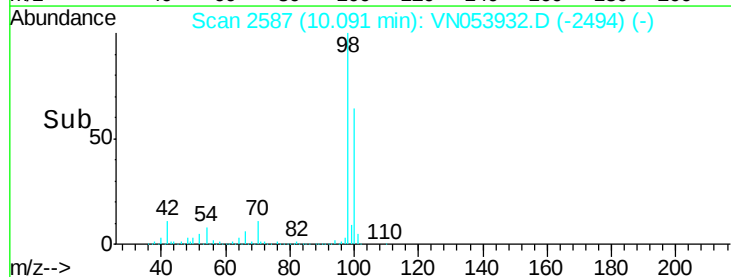
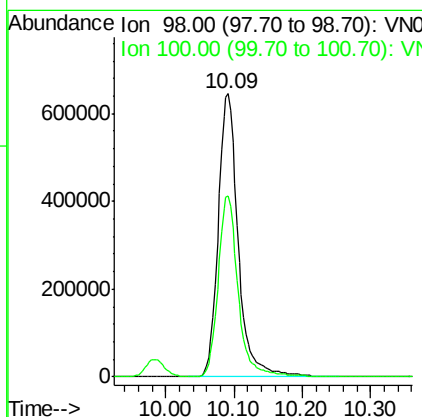
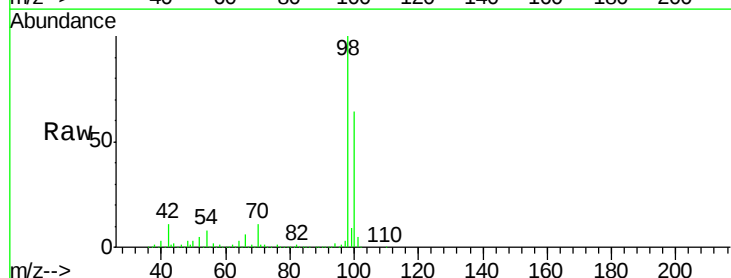
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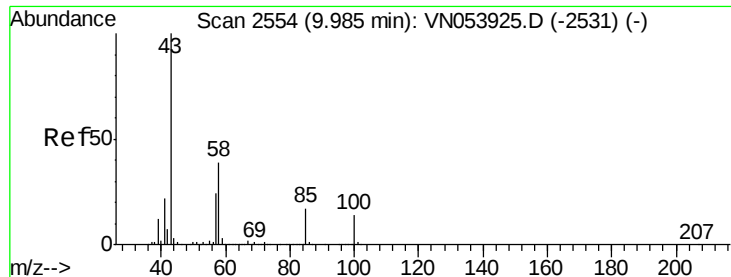
MMDadoda
 2/28/2019 10:48:33 AM



#50
 Toluene-d8
 Concen: 50.041 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN053932.D
 Acq: 25 Feb 2019 16:29

Tgt Ion	98	Resp	1310407
Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 92.737 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

VN0225WBS01

Tot Ion: 43 Resp: 581216

Ion Ratio Lower Upper

43 100

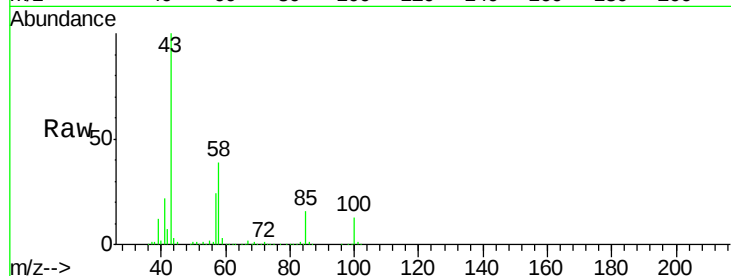
58 38.5 32.7 49.1

Manual Integrations

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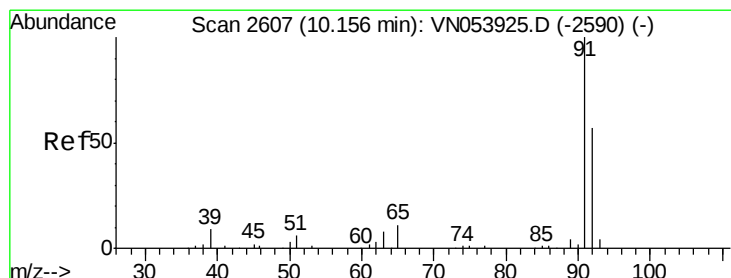
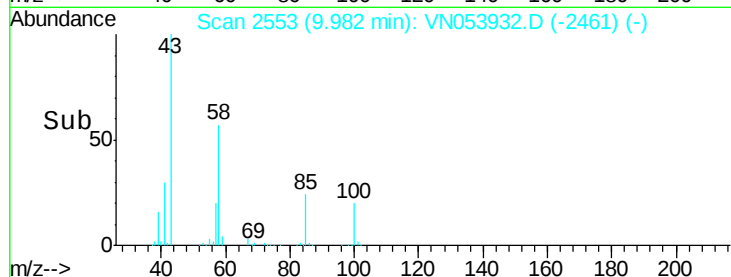
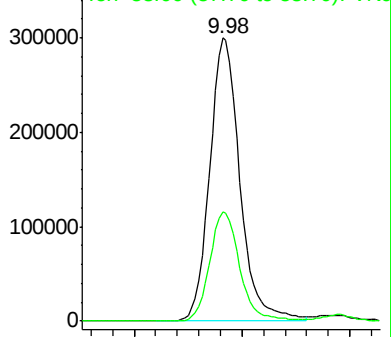
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 19.833 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN053932.D

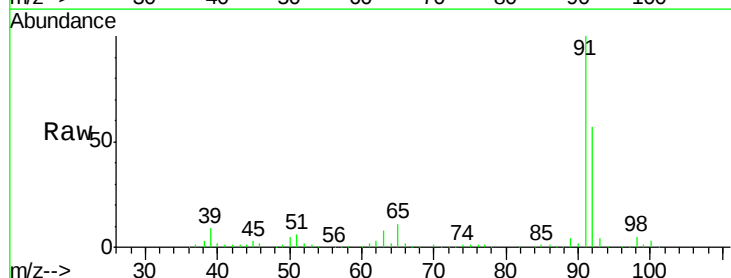
Acq: 25 Feb 2019 16:29

Tgt Ion: 92 Resp: 362943

Ion Ratio Lower Upper

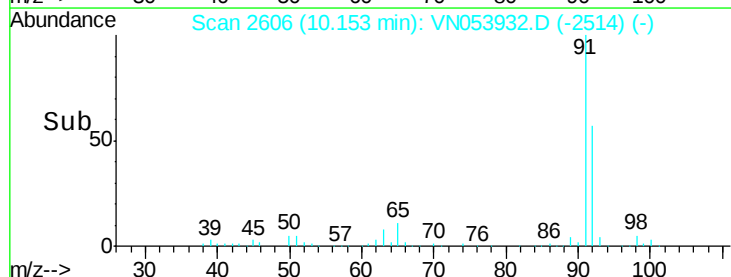
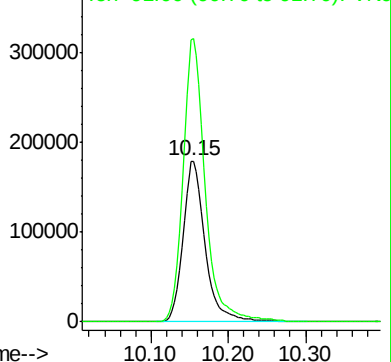
92 100

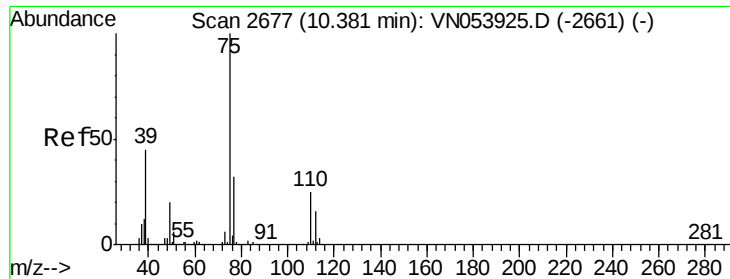
91 176.2 138.4 207.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 19.224 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

VN0225WBS01

Tot Ion: 75 Resp: 191885

Ion Ratio Lower Upper

75 100

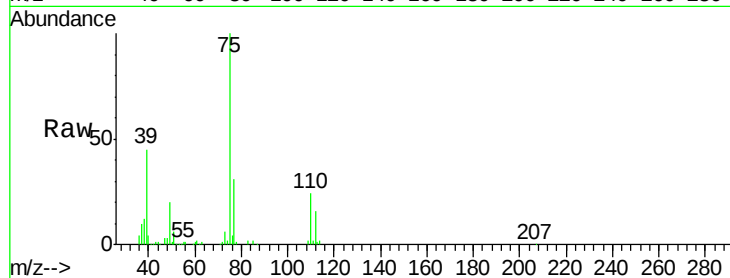
77 30.8 25.0 37.6

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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.38

120000

100000

80000

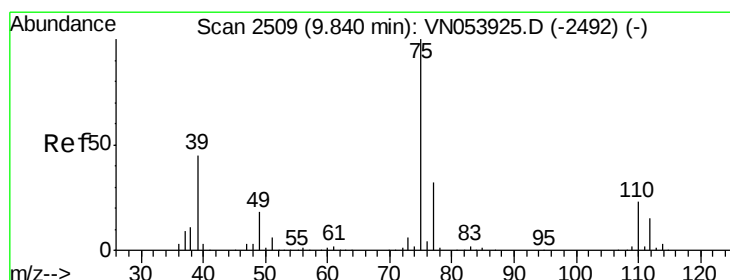
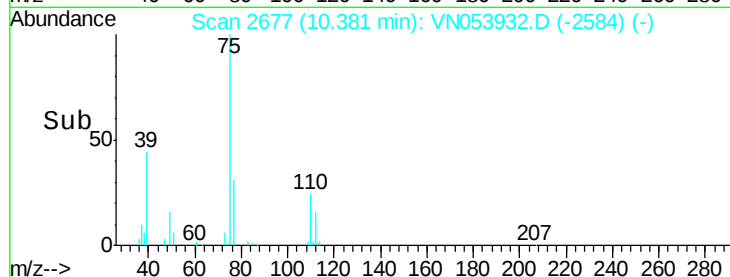
60000

40000

20000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 19.603 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

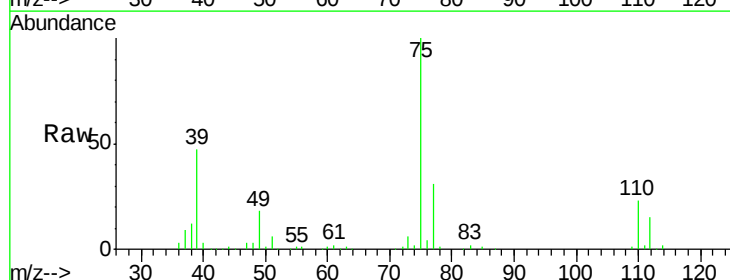
Tgt Ion: 75 Resp: 230665

Ion Ratio Lower Upper

75 100

77 30.9 25.8 38.6

39 46.5 31.4 47.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

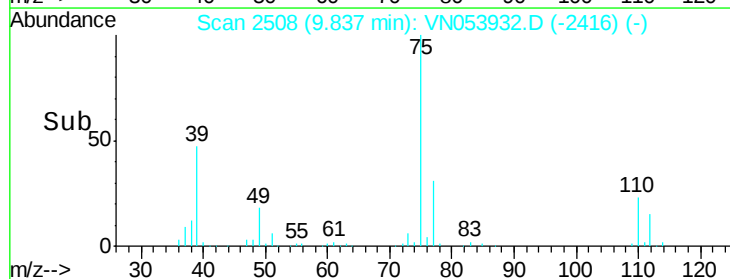
150000

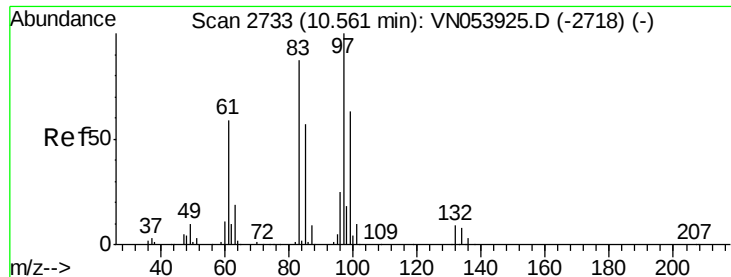
100000

50000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 19.119 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

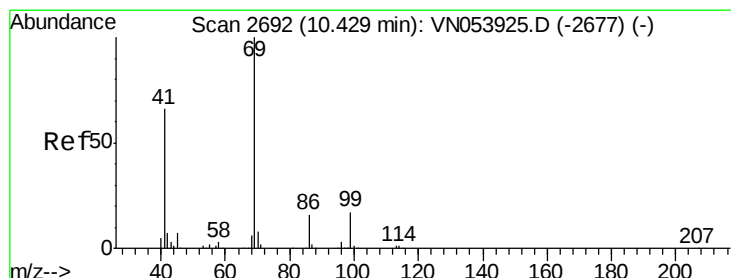
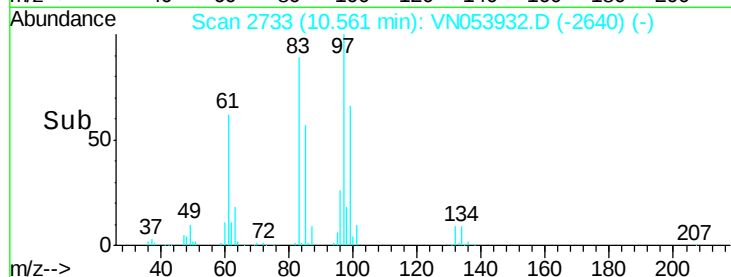
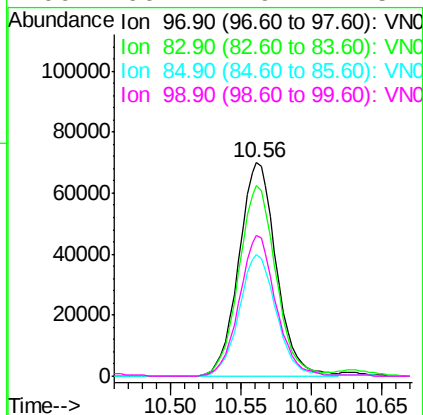
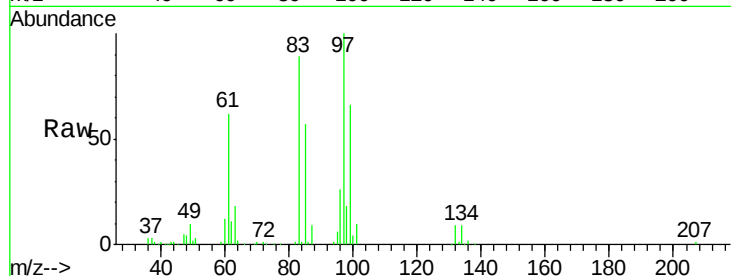
ClientSampleId :

VN0225WBS01

Tot Ion:	97	Resp:	130667
Ion	Ratio	Lower	Upper
97	100		
83	89.1	69.5	104.3
85	57.0	45.9	68.9
99	66.1	49.1	73.7

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#56

Ethyl methacrylate

Concen: 18.032 ug/l

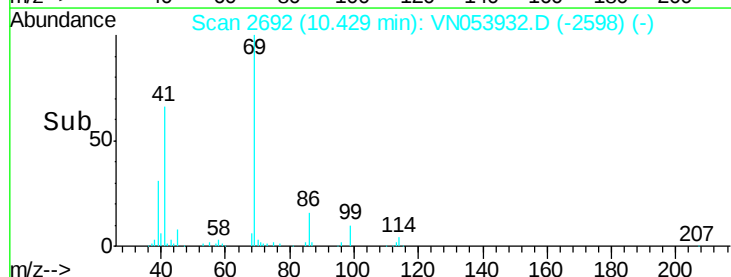
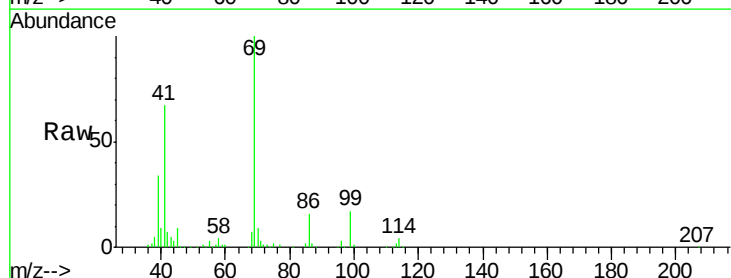
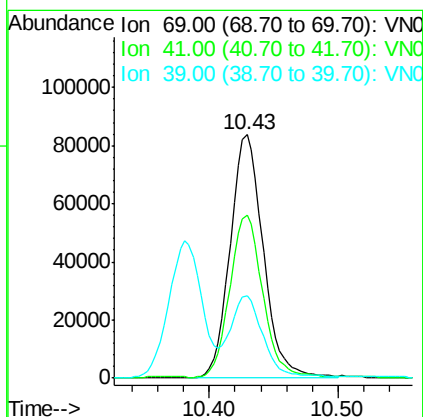
RT: 10.43 min Scan# 2692

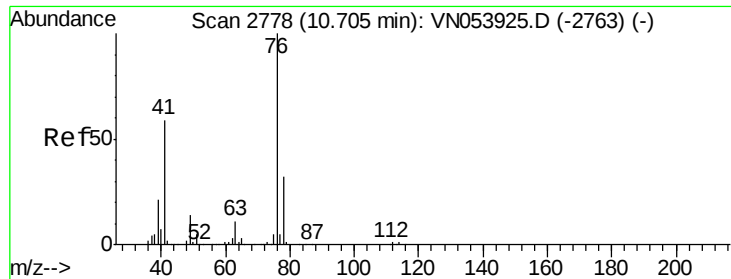
Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Tgt Ion:	69	Resp:	149933
Ion	Ratio	Lower	Upper
69	100		
41	65.6	47.5	71.3
39	31.8	23.4	35.0





#57

1,3-Dichloropropane

Concen: 19.267 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

VN0225WBS01

Tot Ion: 76 Resp: 222488

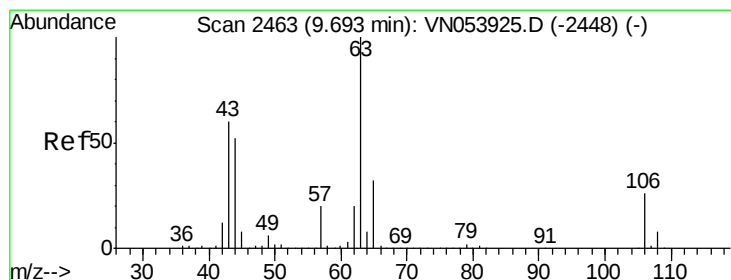
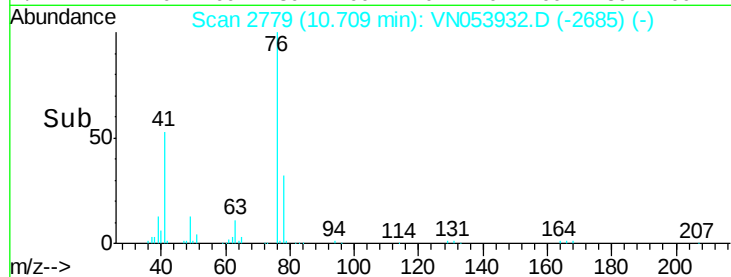
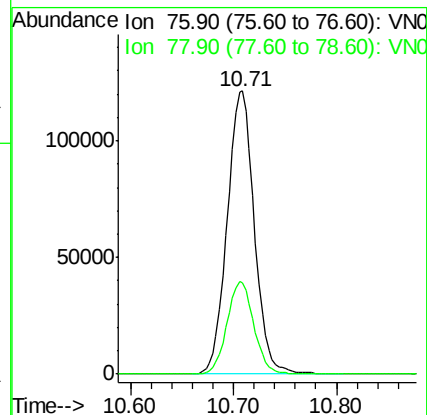
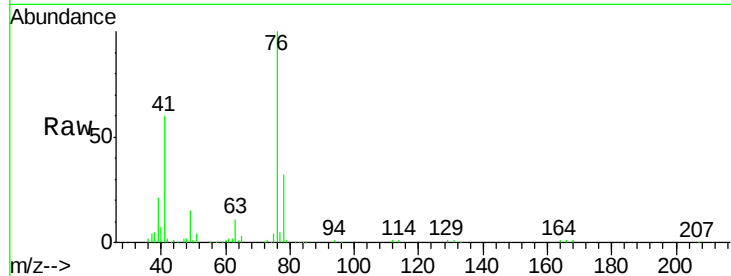
Ion Ratio Lower Upper

76 100

78 32.3 25.2 37.8

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2/28/2019 10:48:33 AM



#58

2-Chloroethyl Vinyl ether

Concen: 94.057 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN053932.D

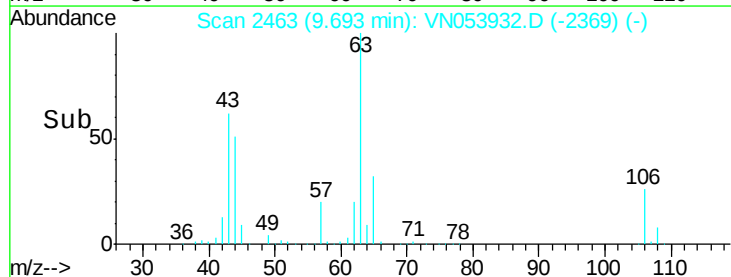
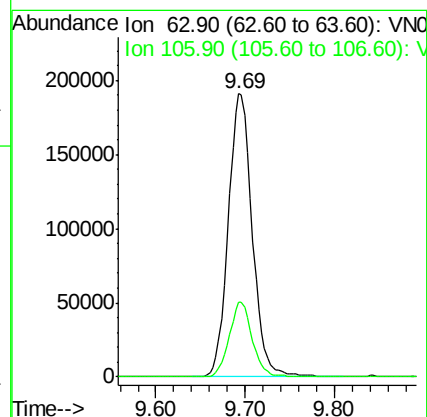
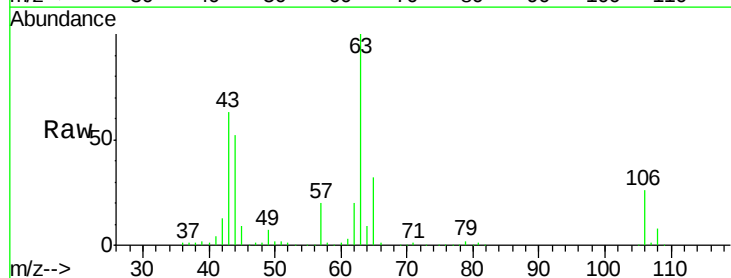
Acq: 25 Feb 2019 16:29

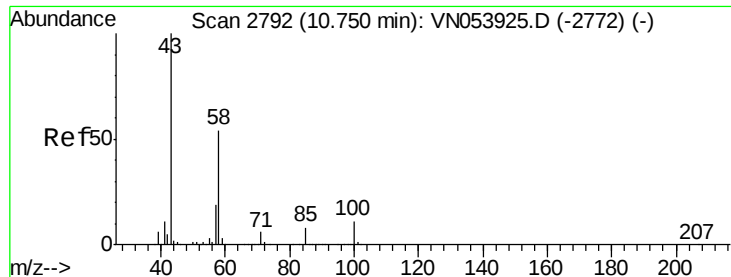
Tgt Ion: 63 Resp: 354929

Ion Ratio Lower Upper

63 100

106 25.5 22.2 33.2





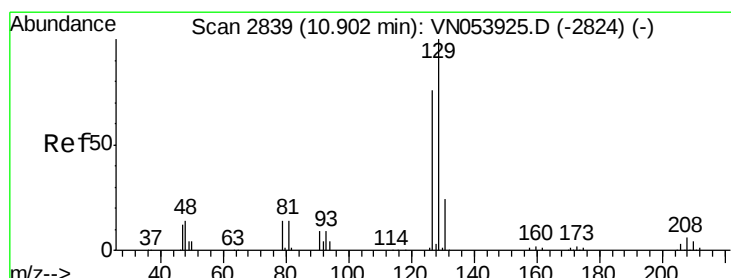
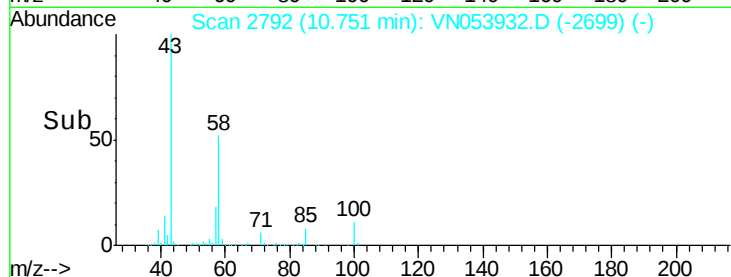
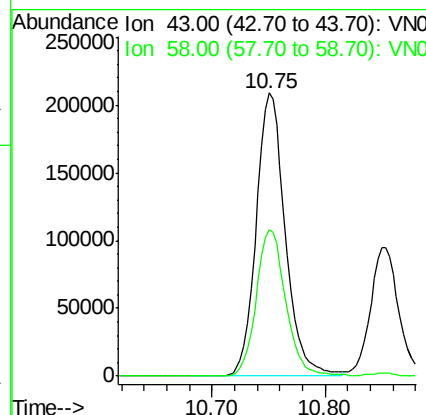
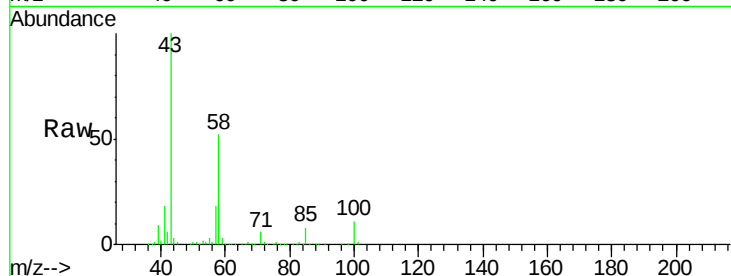
#59
2-Hexanone
Concen: 90.966 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Tot Ion: 43 Resp: 370793
Ion Ratio Lower Upper
43 100
58 52.8 29.1 87.4

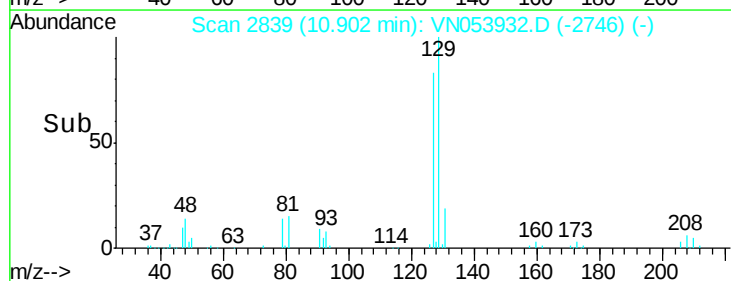
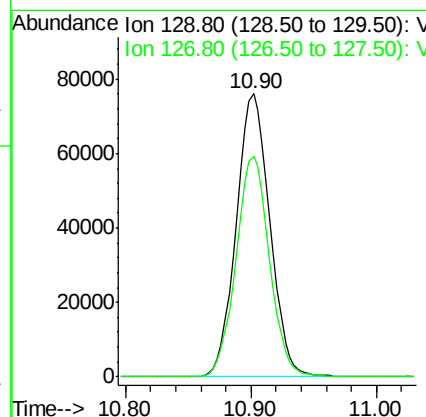
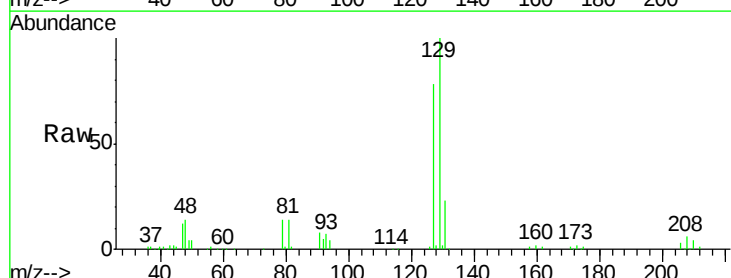
Manual Integrations
APPROVED

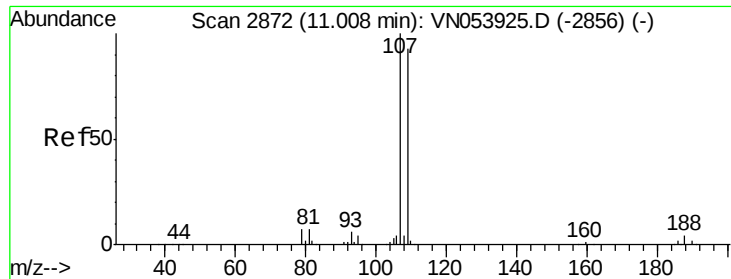
MMDadoda
2/28/2019 10:48:33 AM



#60
Dibromochloromethane
Concen: 18.656 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion: 129 Resp: 141703
Ion Ratio Lower Upper
129 100
127 77.5 38.8 116.3





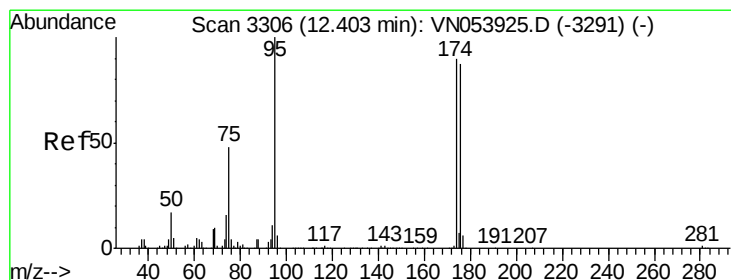
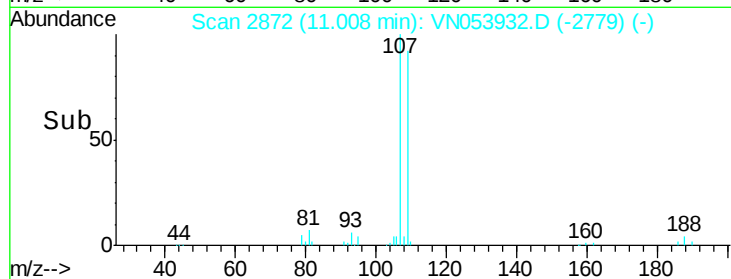
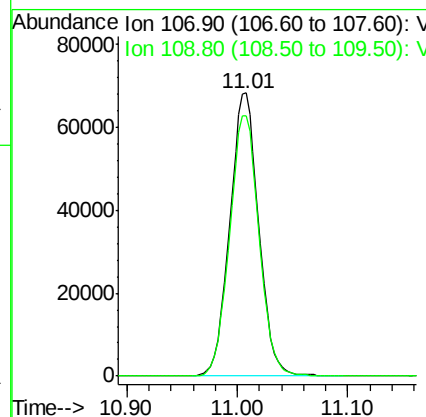
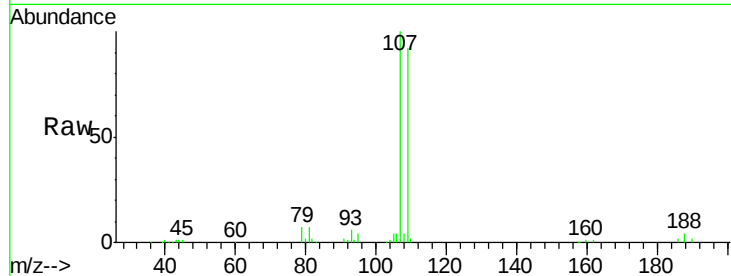
#61
 1,2-Dibromoethane
 Concen: 18.777 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053932.D
 Acq: 25 Feb 2019 16:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0225WBS01

Tot Ion	Ratio	Resp	Lower	Upper
107	100	123791		
109	94.1	76.3	114.5	

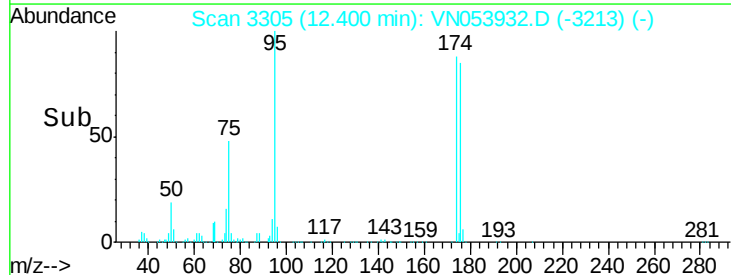
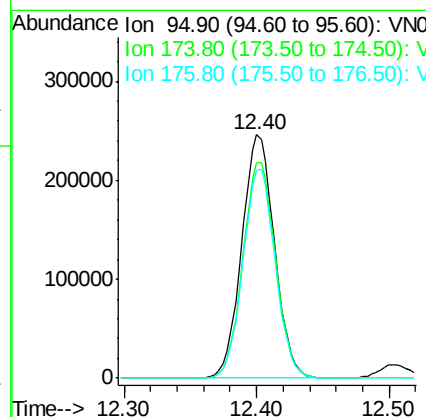
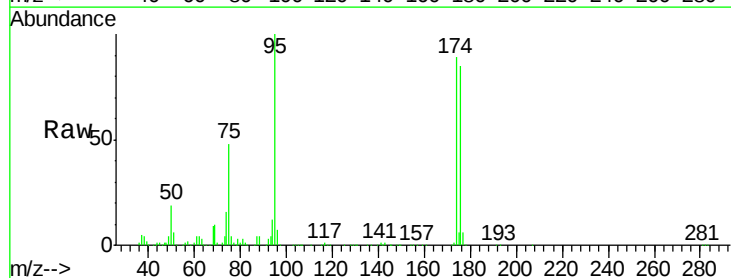
Manual Integrations
 APPROVED

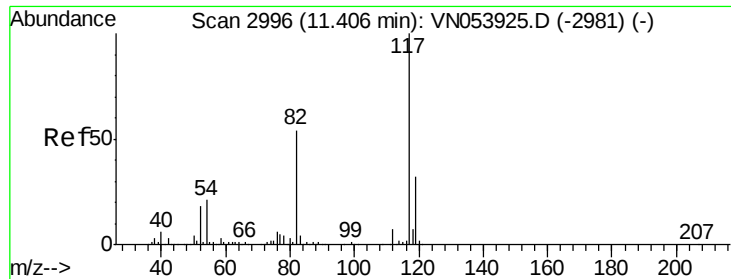
MMDadoda
 2/28/2019 10:48:33 AM



#62
 4-Bromofluorobenzene
 Concen: 48.145 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053932.D
 Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	420054		
174	89.0	0.0	188.8	
176	85.1	0.0	182.6	





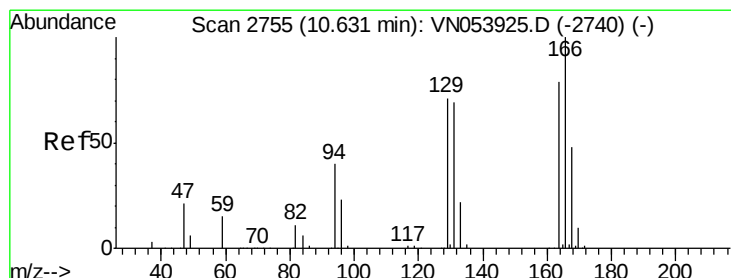
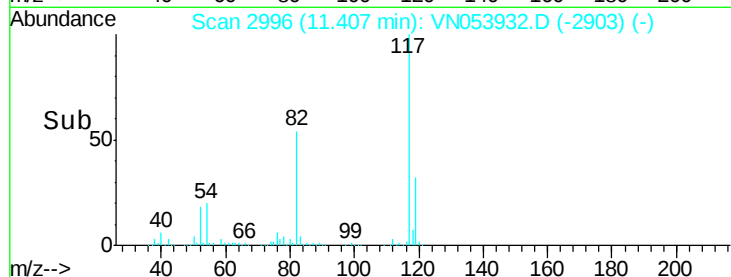
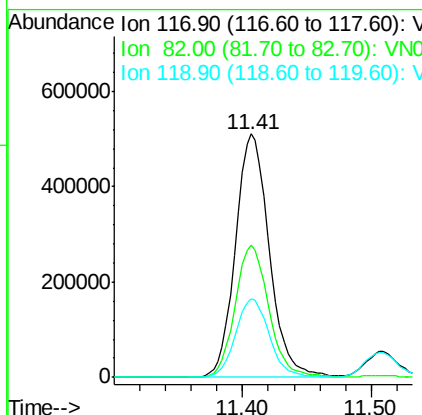
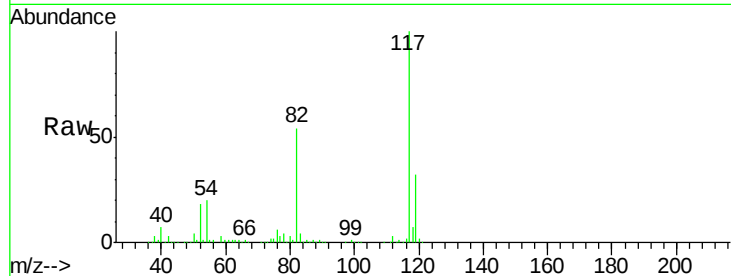
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.5	41.4	62.2
119	32.1	25.3	37.9

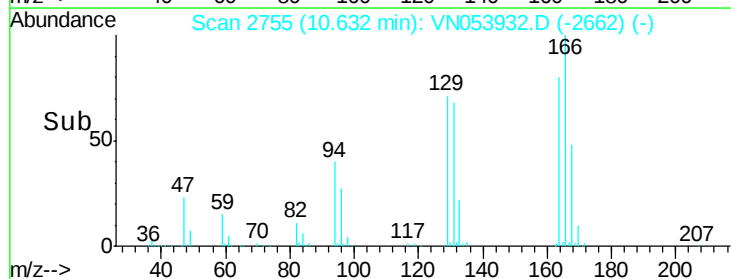
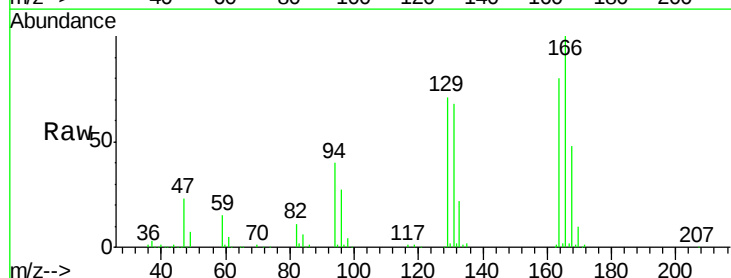
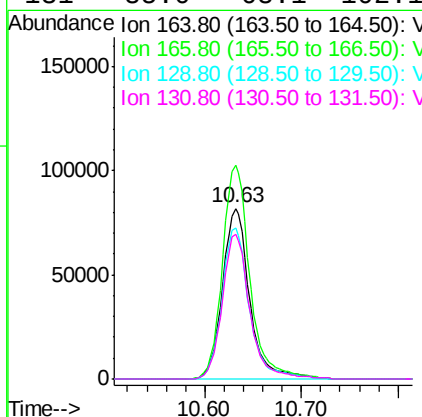
Manual Integrations
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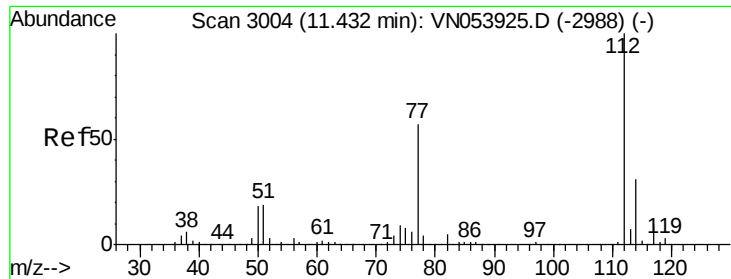
MMDadoda
2/28/2019 10:48:33 AM



#64
Tetrachloroethene
Concen: 20.327 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.2	102.6	153.8
129	88.6	69.4	104.0
131	85.0	68.1	102.1





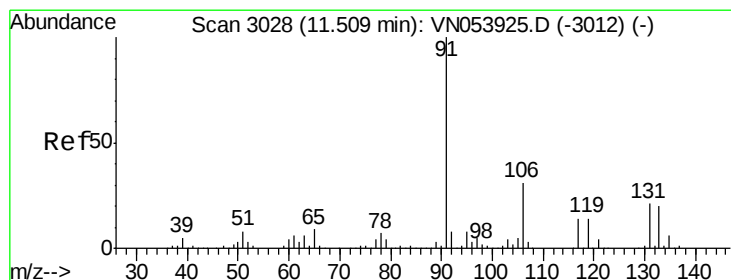
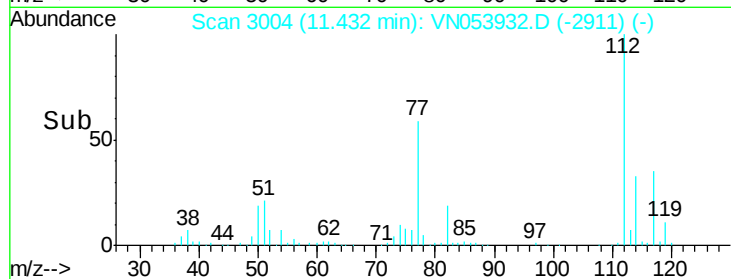
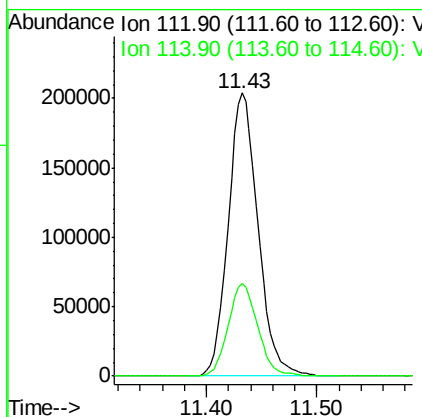
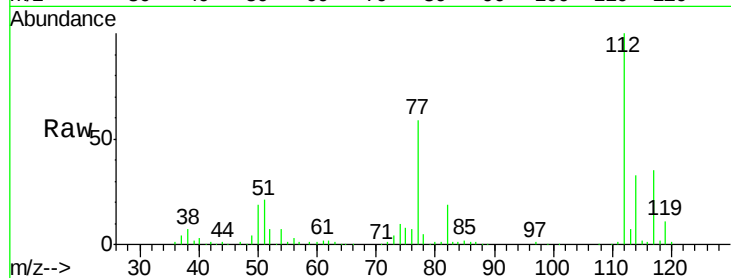
#65
Chlorobenzene
Concen: 19.425 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Tot Ion:112 Resp: 381841
Ion Ratio Lower Upper
112 100
114 32.6 25.7 38.5

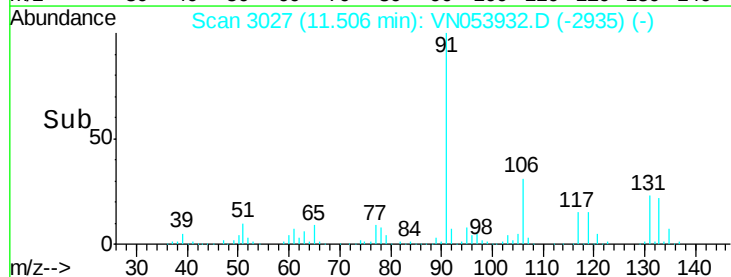
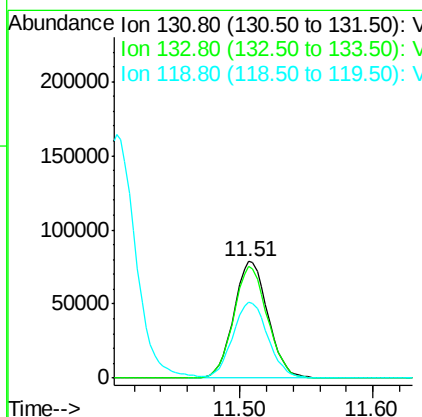
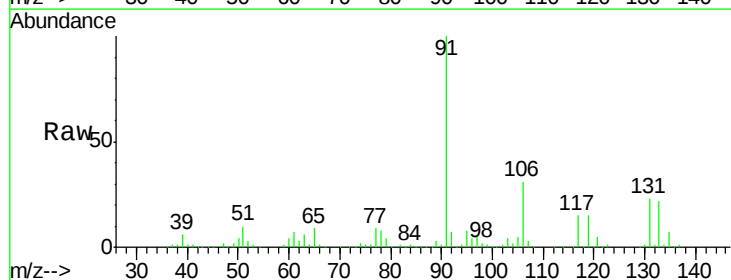
Manual Integrations
APPROVED

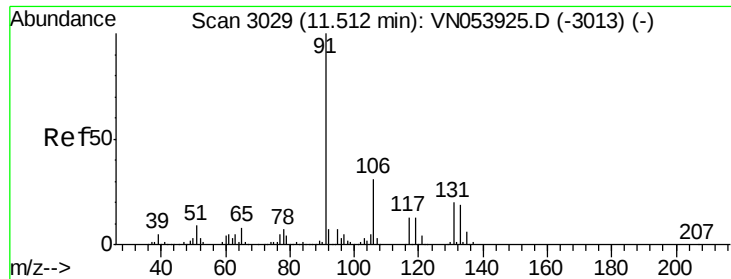
MMDadoda
2/28/2019 10:48:33 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.883 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion:131 Resp: 140866
Ion Ratio Lower Upper
131 100
133 95.3 47.7 143.1
119 67.1 33.1 99.3





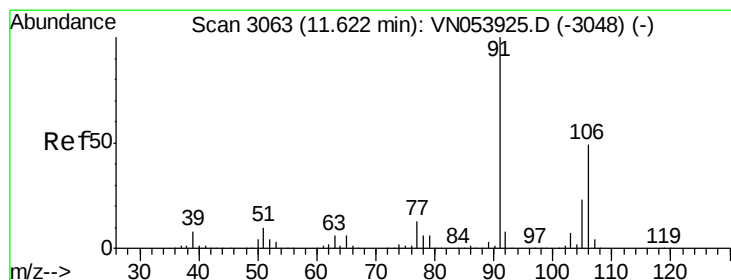
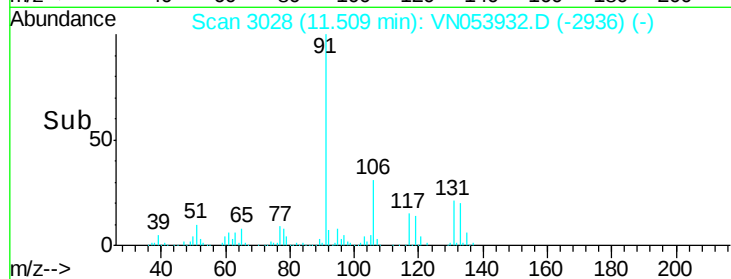
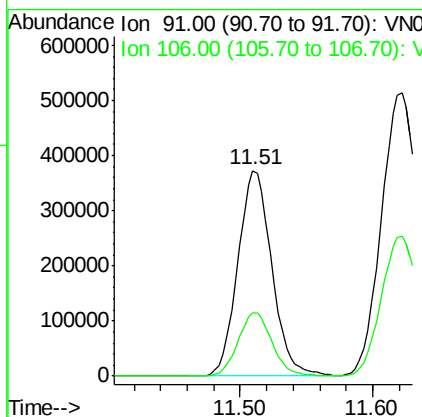
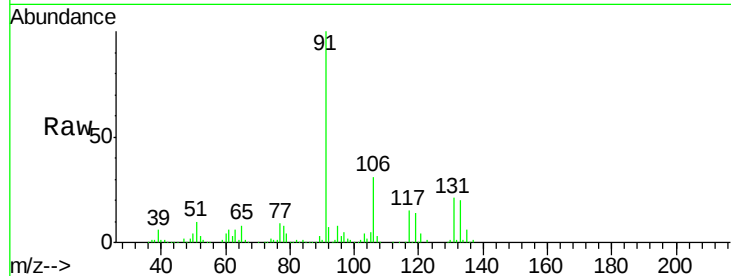
#67
Ethyl Benzene
Concen: 20.169 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Tot Ion: 91 Resp: 664669
Ion Ratio Lower Upper
91 100
106 30.9 25.2 37.8

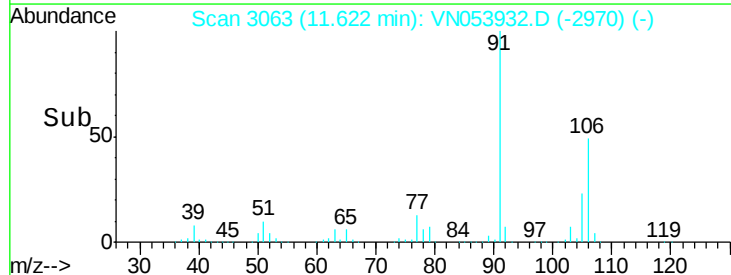
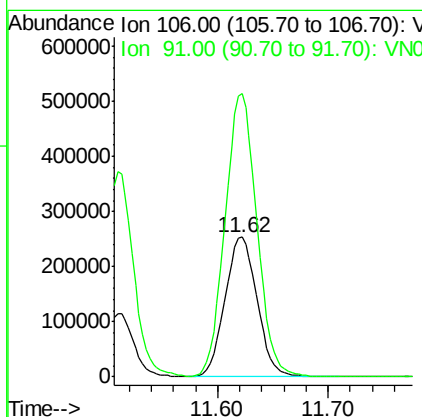
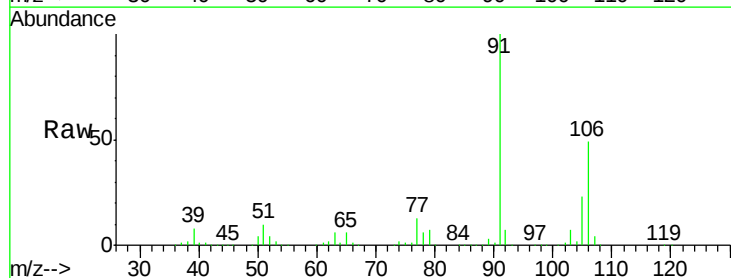
Manual Integrations
APPROVED

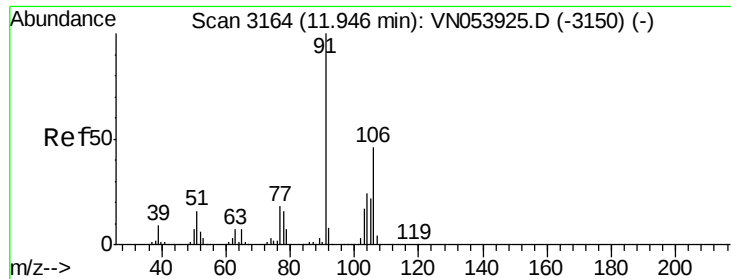
MMDadoda
2/28/2019 10:48:33 AM



#68
m/p-Xylenes
Concen: 41.145 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion: 106 Resp: 511752
Ion Ratio Lower Upper
106 100
91 200.3 158.9 238.3





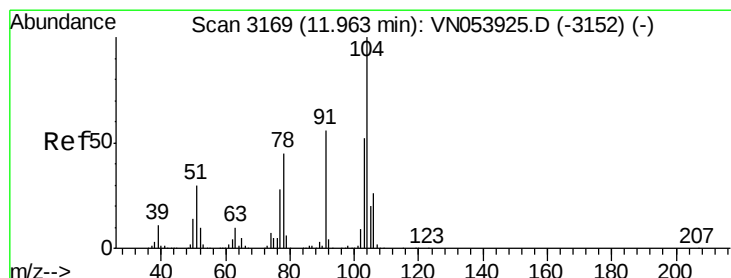
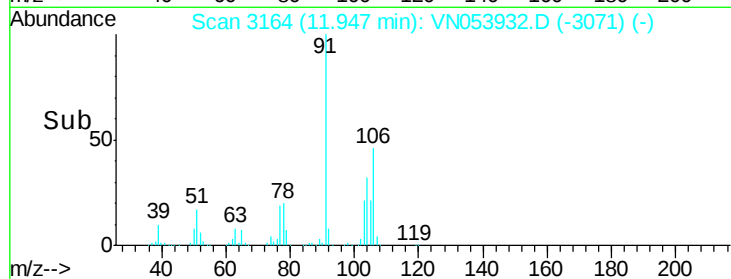
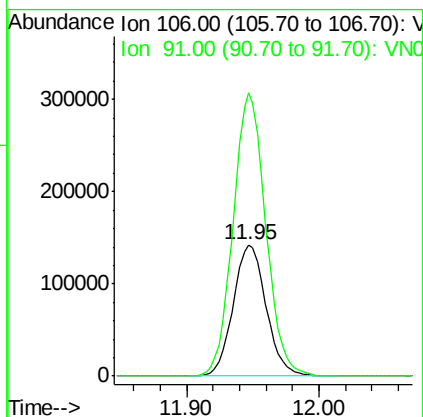
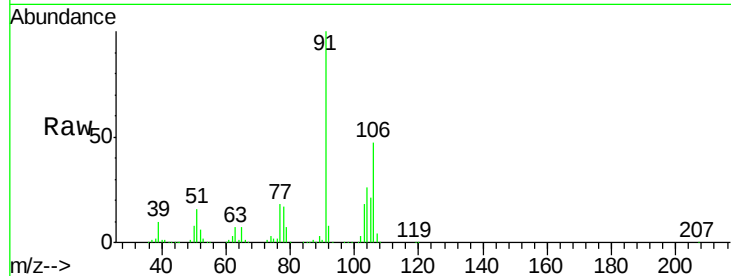
#69
o-Xylene
Concen: 20.090 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Tot Ion	Ratio	Resp	Lower	Upper
106	100	245518		
91	213.5	106.0	318.0	

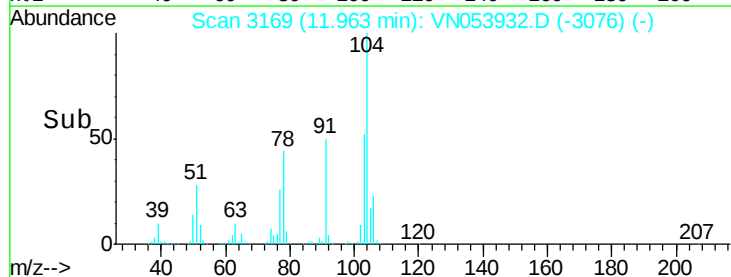
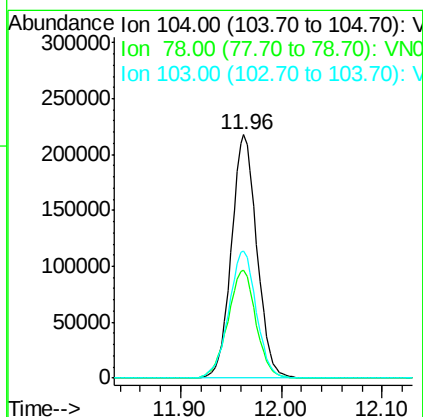
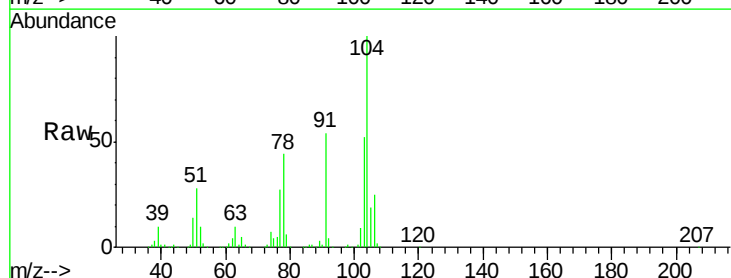
Manual Integrations
APPROVED

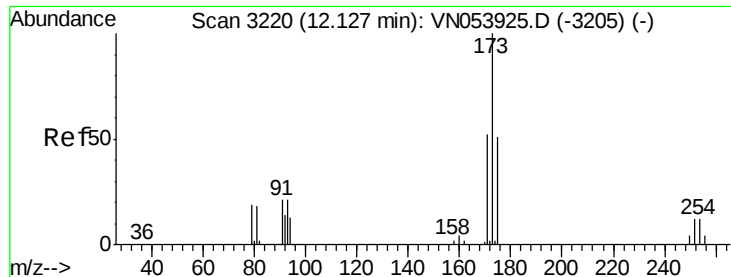
MMDadoda
2/28/2019 10:48:33 AM



#70
Styrene
Concen: 20.327 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	382102		
78	48.9	38.1	57.1	
103	56.4	44.6	67.0	





#71

Bromoform

Concen: 18.530 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

VN0225WBS01

Tot Ion:173 Resp: 91329

Ion Ratio Lower Upper

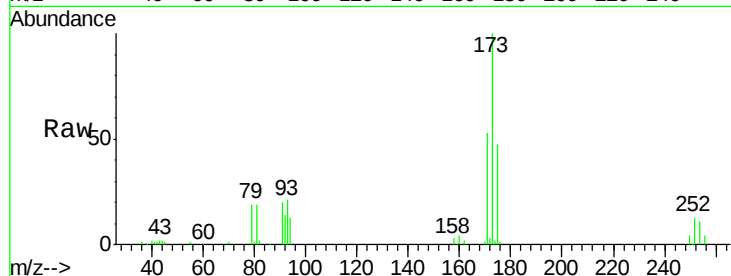
173 100

175 48.2 24.3 72.8

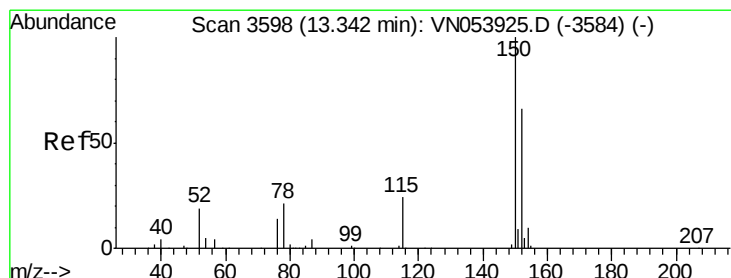
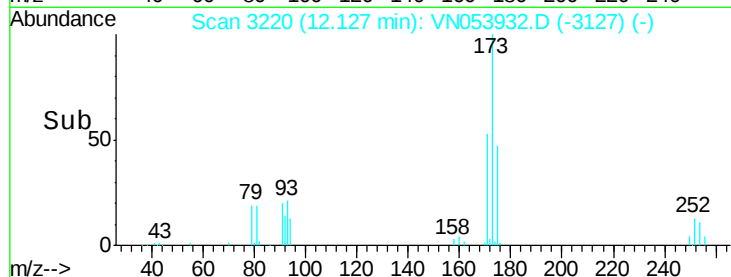
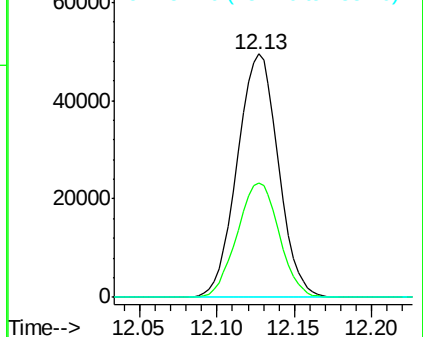
254 0.0 0.2 0.2#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

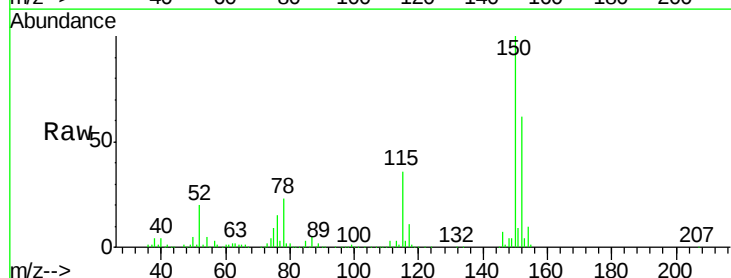
Tgt Ion:152 Resp: 408658

Ion Ratio Lower Upper

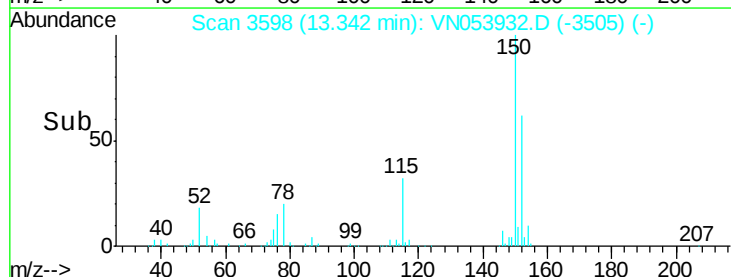
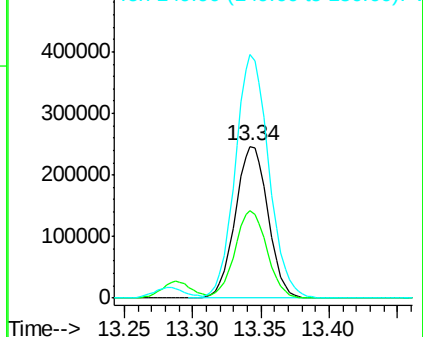
152 100

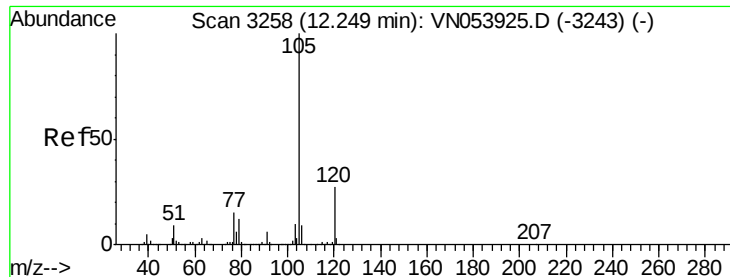
115 56.7 27.2 81.6

150 165.1 0.0 348.2



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





#73

Isopropylbenzene

Concen: 20.459 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

VN0225WBS01

Tot Ion: 105 Resp: 650833

Ion Ratio Lower Upper

105 100

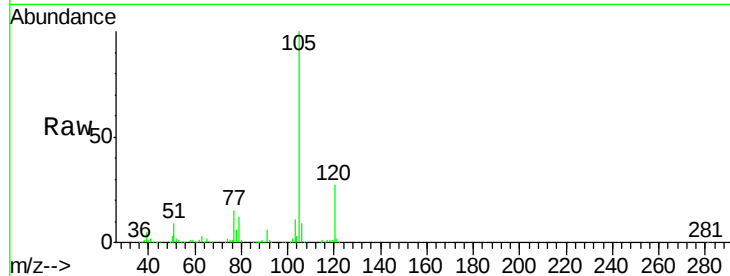
120 26.4 13.5 40.5

Manual Integrations

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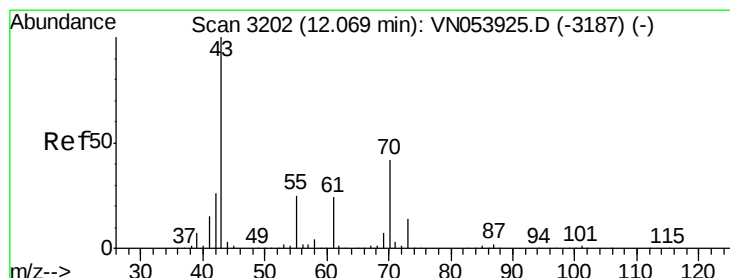
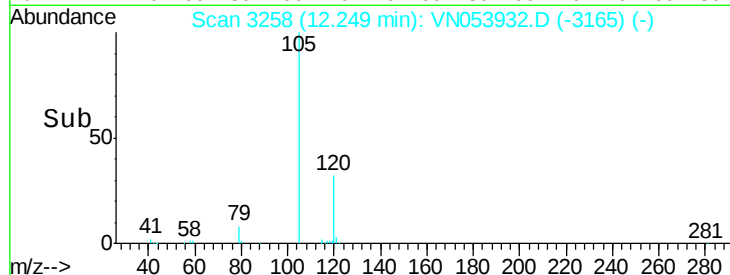
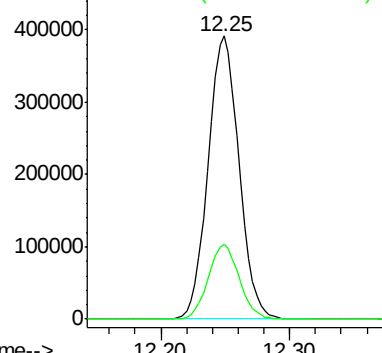
MMDadoda

2/28/2019 10:48:33 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.109 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Tgt Ion: 43 Resp: 159325

Ion Ratio Lower Upper

43 100

70 40.2 37.4 56.2

55 25.9 21.4 32.0

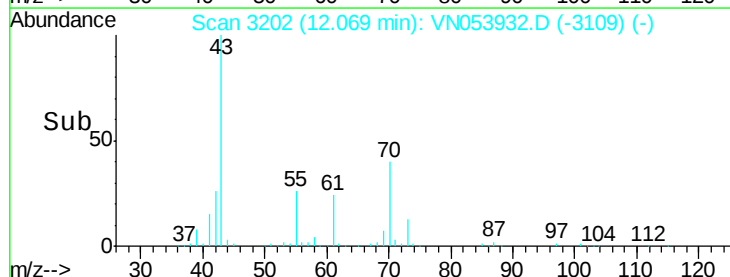
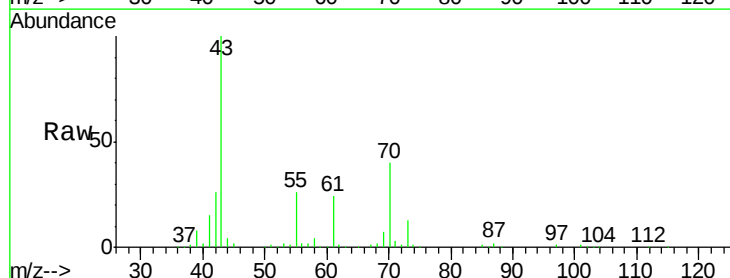
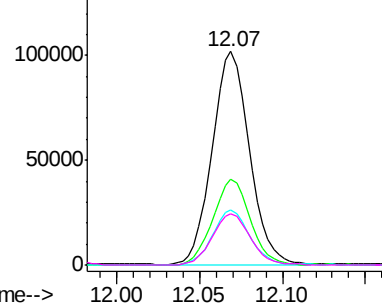
61 24.5 20.9 31.3

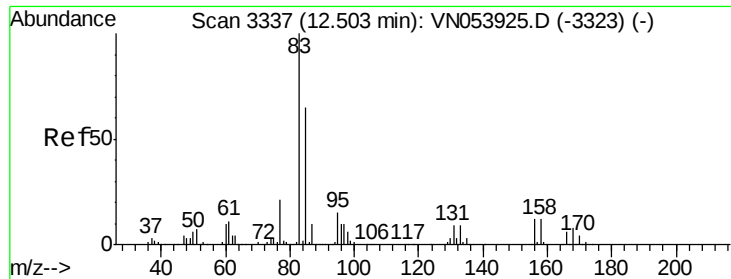
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.022 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

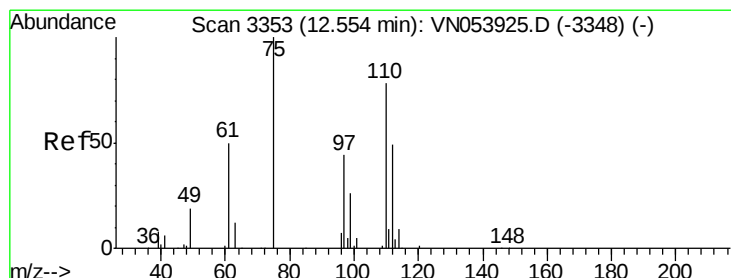
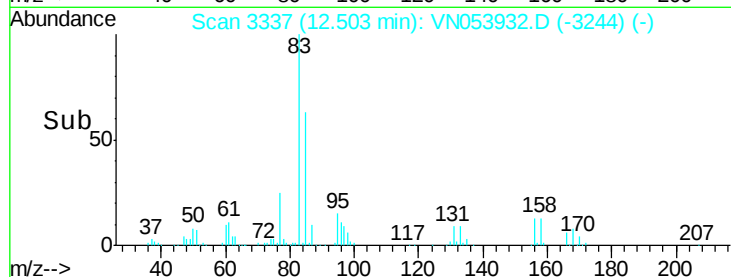
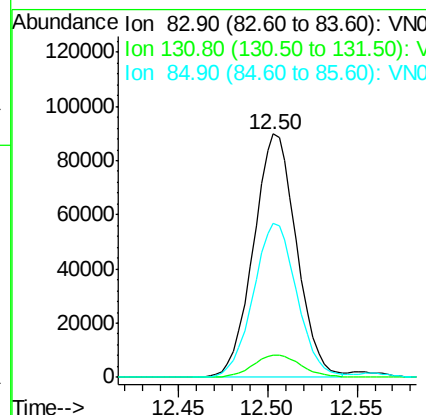
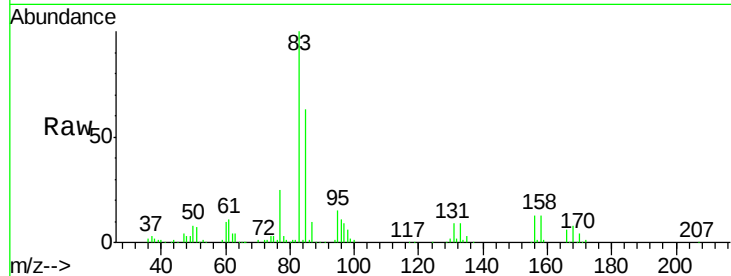
ClientSampleId :

VN0225WBS01

Tot Ion:	83	Resp:	151316
Ion Ratio	Lower	Upper	
83	100		
131	10.2	5.3	16.1
85	64.0	31.9	95.9

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#76

1,2,3-Trichloropropane

Concen: 18.739 ug/l m

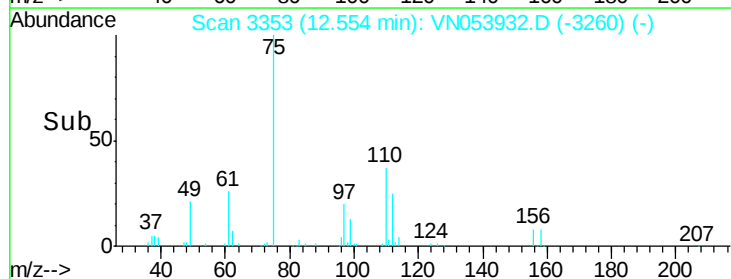
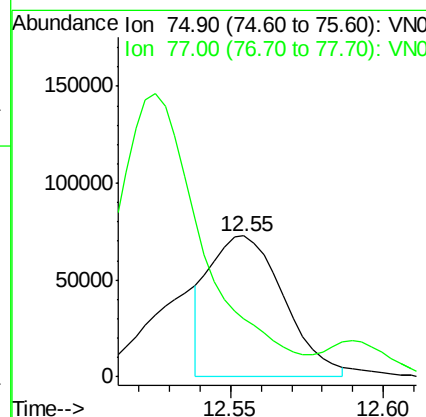
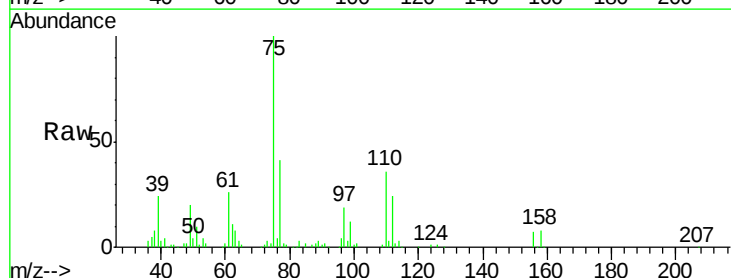
RT: 12.55 min Scan# 3353

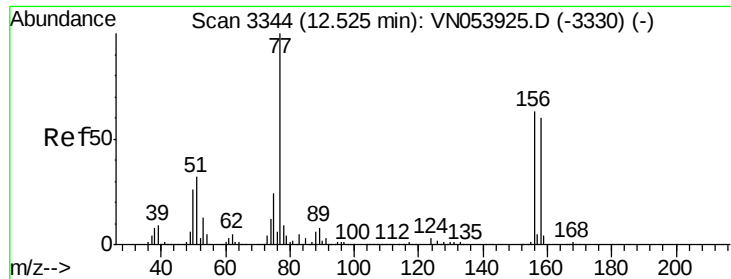
Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Tgt Ion:	75	Resp:	122847
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.498 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

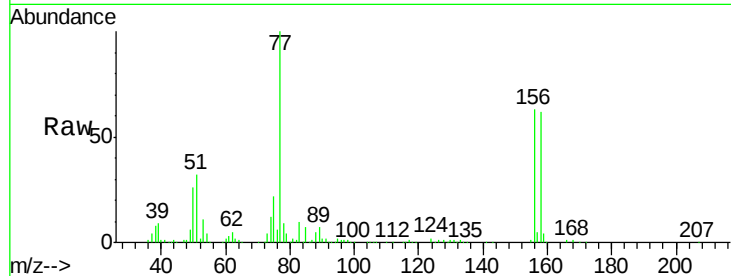
ClientSampleId :

VN0225WBS01

Tot Ion:	156	Resp:	157481
Ion Ratio	Lower	Upper	
156	100		
77	187.1	84.0	252.2
158	100.5	48.5	145.6

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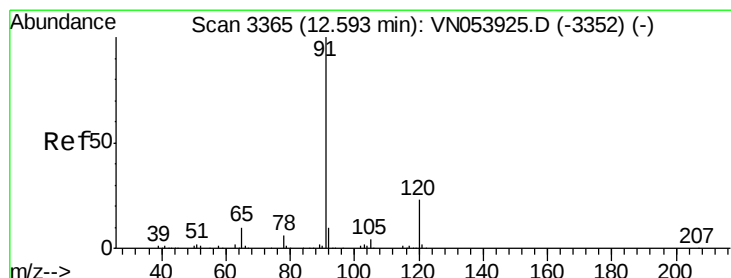
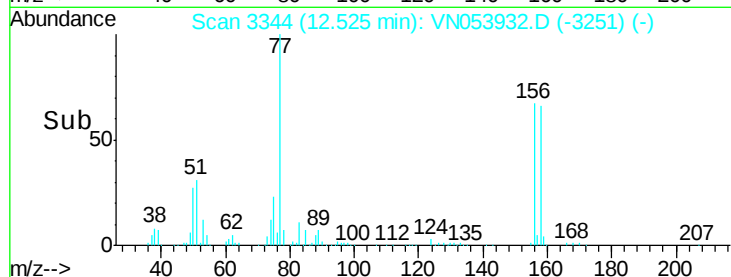
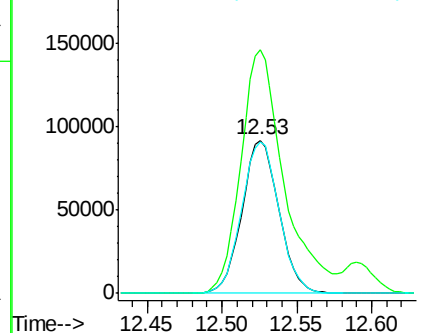
MMDadoda
2/28/2019 10:48:33 AM



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: 20.550 ug/l

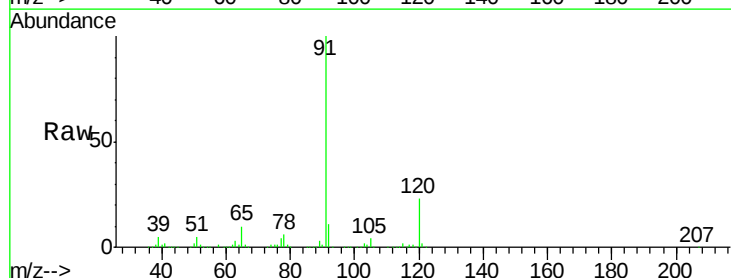
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN053932.D

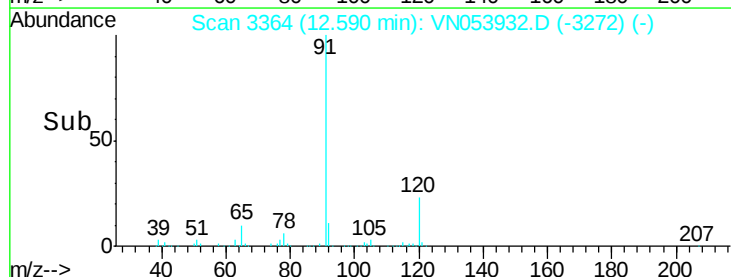
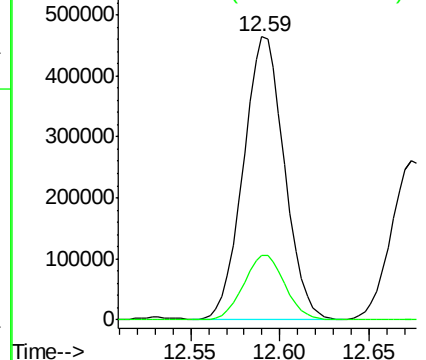
Acq: 25 Feb 2019 16:29

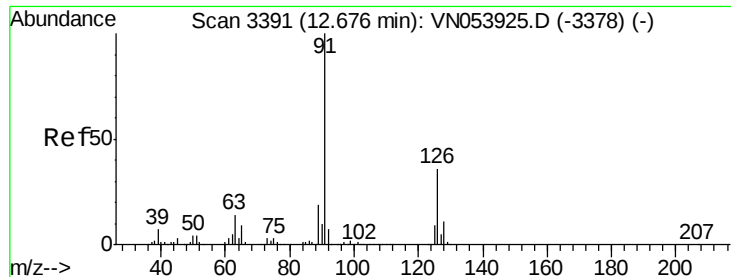
Tgt Ion:	91	Resp:	743455
Ion Ratio	Lower	Upper	
91	100		
120	23.0	11.9	35.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.305 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

VN0225WBS01

Tot Ion: 91 Resp: 441276

Ion Ratio Lower Upper

91 100

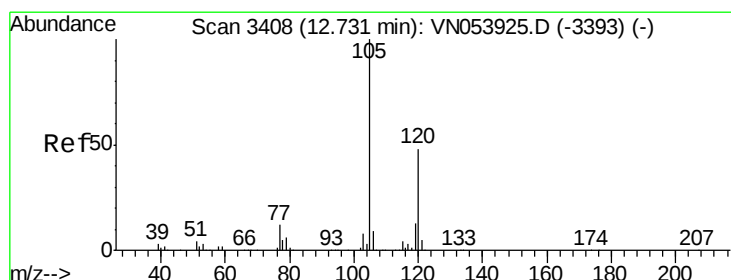
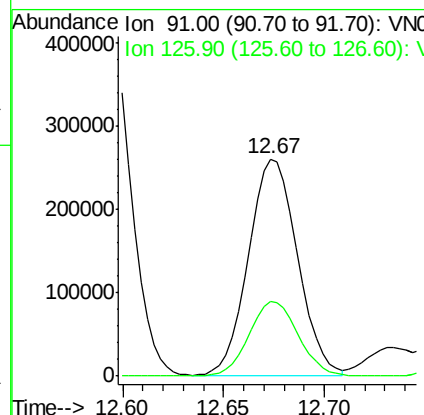
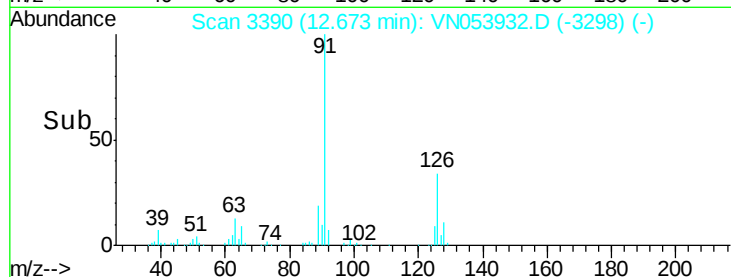
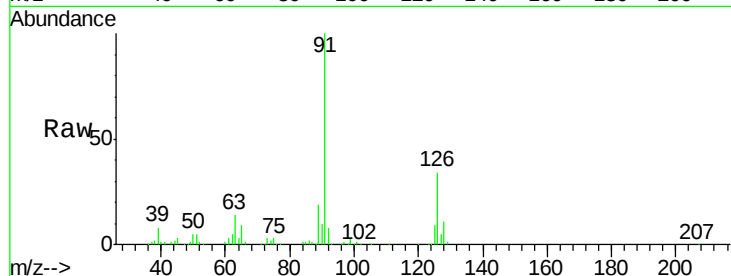
126 34.8 18.1 54.4

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 20.960 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053932.D

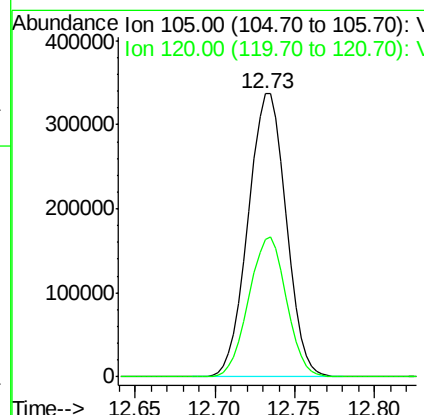
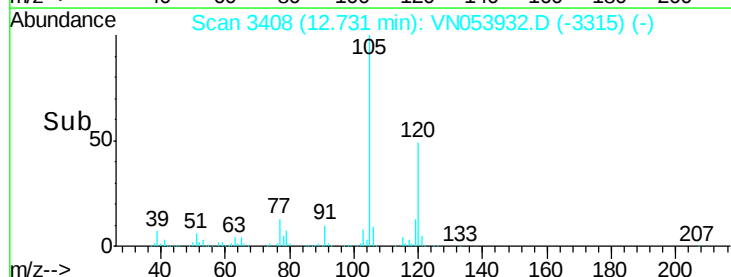
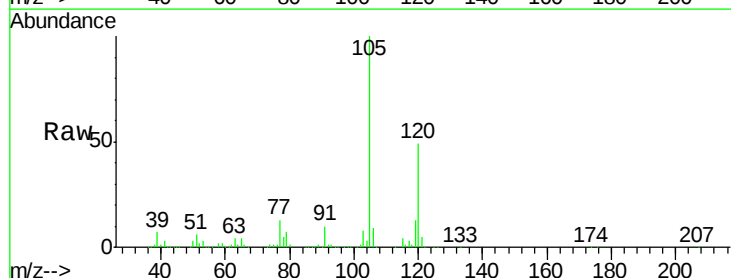
Acq: 25 Feb 2019 16:29

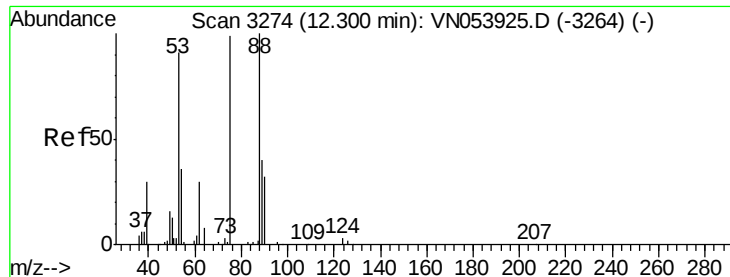
Tgt Ion: 105 Resp: 545859

Ion Ratio Lower Upper

105 100

120 49.0 25.1 75.2





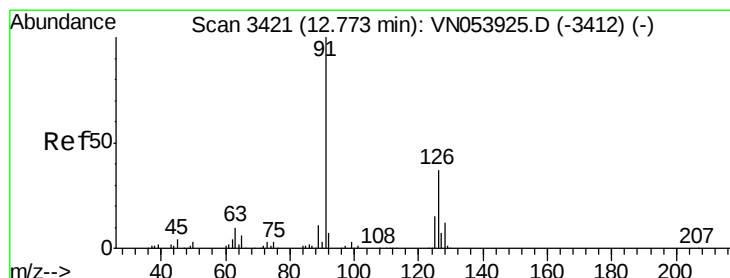
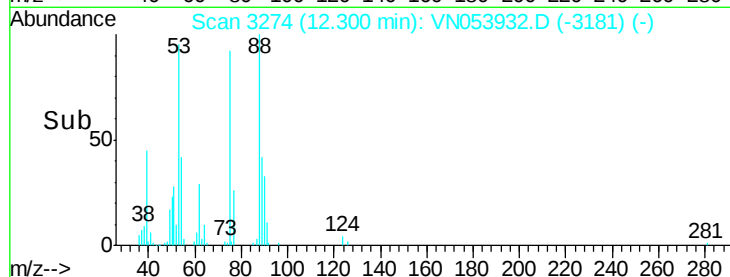
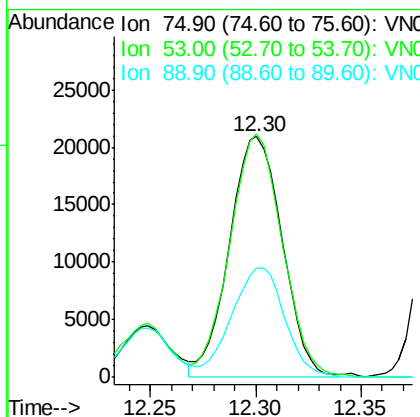
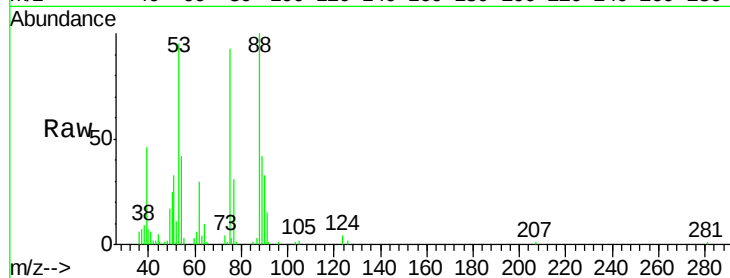
#81
trans-1,4-Dichloro-2-butene
Concen: 17.598 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampled :
VN0225WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	100.4	68.6	102.8
89	45.7	35.3	52.9

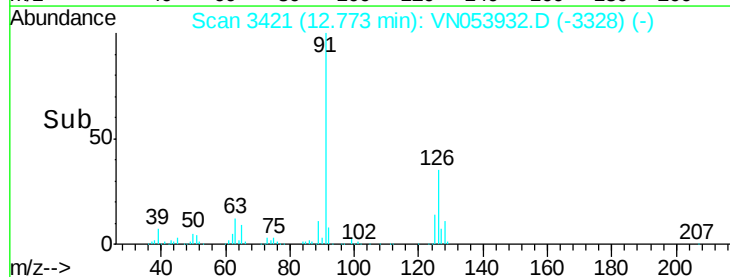
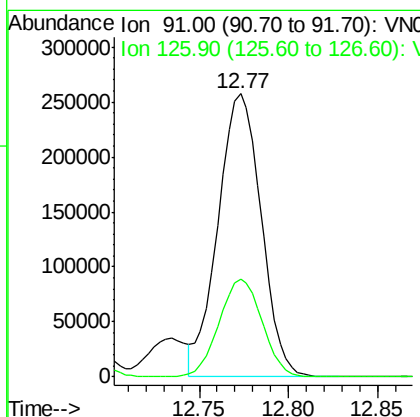
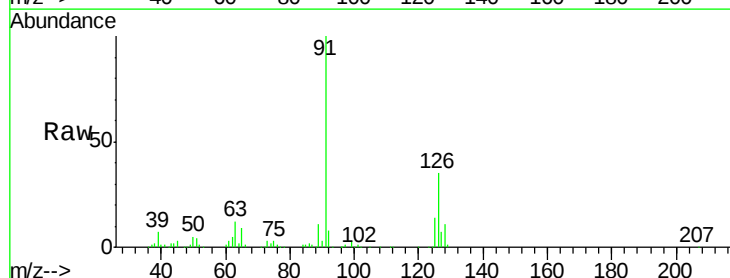
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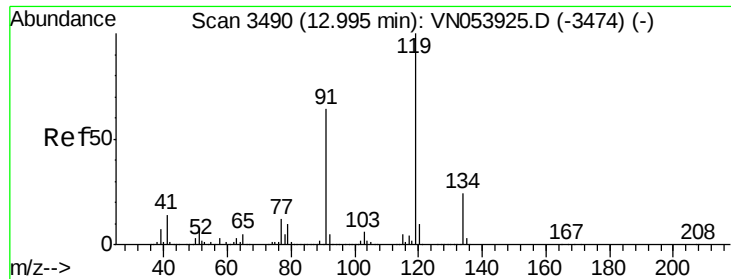
MMDadoda
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#82
4-Chlorotoluene
Concen: 20.104 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.6	18.0	54.0





#83

tert-Butylbenzene

Concen: 20.442 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

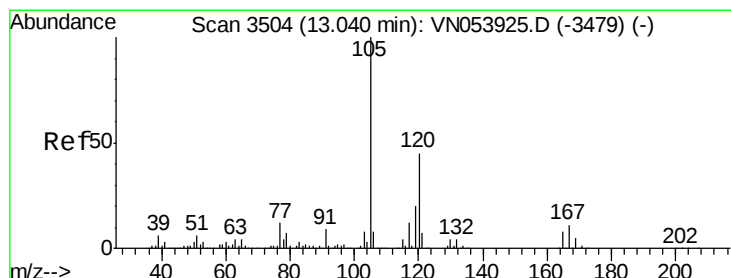
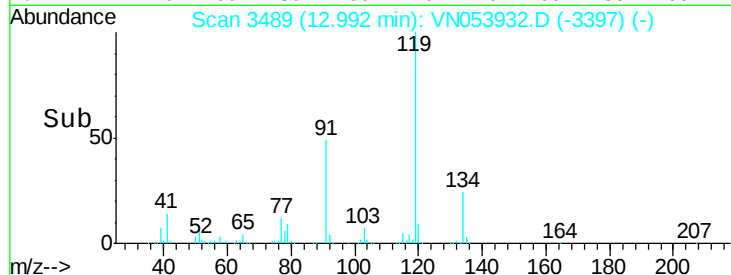
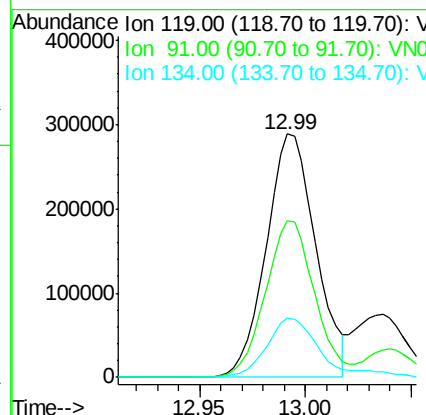
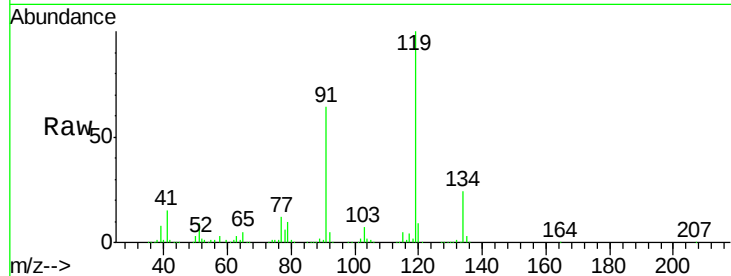
ClientSampleId :

VN0225WBS01

Tot Ion:	119	Resp:	470838
Ion Ratio	Lower	Upper	
119	100		
91	63.5	30.6	91.8
134	26.5	13.0	39.0

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#84

1,2,4-Trimethylbenzene

Concen: 21.129 ug/l

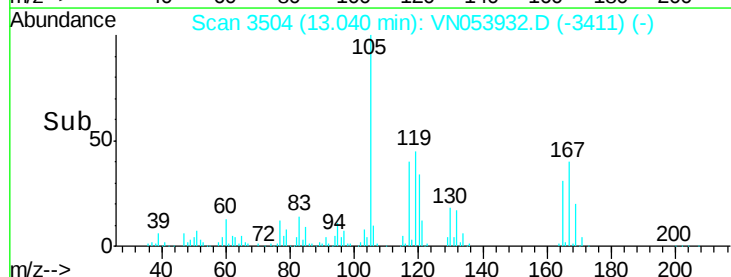
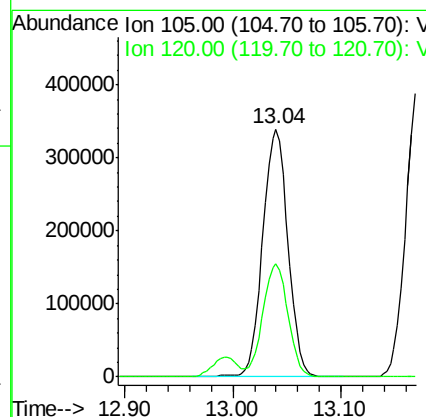
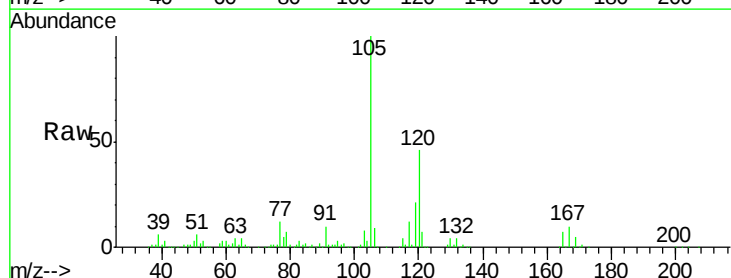
RT: 13.04 min Scan# 3504

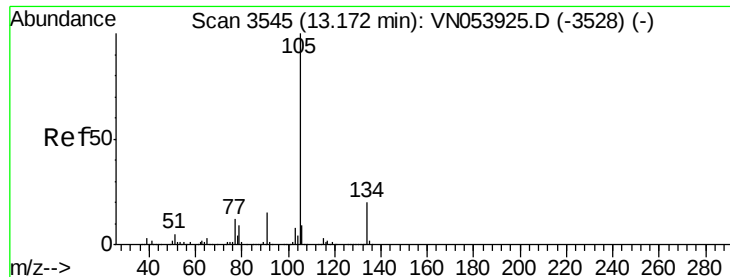
Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Tgt Ion:	105	Resp:	549338
Ion Ratio	Lower	Upper	
105	100		
120	45.6	23.2	69.5





#85

sec-Butylbenzene

Concen: 20.686 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

VN0225WBS01

Tot Ion:105 Resp: 650765

Ion Ratio Lower Upper

105 100

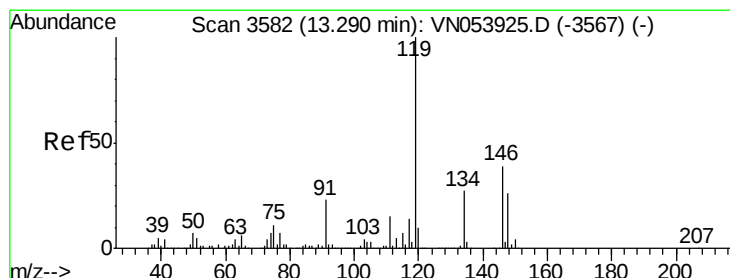
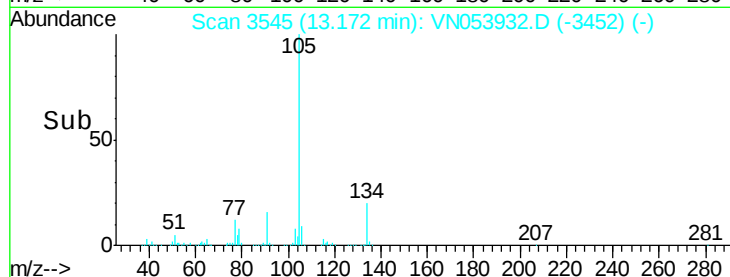
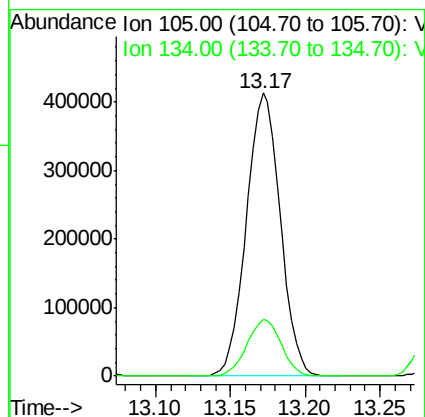
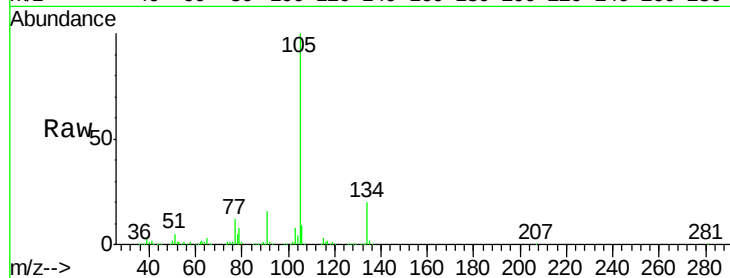
134 20.2 10.4 31.1

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#86

p-Isopropyltoluene

Concen: 20.892 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

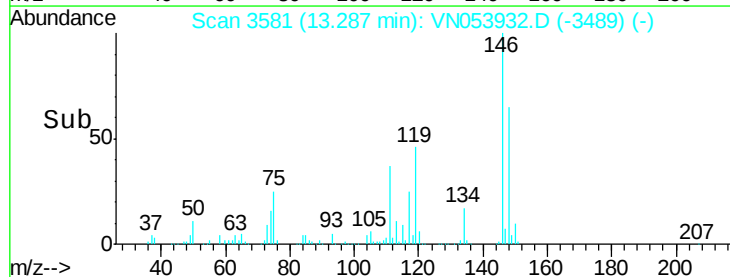
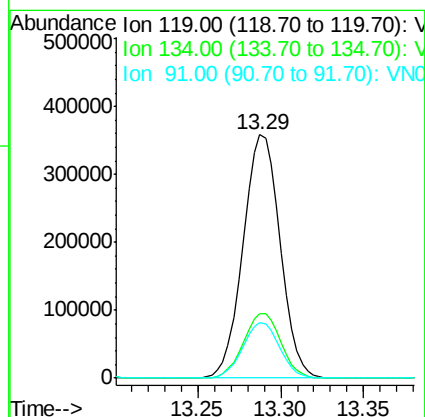
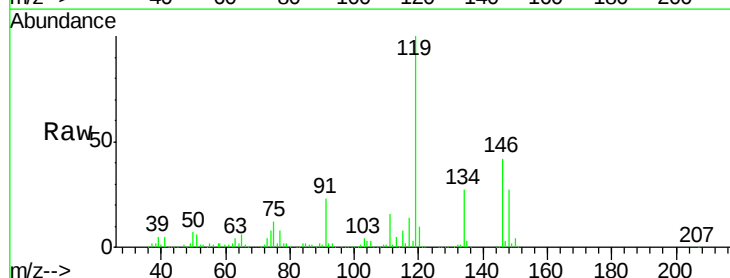
Tgt Ion:119 Resp: 555621

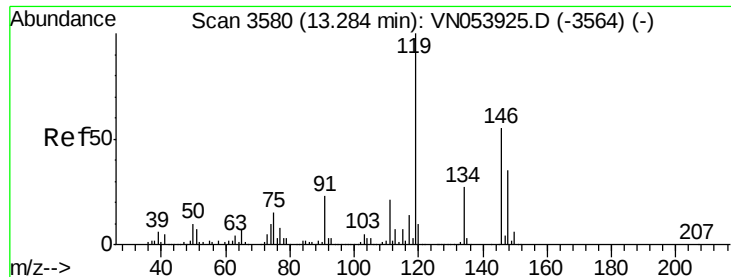
Ion Ratio Lower Upper

119 100

134 26.8 13.5 40.4

91 22.8 10.9 32.6





#87

1,3-Dichlorobenzene

Concen: 19.889 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

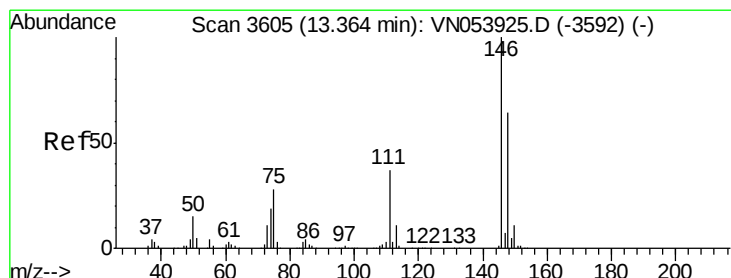
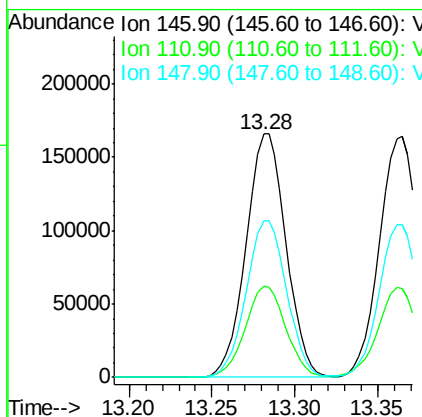
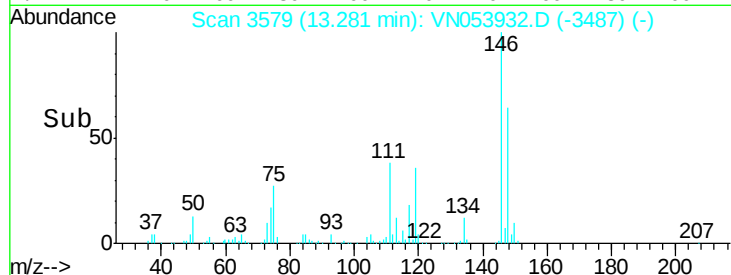
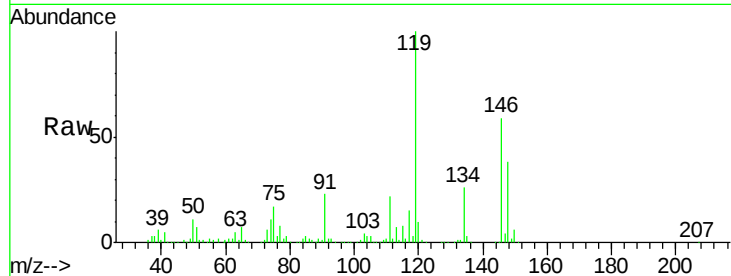
ClientSampleId :

VN0225WBS01

Tot Ion:	146	Resp:	277883
Ion Ratio	Lower	Upper	
146	100		
111	37.9	18.7	56.1
148	65.1	32.0	96.2

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 19.973 ug/l

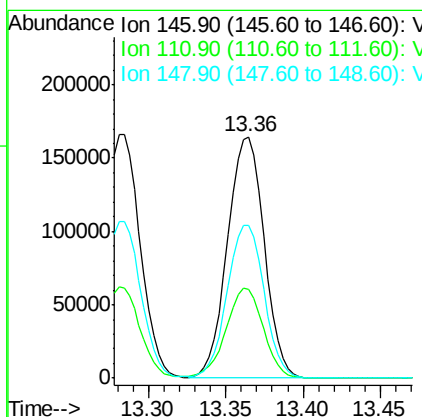
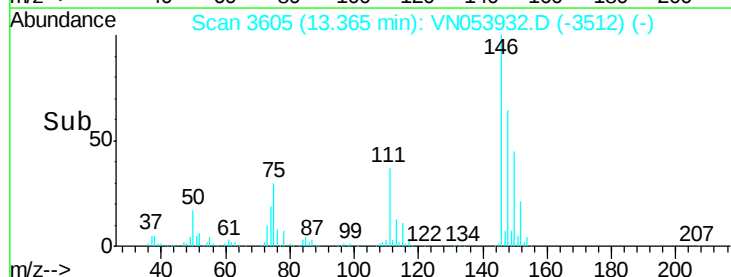
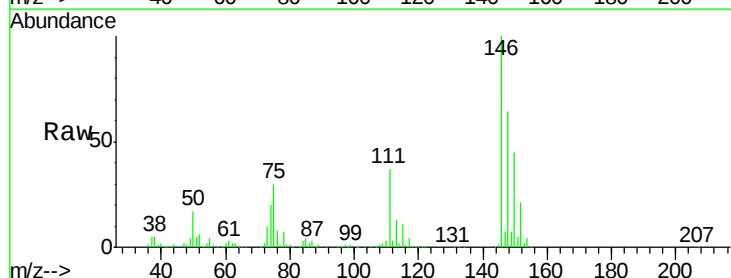
RT: 13.36 min Scan# 3605

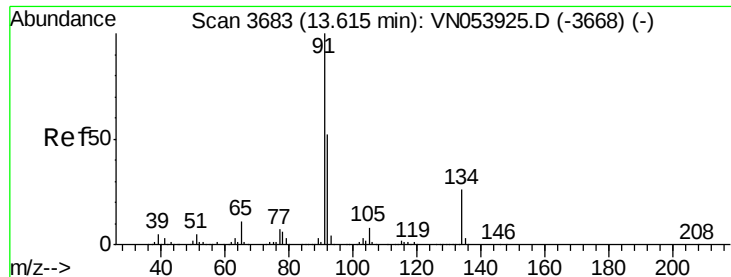
Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Tgt Ion:	146	Resp:	270734
Ion Ratio	Lower	Upper	
146	100		
111	38.0	18.0	54.0
148	64.1	32.1	96.5





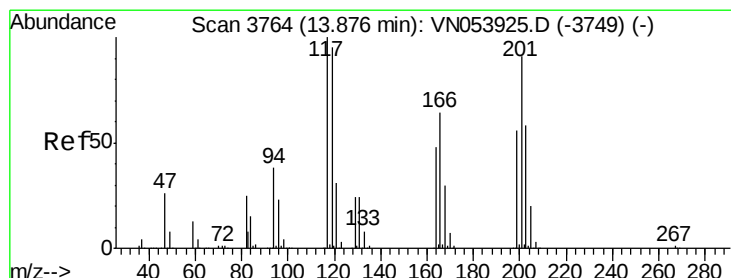
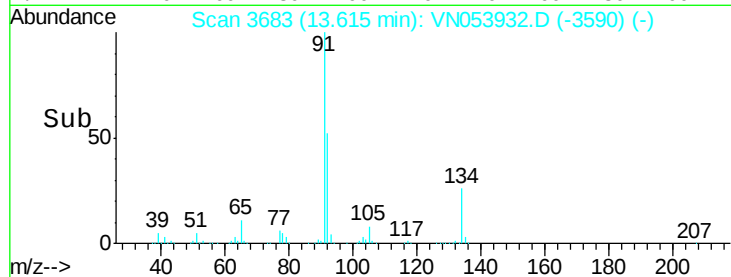
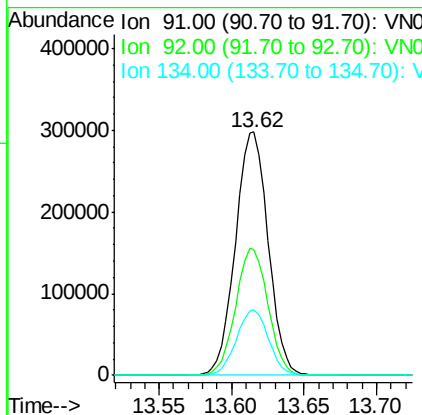
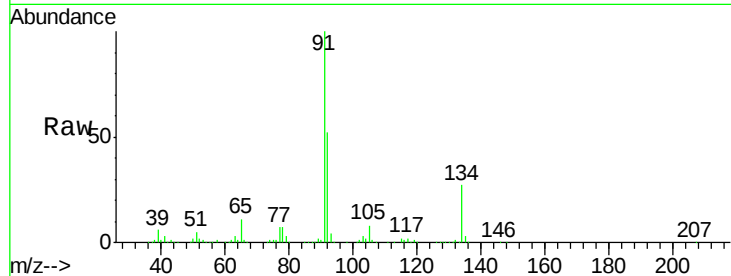
#89
n-Butylbenzene
Concen: 20.828 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.5	26.1	78.2
134	26.4	13.6	40.8

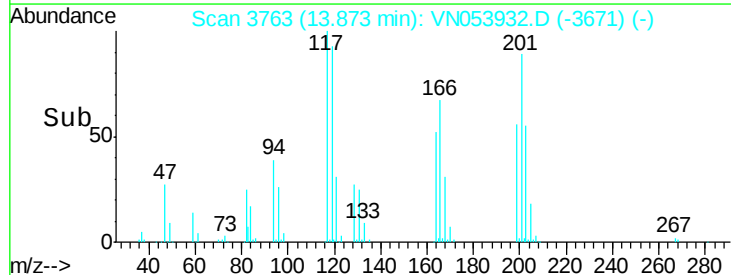
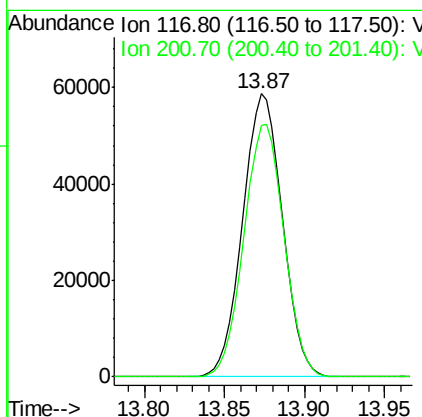
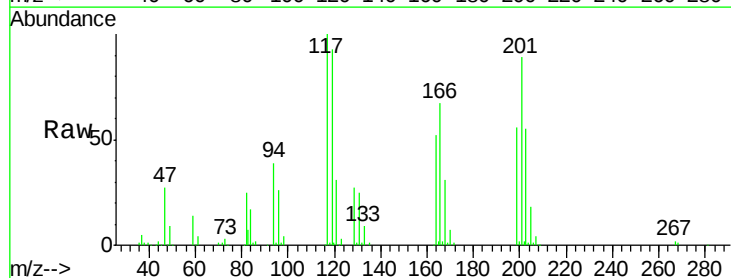
Manual Integrations
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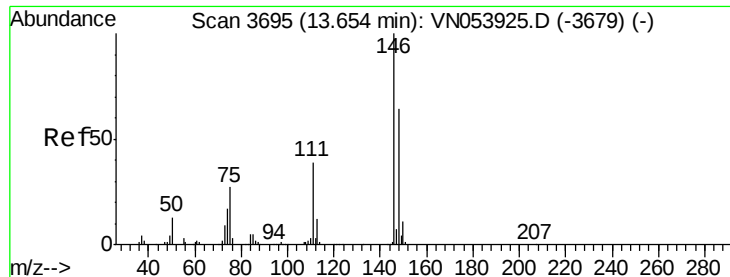
MMDadoda
2/28/2019 10:48:33 AM



#90
Hexachloroethane
Concen: 19.328 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN053932.D
Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.9	48.0	144.2





#91

1,2-Dichlorobenzene

Concen: 19.889 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

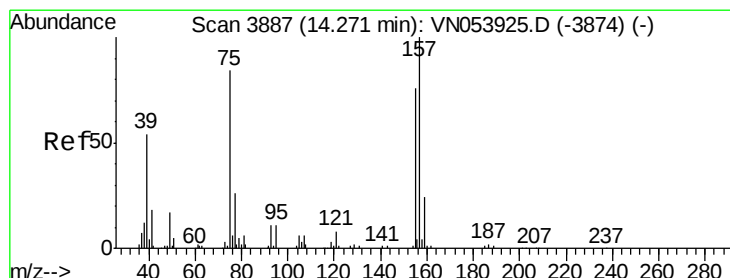
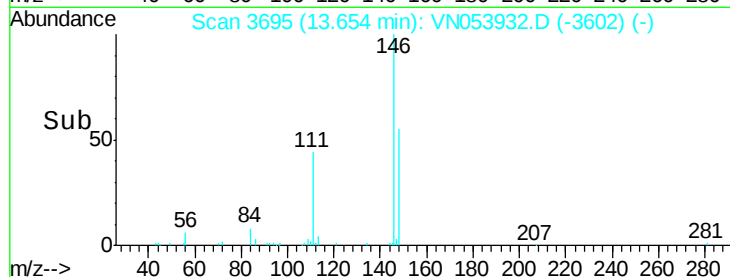
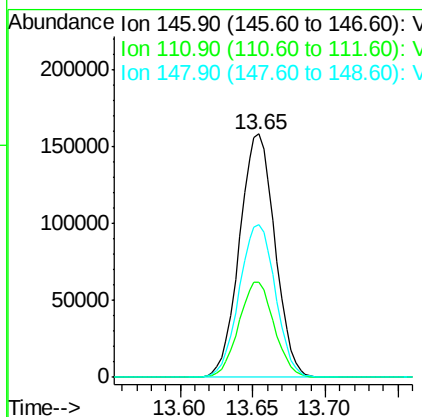
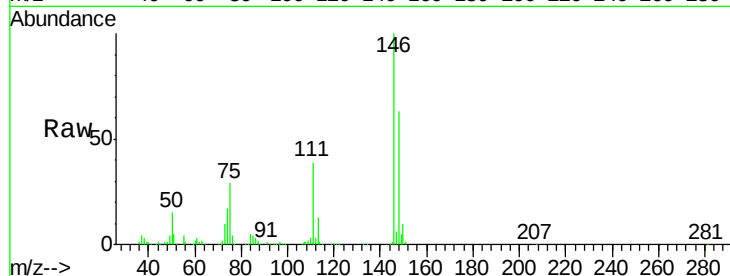
ClientSampleId :

VN0225WBS01

Tot Ion:	146	Resp:	268996
Ion Ratio		Lower	Upper
146	100		
111	39.1	19.1	57.5
148	64.1	32.1	96.5

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#92

1,2-Dibromo-3-Chloropropane

Concen: 18.005 ug/l

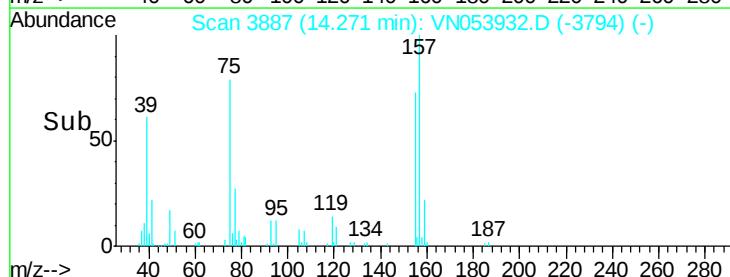
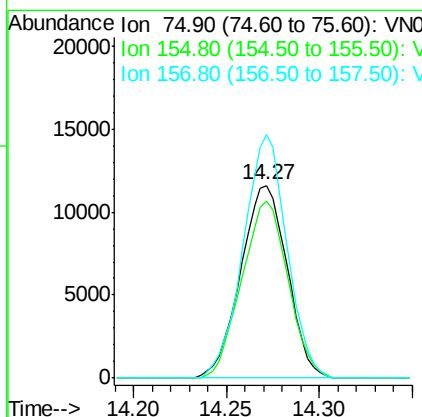
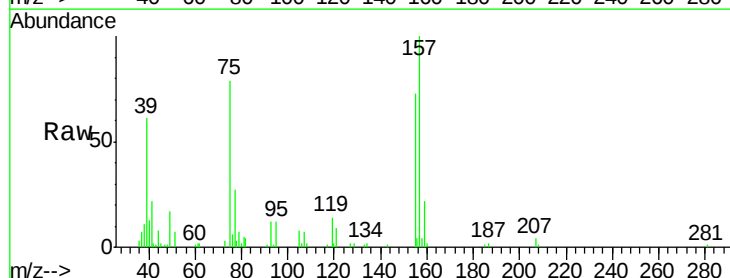
RT: 14.27 min Scan# 3887

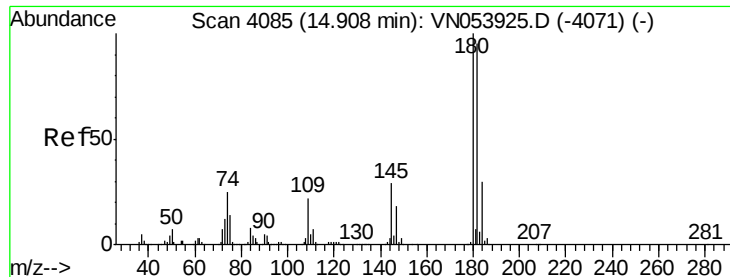
Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Tgt Ion:	75	Resp:	20241
Ion Ratio		Lower	Upper
75	100		
155	91.2	49.5	148.5
157	118.3	64.8	194.6





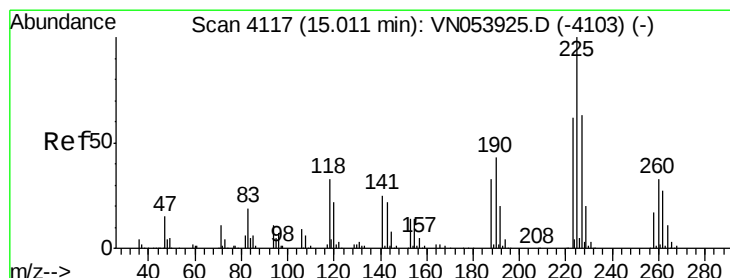
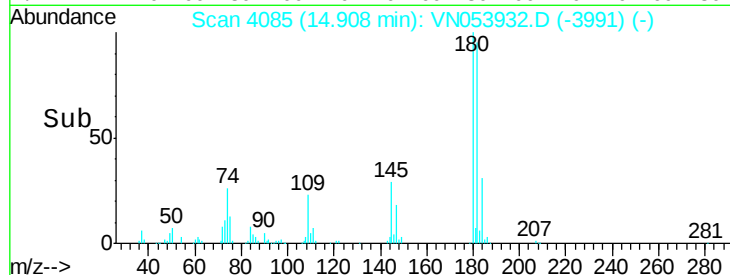
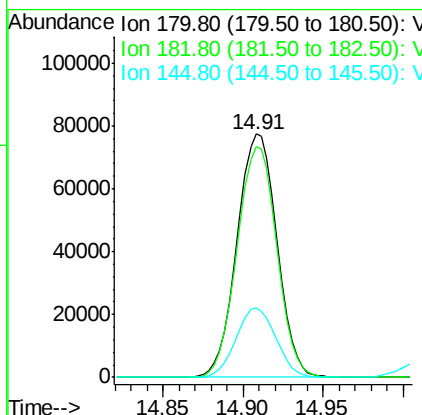
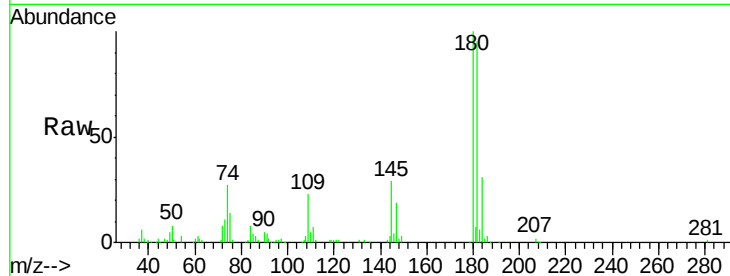
#93
 1,2,4-Trichlorobenzene
 Concen: 18.965 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053932.D
 Acq: 25 Feb 2019 16:29

Instrument :
 MSVOA_N
 ClientSampled :
 VN0225WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	131609		
182	94.5	48.6	145.9	
145	28.3	13.8	41.3	

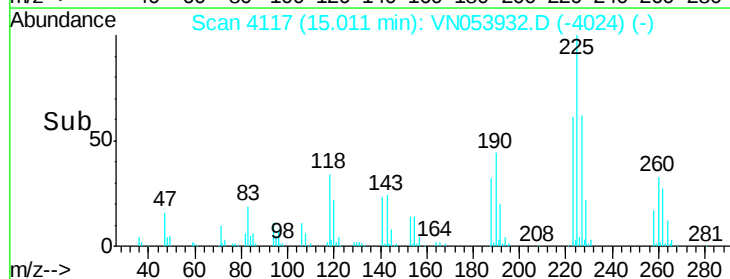
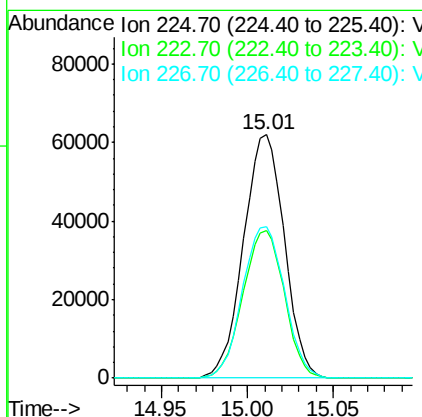
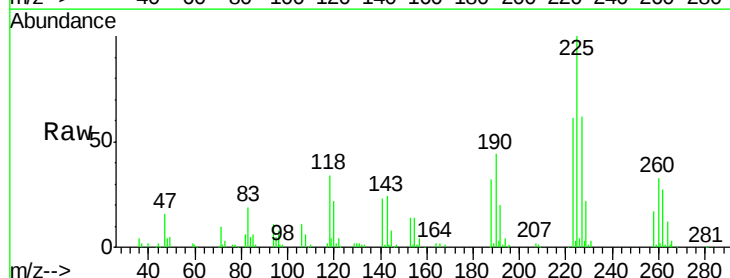
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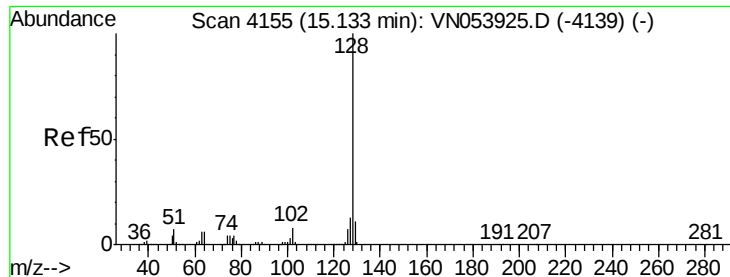
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#94
 Hexachlorobutadiene
 Concen: 20.981 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053932.D
 Acq: 25 Feb 2019 16:29

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	102502		
223	61.2	30.9	92.5	
227	64.0	32.5	97.4	





#95

Naphthalene

Concen: 17.440 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Instrument :

MSVOA_N

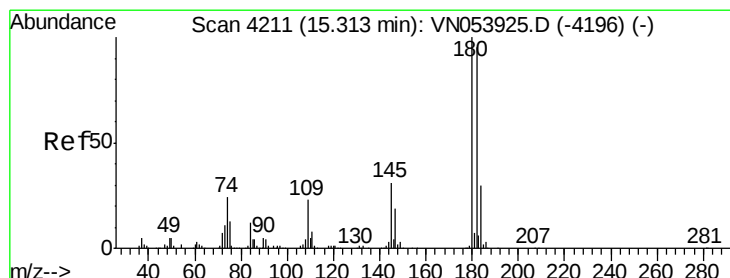
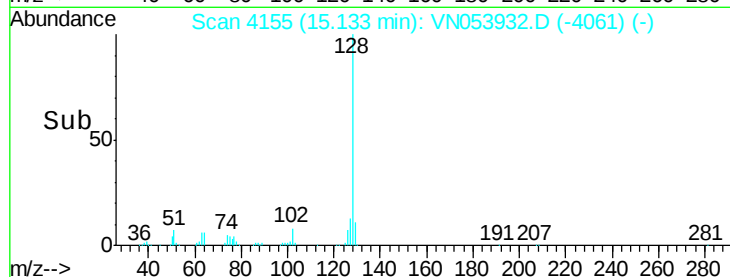
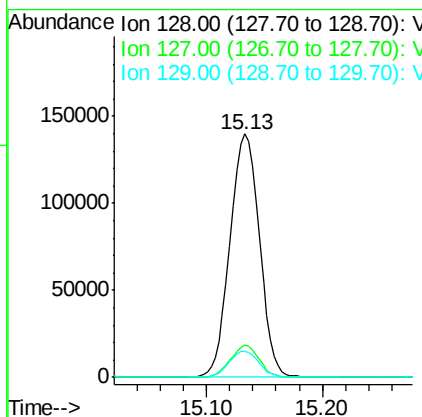
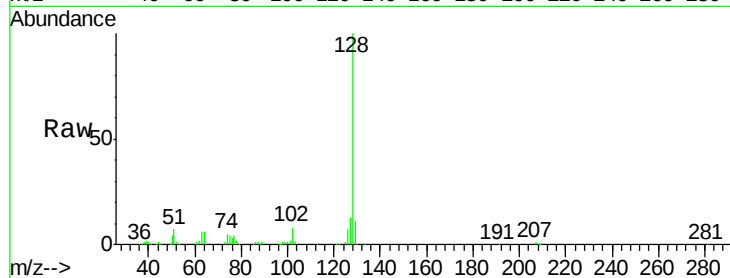
ClientSampleId :

VN0225WBS01

Tot Ion:	128	Resp:	246032
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.2	15.2
129	10.8	8.6	12.8

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#96

1,2,3-Trichlorobenzene

Concen: 19.033 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053932.D

Acq: 25 Feb 2019 16:29

Tgt Ion:	180	Resp:	129959
Ion Ratio	Lower	Upper	
180	100		
182	95.1	47.3	141.8
145	29.4	14.4	43.0

