

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080119\
 Data File : VN057045.D
 Acq On : 1 Aug 2019 18:17
 Operator : JC/SP
 Sample : K4097-07MS
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-GW-498-500MS

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 11:18:06 AM

Quant Time: Aug 02 06:49:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	440742	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	660287	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	586879	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	248058	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	255220	56.57	ug/l	0.00
Spiked Amount			Recovery	=	113.14%	
35) Dibromofluoromethane	7.58	113	237467	56.18	ug/l	0.00
Spiked Amount			Recovery	=	112.36%	
50) Toluene-d8	10.08	98	882429	54.74	ug/l	0.00
Spiked Amount			Recovery	=	109.48%	
62) 4-Bromofluorobenzene	12.40	95	288621	55.00	ug/l	0.00
Spiked Amount			Recovery	=	110.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	233160	52.329	ug/l	99
3) Chloromethane	2.05	50	258923	48.529	ug/l	99
4) Vinyl Chloride	2.18	62	240641	48.101	ug/l	98
5) Bromomethane	2.54	94	142006	45.659	ug/l	98
6) Chloroethane	2.69	64	132820	48.161	ug/l	100
7) Trichlorofluoromethane	3.00	101	341253	52.109	ug/l	98
8) Diethyl Ether	3.40	74	126866	51.762	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	200272	49.326	ug/l	99
10) Methyl Iodide	3.94	142	289777	53.411	ug/l	99
11) Tert butyl alcohol	4.77	59	159000	260.730	ug/l #	87
12) 1,1-Dichloroethene	3.72	96	196981	50.846	ug/l	98
13) Acrolein	3.59	56	88946	284.679	ug/l	98
14) Allyl chloride	4.31	41	309951	49.184	ug/l	98
15) Acrylonitrile	4.97	53	487108	272.379	ug/l	99
16) Acetone	3.81	43	367071	224.582	ug/l	99
17) Carbon Disulfide	4.04	76	476825	46.319	ug/l	100
18) Methyl Acetate	4.31	43	246833	47.340	ug/l	100
19) Methyl tert-butyl Ether	5.03	73	622881	53.922	ug/l	99
20) Methylene Chloride	4.54	84	229578	48.762	ug/l	97
21) trans-1,2-Dichloroethene	5.03	96	207494	50.431	ug/l	99
22) Diisopropyl ether	5.94	45	666869	51.360	ug/l	99
23) Vinyl Acetate	5.88	43	2187296	243.134	ug/l	99
24) 1,1-Dichloroethane	5.83	63	395188	51.586	ug/l	99
25) 2-Butanone	6.82	43	584698	252.279	ug/l	99
26) 2,2-Dichloropropane	6.81	77	258625	44.399	ug/l	98
27) cis-1,2-Dichloroethene	6.82	96	247949	50.952	ug/l	98
28) Bromochloromethane	7.18	49	177807	49.378	ug/l	98
29) Tetrahydrofuran	7.20	42	400237	264.680	ug/l	98
30) Chloroform	7.36	83	393530	50.242	ug/l	99
31) Cyclohexane	7.64	56	338749	45.695	ug/l	98
32) 1,1,1-Trichloroethane	7.56	97	332615	53.222	ug/l	98
36) 1,1-Dichloropropene	7.78	75	283783	48.843	ug/l	100
37) Ethyl Acetate	6.91	43	229242	49.264	ug/l	98
38) Carbon Tetrachloride	7.76	117	288250	52.449	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080119\
 Data File : VN057045.D
 Acq On : 1 Aug 2019 18:17
 Operator : JC/SP
 Sample : K4097-07MS
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-GW-498-500MS

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 11:18:06 AM

Quant Time: Aug 02 06:49:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	344241	46.358	ug/l	98
40) Benzene	8.03	78	897283	50.141	ug/l	98
41) Methacrylonitrile	7.16	41	104046	48.367	ug/l	94
42) 1,2-Dichloroethane	8.11	62	289180	51.561	ug/l	99
43) Isopropyl Acetate	8.16	43	384571	50.002	ug/l	99
44) Trichloroethene	8.82	130	248844	50.474	ug/l	99
45) 1,2-Dichloropropane	9.11	63	237724	49.665	ug/l	99
46) Dibromomethane	9.20	93	154520	53.529	ug/l	99
47) Bromodichloromethane	9.39	83	296838	52.302	ug/l	98
48) Methyl methacrylate	9.19	41	195575	52.669	ug/l	97
49) 1,4-Dioxane	9.19	88	83139	1086.459	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	1201726	262.970	ug/l	100
52) Toluene	10.15	92	550158	51.170	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	301279	51.155	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	342936	50.080	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	219448	50.895	ug/l	98
56) Ethyl methacrylate	10.42	69	318963	49.020	ug/l	98
57) 1,3-Dichloropropane	10.70	76	368226	51.501	ug/l	99
59) 2-Hexanone	10.74	43	847248	240.843	ug/l	100
60) Dibromochloromethane	10.90	129	239332	54.179	ug/l	97
61) 1,2-Dibromoethane	11.00	107	231019	54.903	ug/l	98
64) Tetrachloroethene	10.63	164	256912	50.799	ug/l	98
65) Chlorobenzene	11.43	112	600269	50.184	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.50	131	233847	51.942	ug/l	99
67) Ethyl Benzene	11.51	91	1039806	50.298	ug/l	99
68) m/p-Xylenes	11.62	106	785673	102.978	ug/l	99
69) o-Xylene	11.94	106	384315	51.487	ug/l	99
70) Styrene	11.96	104	634850	48.189	ug/l	99
71) Bromoform	12.12	173	170418	54.218	ug/l	99
73) Isopropylbenzene	12.25	105	1022468	47.694	ug/l	99
74) N-amyl acetate	12.07	43	295059	47.400	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	286949	53.114	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	257345m	51.084	ug/l	
77) Bromobenzene	12.52	156	271837	48.584	ug/l	98
78) n-propylbenzene	12.59	91	1091687	47.692	ug/l	99
79) 2-Chlorotoluene	12.67	91	661780	46.952	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	852260	48.437	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	78652	50.164	ug/l	98
82) 4-Chlorotoluene	12.77	91	643354	48.774	ug/l	99
83) tert-Butylbenzene	12.99	119	759096	48.735	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	823914	48.666	ug/l	100
85) sec-Butylbenzene	13.17	105	946507	47.111	ug/l	100
86) p-Isopropyltoluene	13.29	119	859714	48.198	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	416483	48.935	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	398968	48.694	ug/l	99
89) n-Butylbenzene	13.61	91	628663	45.730	ug/l	100
90) Hexachloroethane	13.87	117	152322	49.593	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	420062	50.147	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	45191	52.999	ug/l	98
93) 1,2,4-Trichlorobenzene	14.91	180	169639	39.839	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080119\
Data File : VN057045.D
Acq On : 1 Aug 2019 18:17
Operator : JC/SP
Sample : K4097-07MS
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-GW-498-500MS

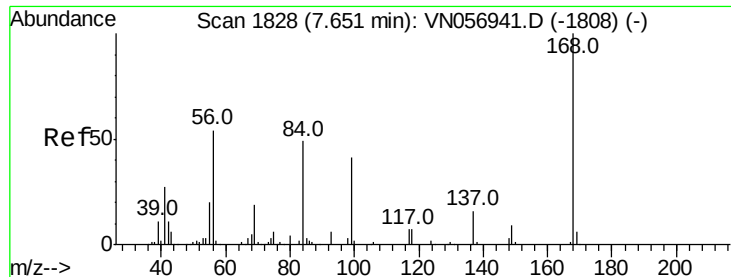
Manual Integrations
APPROVED

MMDadoda
8/2/2019 11:18:06 AM

Quant Time: Aug 02 06:49:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 01:33:29 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.00	225	151173	51.784	ug/l	97
95) Naphthalene	15.12	128	435197	41.916	ug/l	99
96) 1,2,3-Trichlorobenzene	15.29	180	190293	43.841	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion:168 Resp: 440742

Ion Ratio Lower Upper

168 100

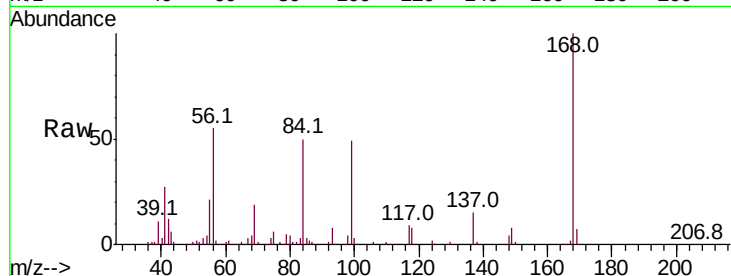
99 49.5 39.0 58.4

Manual Integrations

APPROVED

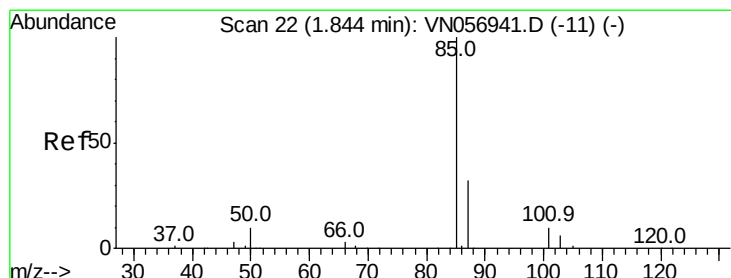
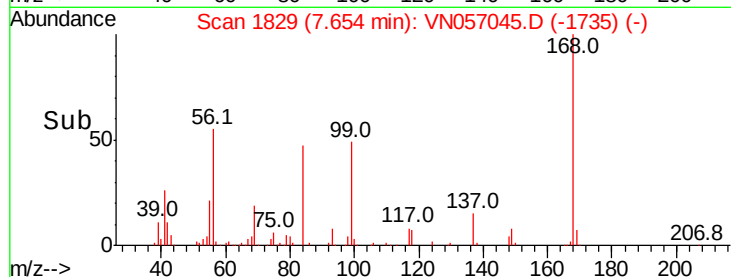
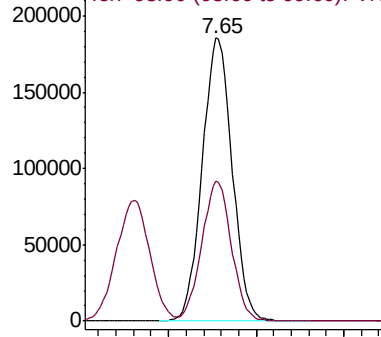
MMDadoda

8/2/2019 11:18:06 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 52.329 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN057045.D

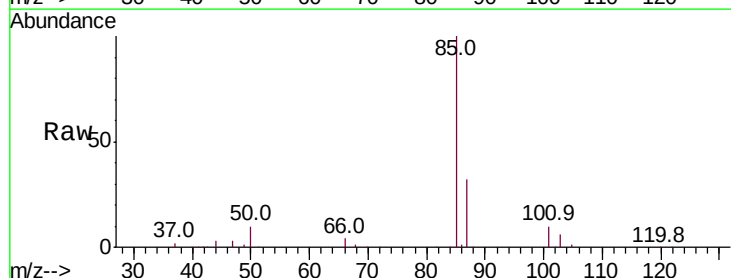
Acq: 1 Aug 2019 18:17

Tgt Ion: 85 Resp: 233160

Ion Ratio Lower Upper

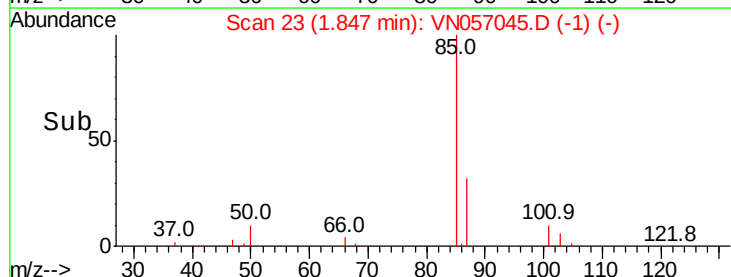
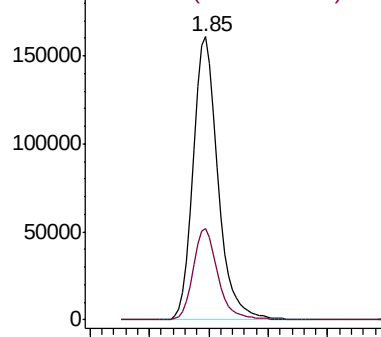
85 100

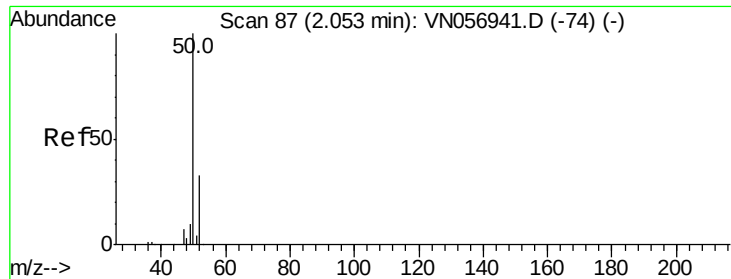
87 32.1 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 48.529 ug/l

RT: 2.05 min Scan# 87

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion: 50 Resp: 258923

Ion Ratio Lower Upper

50 100

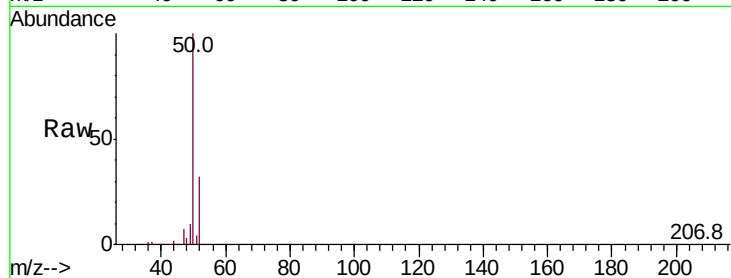
52 32.4 26.2 39.2

Manual Integrations

APPROVED

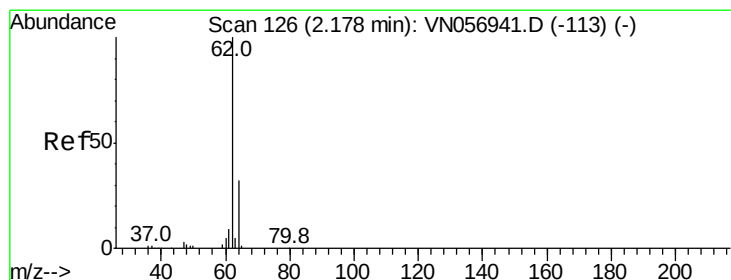
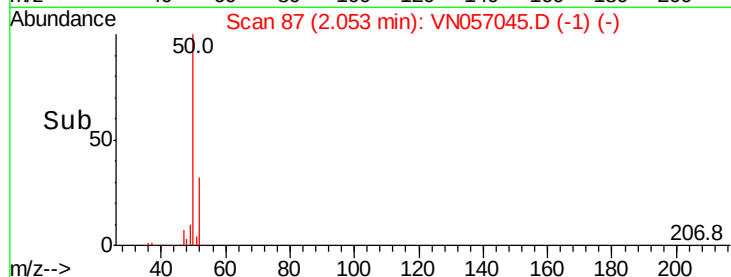
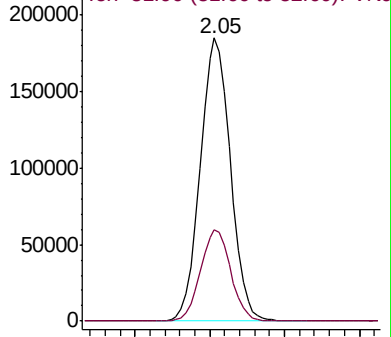
MMDadoda

8/2/2019 11:18:06 AM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 48.101 ug/l

RT: 2.18 min Scan# 126

Delta R.T. 0.00 min

Lab File: VN057045.D

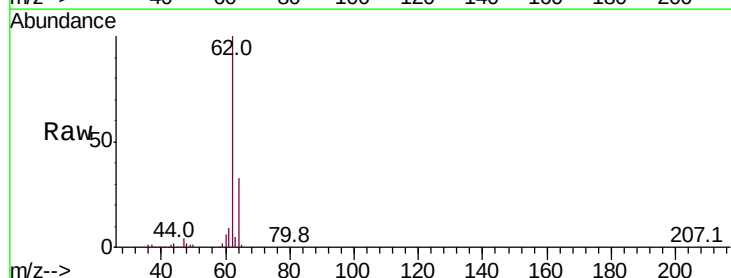
Acq: 1 Aug 2019 18:17

Tgt Ion: 62 Resp: 240641

Ion Ratio Lower Upper

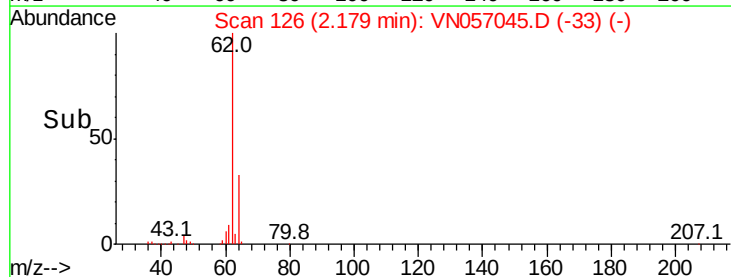
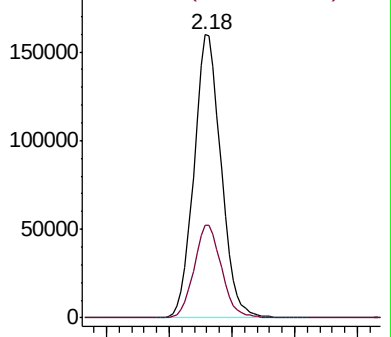
62 100

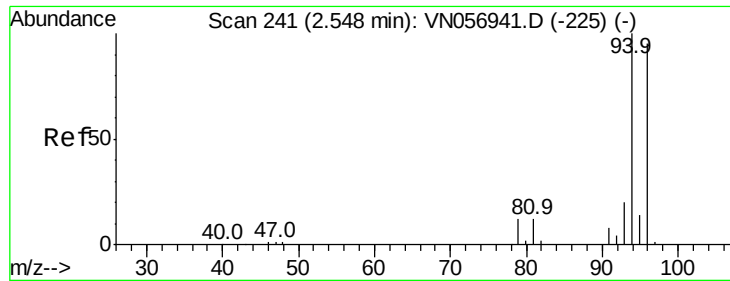
64 32.7 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 45.659 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion: 94 Resp: 142006

Ion Ratio Lower Upper

94 100

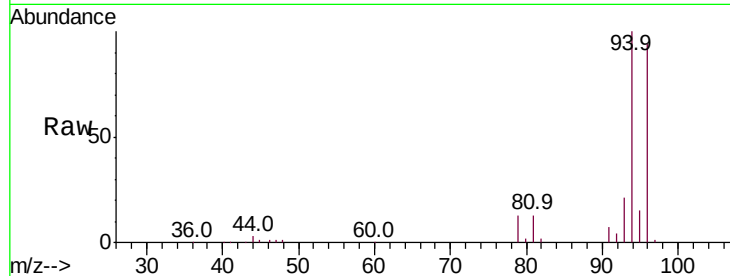
96 93.5 76.2 114.2

Manual Integrations

APPROVED

MMDadoda

8/2/2019 11:18:06 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.54

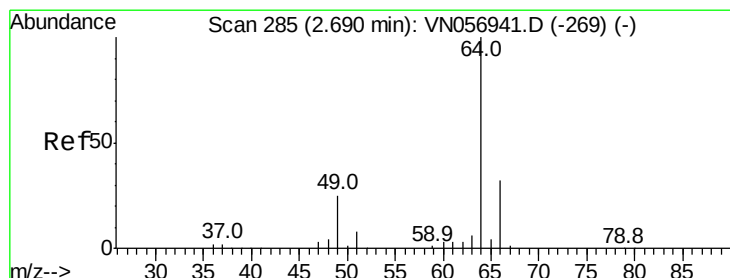
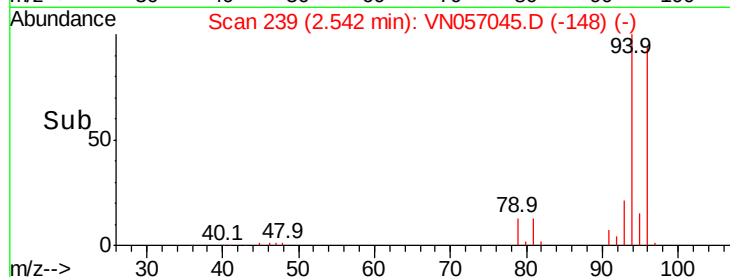
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 48.161 ug/l

RT: 2.69 min Scan# 284

Delta R.T. -0.00 min

Lab File: VN057045.D

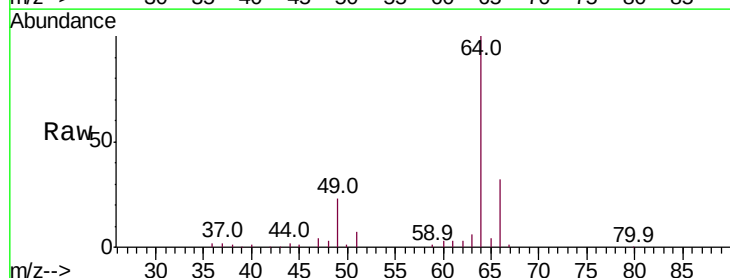
Acq: 1 Aug 2019 18:17

Tgt Ion: 64 Resp: 132820

Ion Ratio Lower Upper

64 100

66 32.2 25.8 38.8



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.69

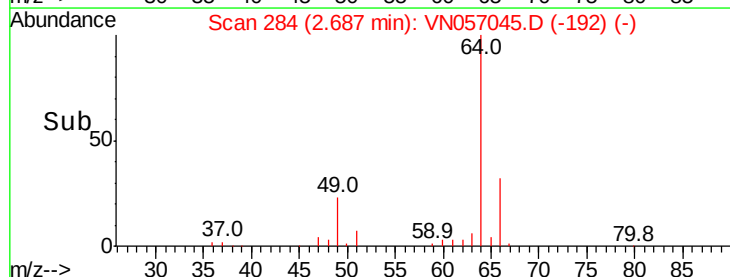
60000

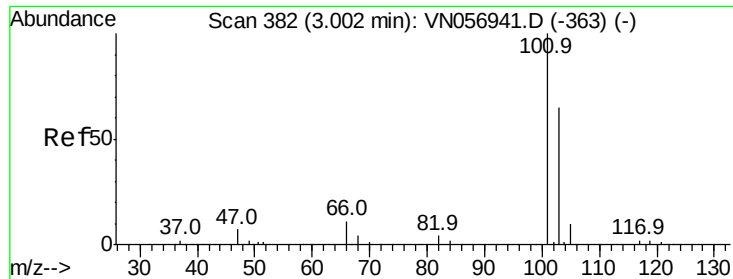
40000

20000

0

Time-->





#7

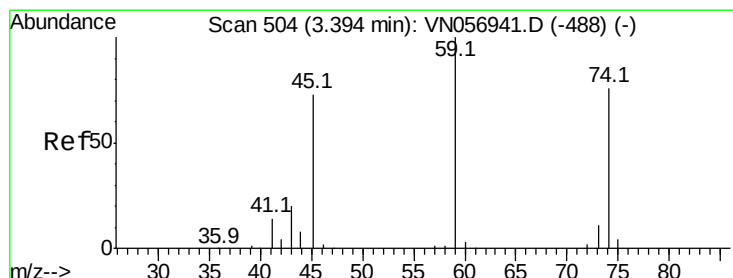
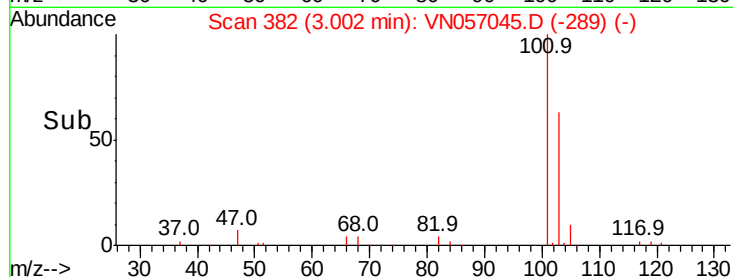
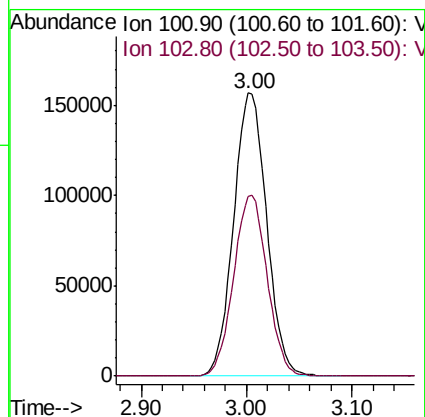
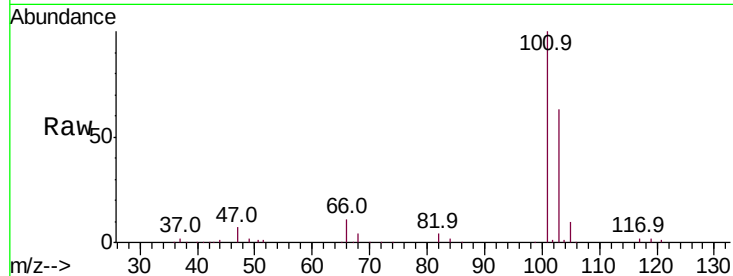
Trichlorofluoromethane
 Concen: 52.109 ug/l
 RT: 3.00 min Scan# 382
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-GW-498-500MS

Tot Ion:101 Resp: 341253
 Ion Ratio Lower Upper
 101 100
 103 63.3 52.1 78.1

Manual Integrations
 APPROVED

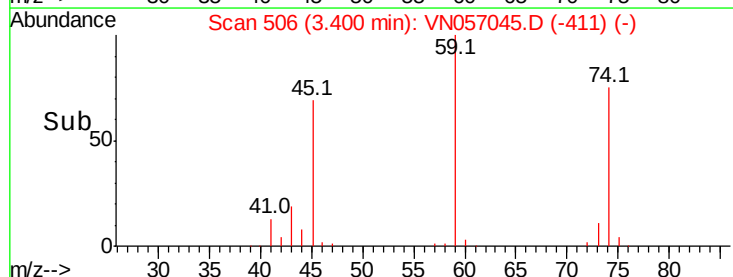
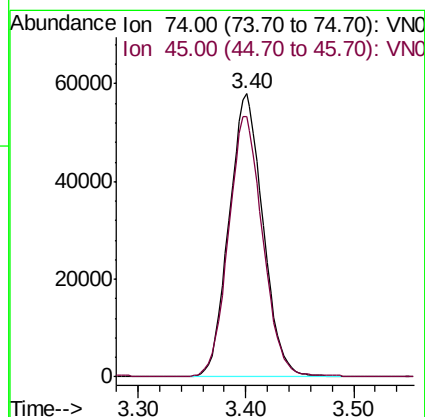
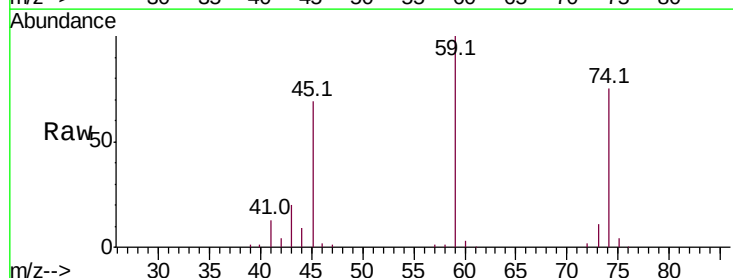
MMDadoda
 8/2/2019 11:18:06 AM

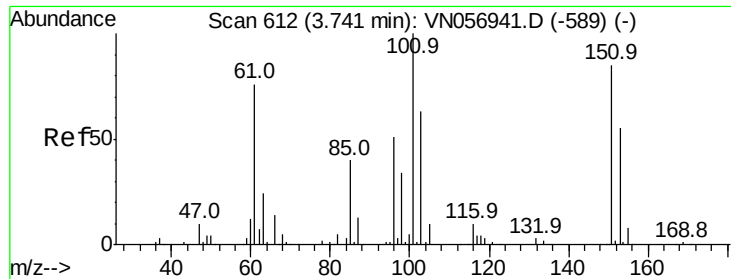


#8

Diethyl Ether
 Concen: 51.762 ug/l
 RT: 3.40 min Scan# 506
 Delta R.T. 0.01 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Tgt Ion: 74 Resp: 126866
 Ion Ratio Lower Upper
 74 100
 45 92.9 48.1 144.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.326 ug/l

RT: 3.75 min Scan# 614

Delta R.T. 0.01 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

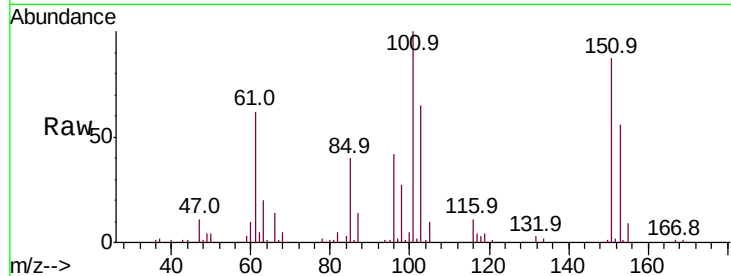
ClientSampleId :

BP-VPB203-GW-498-500MS

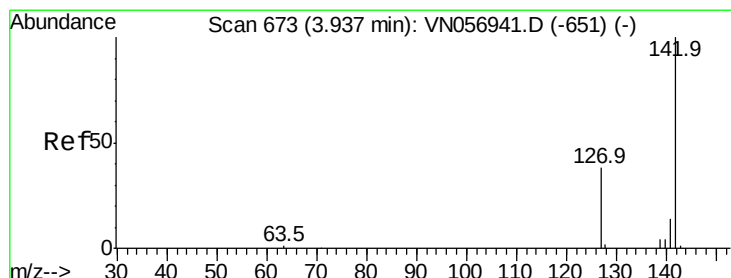
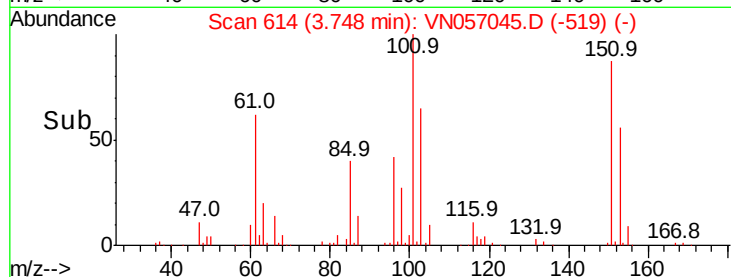
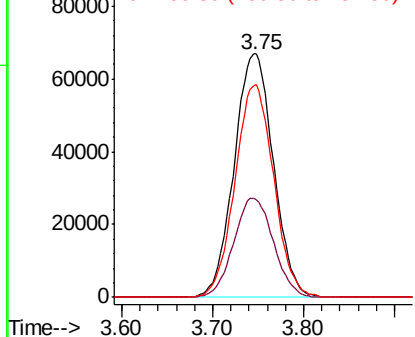
Tot Ion:	101	Resp:	200272
Ion Ratio	Lower	Upper	
101	100		
85	41.1	32.3	48.5
151	86.3	68.0	102.0

Manual Integrations
APPROVED

MMDadoda
8/2/2019 11:18:06 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: 53.411 ug/l

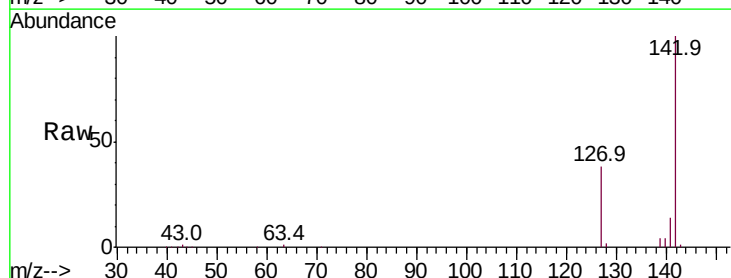
RT: 3.94 min Scan# 674

Delta R.T. 0.00 min

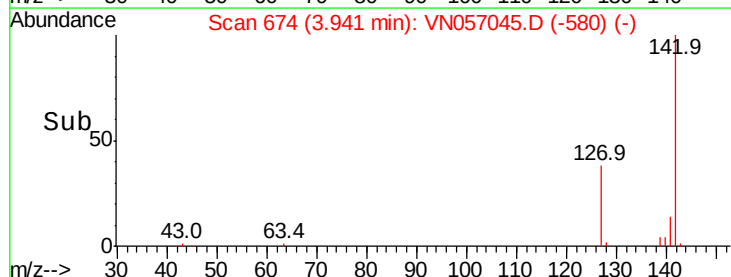
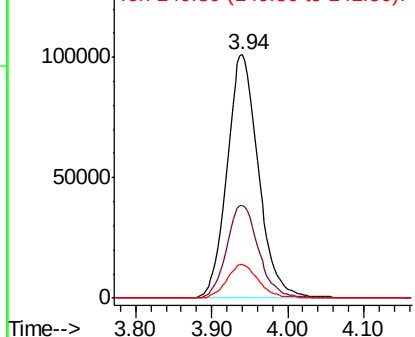
Lab File: VN057045.D

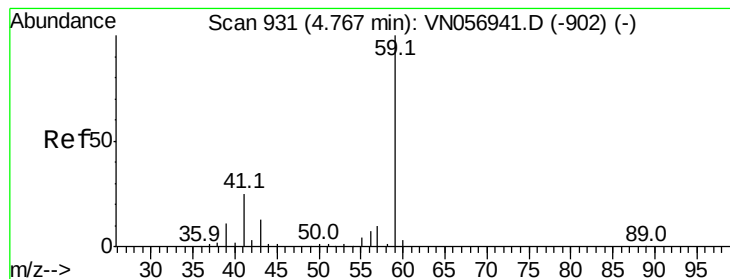
Acq: 1 Aug 2019 18:17

Tgt Ion:	142	Resp:	289777
Ion Ratio	Lower	Upper	
142	100		
127	39.0	30.4	45.6
141	14.0	11.1	16.7



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

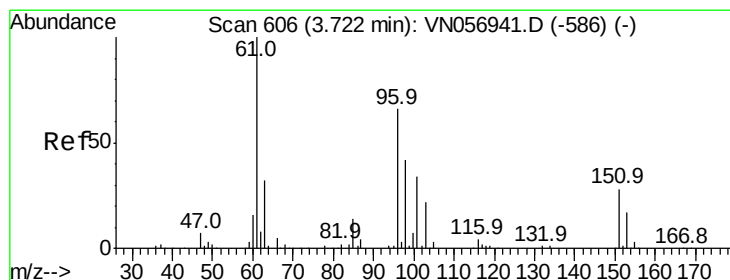
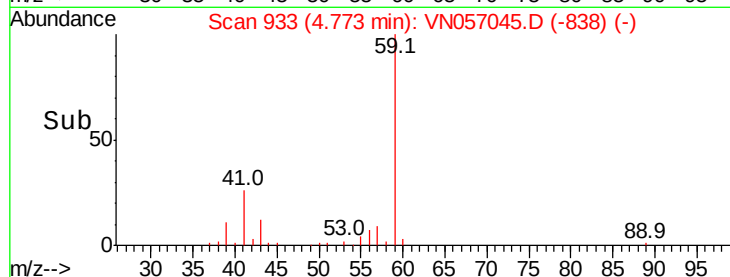
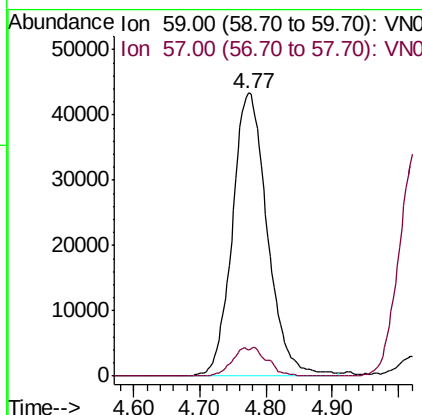
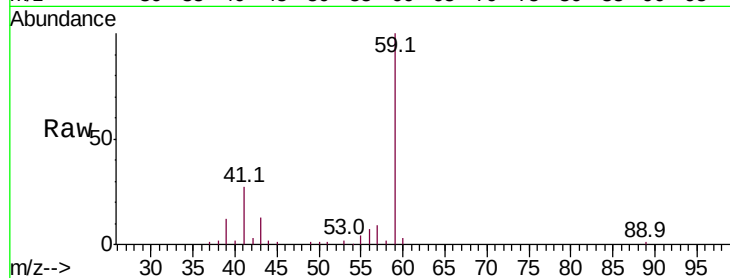
Tert butyl alcohol
 Concen: 260.730 ug/l
 RT: 4.77 min Scan# 933
 Delta R.T. 0.01 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-GW-498-500MS

Tot Ion	Ratio	Lower	Upper
59	100		
57	4.8	7.5	11.3#

Manual Integrations
 APPROVED

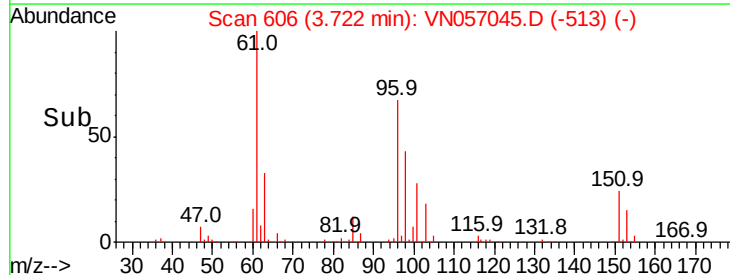
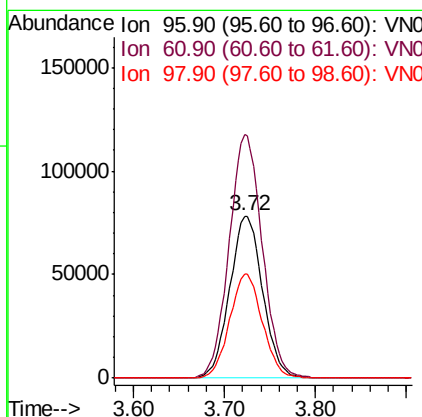
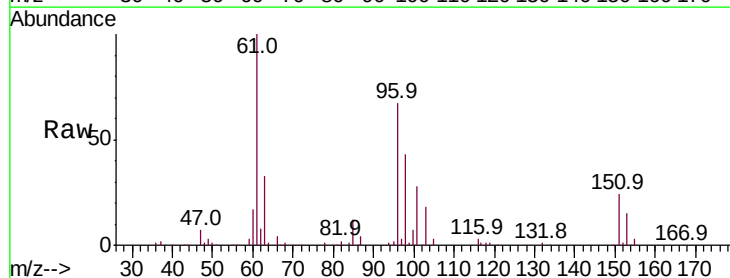
MMDadoda
 8/2/2019 11:18:06 AM

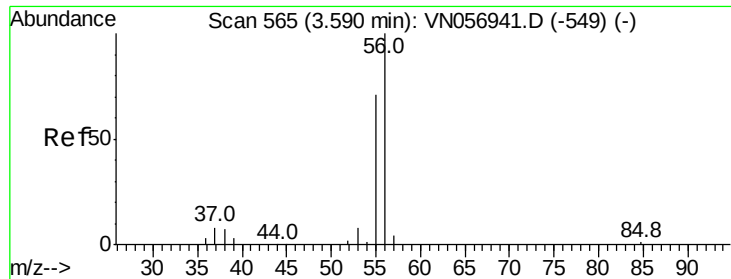


#12

1,1-Dichloroethene
 Concen: 50.846 ug/l
 RT: 3.72 min Scan# 606
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Tgt Ion	Ratio	Lower	Upper
96	100		
61	149.9	121.8	182.8
98	63.9	51.7	77.5





#13

Acrolein

Concen: 284.679 ug/l

RT: 3.59 min Scan# 566

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion: 56 Resp: 88946

Ion Ratio Lower Upper

56 100

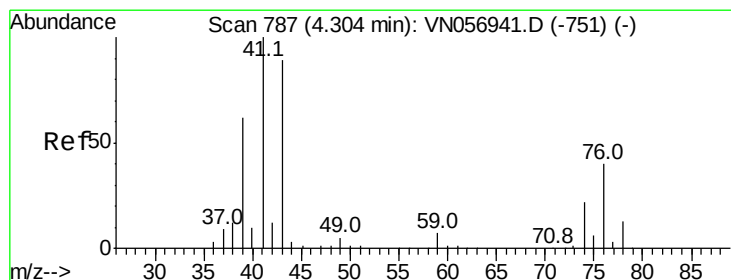
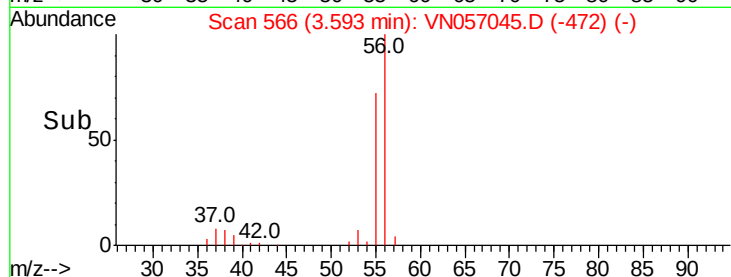
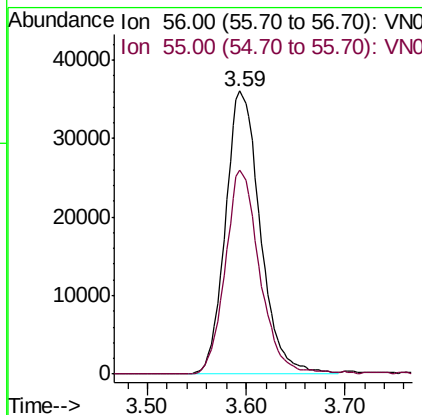
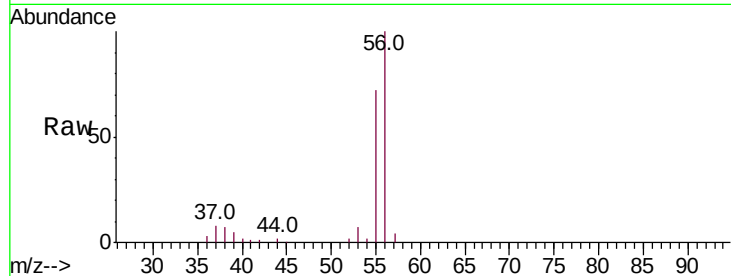
55 71.4 55.8 83.6

Manual Integrations

APPROVED

MMDadoda

8/2/2019 11:18:06 AM



#14

Allyl chloride

Concen: 49.184 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

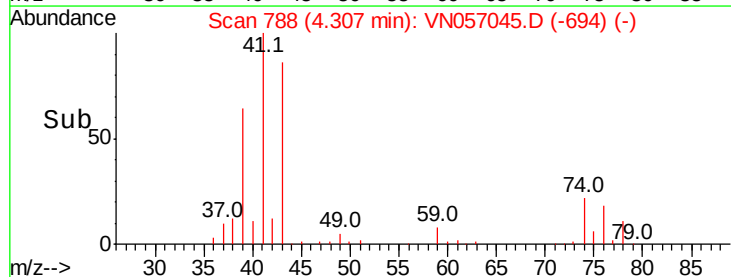
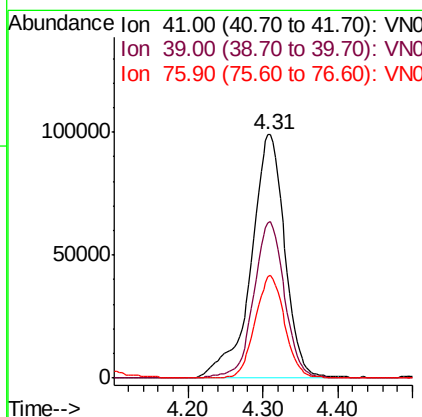
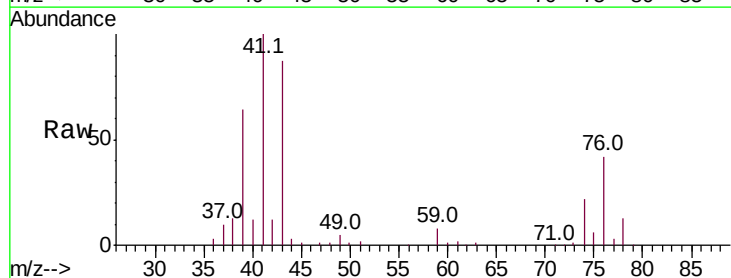
Tgt Ion: 41 Resp: 309951

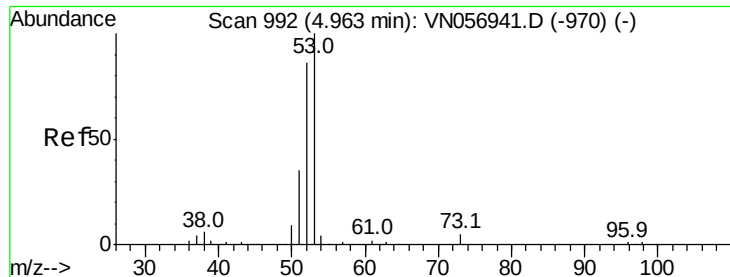
Ion Ratio Lower Upper

41 100

39 59.2 46.4 69.6

76 37.0 28.4 42.6





#15

Acrylonitrile

Concen: 272.379 ug/l

RT: 4.97 min Scan# 994

Delta R.T. 0.01 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

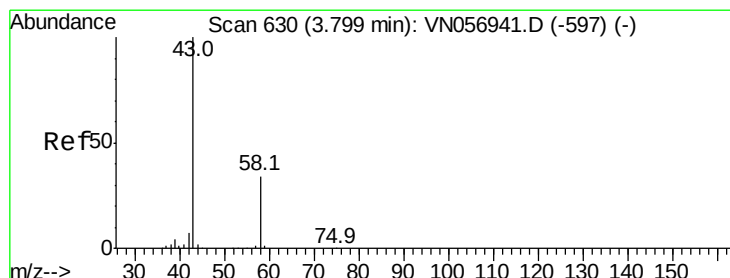
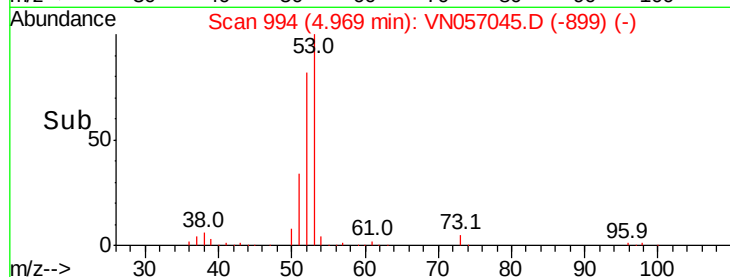
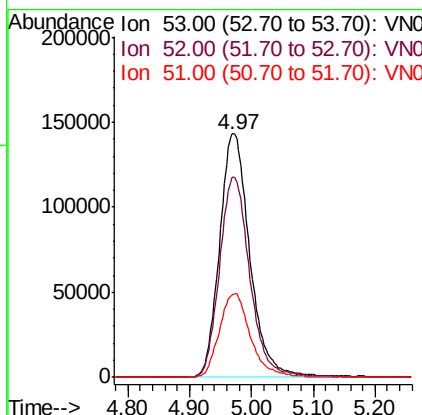
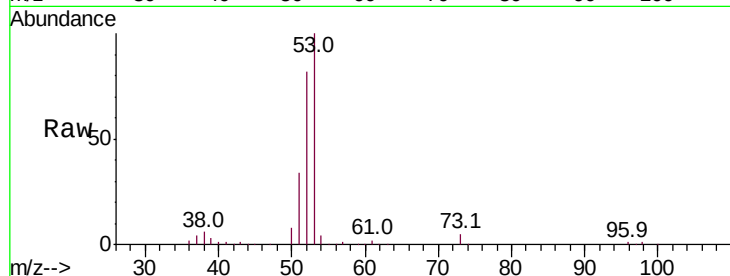
ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion:	53	Resp:	487108
Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.5	99.7
51	35.4	28.4	42.6

Manual Integrations
APPROVED

MMDadoda
8/2/2019 11:18:06 AM



#16

Acetone

Concen: 224.582 ug/l

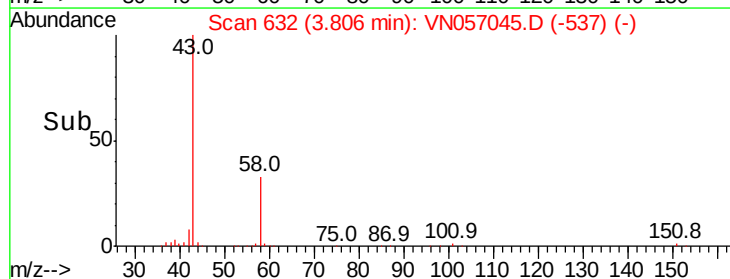
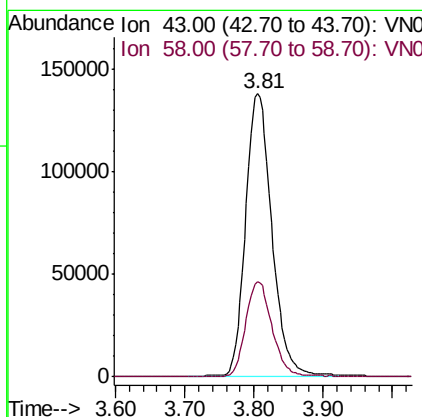
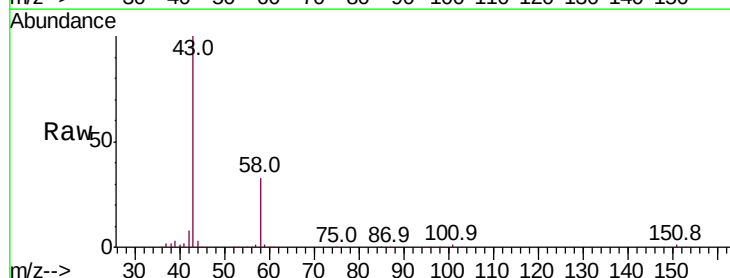
RT: 3.81 min Scan# 632

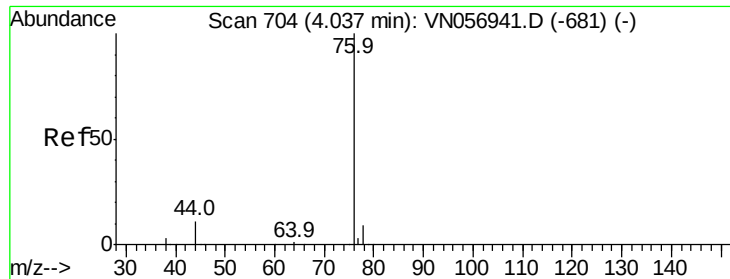
Delta R.T. 0.01 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Tgt Ion:	43	Resp:	367071
Ion	Ratio	Lower	Upper
43	100		
58	33.3	27.2	40.8





#17

Carbon Disulfide

Concen: 46.319 ug/l

RT: 4.04 min Scan# 705

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion: 76 Resp: 476825

Ion Ratio Lower Upper

76 100

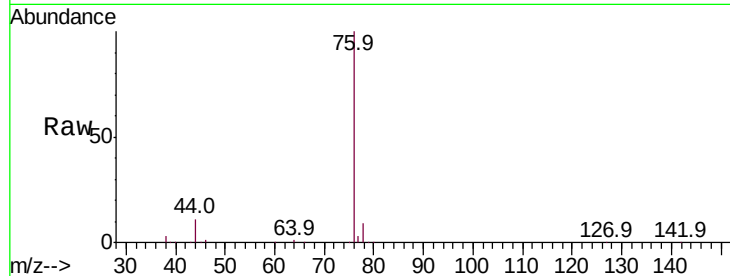
78 9.1 7.2 10.8

Manual Integrations

APPROVED

MMDadoda

8/2/2019 11:18:06 AM



Abundance Ion 75.90 (75.60 to 76.60): VN056941.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN056941.D (-681) (-)

4.04

200000

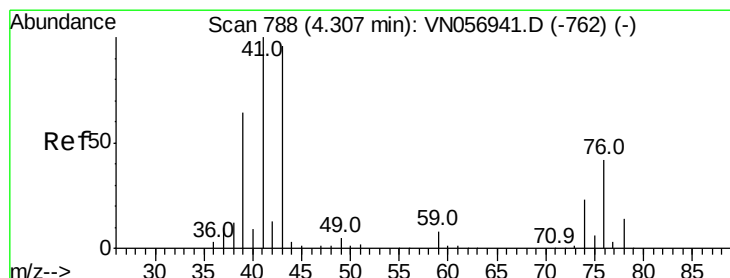
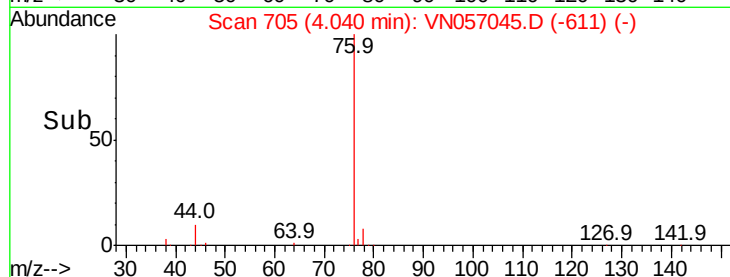
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 47.340 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.00 min

Lab File: VN057045.D

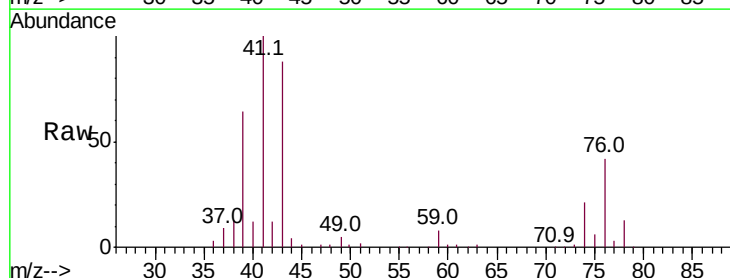
Acq: 1 Aug 2019 18:17

Tgt Ion: 43 Resp: 246833

Ion Ratio Lower Upper

43 100

74 24.7 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VN056941.D (-762) (-)

Ion 74.00 (73.70 to 74.70): VN056941.D (-762) (-)

4.31

100000

80000

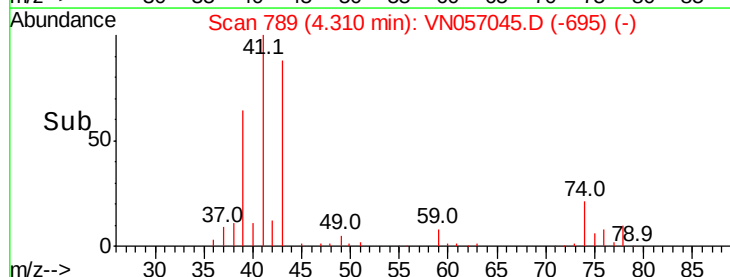
60000

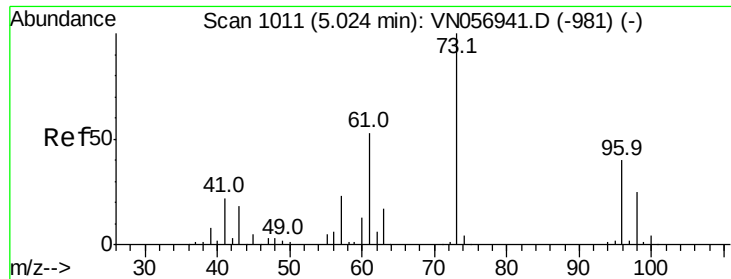
40000

20000

0

Time-->





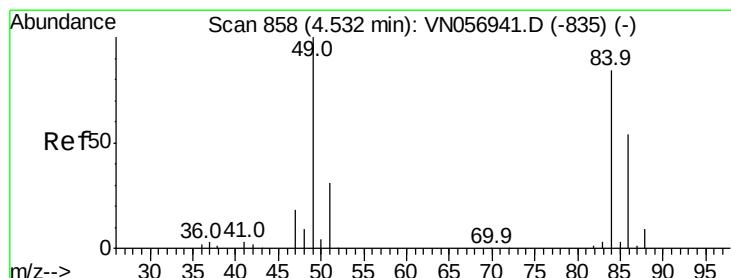
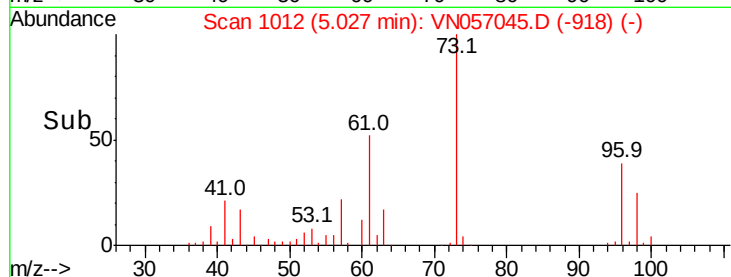
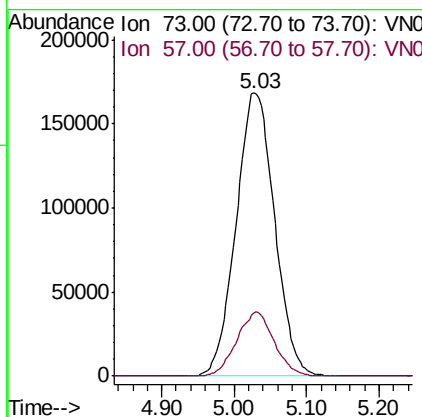
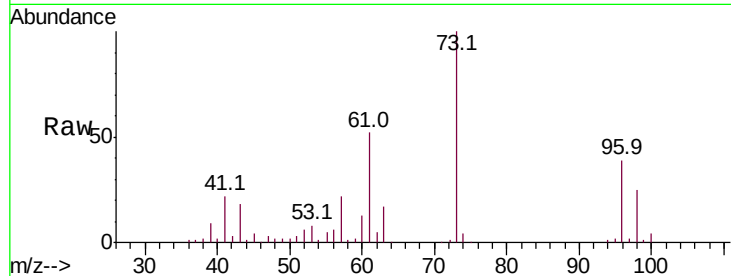
#19
Methyl tert-butyl Ether
Concen: 53.922 ug/l
RT: 5.03 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-GW-498-500MS

Tot Ion: 73 Resp: 622881
Ion Ratio Lower Upper
73 100
57 22.4 18.3 27.5

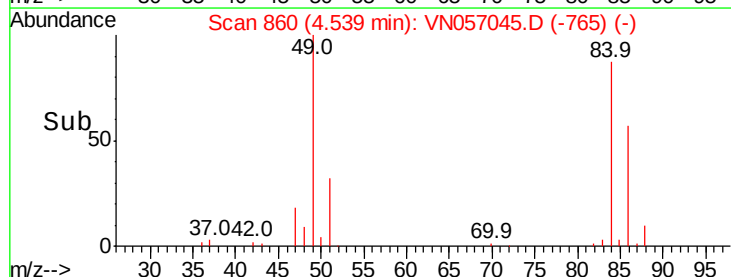
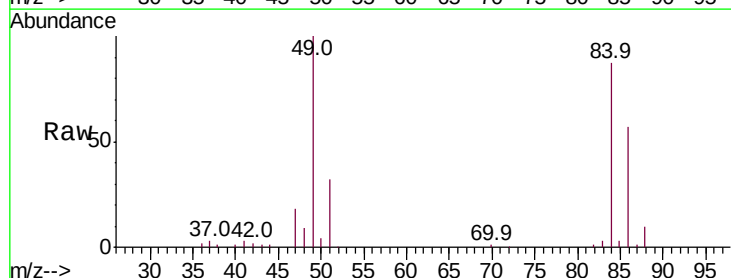
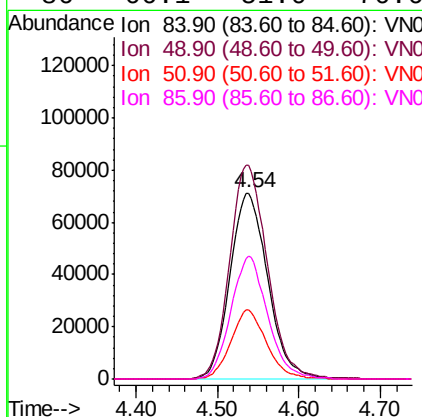
Manual Integrations
APPROVED

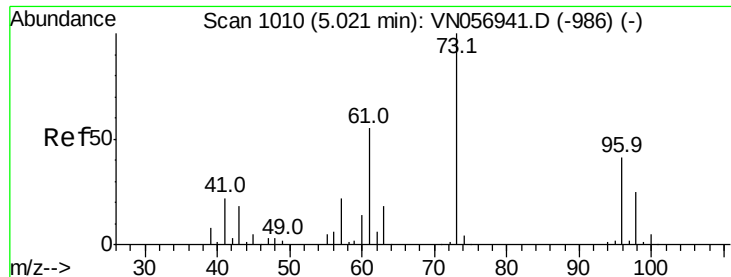
MMDadoda
8/2/2019 11:18:06 AM



#20
Methylene Chloride
Concen: 48.762 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Tgt Ion: 84 Resp: 229578
Ion Ratio Lower Upper
84 100
49 115.0 95.2 142.8
51 37.3 29.7 44.5
86 66.1 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 50.431 ug/l

RT: 5.03 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion: 96 Resp: 207494

Ion Ratio Lower Upper

96 100

61 134.2 107.5 161.3

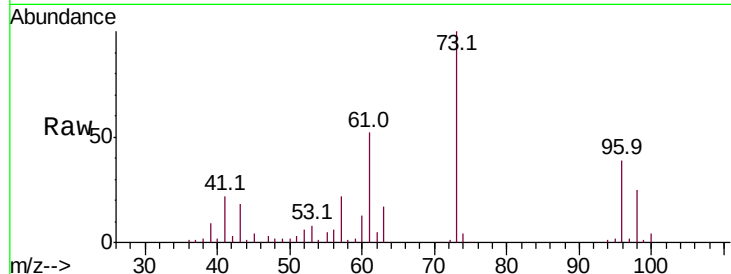
98 64.7 49.9 74.9

Manual Integrations

APPROVED

MMDadoda

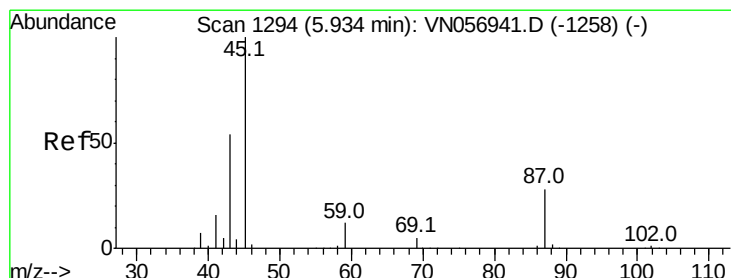
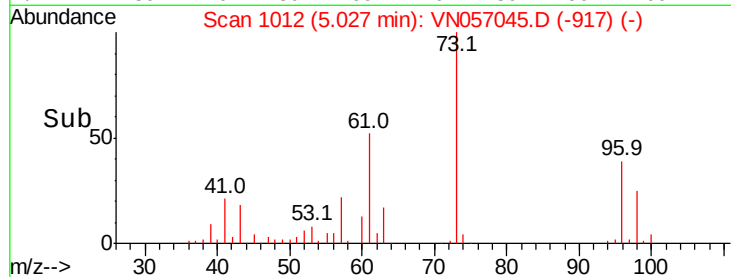
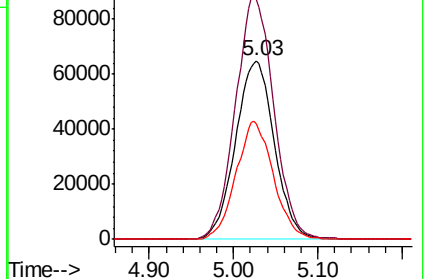
8/2/2019 11:18:06 AM



Abundance Ion 95.90 (95.60 to 96.60): VN056941.D (-986) (-)

Ion 60.90 (60.60 to 61.60): VN056941.D (-986) (-)

Ion 97.90 (97.60 to 98.60): VN056941.D (-986) (-)



#22

Diisopropyl ether

Concen: 51.360 ug/l

RT: 5.94 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Tgt Ion: 45 Resp: 666869

Ion Ratio Lower Upper

45 100

43 56.9 44.7 67.1

87 29.3 23.0 34.6

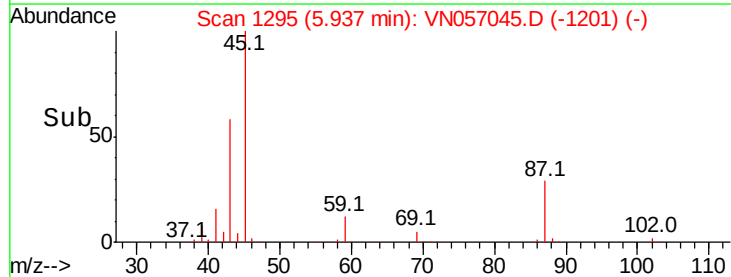
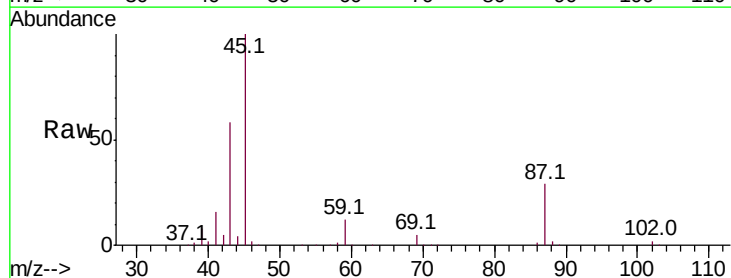
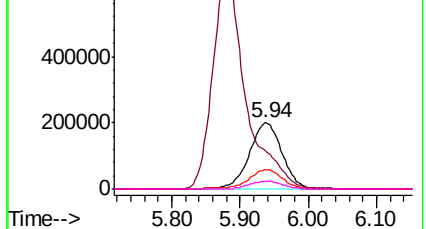
59 11.6 9.8 14.8

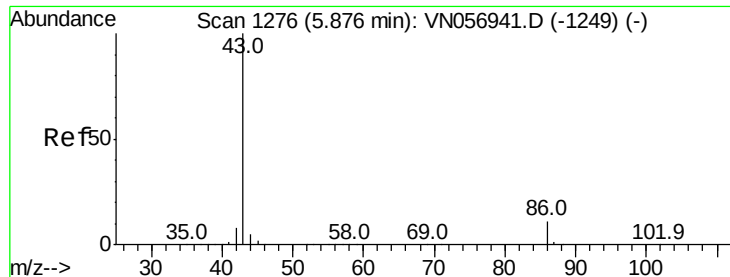
Abundance Ion 45.00 (44.70 to 45.70): VN056941.D (-1258) (-)

Ion 43.00 (42.70 to 43.70): VN056941.D (-1258) (-)

Ion 87.00 (86.70 to 87.70): VN056941.D (-1258) (-)

Ion 59.00 (58.70 to 59.70): VN056941.D (-1258) (-)





#23

Vinyl Acetate

Concen: 243.134 ug/l

RT: 5.88 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion: 43 Resp: 2187296

Ion Ratio Lower Upper

43 100

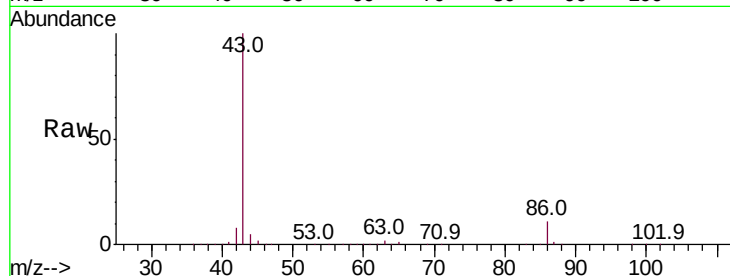
86 11.0 8.5 12.7

Manual Integrations

APPROVED

MMDadoda

8/2/2019 11:18:06 AM



Abundance Ion 43.00 (42.70 to 43.70): VN056941.D (-1249) (-)

Ion 86.00 (85.70 to 86.70): VN056941.D (-1249) (-)

5.88

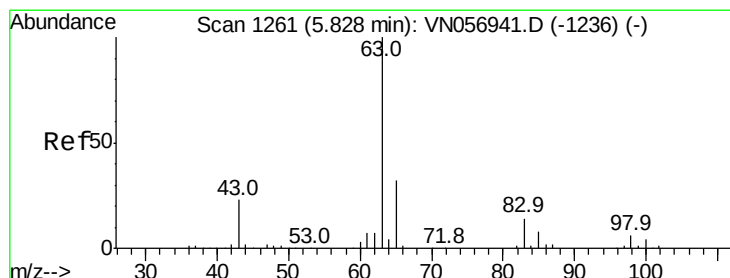
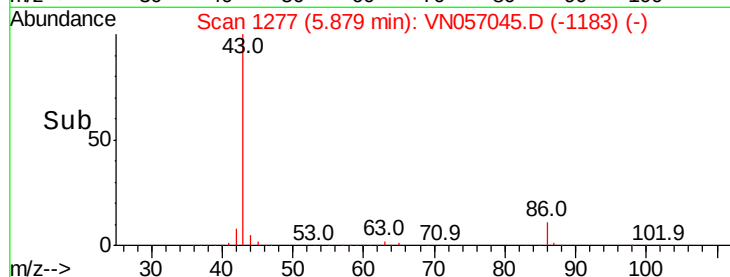
600000

400000

200000

0

Time-->



#24

1,1-Dichloroethane

Concen: 51.586 ug/l

RT: 5.83 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

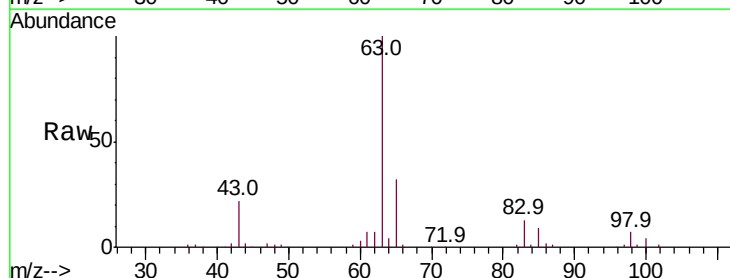
Tgt Ion: 63 Resp: 395188

Ion Ratio Lower Upper

63 100

98 6.8 3.2 9.6

100 4.0 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VN056941.D (-1236) (-)

Ion 97.90 (97.60 to 98.60): VN056941.D (-1236) (-)

Ion 99.90 (99.60 to 100.60): VN056941.D (-1236) (-)

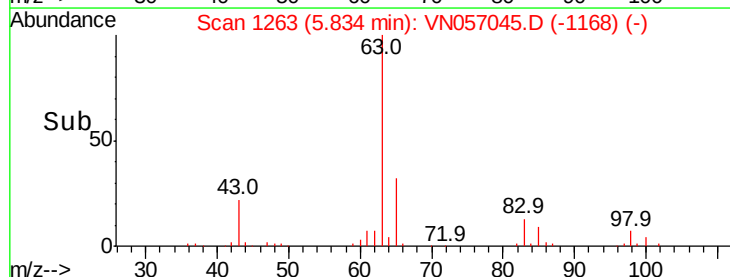
150000

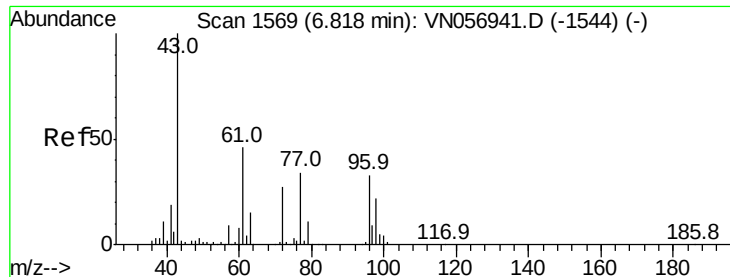
100000

50000

0

Time-->





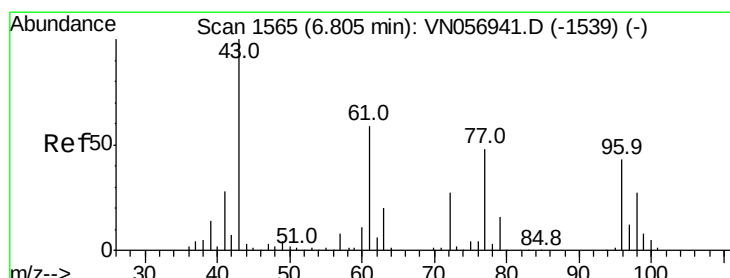
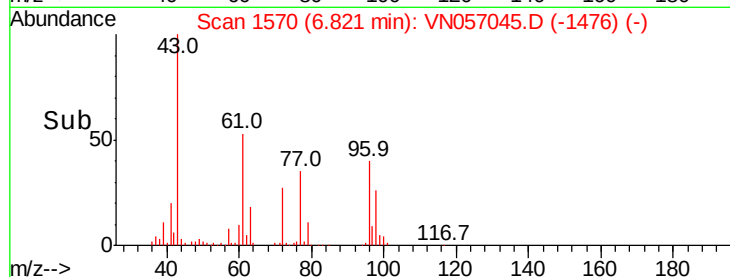
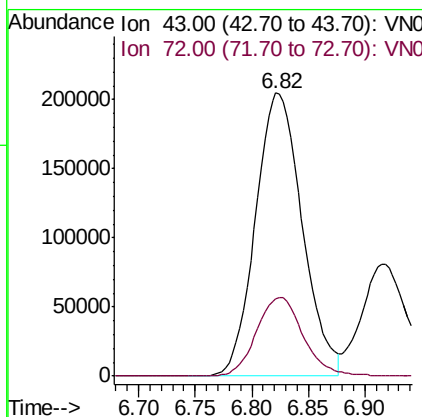
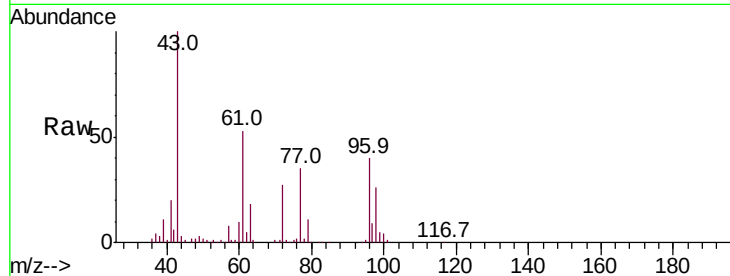
#25
2-Butanone
Concen: 252.279 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-GW-498-500MS

Tot Ion: 43 Resp: 584698
Ion Ratio Lower Upper
43 100
72 27.3 21.5 32.3

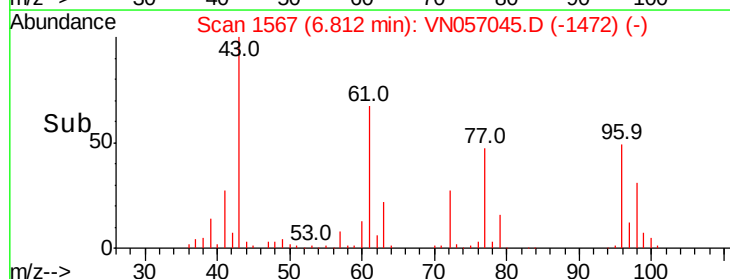
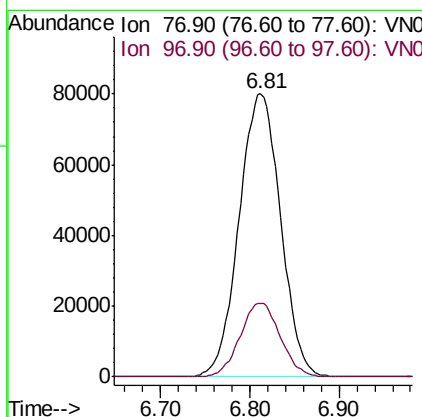
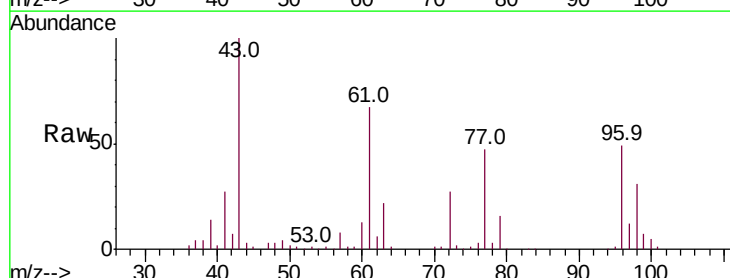
Manual Integrations
APPROVED

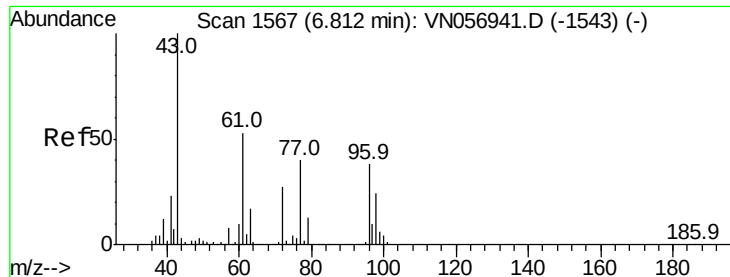
MMDadoda
8/2/2019 11:18:06 AM



#26
2,2-Dichloropropane
Concen: 44.399 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Tgt Ion: 77 Resp: 258625
Ion Ratio Lower Upper
77 100
97 25.2 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 50.952 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

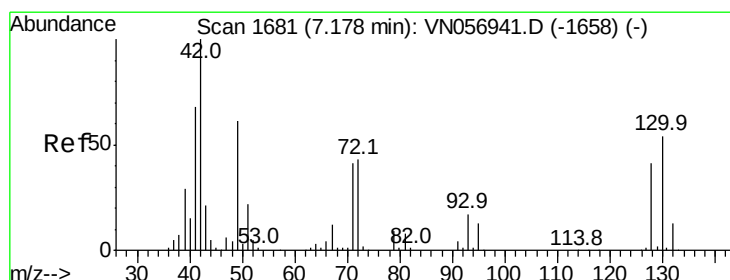
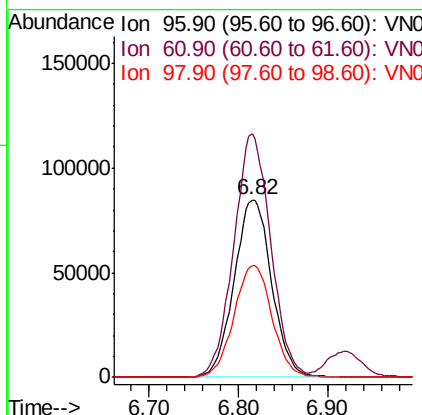
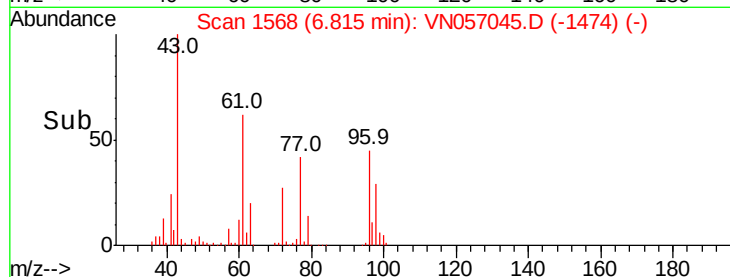
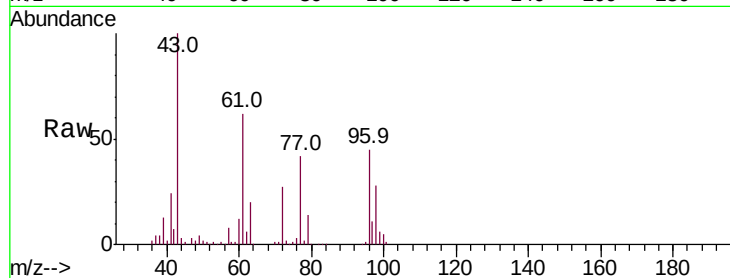
ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion:	96	Resp:	247949
Ion	Ratio	Lower	Upper
96	100		
61	135.2	0.0	277.2
98	64.0	0.0	128.4

Manual Integrations
APPROVED

MMDadoda
8/2/2019 11:18:06 AM



#28

Bromochloromethane

Concen: 49.378 ug/l

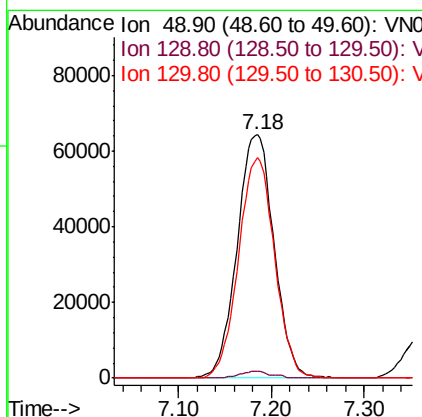
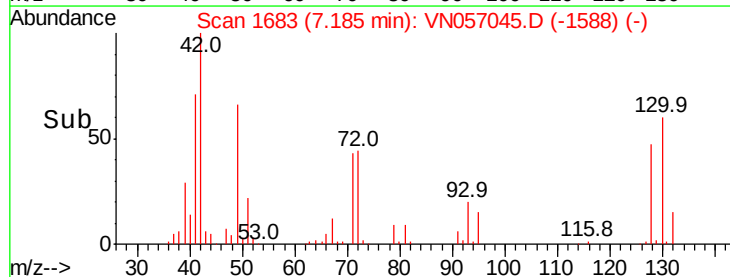
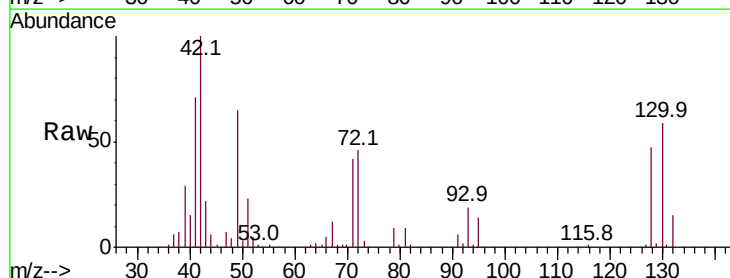
RT: 7.18 min Scan# 1683

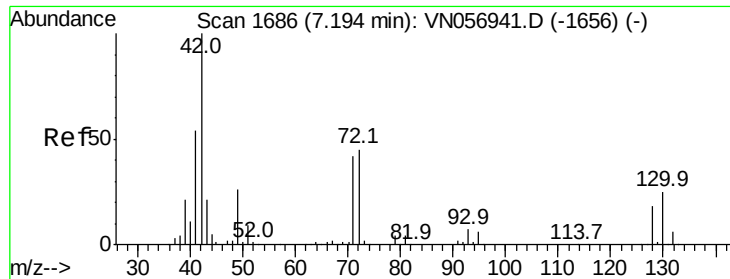
Delta R.T. 0.01 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Tgt Ion:	49	Resp:	177807
Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.6
130	88.5	69.0	103.4





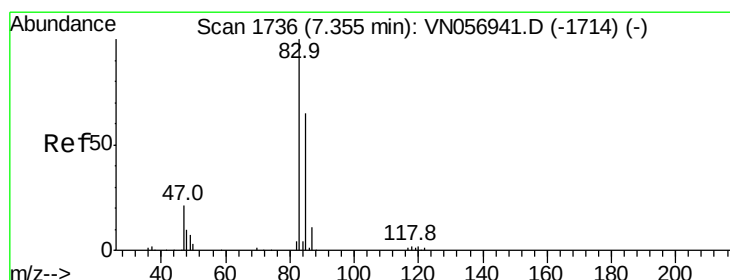
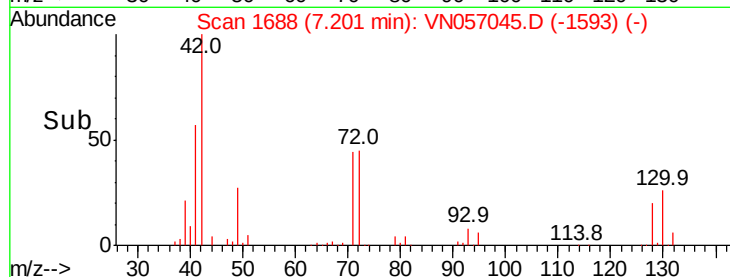
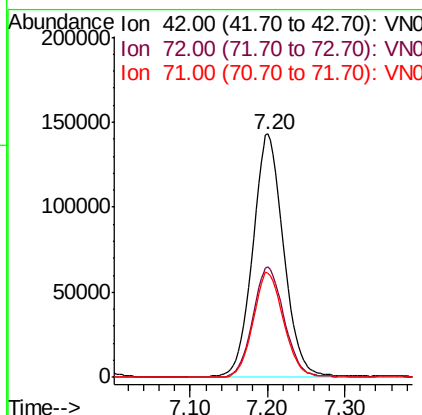
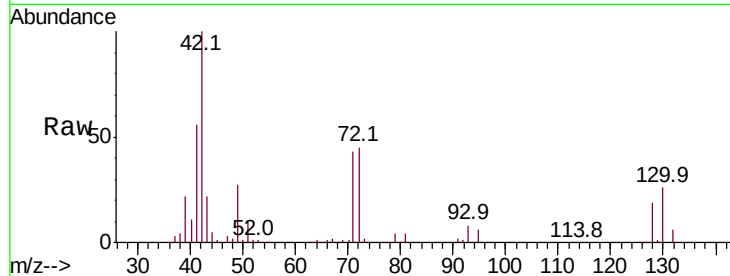
#29
Tetrahydrofuran
Concen: 264.680 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-GW-498-500MS

Tot Ion	Ratio	Resp	Lower	Upper
42	100			
72	45.7		35.6	53.4
71	42.7		33.5	50.3

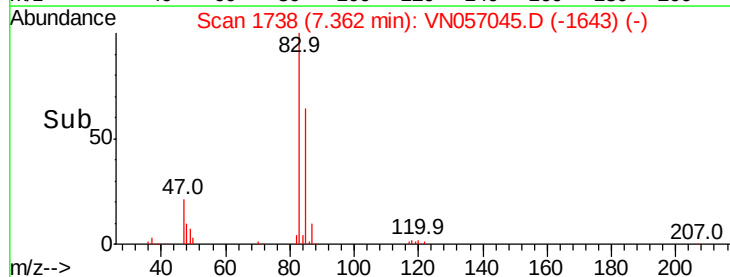
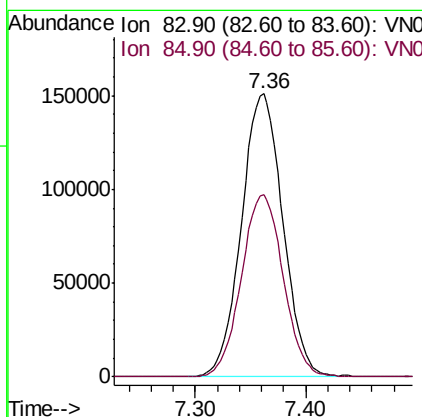
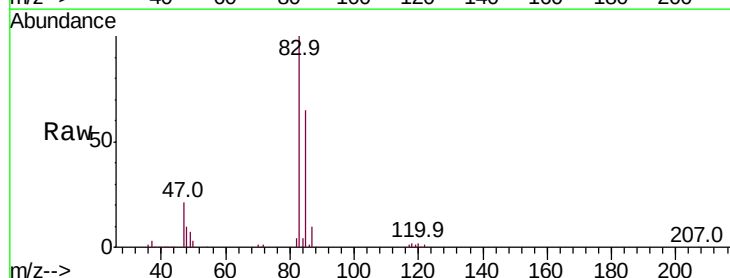
Manual Integrations
APPROVED

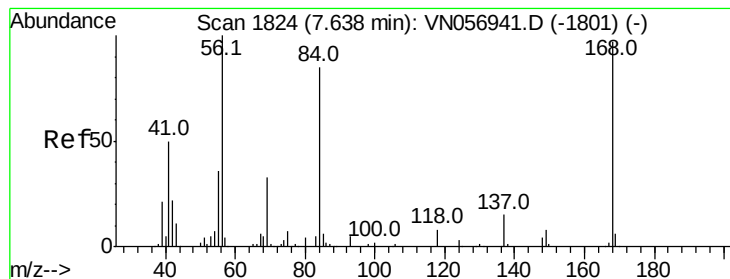
MMDadoda
8/2/2019 11:18:06 AM



#30
Chloroform
Concen: 50.242 ug/l
RT: 7.36 min Scan# 1738
Delta R.T. 0.01 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
85	64.6		52.2	78.2





#31

Cyclohexane

Concen: 45.695 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion: 56 Resp: 338749

Ion Ratio Lower Upper

56 100

69 33.8 26.2 39.2

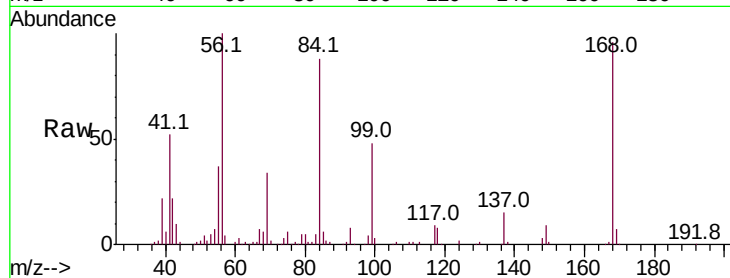
84 86.5 68.2 102.2

Manual Integrations

APPROVED

MMDadoda

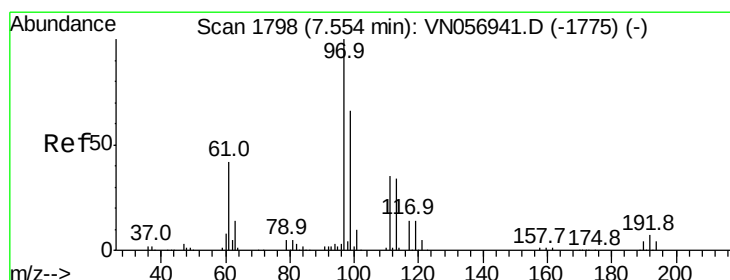
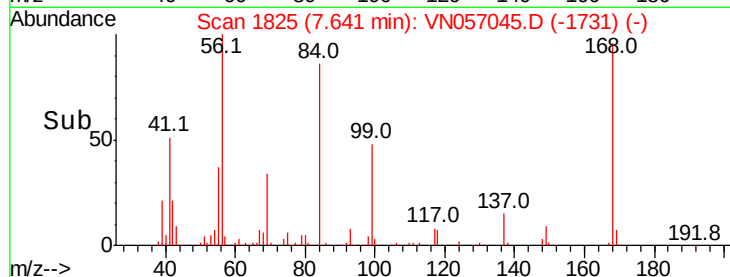
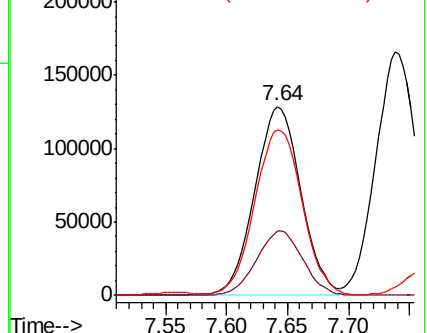
8/2/2019 11:18:06 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 53.222 ug/l

RT: 7.56 min Scan# 1800

Delta R.T. 0.01 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

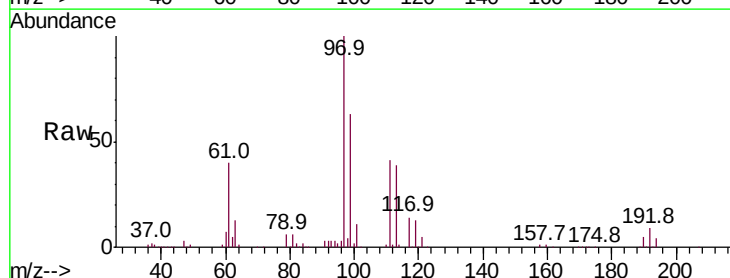
Tgt Ion: 97 Resp: 332615

Ion Ratio Lower Upper

97 100

99 64.0 52.3 78.5

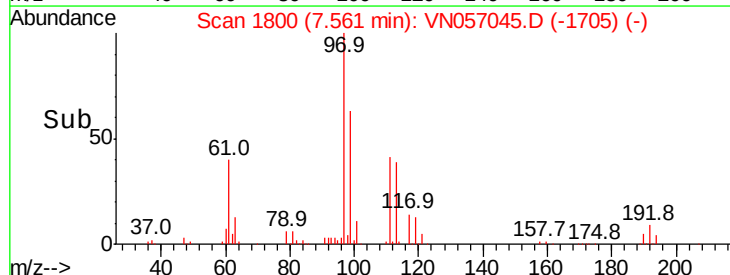
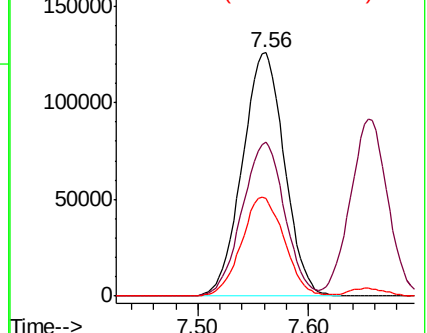
61 41.3 33.9 50.9

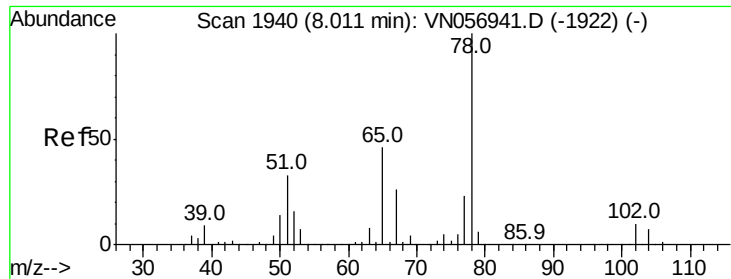


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





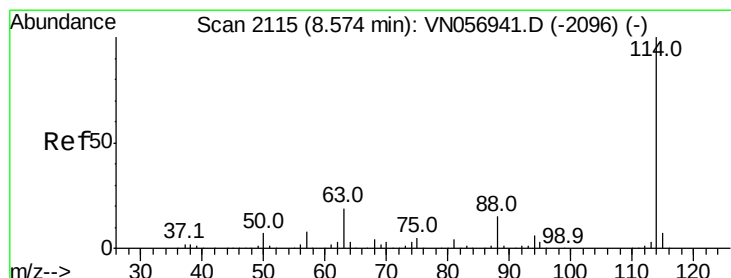
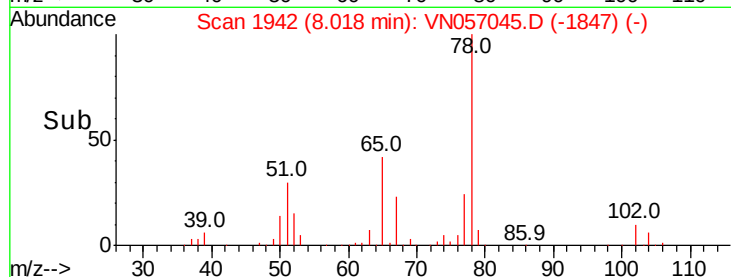
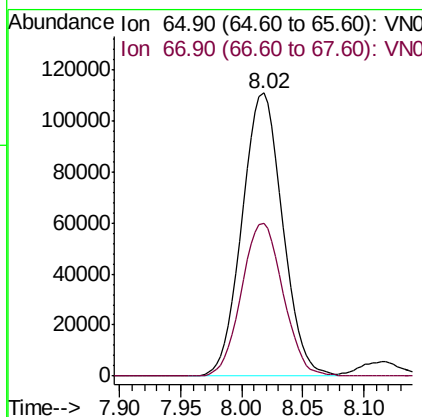
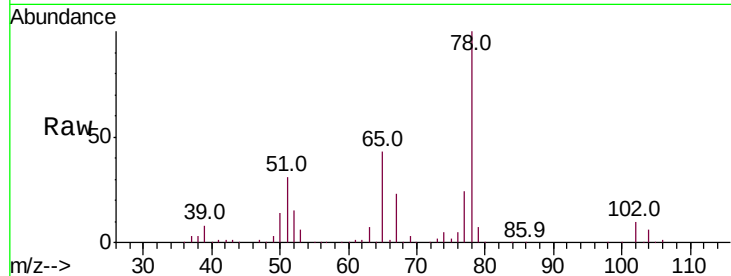
#33
 1,2-Dichloroethane-d4
 Concen: 56.569 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.01 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-GW-498-500MS

Tot Ion	Ratio	Resp	Lower	Upper
65	100	255220		
67	55.3	0.0	112.0	

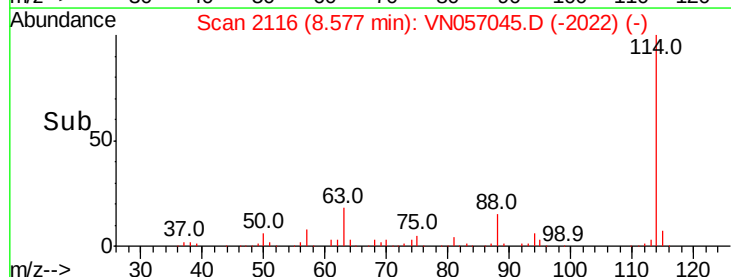
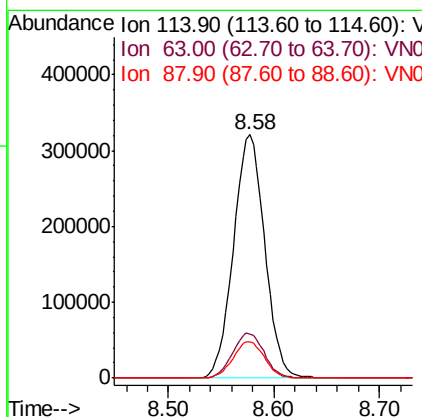
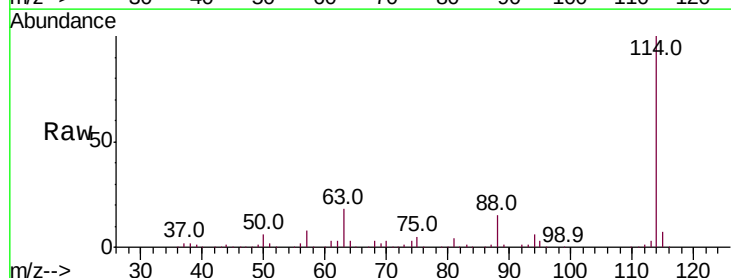
Manual Integrations
 APPROVED

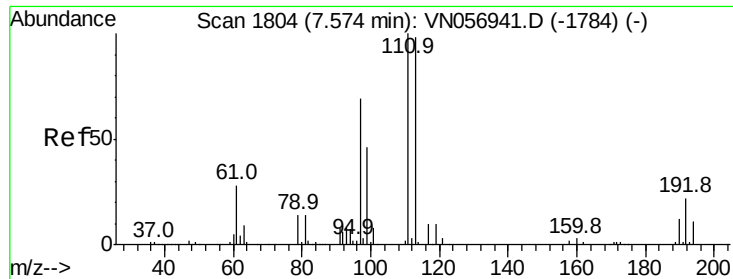
MMDadoda
 8/2/2019 11:18:06 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	660287		
63	18.3	0.0	38.0	
88	15.1	0.0	30.0	





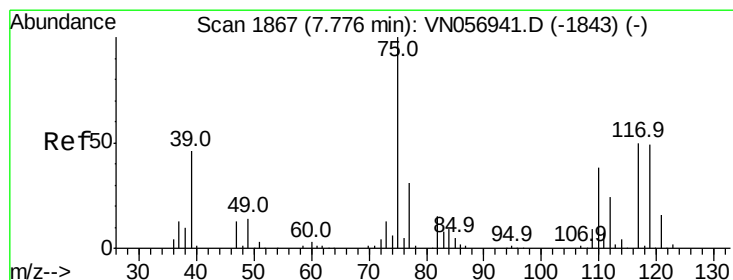
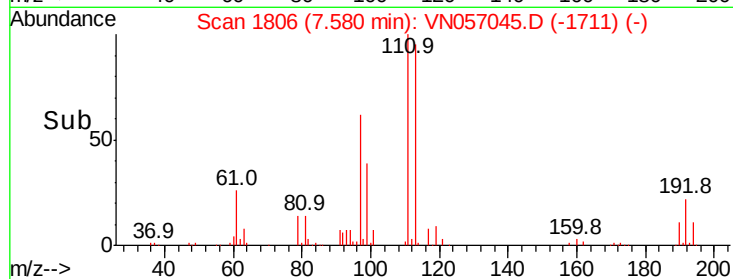
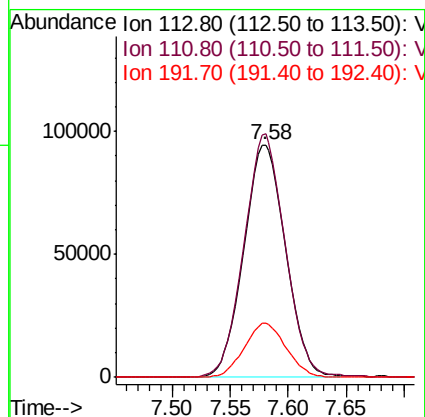
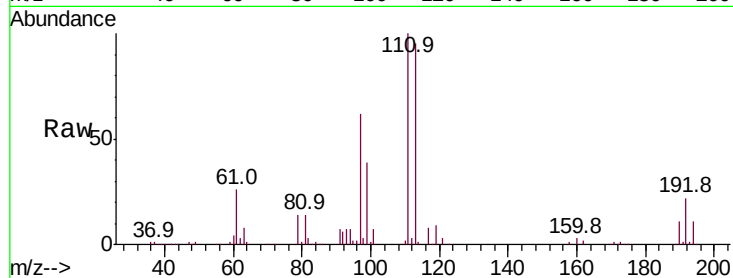
#35
 Dibromofluoromethane
 Concen: 56.179 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. 0.01 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-GW-498-500MS

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.1	82.0	123.0	
192	23.2	18.4	27.6	

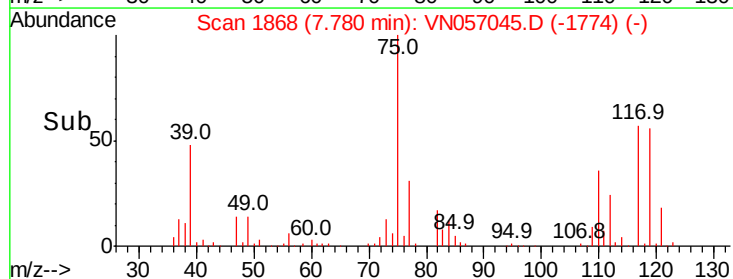
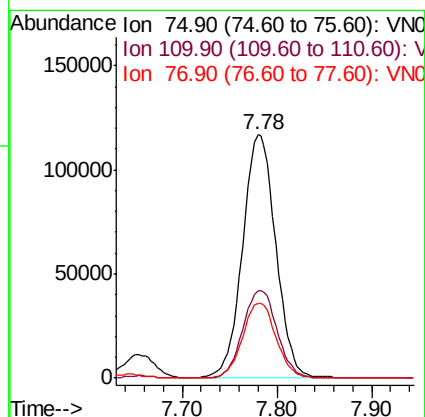
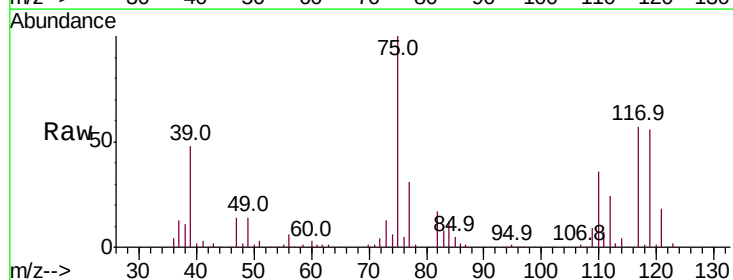
Manual Integrations
 APPROVED

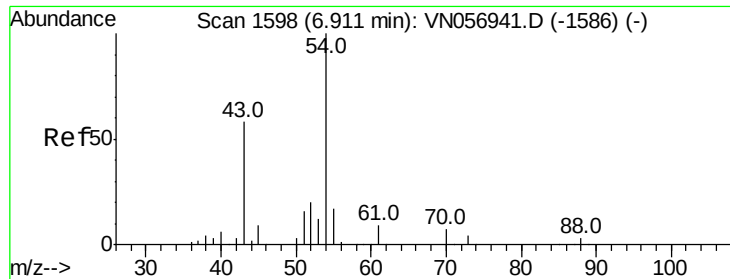
MMDadoda
 8/2/2019 11:18:06 AM



#36
 1,1-Dichloropropene
 Concen: 48.843 ug/l
 RT: 7.78 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.2	18.6	55.8	
77	31.3	25.2	37.8	





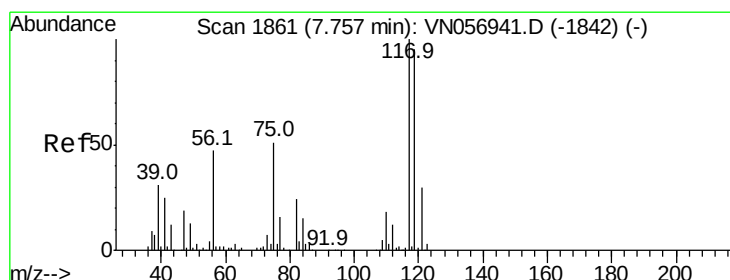
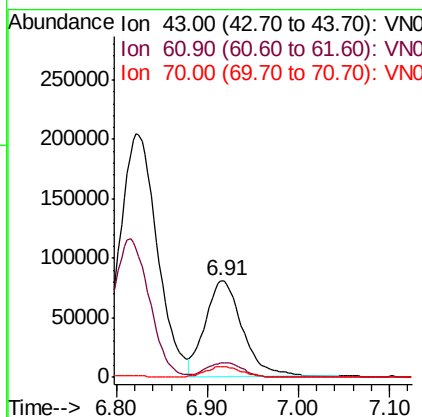
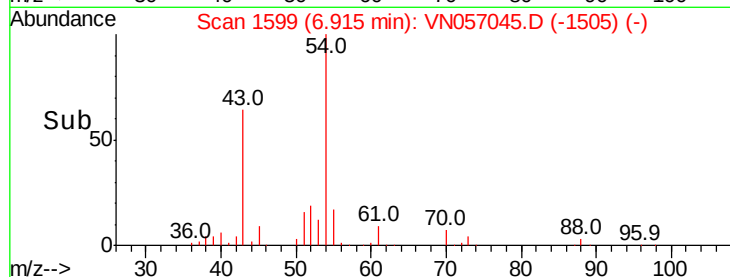
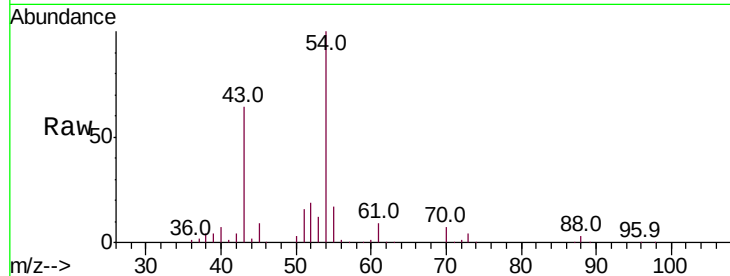
#37
Ethyl Acetate
Concen: 49.264 ug/l
RT: 6.91 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Instrument :
MSVOA_N
ClientSampled :
BP-VPB203-GW-498-500MS

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.5	11.8	17.6
70	11.1	8.5	12.7

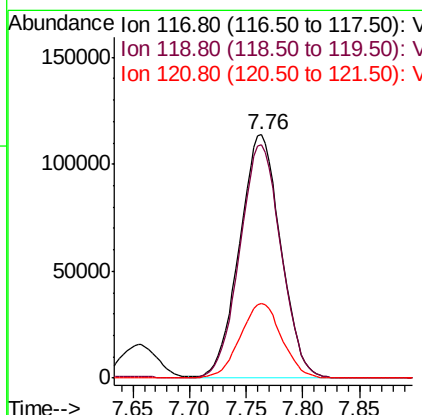
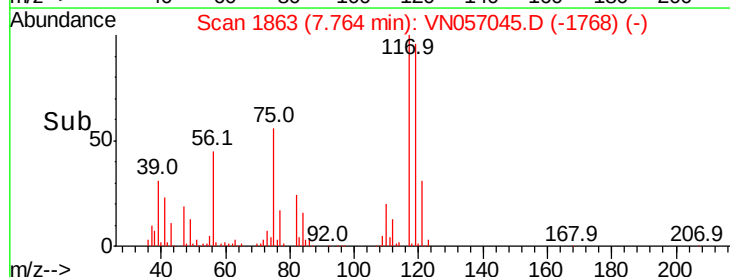
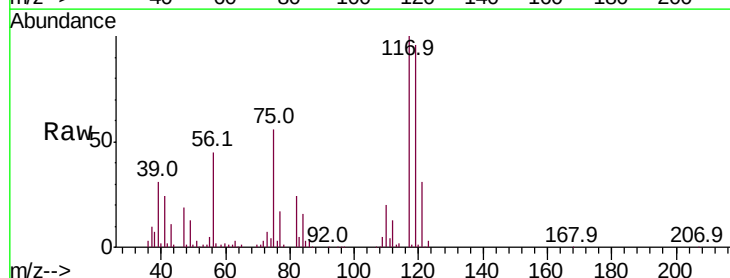
Manual Integrations
APPROVED

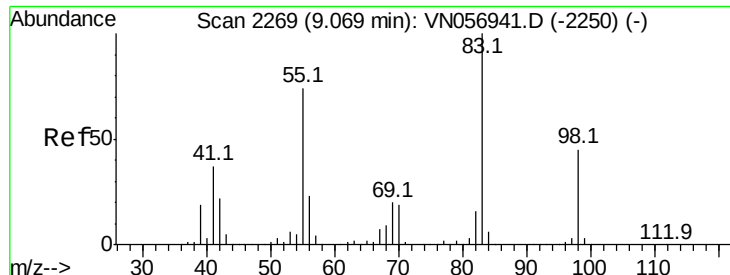
MMDadoda
8/2/2019 11:18:06 AM



#38
Carbon Tetrachloride
Concen: 52.449 ug/l
RT: 7.76 min Scan# 1863
Delta R.T. 0.01 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.0	75.3	112.9
121	30.7	24.2	36.4





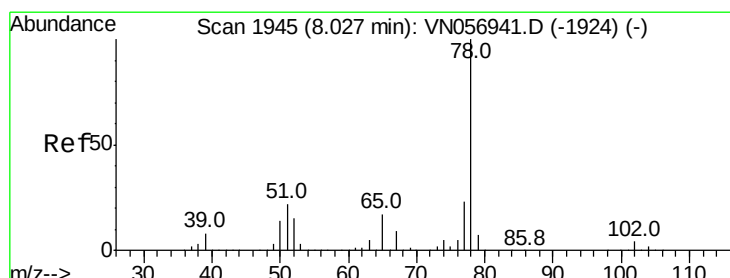
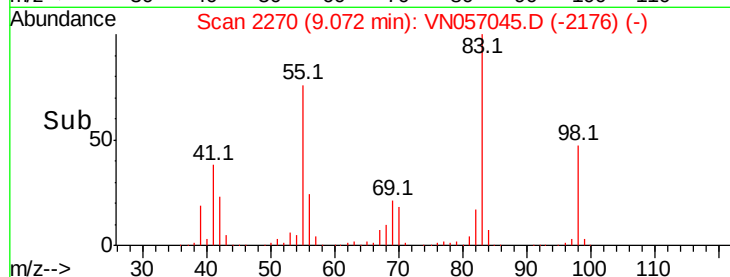
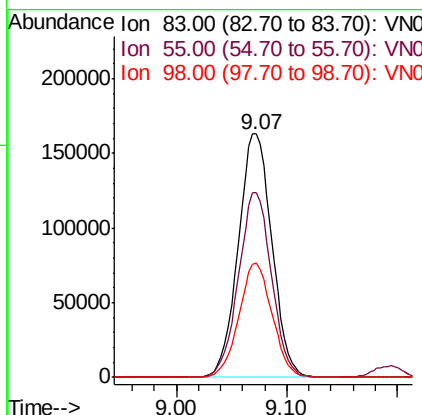
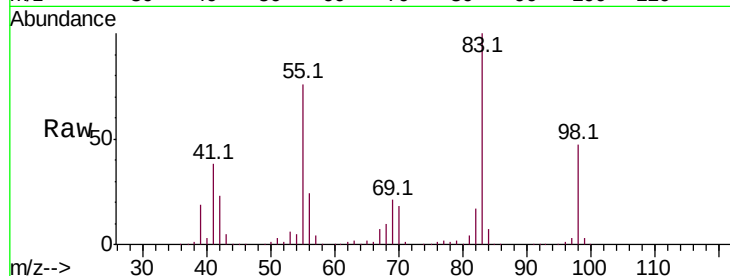
#39
Methylvlcyclohexane
Concen: 46.358 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-GW-498-500MS

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.9	59.0	88.6
98	46.8	36.2	54.4

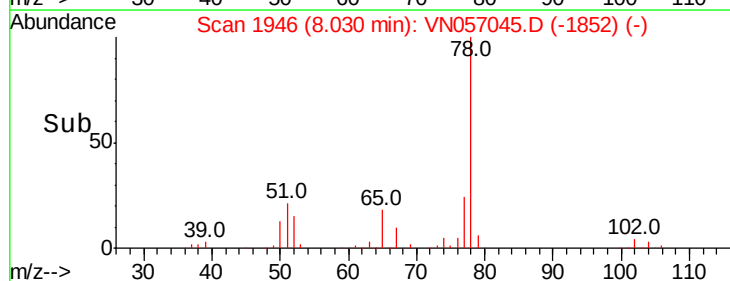
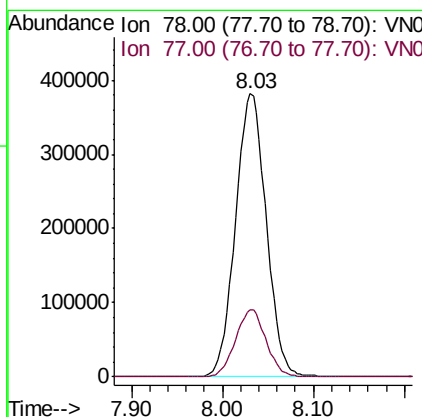
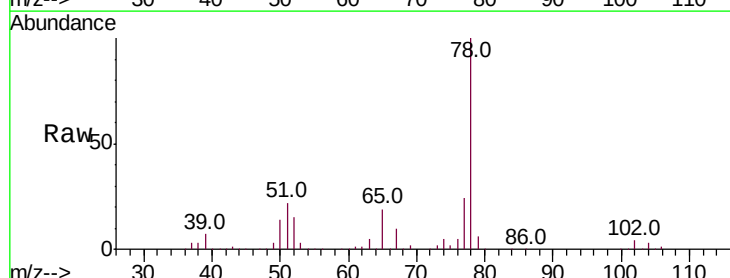
Manual Integrations
APPROVED

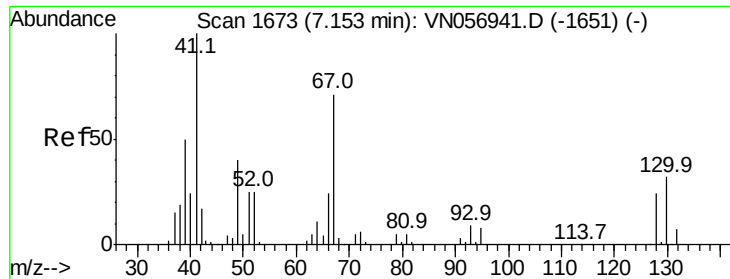
MMDadoda
8/2/2019 11:18:06 AM



#40
Benzene
Concen: 50.141 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.3	27.5





#41

Methacrylonitrile

Concen: 48.367 ug/l

RT: 7.16 min Scan# 1676

Delta R.T. 0.01 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion: 41 Resp: 104046

Ion Ratio Lower Upper

41 100

39 73.2 48.9 73.3

67 102.9 83.4 125.0

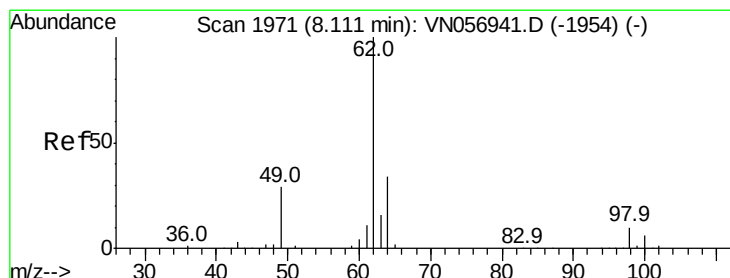
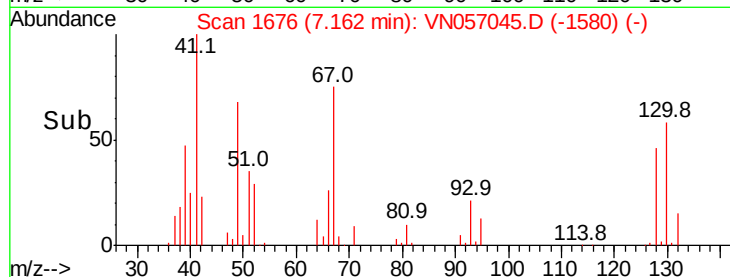
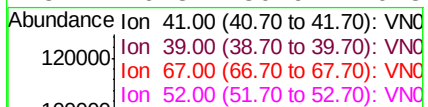
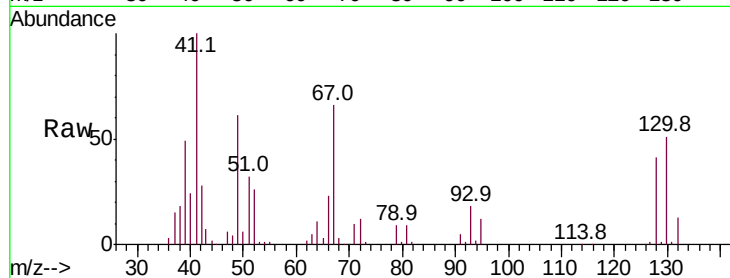
52 40.8 30.9 46.3

Manual Integrations

APPROVED

MMDadoda

8/2/2019 11:18:06 AM



#42

1,2-Dichloroethane

Concen: 51.561 ug/l

RT: 8.11 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VN057045.D

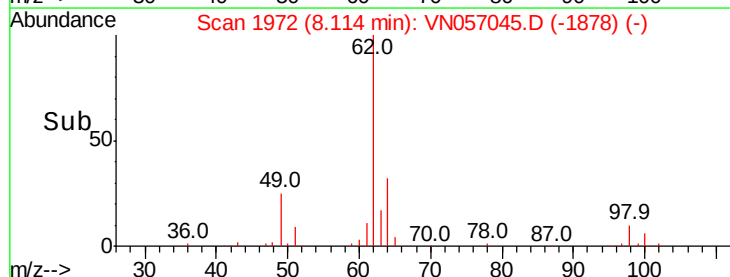
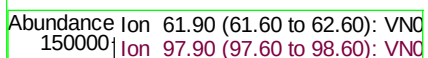
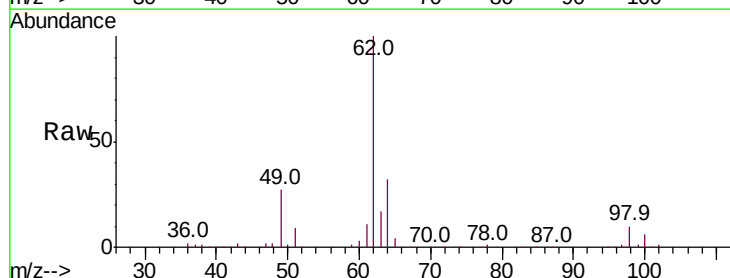
Acq: 1 Aug 2019 18:17

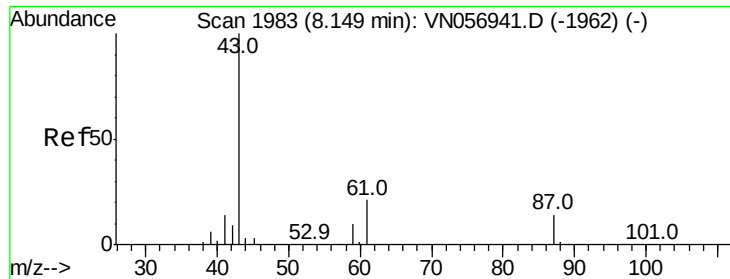
Tgt Ion: 62 Resp: 289180

Ion Ratio Lower Upper

62 100

98 10.0 0.0 20.6





#43

Isopropyl Acetate

Concen: 50.002 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

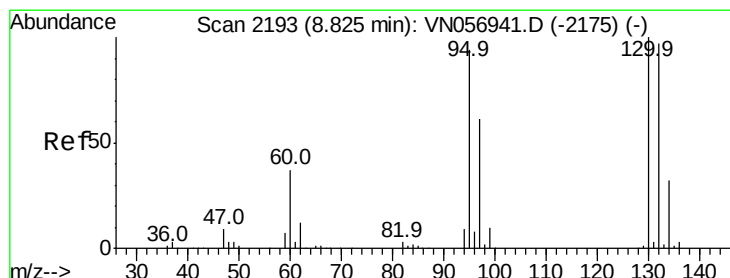
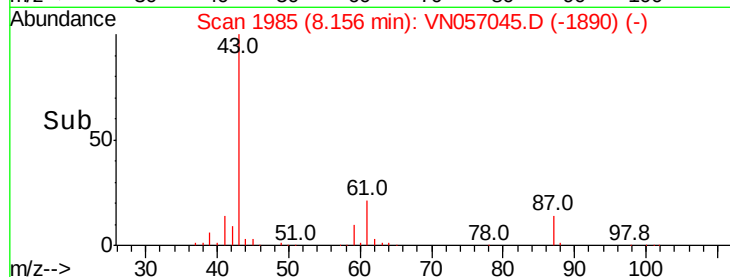
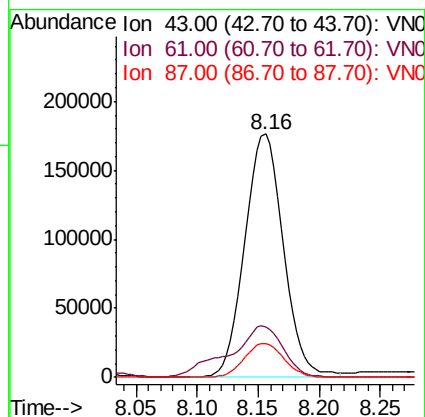
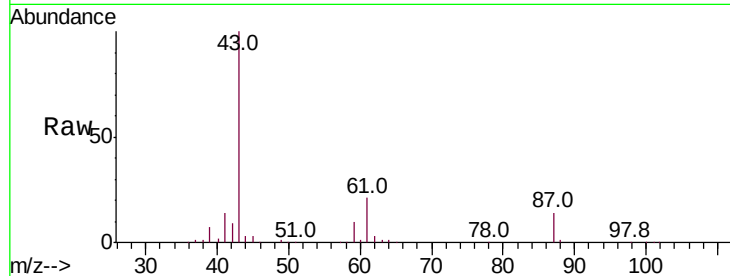
ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion:	43	Resp:	384571
Ion	Ratio	Lower	Upper
43	100		
61	29.1	23.0	34.6
87	14.3	11.7	17.5

Manual Integrations
APPROVED

MMDadoda
8/2/2019 11:18:06 AM



#44

Trichloroethene

Concen: 50.474 ug/l

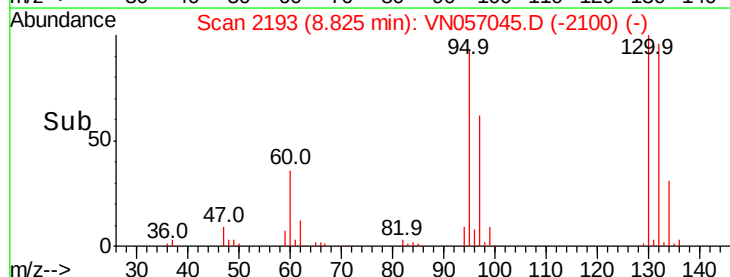
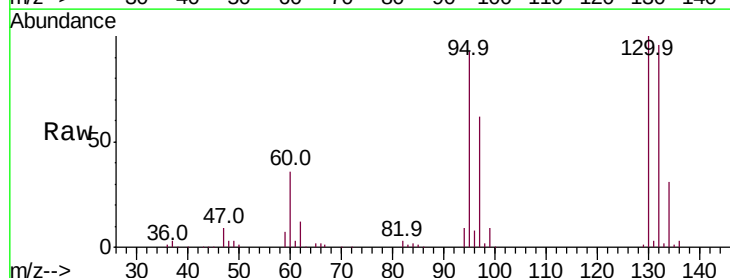
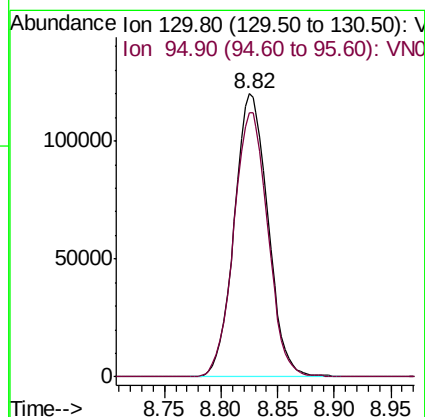
RT: 8.82 min Scan# 2193

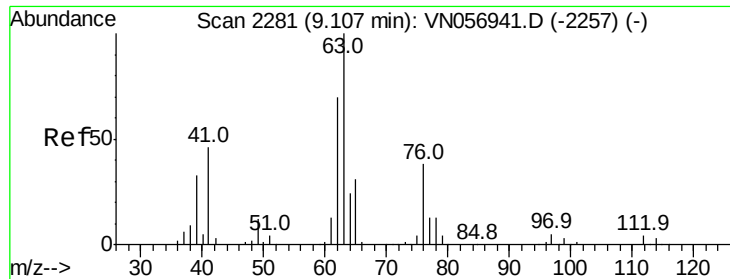
Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Tgt Ion:	130	Resp:	248844
Ion	Ratio	Lower	Upper
130	100		
95	93.2	0.0	189.0





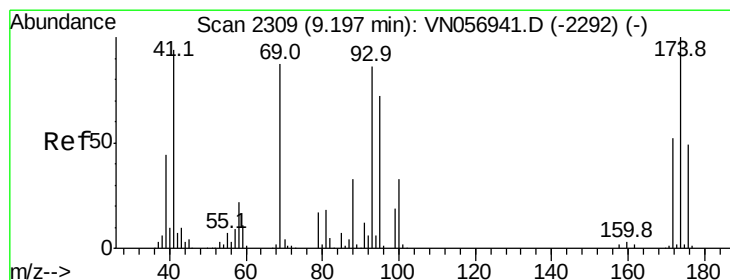
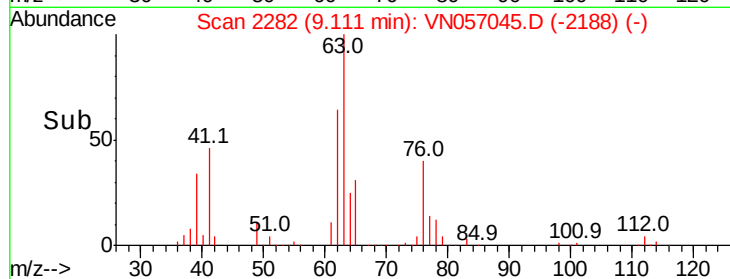
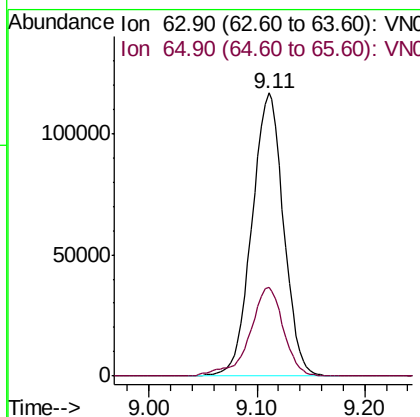
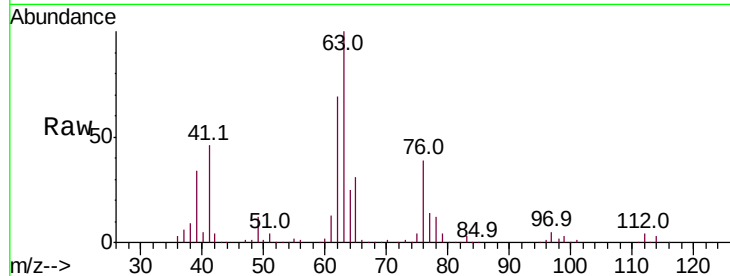
#45
 1,2-Dichloropropane
 Concen: 49.665 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-GW-498-500MS

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.8	37.2

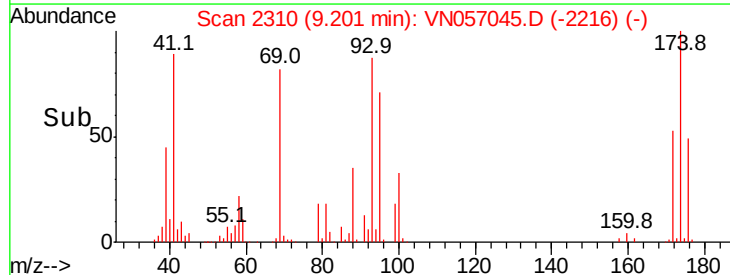
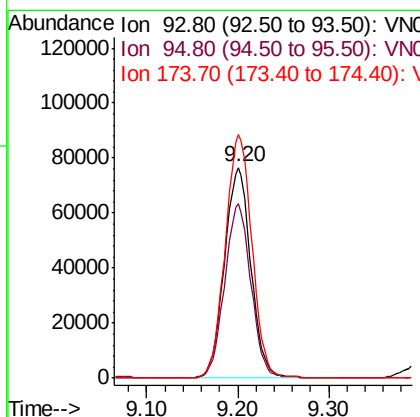
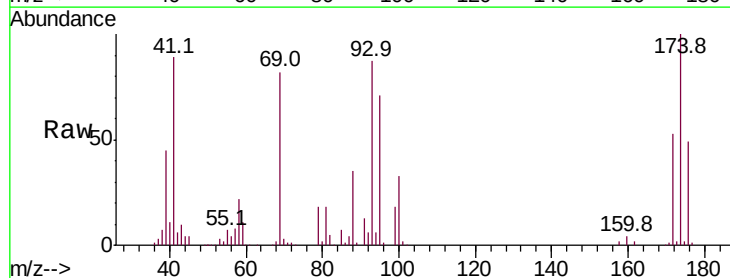
Manual Integrations
 APPROVED

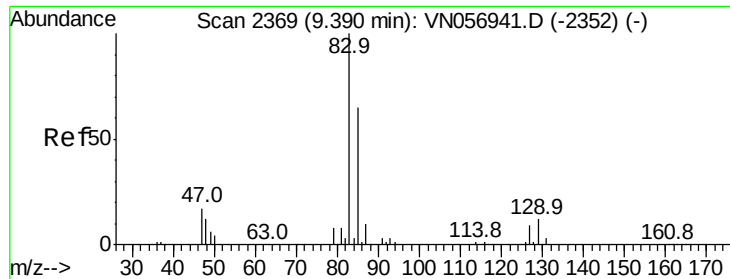
MMDadoda
 8/2/2019 11:18:06 AM



#46
 Dibromomethane
 Concen: 53.529 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.4	67.0	100.6
174	116.7	92.7	139.1





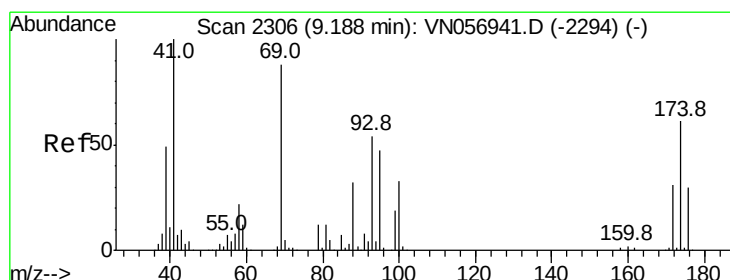
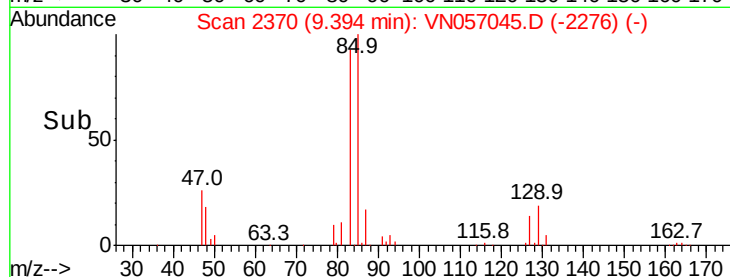
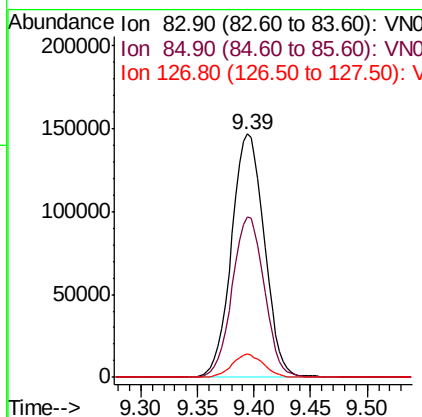
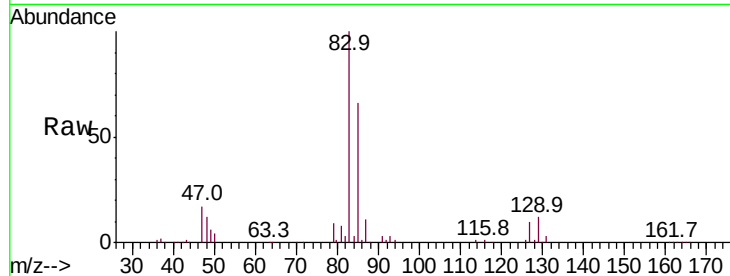
#47
Bromodichloromethane
Concen: 52.302 ug/l
RT: 9.39 min Scan# 2370
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-GW-498-500MS

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	65.8	51.6	77.4	
127	9.5	7.3	10.9	

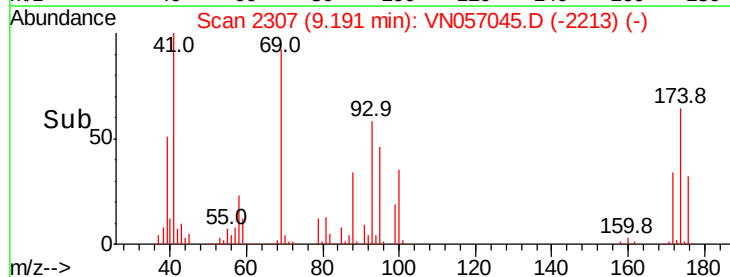
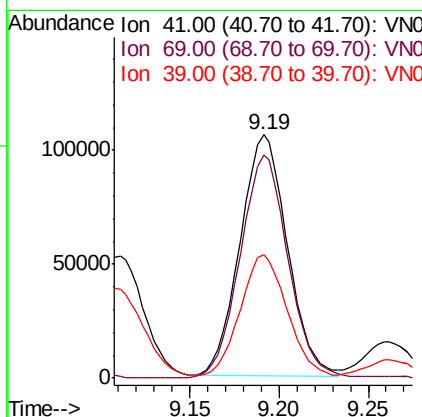
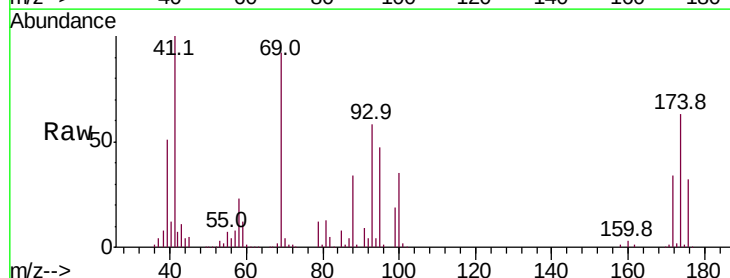
Manual Integrations
APPROVED

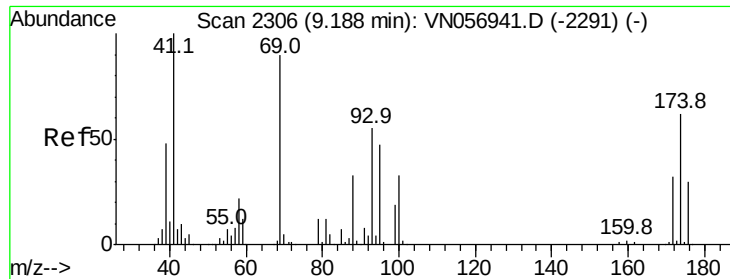
MMDadoda
8/2/2019 11:18:06 AM



#48
Methyl methacrylate
Concen: 52.669 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	94.8	73.4	110.0	
39	51.5	39.9	59.9	





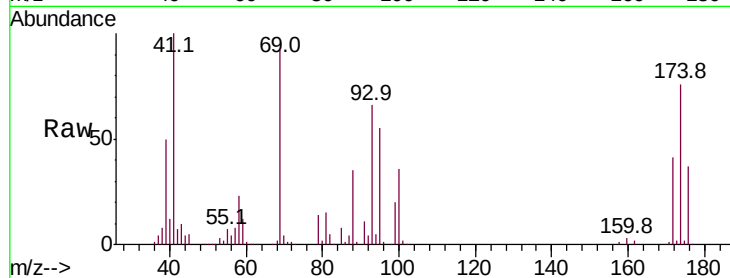
#49
1,4-Dioxane
Concen: 1086.459 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.01 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-GW-498-500MS

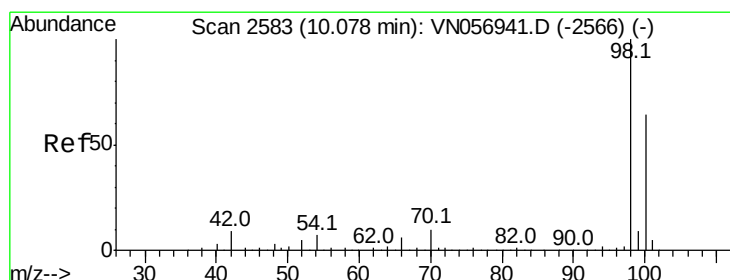
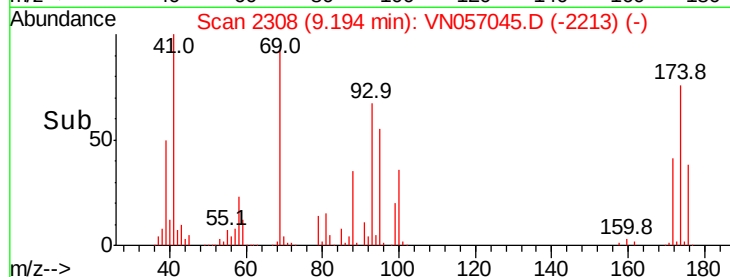
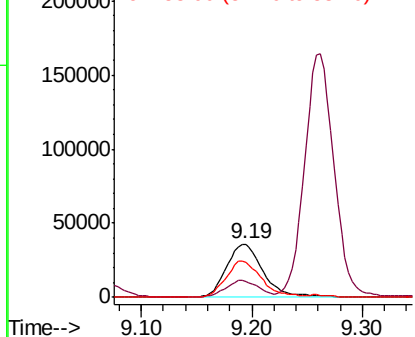
Tot Ion	Ratio	Lower	Upper
88	100		
43	26.8	22.2	33.2
58	66.0	54.1	81.1

Manual Integrations
APPROVED

MMDadoda
8/2/2019 11:18:06 AM

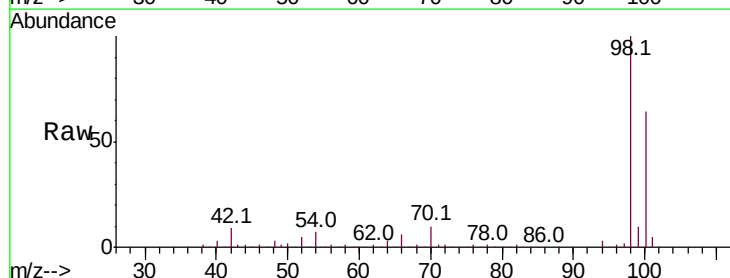


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

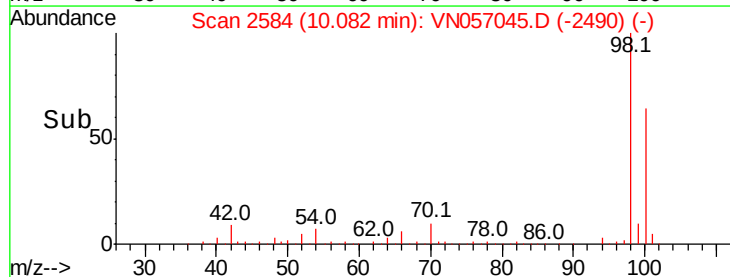
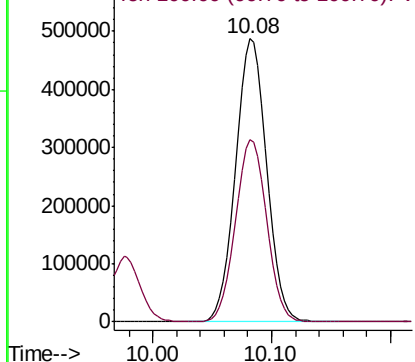


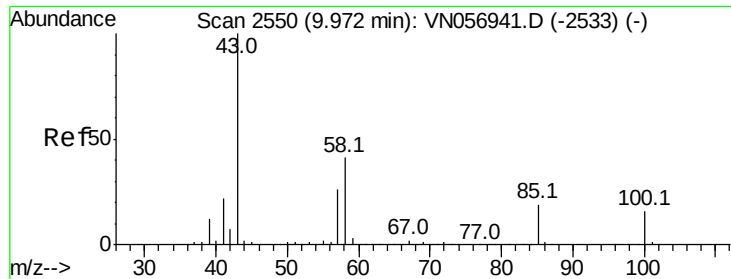
#50
Toluene-d8
Concen: 54.744 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.3	76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 262.970 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Tot Ion: 43 Resp: 1201726

Ion Ratio Lower Upper

43 100

58 41.2 33.1 49.7

Instrument :

MSVOA_N

ClientSampleId :

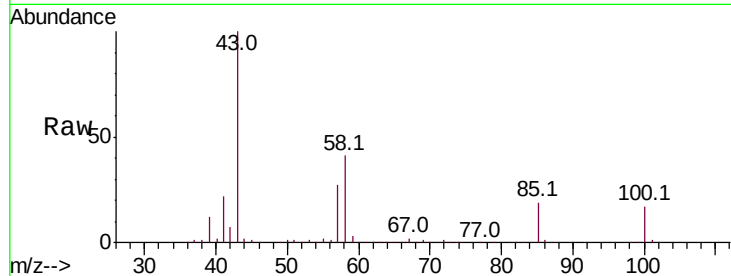
BP-VPB203-GW-498-500MS

Manual Integrations

APPROVED

MMDadoda

8/2/2019 11:18:06 AM



Abundance Ion 43.00 (42.70 to 43.70): VN056941.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN056941.D (-2533) (-)

9.98

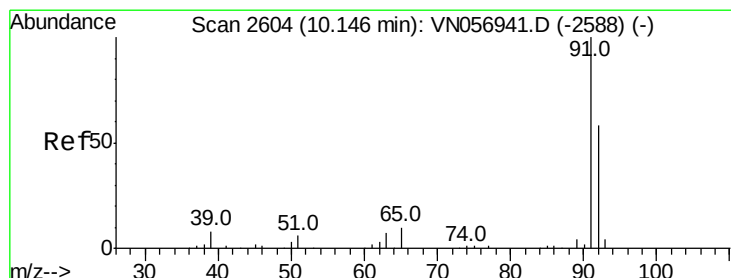
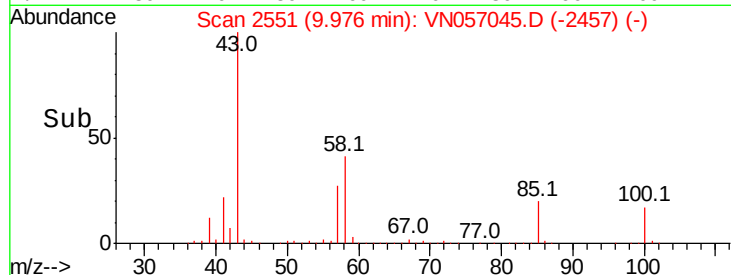
600000

400000

200000

0

Time-->



#52

Toluene

Concen: 51.170 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN057045.D

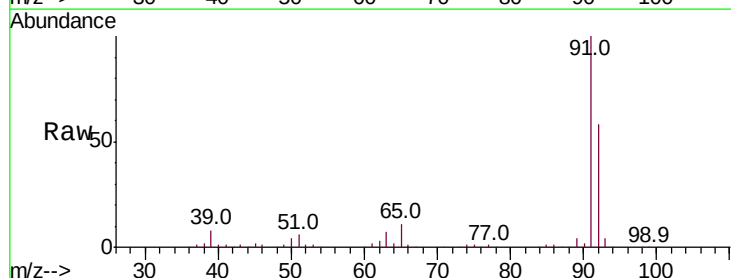
Acq: 1 Aug 2019 18:17

Tgt Ion: 92 Resp: 550158

Ion Ratio Lower Upper

92 100

91 174.0 138.0 207.0



Abundance Ion 92.00 (91.70 to 92.70): VN056941.D (-2588) (-)

Ion 91.00 (90.70 to 91.70): VN056941.D (-2588) (-)

10.15

600000

500000

400000

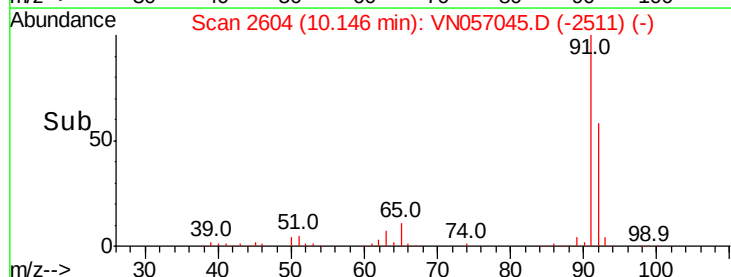
300000

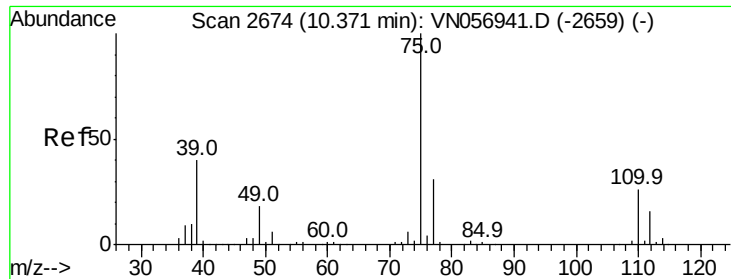
200000

100000

0

Time-->





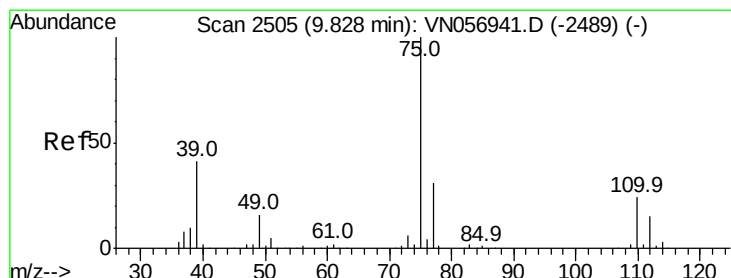
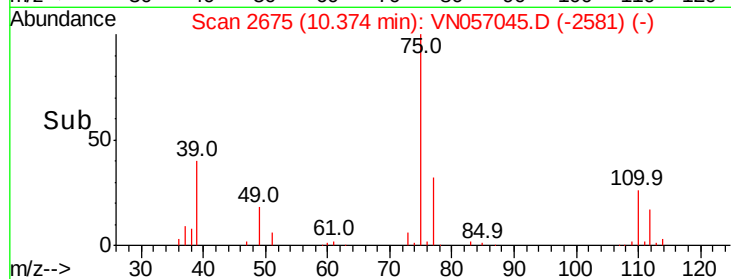
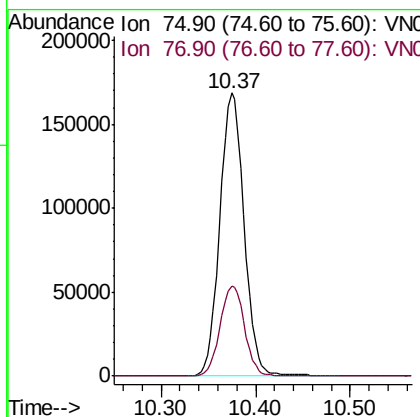
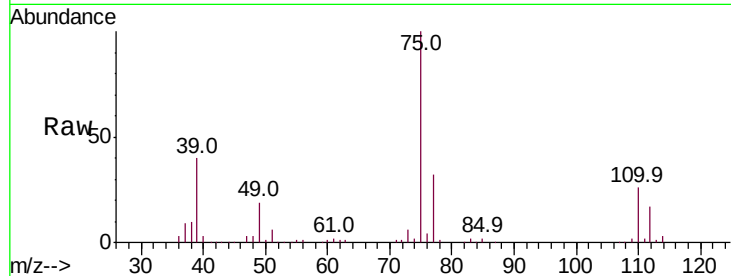
#53
 t-1,3-Dichloropropene
 Concen: 51.155 ug/l
 RT: 10.37 min Scan# 2675
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-GW-498-500MS

Tot Ion: 75 Resp: 301279
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.1 37.7

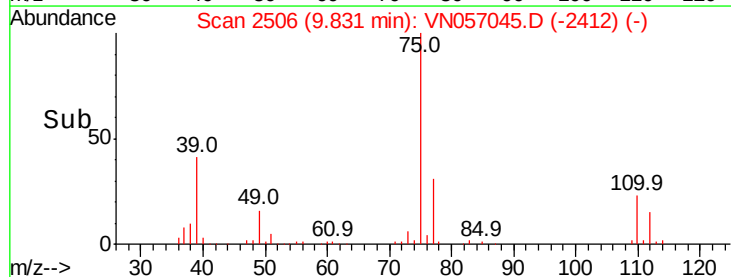
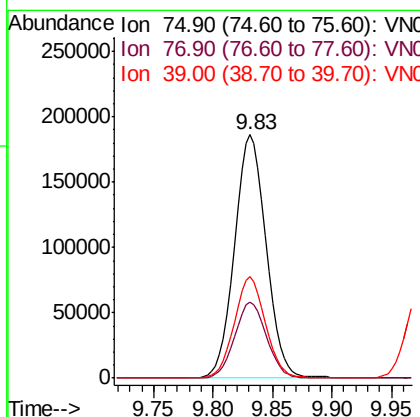
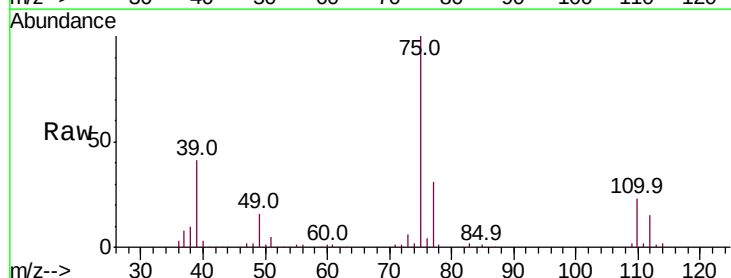
Manual Integrations
 APPROVED

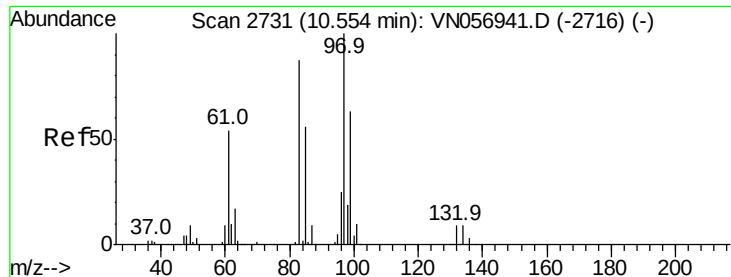
MMDadoda
 8/2/2019 11:18:06 AM



#54
 cis-1,3-Dichloropropene
 Concen: 50.080 ug/l
 RT: 9.83 min Scan# 2506
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Tgt Ion: 75 Resp: 342936
 Ion Ratio Lower Upper
 75 100
 77 31.3 25.0 37.6
 39 41.4 32.6 49.0





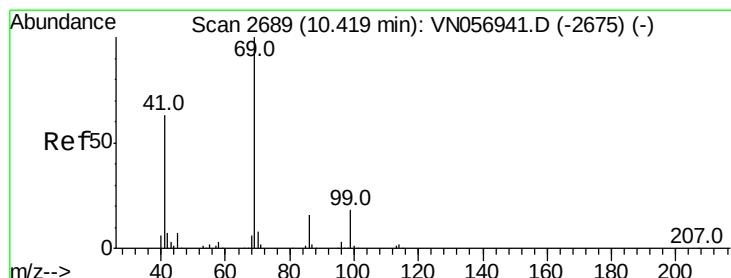
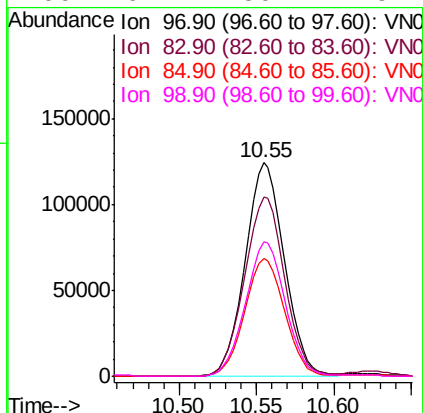
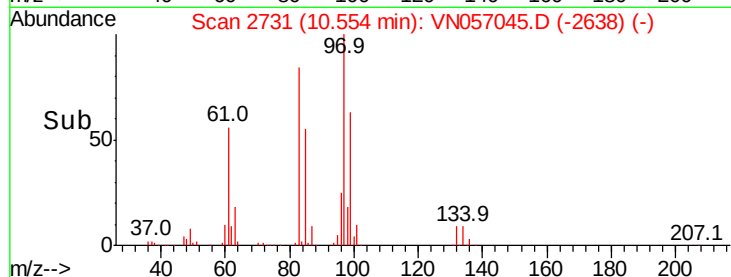
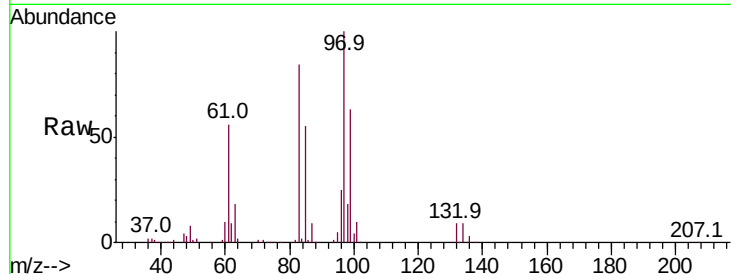
#55
 1,1,2-Trichloroethane
 Concen: 50.895 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-GW-498-500MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		219448		
83	83.9	69.4	104.0		
85	55.1	44.7	67.1		
99	62.7	50.1	75.1		

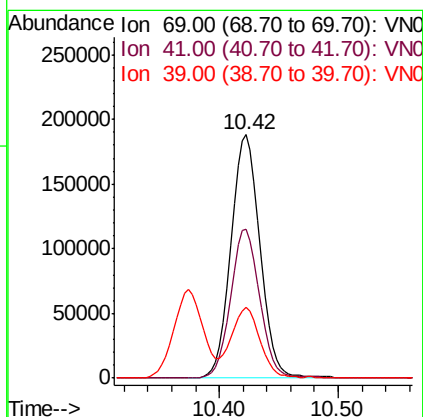
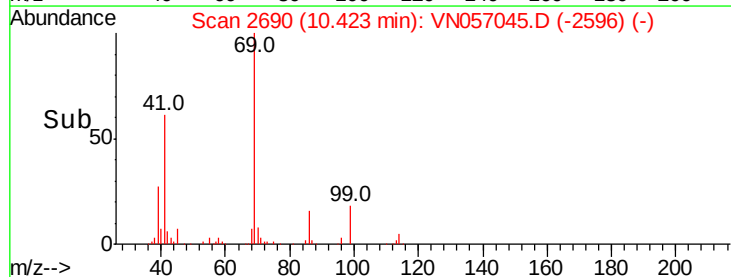
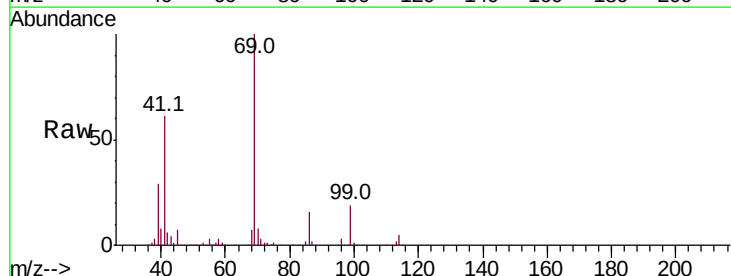
Manual Integrations
 APPROVED

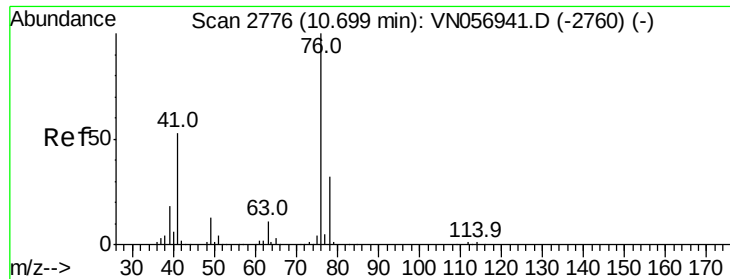
MMDadoda
 8/2/2019 11:18:06 AM



#56
 Ethyl methacrylate
 Concen: 49.020 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		318963		
41	60.5	49.2	73.8		
39	27.9	23.1	34.7		





#57

1,3-Dichloropropane

Concen: 51.501 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion: 76 Resp: 368226

Ion Ratio Lower Upper

76 100

78 32.0

25.9

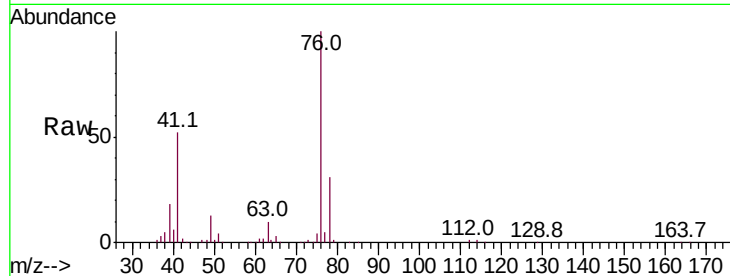
38.9

Manual Integrations

APPROVED

MMDadoda

8/2/2019 11:18:06 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

200000

150000

100000

50000

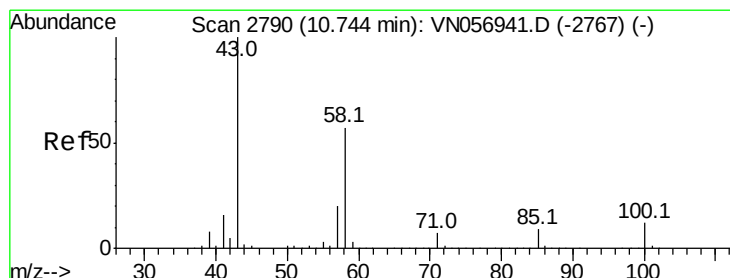
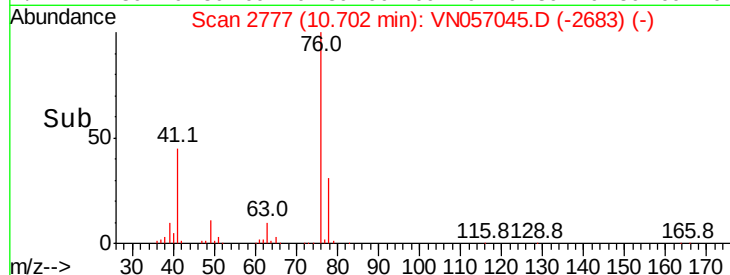
0

10.60

10.70

10.80

Time-->



#59

2-Hexanone

Concen: 240.843 ug/l

RT: 10.74 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Tgt Ion: 43 Resp: 847248

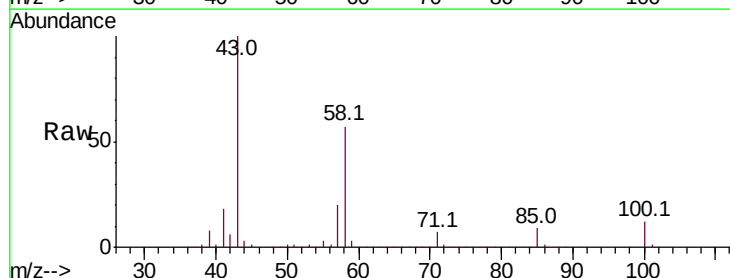
Ion Ratio Lower Upper

43 100

58 57.3

28.5

85.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

500000

400000

300000

200000

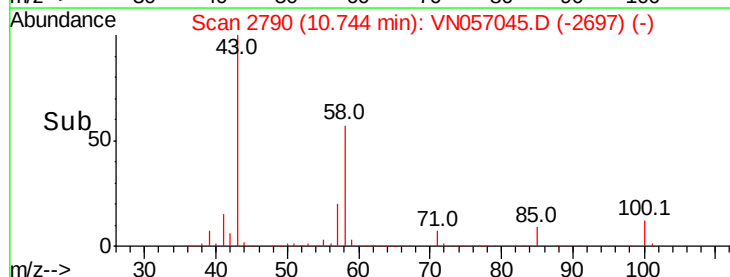
100000

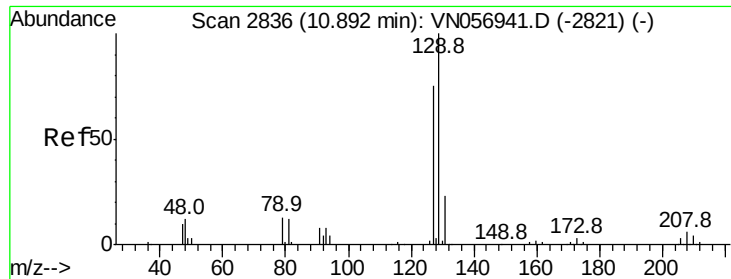
0

10.70

10.80

Time-->





#60

Dibromochloromethane

Concen: 54.179 ug/l

RT: 10.90 min Scan# 2837

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion:129 Resp: 239332

Ion Ratio Lower Upper

129 100

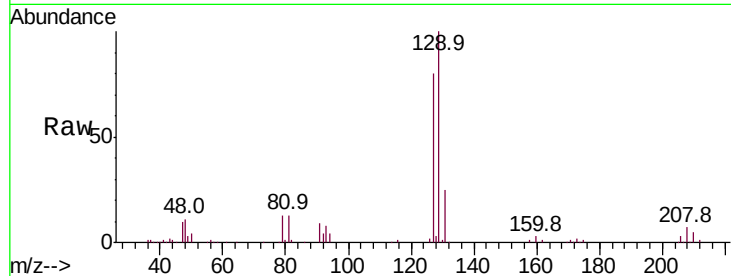
127 78.2 38.0 113.9

Manual Integrations

APPROVED

MMDadoda

8/2/2019 11:18:06 AM



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.90

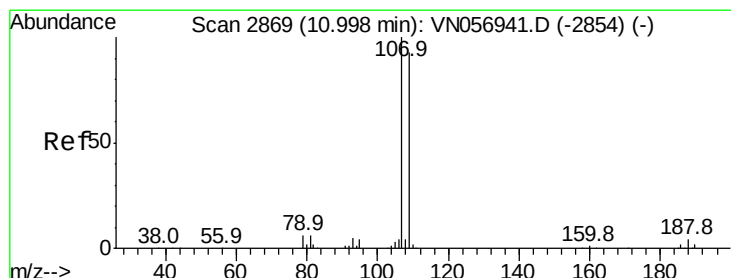
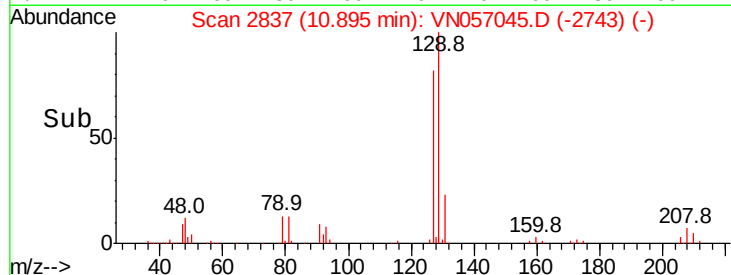
150000

100000

50000

0

Time-->



#61

1,2-Dibromoethane

Concen: 54.903 ug/l

RT: 11.00 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VN057045.D

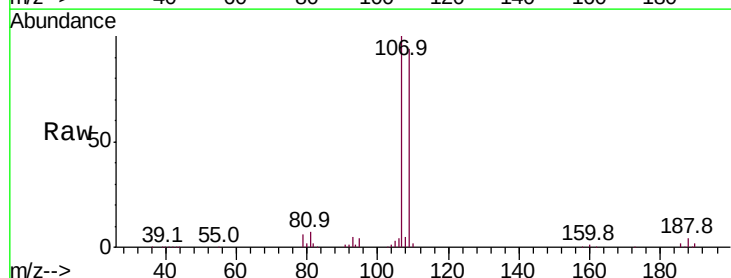
Acq: 1 Aug 2019 18:17

Tgt Ion:107 Resp: 231019

Ion Ratio Lower Upper

107 100

109 93.3 76.0 114.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

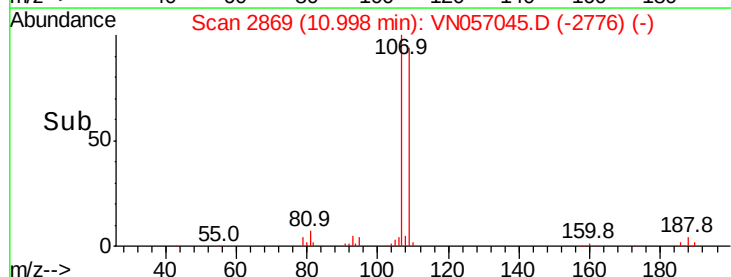
150000

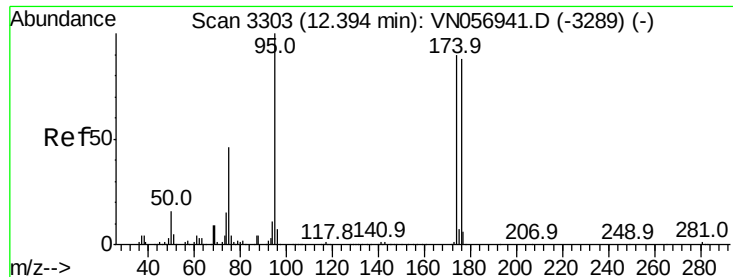
100000

50000

0

Time-->





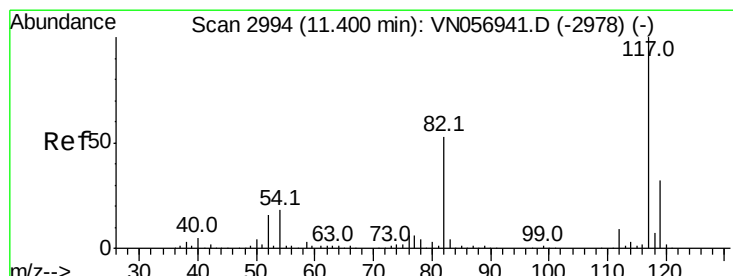
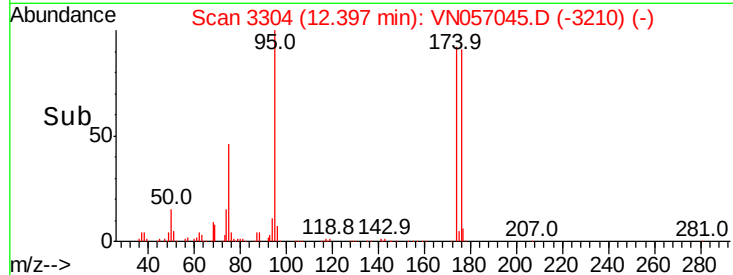
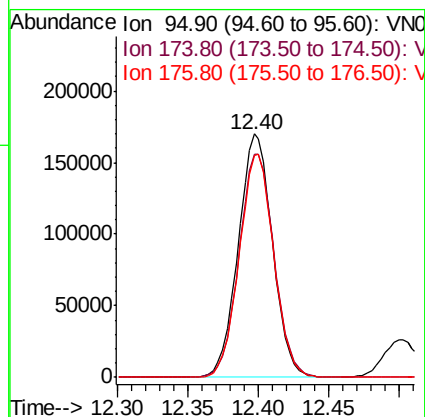
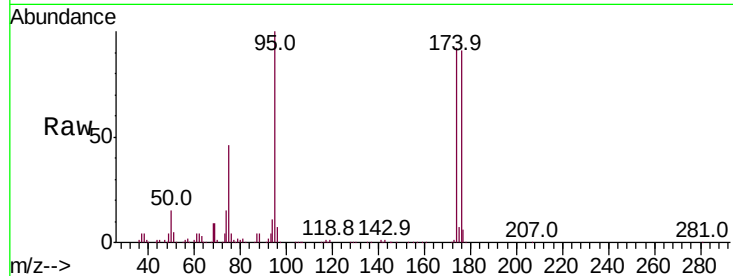
#62
4-Bromofluorobenzene
Concen: 55.001 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-GW-498-500MS

Tot Ion	Ratio	Resp	Lower	Upper
95	100	288621		
174	93.9	0.0	182.2	
176	92.3	0.0	179.4	

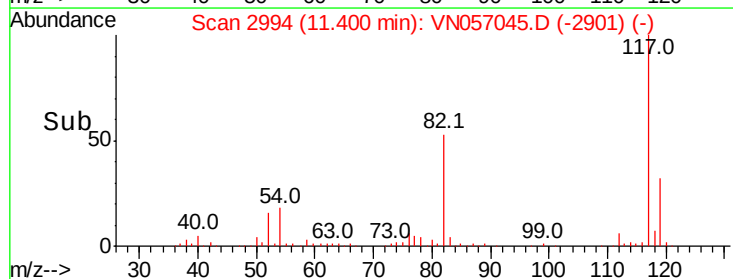
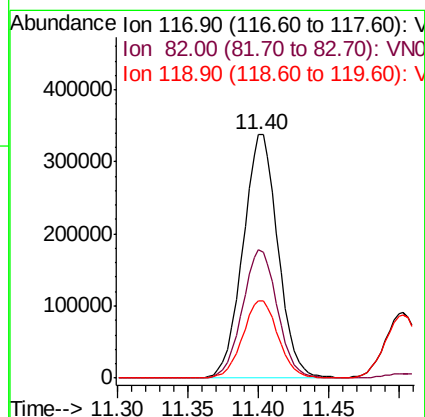
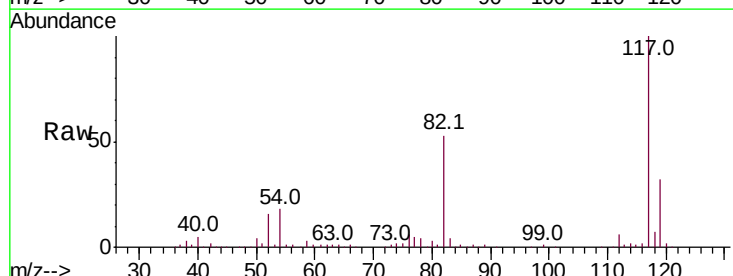
Manual Integrations
APPROVED

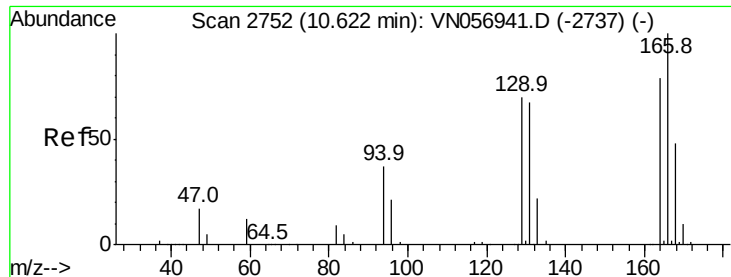
MMDadoda
8/2/2019 11:18:06 AM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	586879		
82	52.5	42.2	63.4	
119	31.9	25.8	38.6	





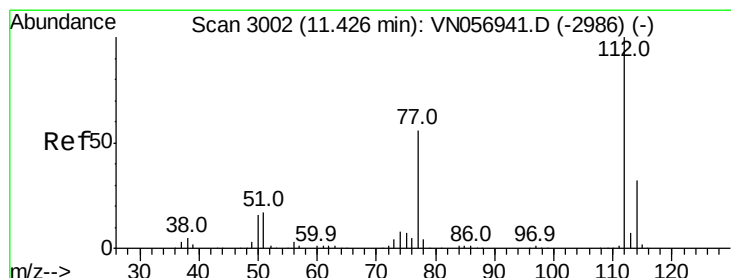
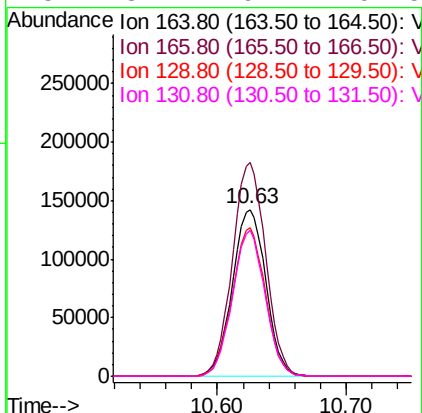
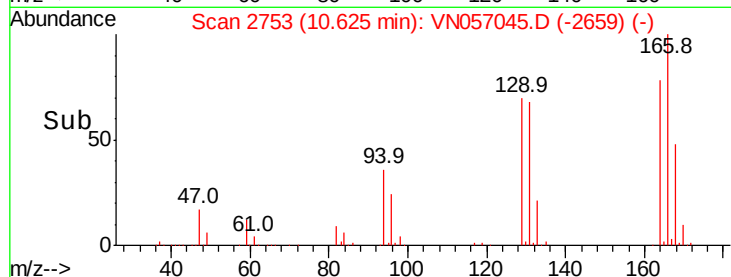
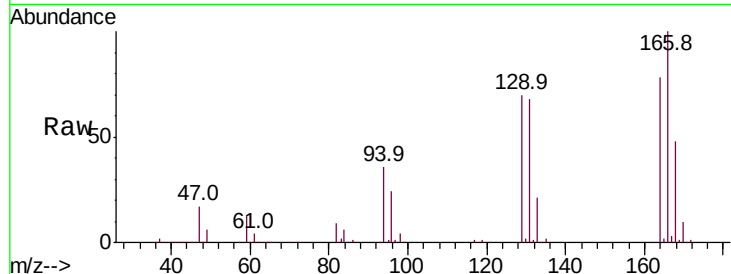
#64
Tetrachloroethene
Concen: 50.799 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-GW-498-500MS

Tot Ion	Ratio	Lower	Upper
164	100		
166	127.9	101.1	151.7
129	89.0	70.9	106.3
131	87.2	67.7	101.5

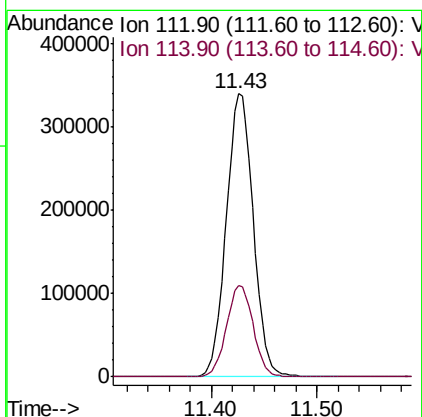
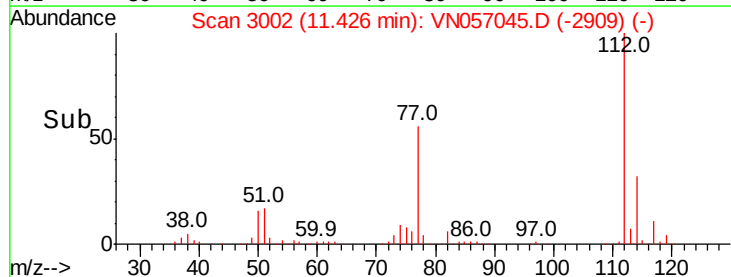
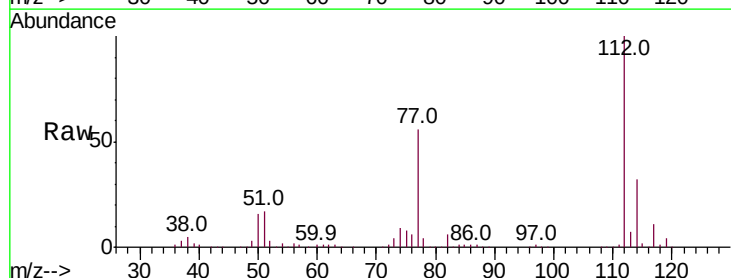
Manual Integrations
APPROVED

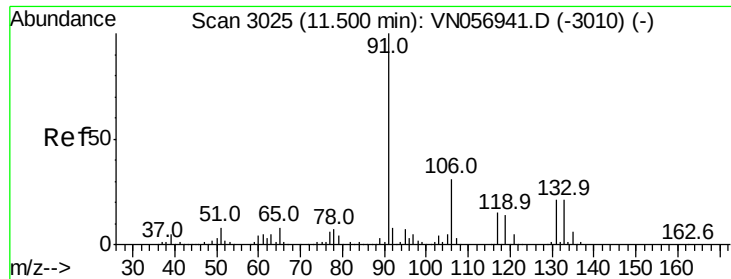
MMDadoda
8/2/2019 11:18:06 AM



#65
Chlorobenzene
Concen: 50.184 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	26.0	39.0





#66

1,1,1,2-Tetrachloroethane

Concen: 51.942 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

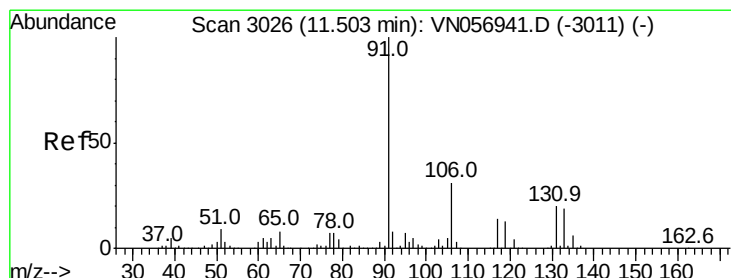
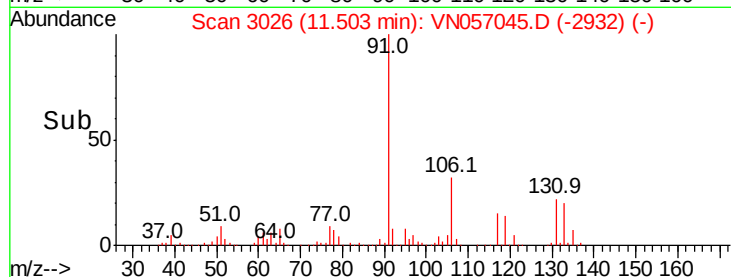
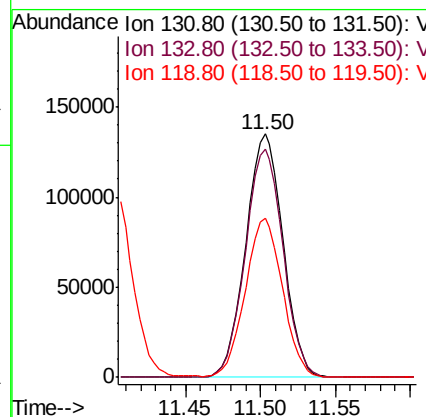
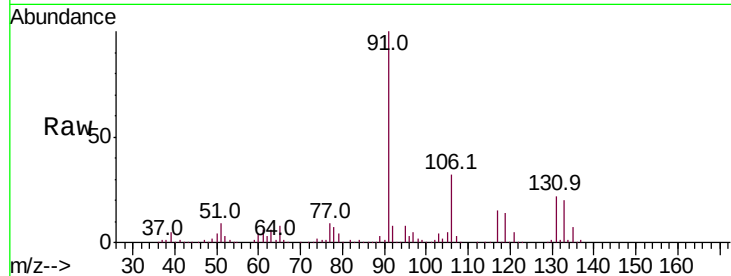
ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion:	131	Resp:	233847
Ion Ratio	Lower	Upper	
131	100		
133	95.2	48.0	144.0
119	65.5	33.2	99.6

Manual Integrations
APPROVED

MMDadoda
8/2/2019 11:18:06 AM



#67

Ethyl Benzene

Concen: 50.298 ug/l

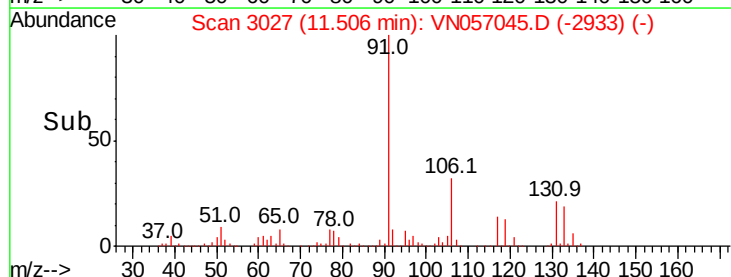
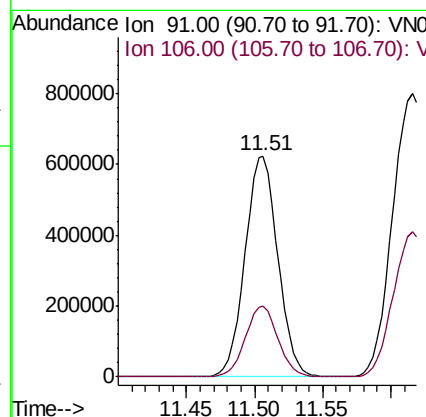
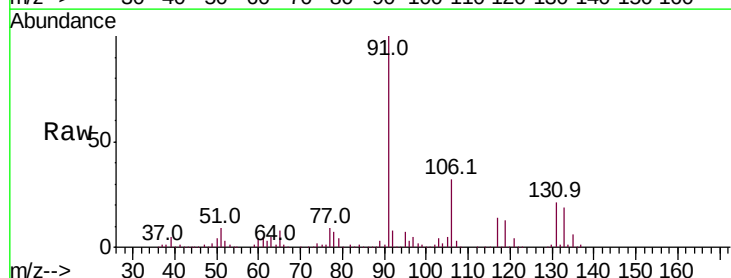
RT: 11.51 min Scan# 3027

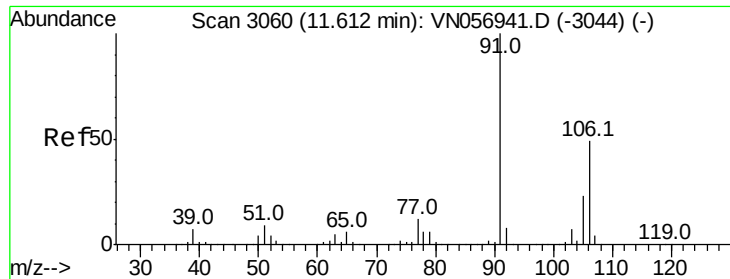
Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Tgt Ion:	91	Resp:	1039806
Ion Ratio	Lower	Upper	
91	100		
106	32.1	25.1	37.7





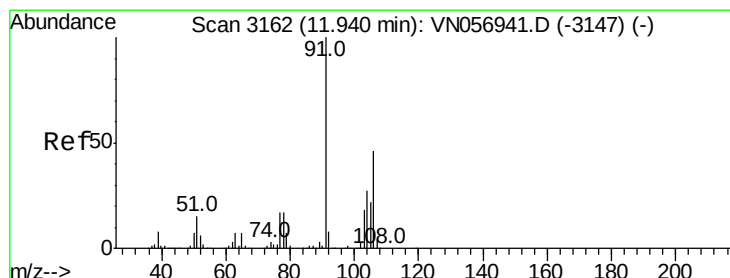
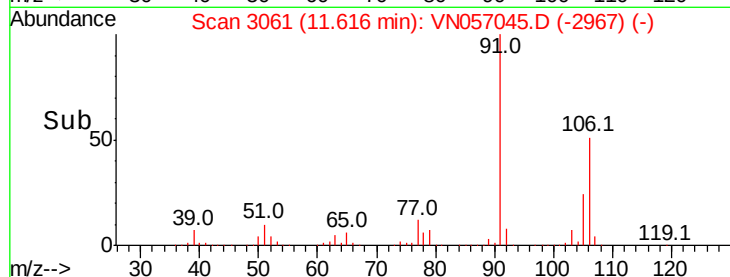
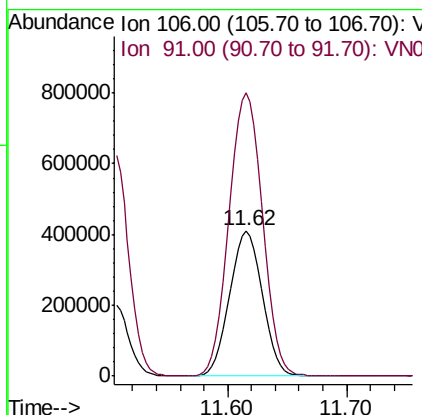
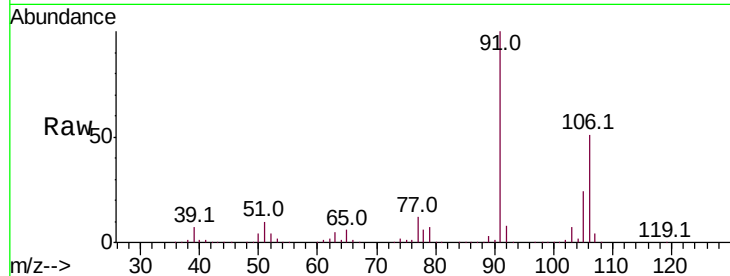
#68
m/p-Xylenes
Concen: 102.978 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-GW-498-500MS

Tot Ion:106 Resp: 785673
Ion Ratio Lower Upper
106 100
91 199.2 160.0 240.0

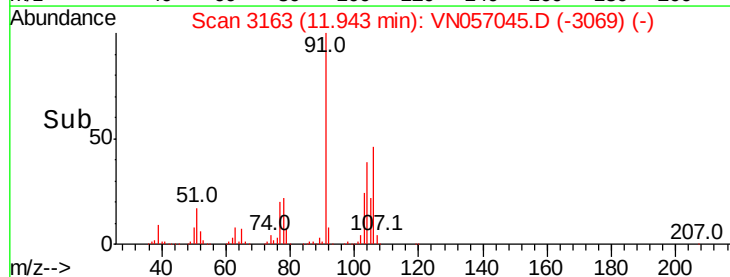
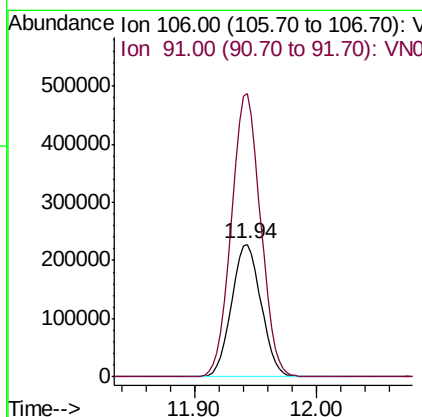
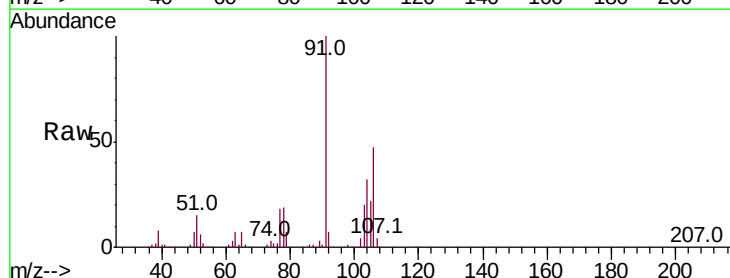
Manual Integrations
APPROVED

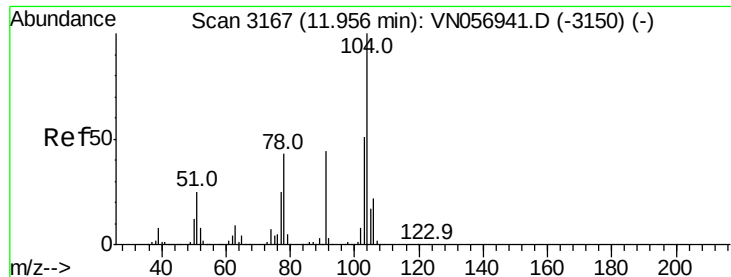
MMDadoda
8/2/2019 11:18:06 AM



#69
o-Xylene
Concen: 51.487 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Tgt Ion:106 Resp: 384315
Ion Ratio Lower Upper
106 100
91 211.3 106.2 318.6





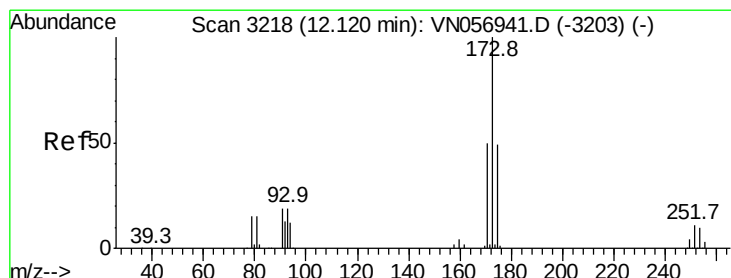
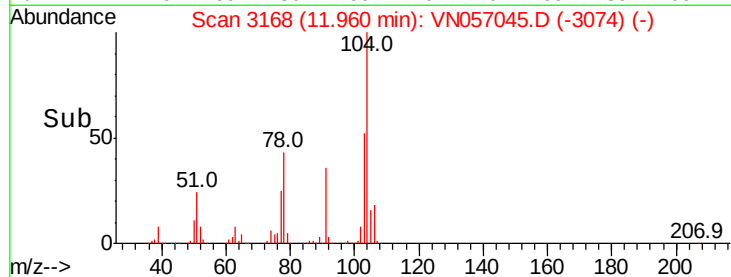
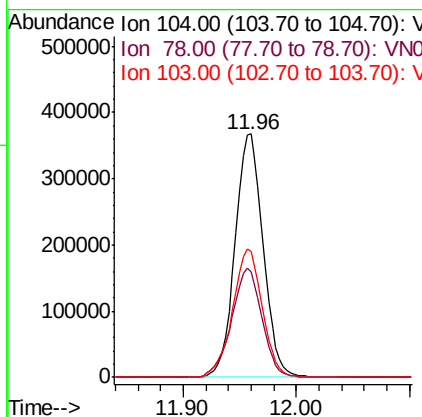
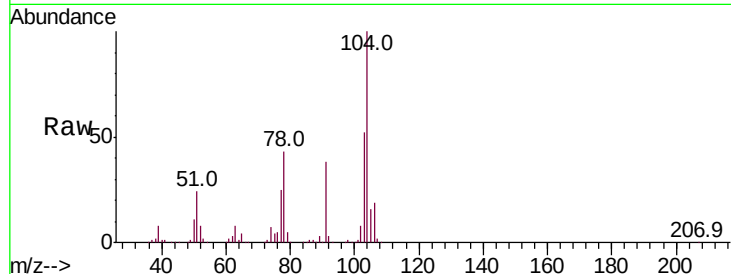
#70
Stvrene
Concen: 48.189 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-GW-498-500MS

Tot Ion	Ratio	Resp	Lower	Upper
104	100	634850		
78	48.4		38.1	57.1
103	56.1		44.3	66.5

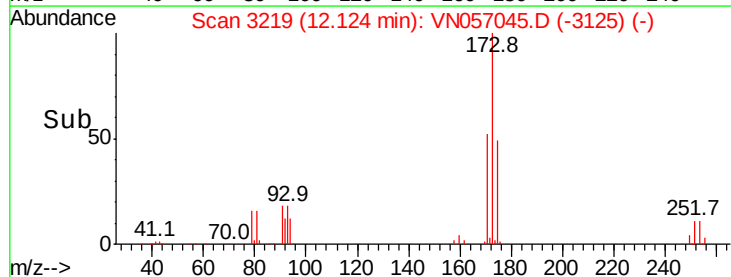
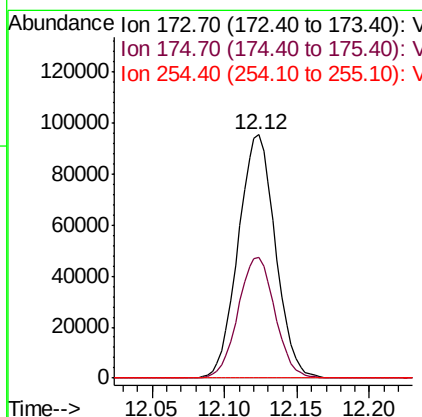
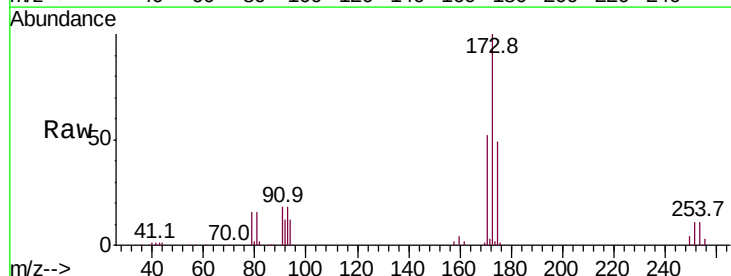
Manual Integrations
APPROVED

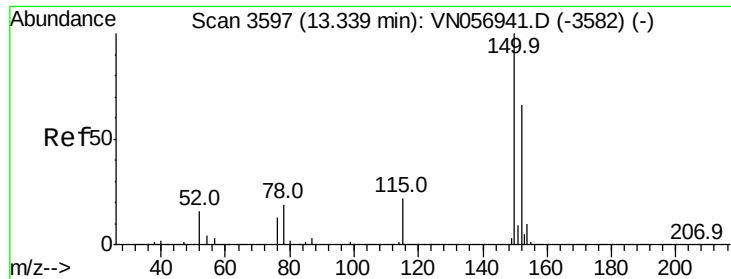
MMDadoda
8/2/2019 11:18:06 AM



#71
Bromoform
Concen: 54.218 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	170418		
175	49.2		24.1	72.4
254	0.1		0.1	0.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion:152 Resp: 248058

Ion Ratio Lower Upper

152 100

115 55.4 28.2 84.6

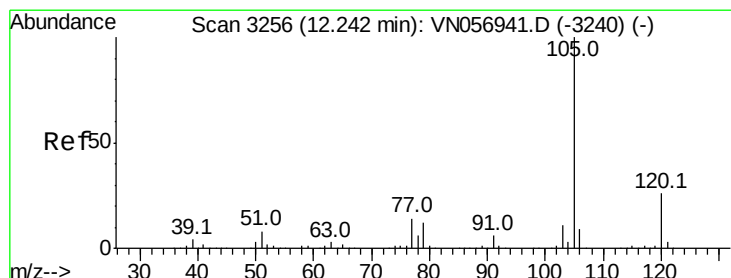
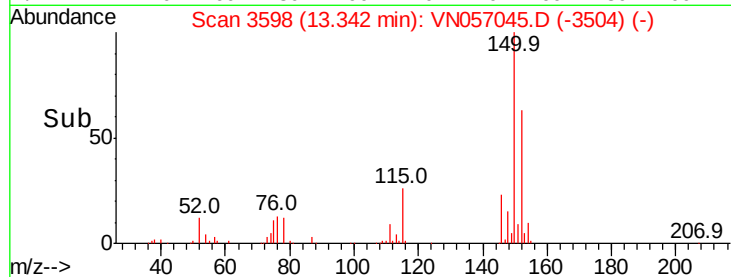
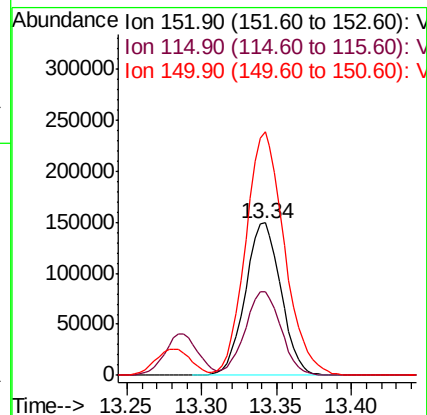
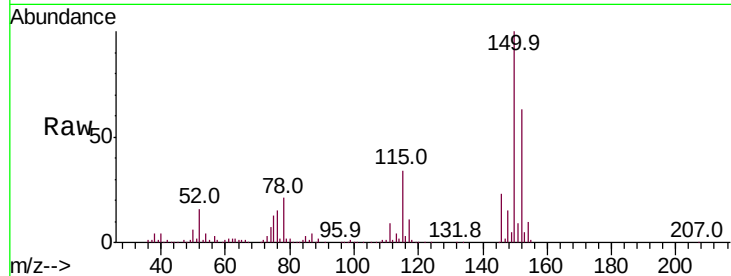
150 173.4 0.0 349.4

Manual Integrations

APPROVED

MMDadoda

8/2/2019 11:18:06 AM



#73

Isopropylbenzene

Concen: 47.694 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN057045.D

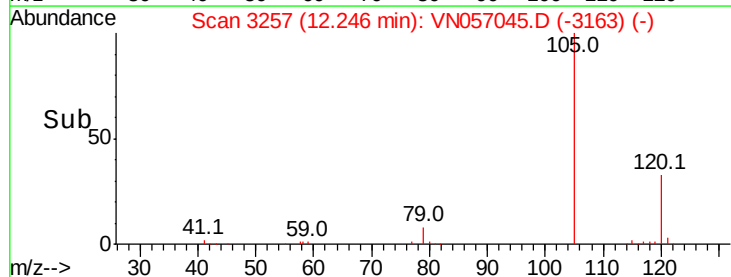
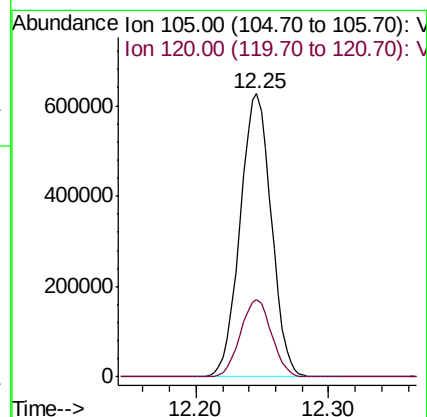
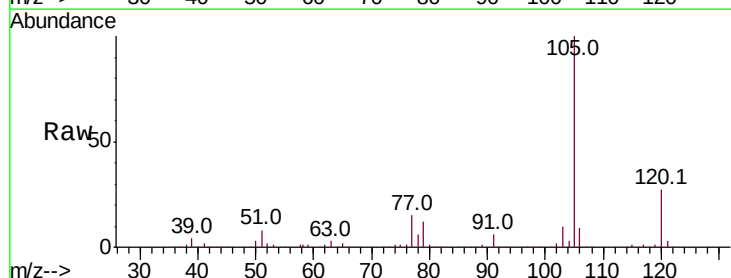
Acq: 1 Aug 2019 18:17

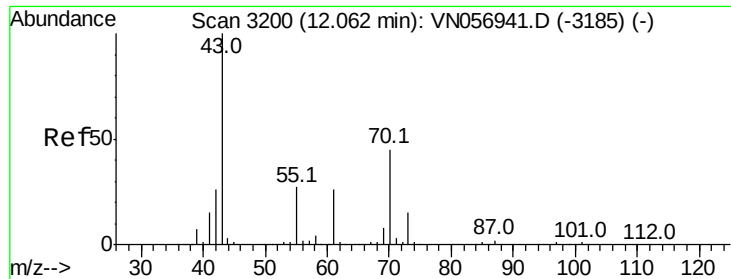
Tgt Ion:105 Resp: 1022468

Ion Ratio Lower Upper

105 100

120 27.4 13.5 40.5





#74

N-amvl acetate

Concen: 47.400 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

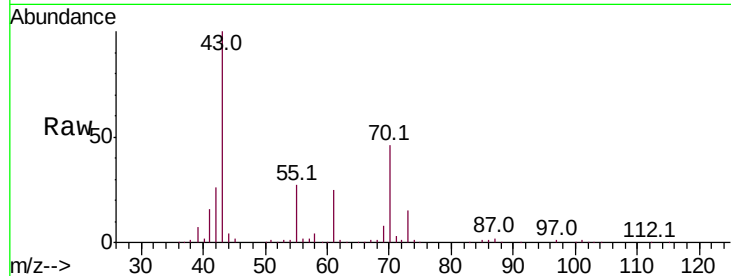
ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion	43	Resp	295059
Ion Ratio	Lower	Upper	
43	100		
70	45.9	36.5	54.7
55	26.9	21.4	32.0
61	25.1	20.5	30.7

Manual Integrations
APPROVED

MMDadoda
8/2/2019 11:18:06 AM

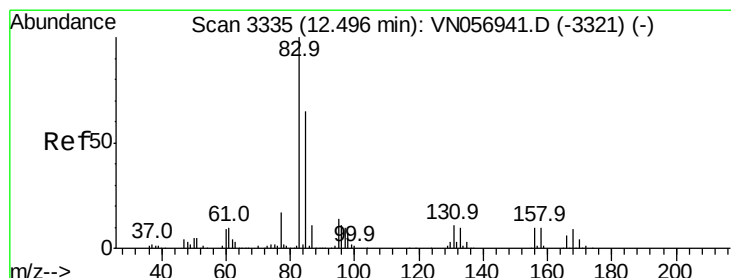
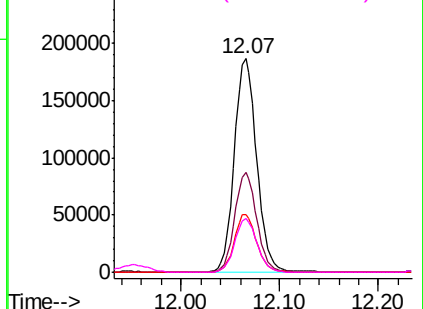
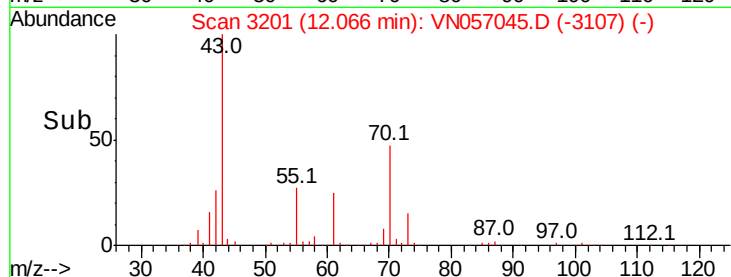


Abundance Ion 43.00 (42.70 to 43.70): VN056941.D (-3185) (-)

Ion 70.00 (69.70 to 70.70): VN056941.D (-3185) (-)

Ion 55.00 (54.70 to 55.70): VN056941.D (-3185) (-)

Ion 61.00 (60.70 to 61.70): VN056941.D (-3185) (-)



#75

1,1,2,2-Tetrachloroethane

Concen: 53.114 ug/l

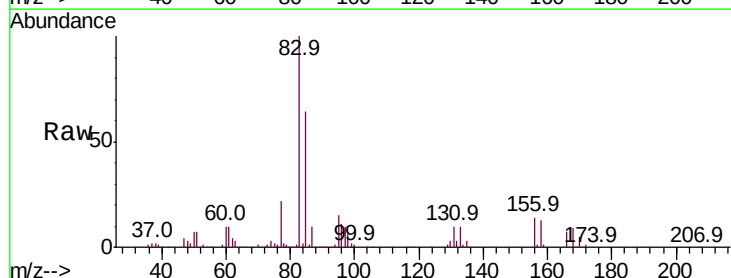
RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

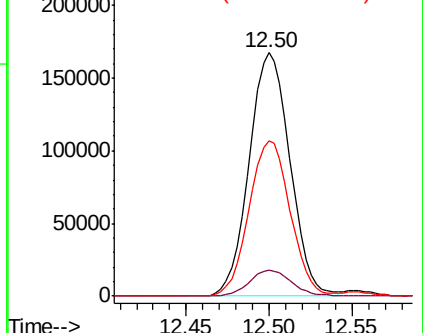
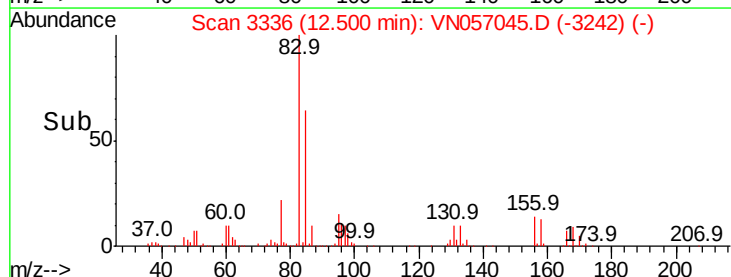
Tgt Ion	83	Resp	286949
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.3	16.1
85	64.3	32.5	97.4

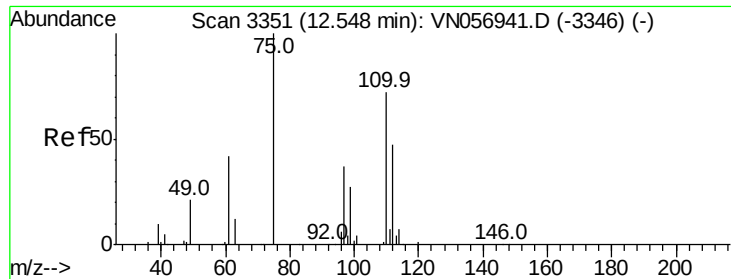


Abundance Ion 82.90 (82.60 to 83.60): VN056941.D (-3321) (-)

Ion 130.80 (130.50 to 131.50): VN056941.D (-3321) (-)

Ion 84.90 (84.60 to 85.60): VN056941.D (-3321) (-)





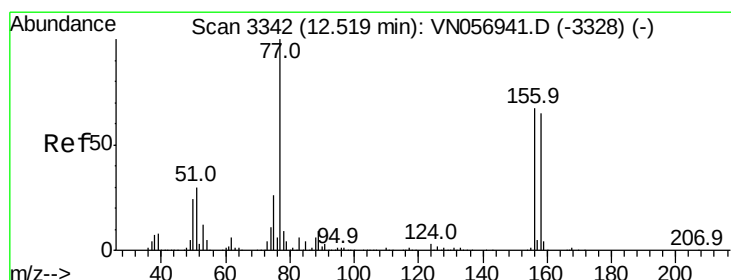
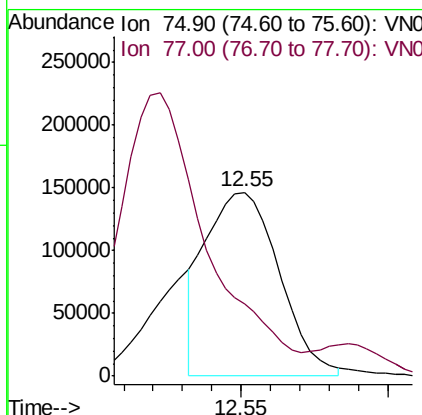
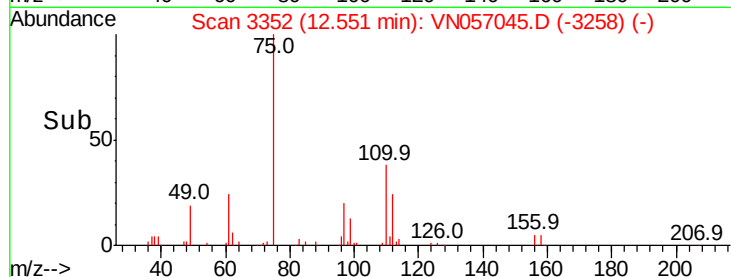
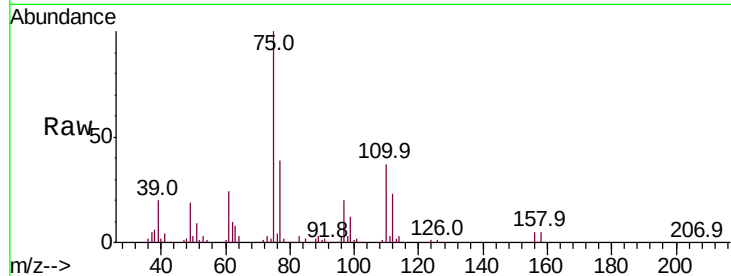
#76
 1,2,3-Trichloropropane
 Concen: 51.084 ug/l m
 RT: 12.55 min Scan# 3352
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-GW-498-500MS

Tot Ion: 75 Resp: 257345
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0

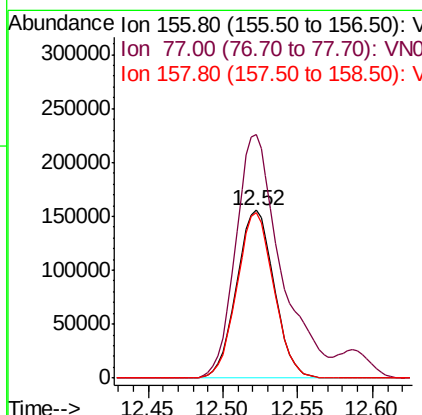
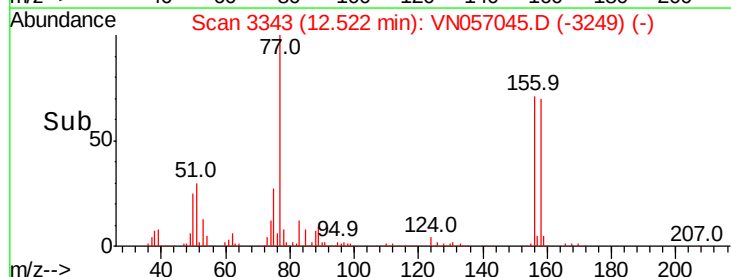
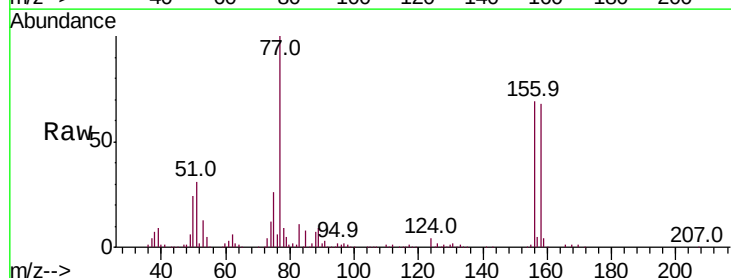
Manual Integrations
 APPROVED

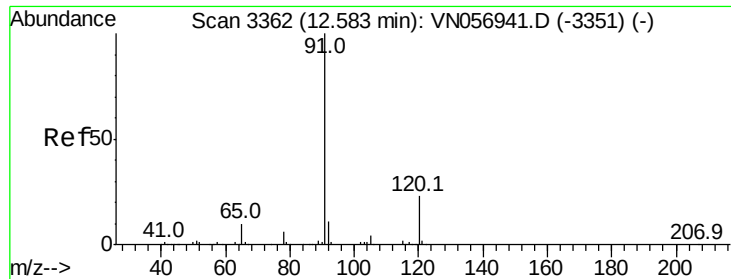
MMDadoda
 8/2/2019 11:18:06 AM



#77
 Bromobenzene
 Concen: 48.584 ug/l
 RT: 12.52 min Scan# 3343
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Tgt Ion: 156 Resp: 271837
 Ion Ratio Lower Upper
 156 100
 77 174.2 89.5 268.5
 158 97.0 48.4 145.3





#78

n-propylbenzene

Concen: 47.692 ug/l

RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion: 91 Resp: 1091687

Ion Ratio Lower Upper

91 100

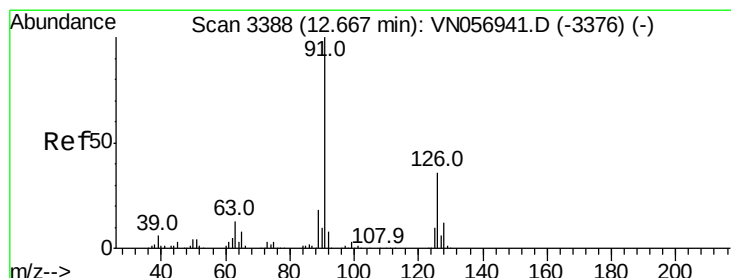
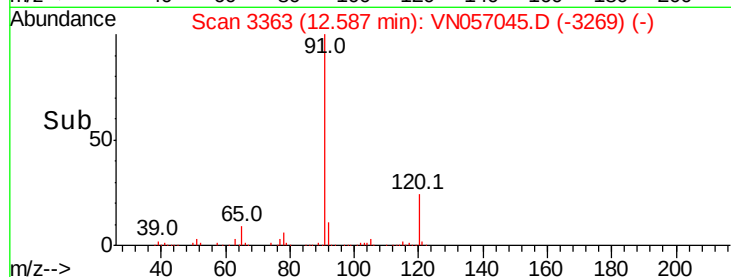
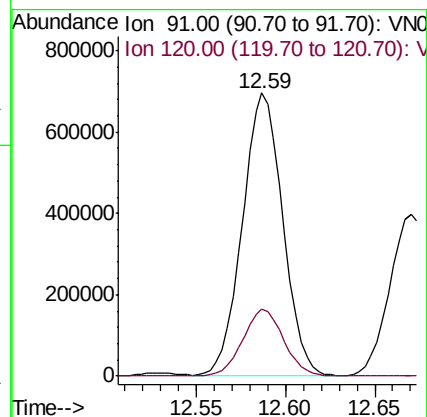
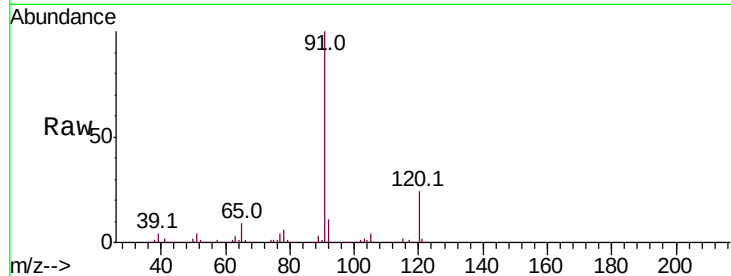
120 23.9 11.8 35.4

Manual Integrations

APPROVED

MMDadoda

8/2/2019 11:18:06 AM



#79

2-Chlorotoluene

Concen: 46.952 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VN057045.D

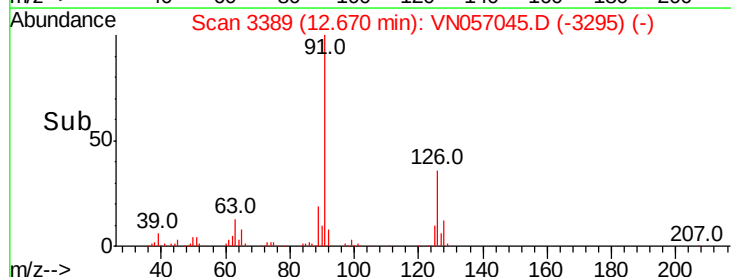
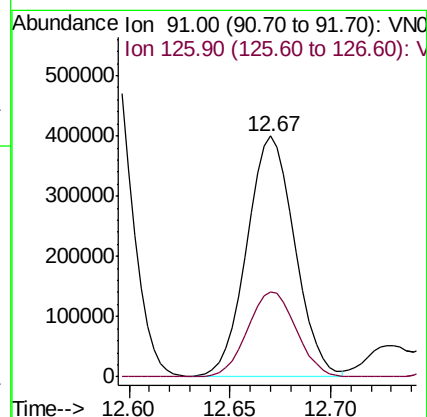
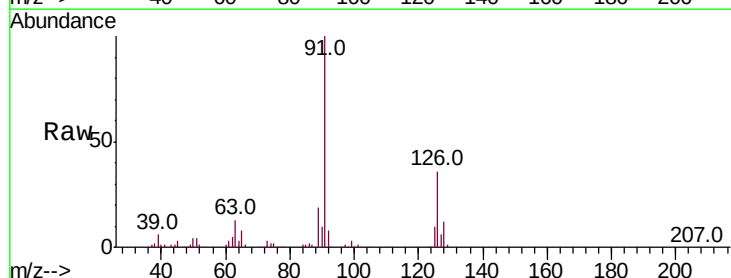
Acq: 1 Aug 2019 18:17

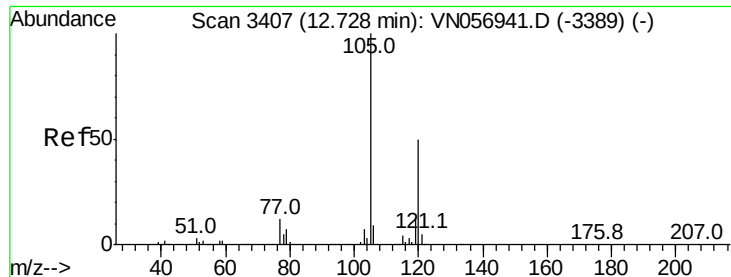
Tgt Ion: 91 Resp: 661780

Ion Ratio Lower Upper

91 100

126 36.0 17.9 53.7





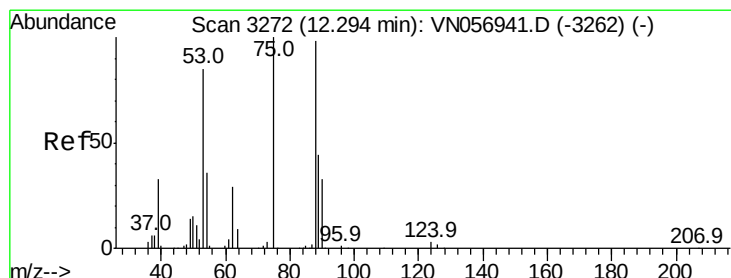
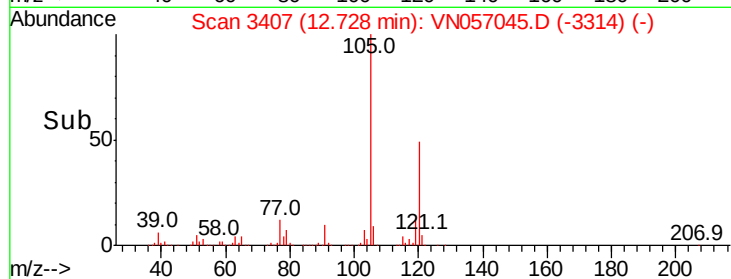
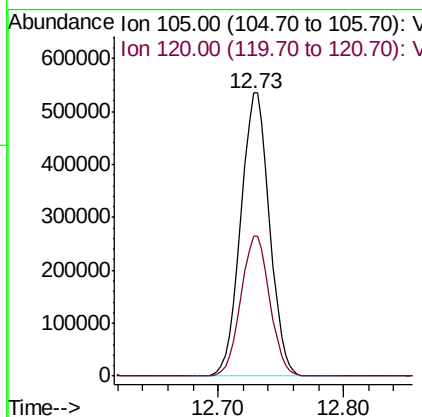
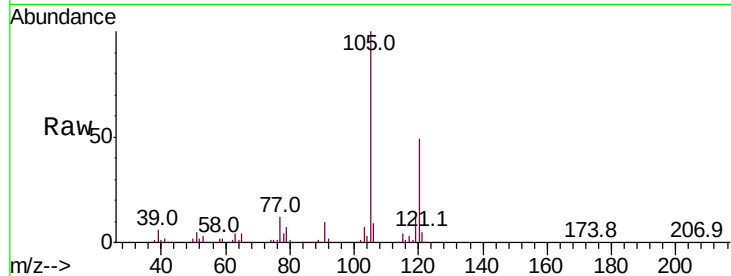
#80
 1,3,5-Trimethylbenzene
 Concen: 48.437 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-GW-498-500MS

Tot Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.8	74.3

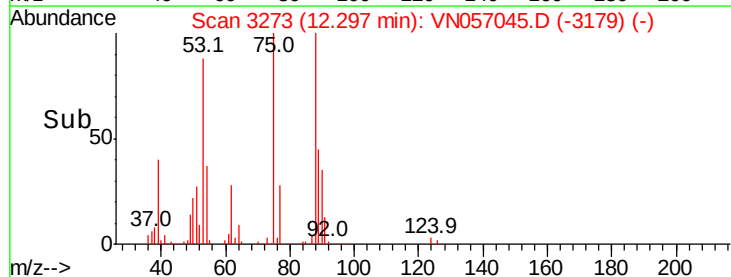
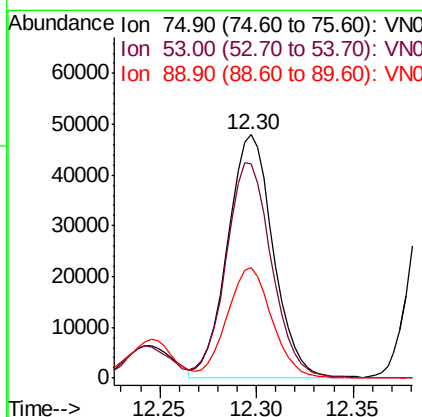
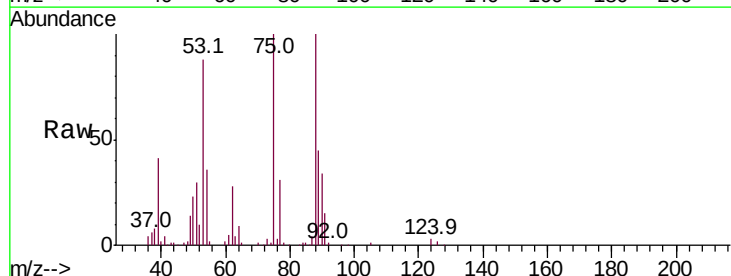
Manual Integrations
 APPROVED

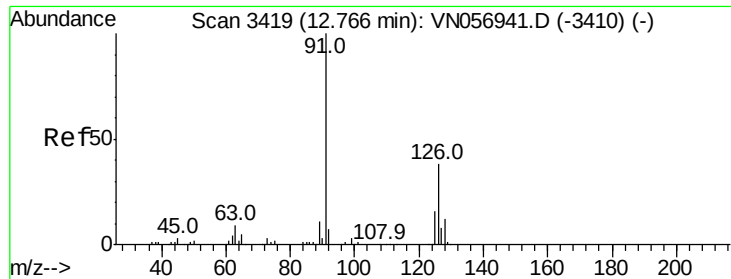
MMDadoda
 8/2/2019 11:18:06 AM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 50.164 ug/l
 RT: 12.30 min Scan# 3273
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Tgt Ion	Ratio	Lower	Upper
75	100		
53	88.7	69.3	103.9
89	44.8	35.8	53.6





#82

4-Chlorotoluene

Concen: 48.774 ug/l

RT: 12.77 min Scan# 3420

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion: 91 Resp: 643354

Ion Ratio Lower Upper

91 100

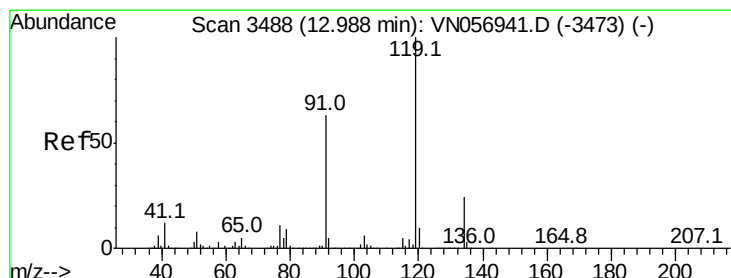
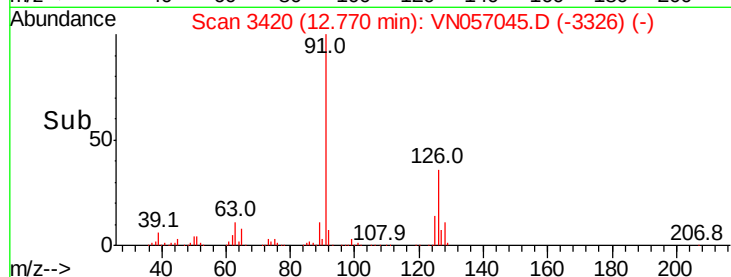
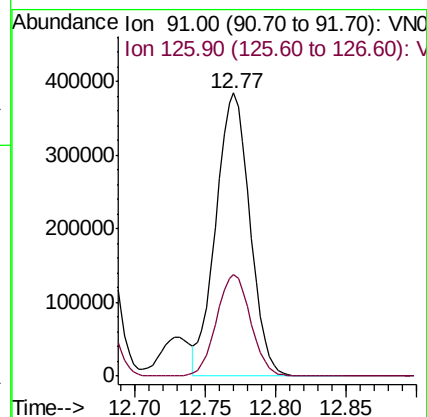
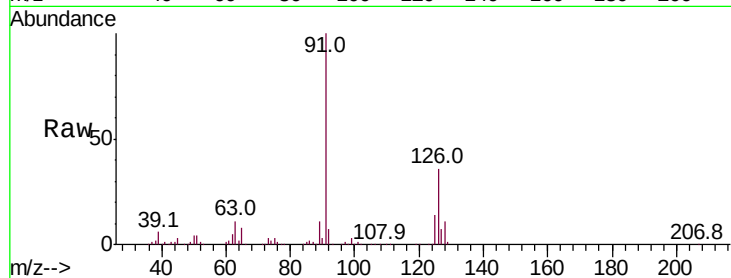
126 35.8 17.5 52.5

Manual Integrations

APPROVED

MMDadoda

8/2/2019 11:18:06 AM



#83

tert-Butylbenzene

Concen: 48.735 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

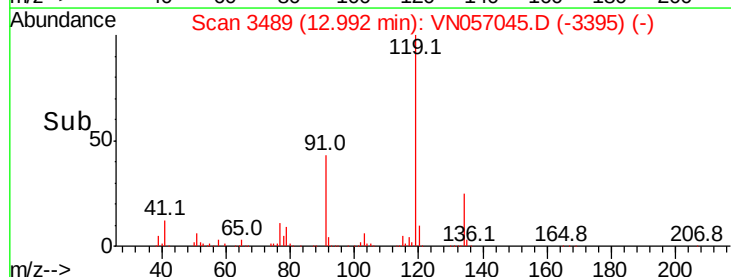
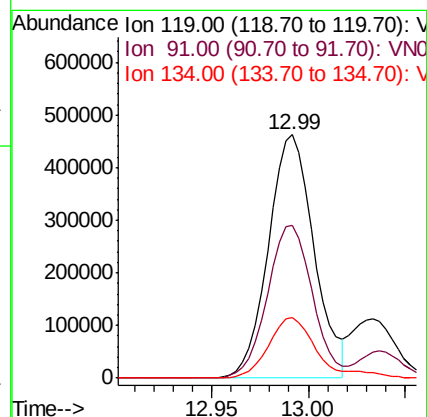
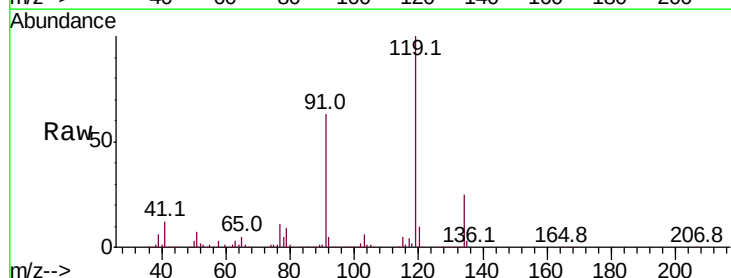
Tgt Ion: 119 Resp: 759096

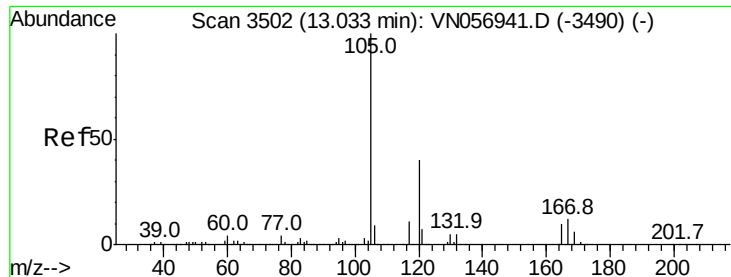
Ion Ratio Lower Upper

119 100

91 62.2 31.3 93.8

134 26.5 13.3 39.8





#84

1,2,4-Trimethylbenzene

Concen: 48.666 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion:105 Resp: 823914

Ion Ratio Lower Upper

105 100

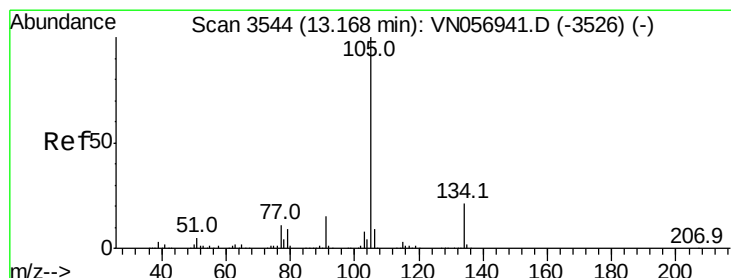
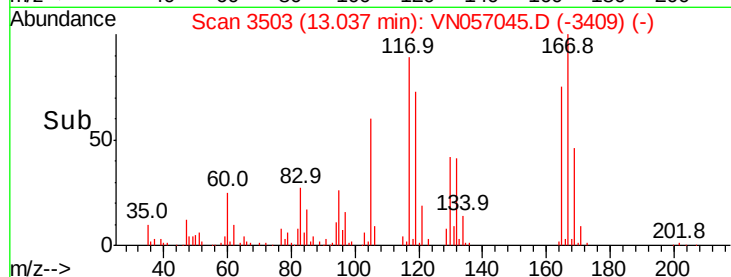
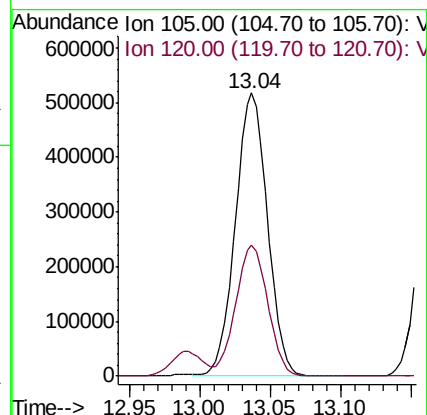
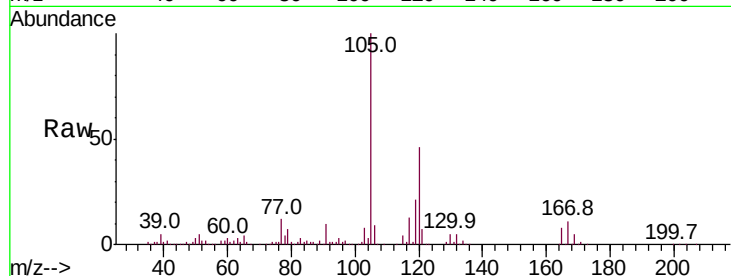
120 46.5 23.2 69.6

Manual Integrations

APPROVED

MMDadoda

8/2/2019 11:18:06 AM



#85

sec-Butylbenzene

Concen: 47.111 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VN057045.D

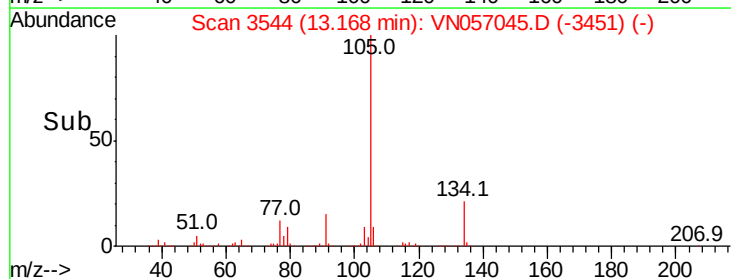
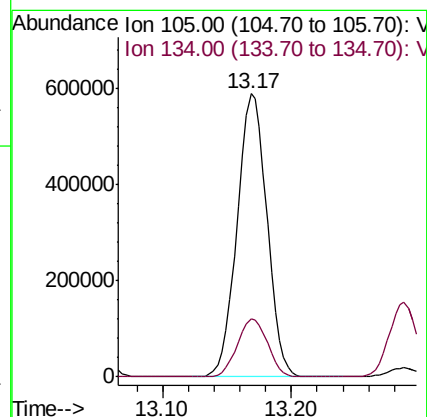
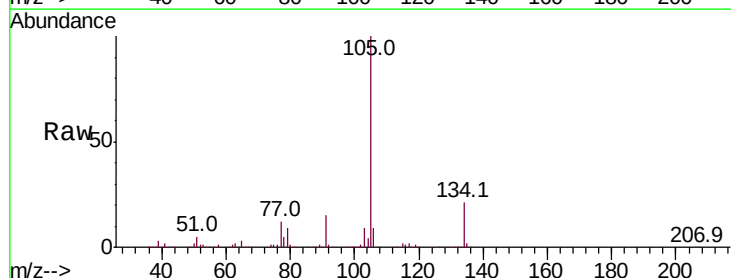
Acq: 1 Aug 2019 18:17

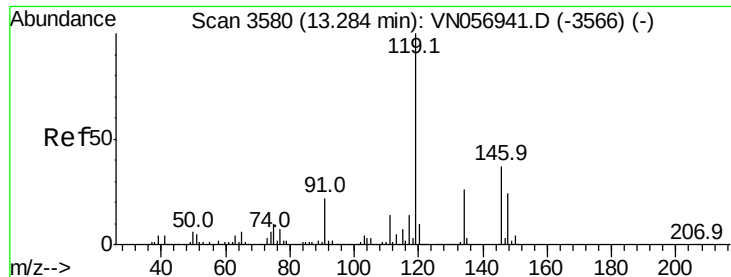
Tgt Ion:105 Resp: 946507

Ion Ratio Lower Upper

105 100

134 20.7 10.3 30.8





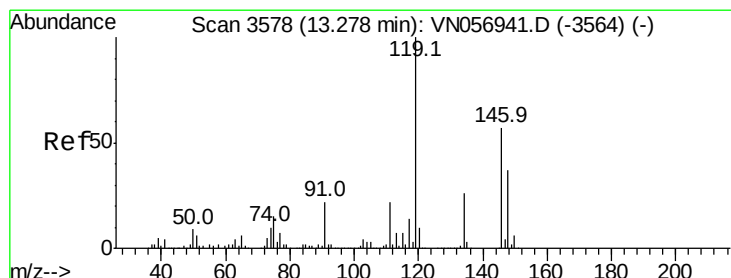
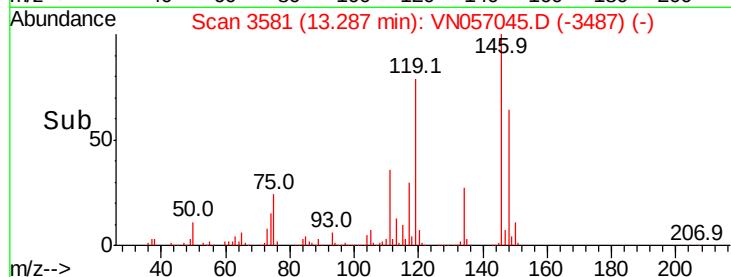
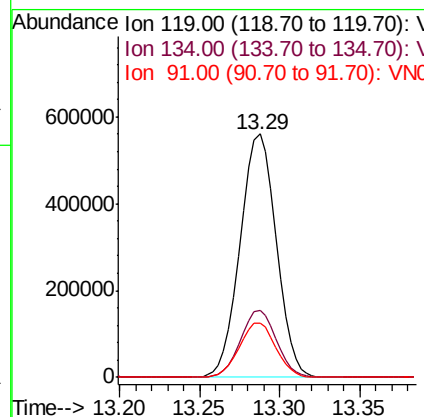
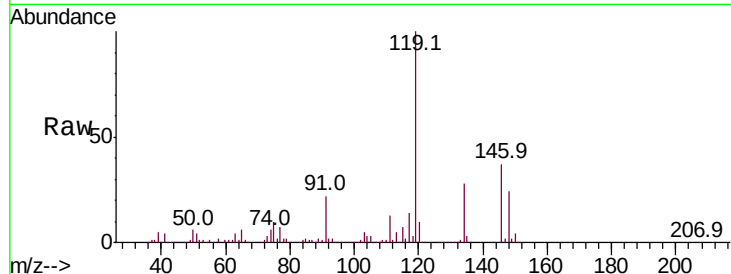
#86
 p-Isopropyltoluene
 Concen: 48.198 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-GW-498-500MS

Tot Ion	Ratio	Resp	Lower	Upper
119	100	859714		
134	27.3		13.4	40.1
91	22.3		11.0	33.0

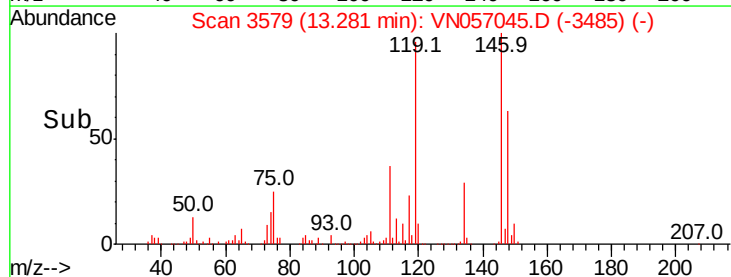
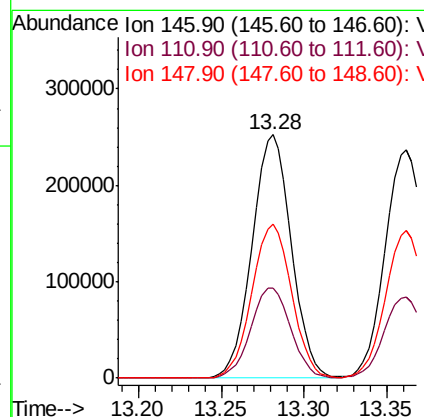
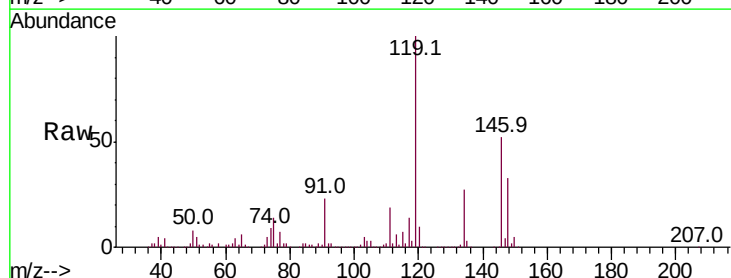
Manual Integrations
 APPROVED

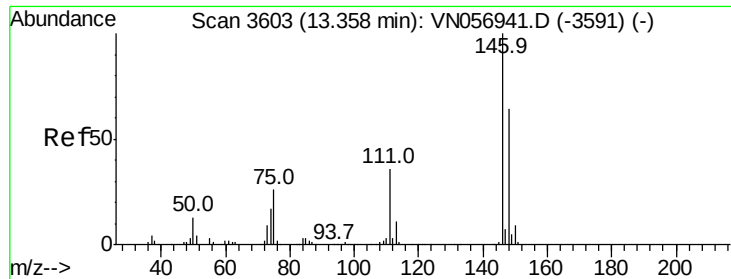
MMDadoda
 8/2/2019 11:18:06 AM



#87
 1,3-Dichlorobenzene
 Concen: 48.935 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	416483		
111	37.7		18.6	55.8
148	64.3		32.2	96.6





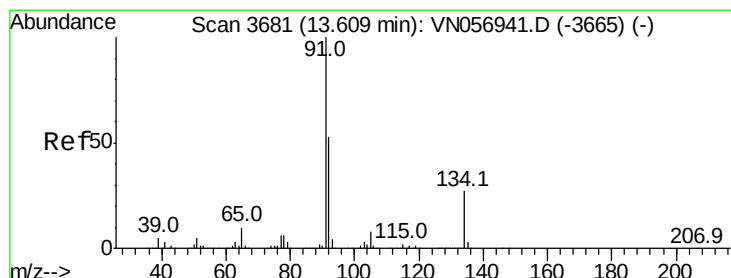
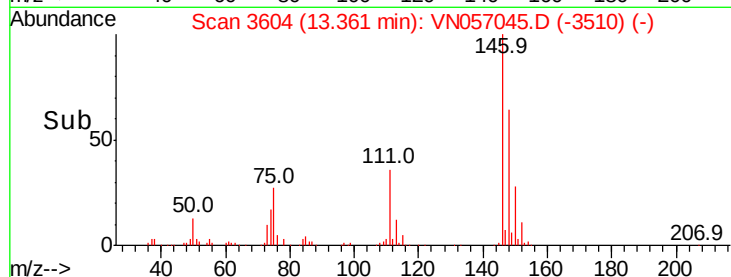
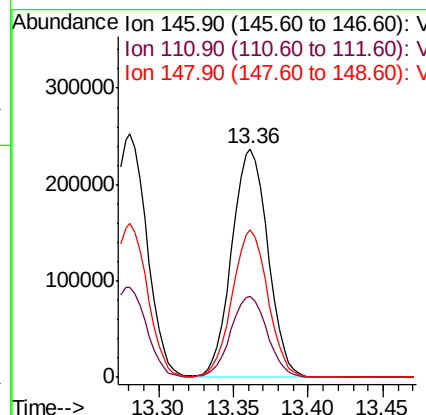
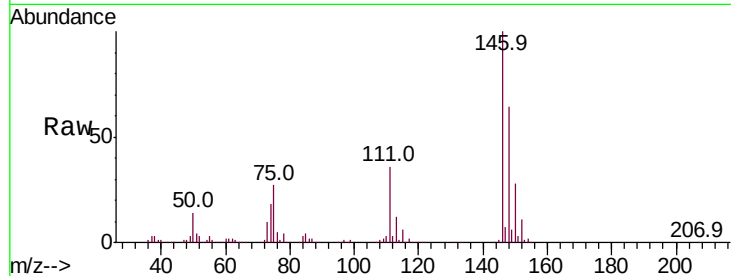
#88
1,4-Dichlorobenzene
Concen: 48.694 ug/l
RT: 13.36 min Scan# 3604
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-GW-498-500MS

Tot Ion	Ratio	Resp	Lower	Upper
146	100	398968		
111	36.1	18.4	55.2	
148	63.7	32.3	96.9	

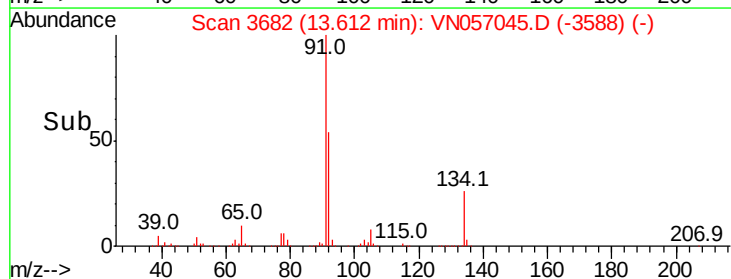
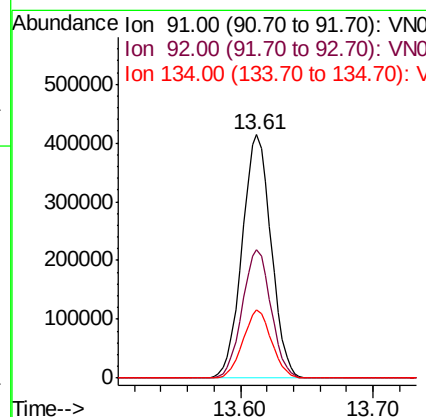
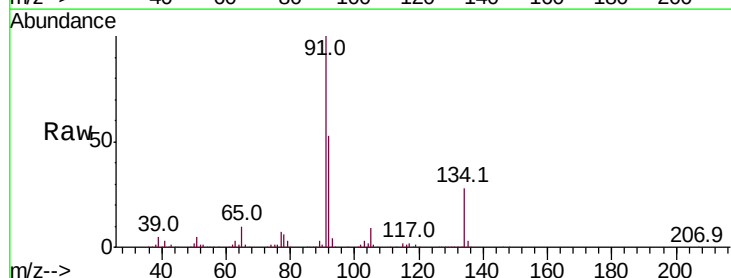
Manual Integrations
APPROVED

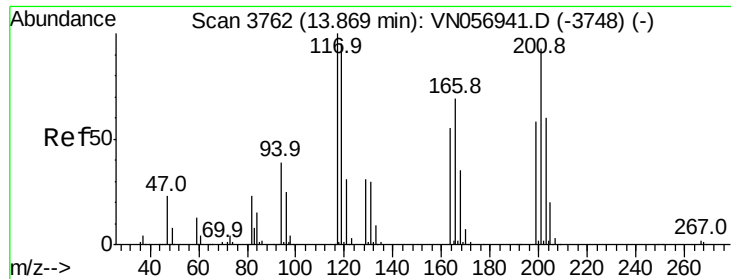
MMDadoda
8/2/2019 11:18:06 AM



#89
n-Butylbenzene
Concen: 45.730 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	628663		
92	52.3	26.2	78.5	
134	27.5	13.5	40.4	





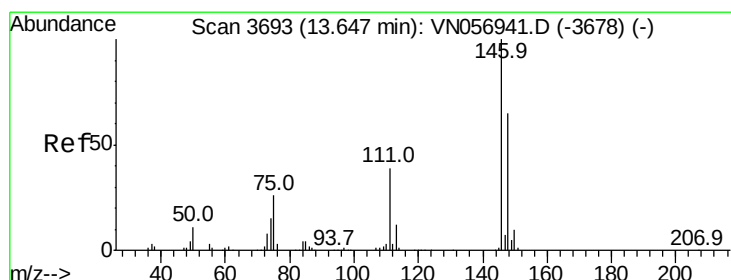
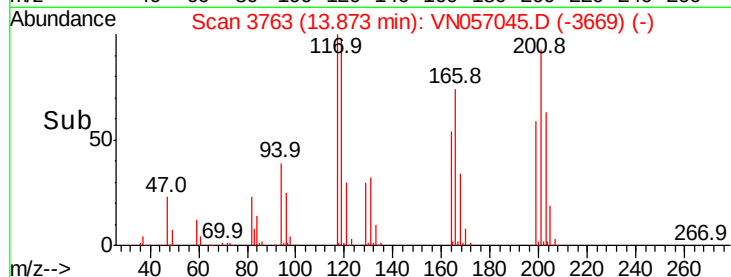
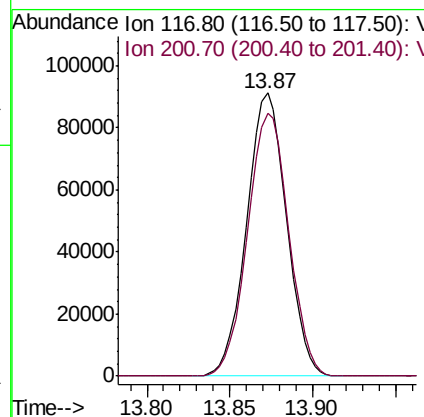
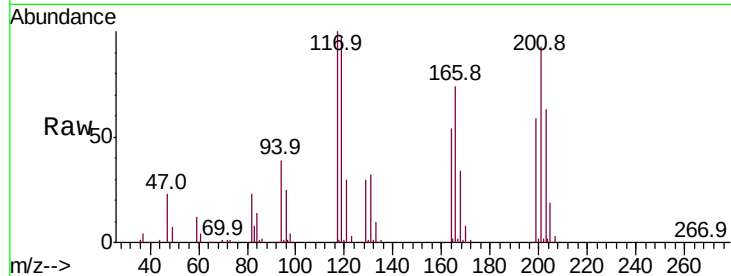
#90
Hexachloroethane
Concen: 49.593 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-GW-498-500MS

Tot Ion:117 Resp: 152322
Ion Ratio Lower Upper
117 100
201 95.8 47.0 141.2

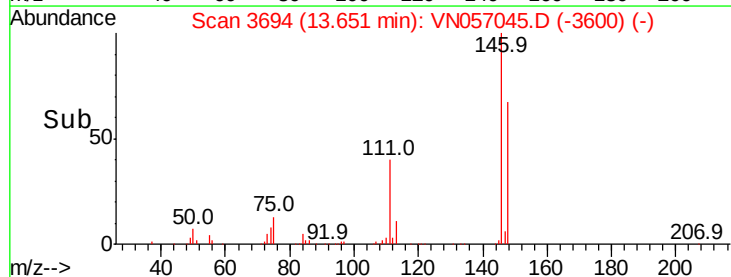
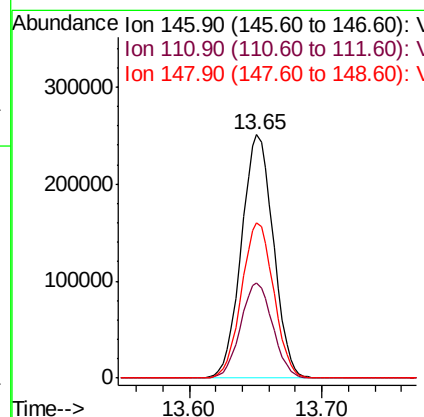
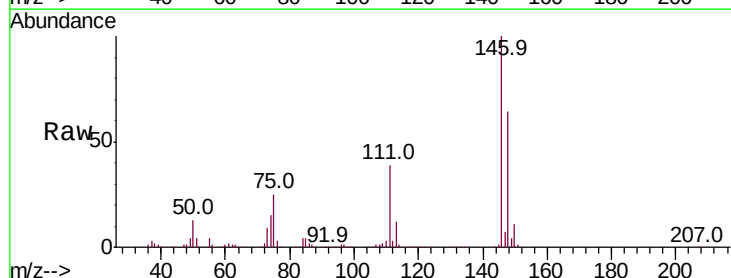
Manual Integrations
APPROVED

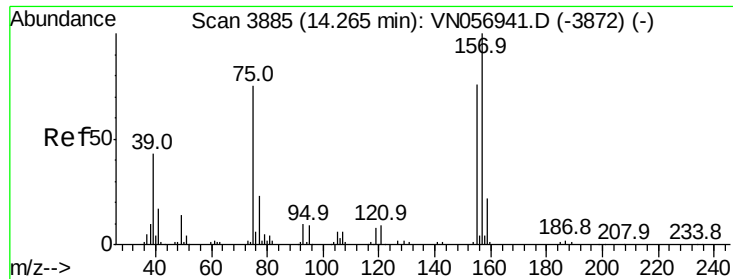
MMDadoda
8/2/2019 11:18:06 AM



#91
1,2-Dichlorobenzene
Concen: 50.147 ug/l
RT: 13.65 min Scan# 3694
Delta R.T. 0.00 min
Lab File: VN057045.D
Acq: 1 Aug 2019 18:17

Tgt Ion:146 Resp: 420062
Ion Ratio Lower Upper
146 100
111 39.2 19.4 58.4
148 64.0 32.2 96.6





#92

1,2-Dibromo-3-Chloropropane

Concen: 52.999 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

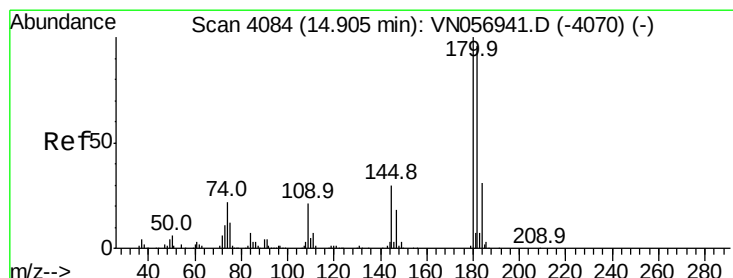
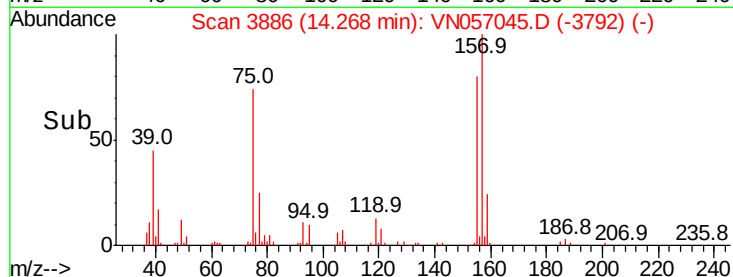
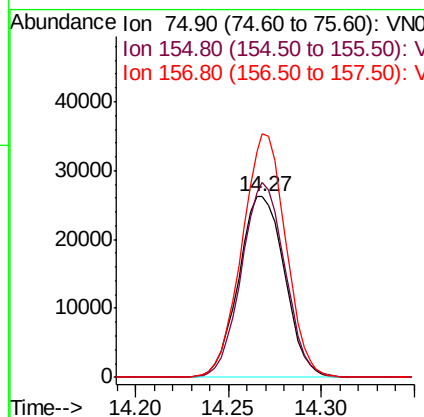
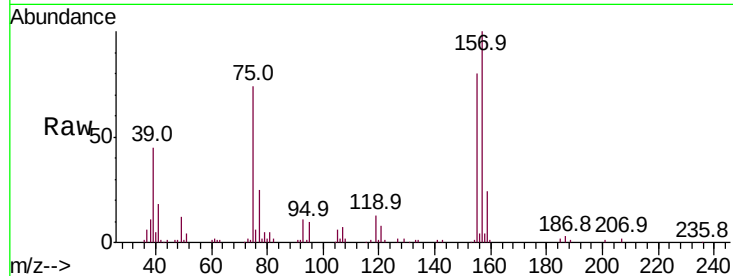
ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion:	75	Resp:	45191
Ion Ratio	Lower	Upper	
75	100		
155	101.9	50.2	150.6
157	128.0	65.1	195.4

Manual Integrations
APPROVED

MMDadoda
8/2/2019 11:18:06 AM



#93

1,2,4-Trichlorobenzene

Concen: 39.839 ug/l

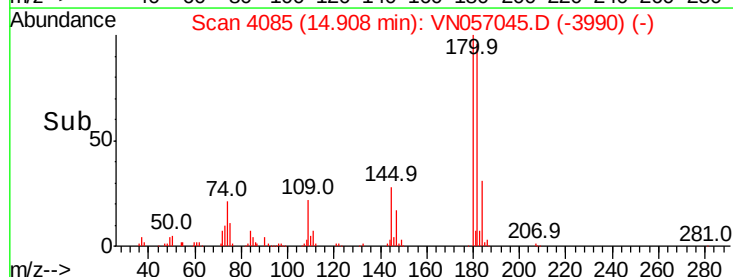
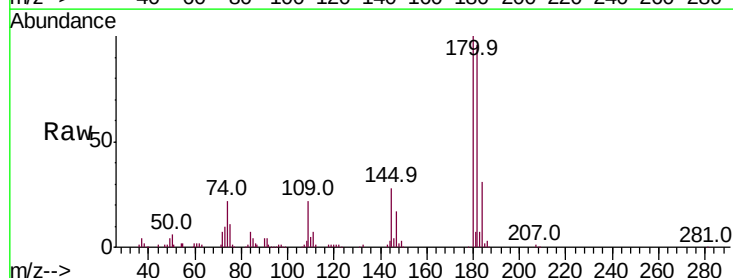
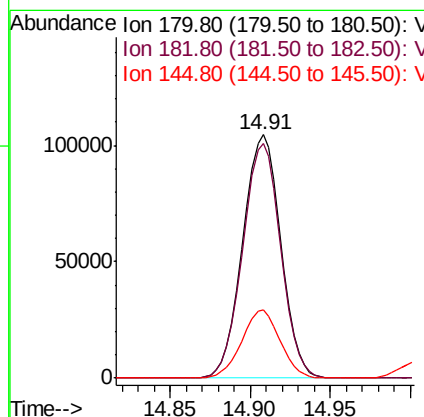
RT: 14.91 min Scan# 4085

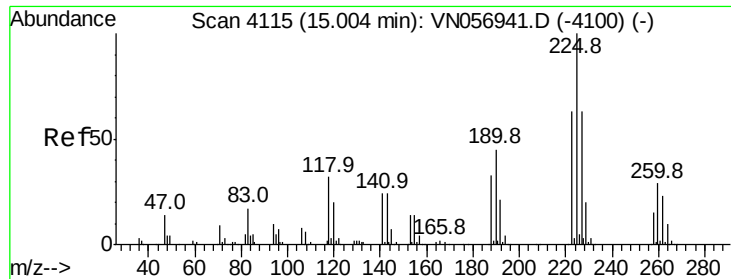
Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Tgt Ion:	180	Resp:	169639
Ion Ratio	Lower	Upper	
180	100		
182	96.1	47.6	142.8
145	28.1	14.2	42.8





#94

Hexachlorobutadiene

Concen: 51.784 ug/l

RT: 15.00 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Instrument :

MSVOA_N

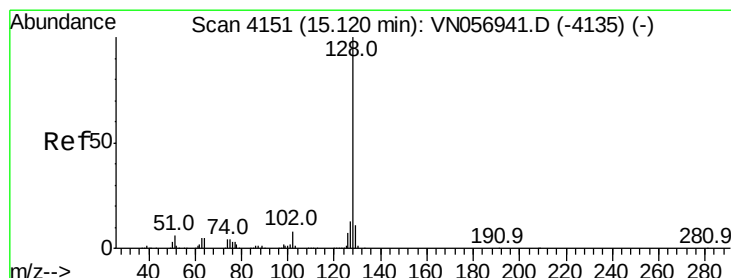
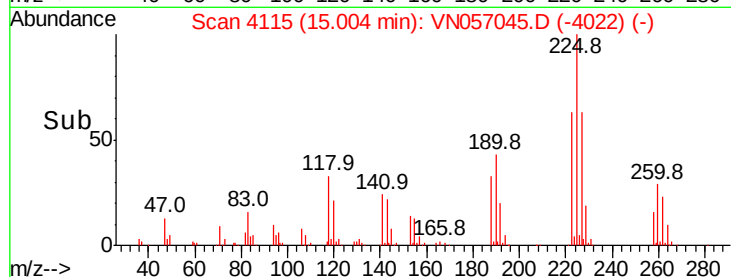
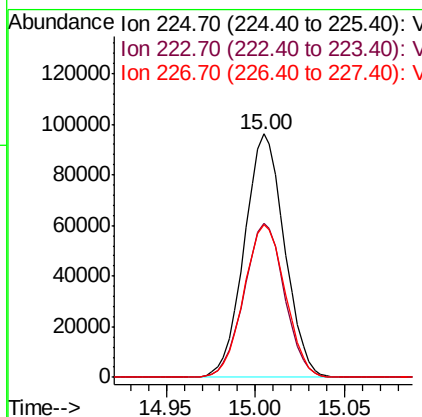
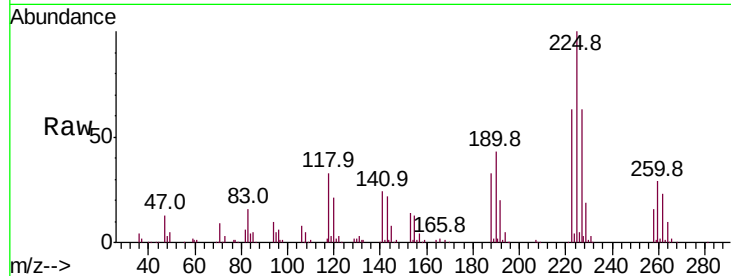
ClientSampleId :

BP-VPB203-GW-498-500MS

Tot Ion:	225	Resp:	151173
Ion Ratio		Lower	Upper
225	100		
223	63.5	30.8	92.4
227	64.6	31.1	93.5

Manual Integrations
APPROVED

MMDadoda
8/2/2019 11:18:06 AM



#95

Naphthalene

Concen: 41.916 ug/l

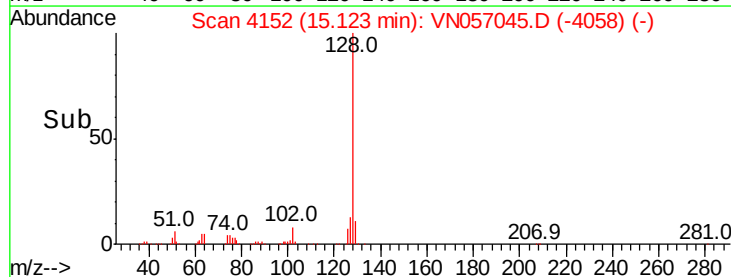
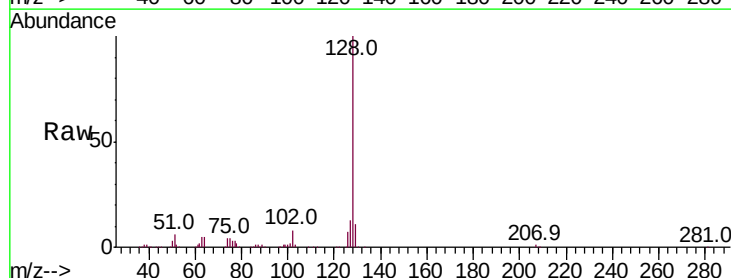
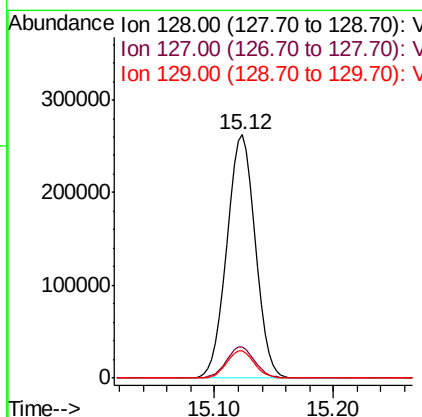
RT: 15.12 min Scan# 4152

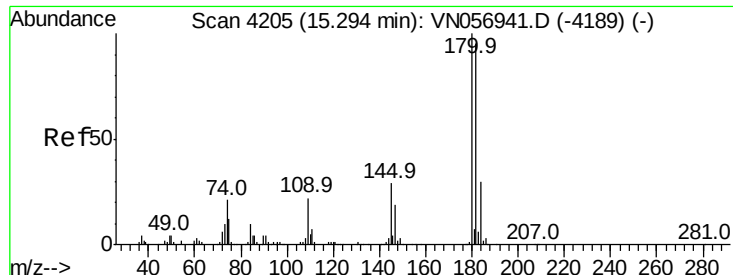
Delta R.T. 0.00 min

Lab File: VN057045.D

Acq: 1 Aug 2019 18:17

Tgt Ion:	128	Resp:	435197
Ion Ratio		Lower	Upper
128	100		
127	12.9	10.0	15.0
129	11.0	8.7	13.1





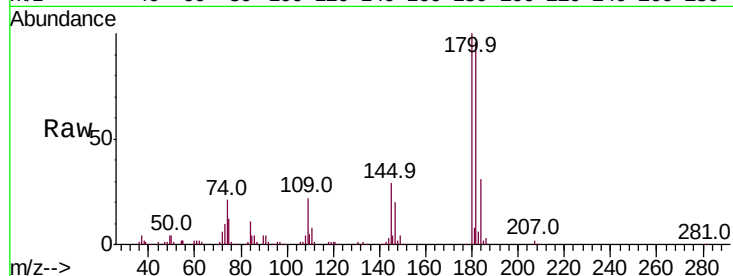
#96
 1,2,3-Trichlorobenzene
 Concen: 43.841 ug/l
 RT: 15.29 min Scan# 4205
 Delta R.T. 0.00 min
 Lab File: VN057045.D
 Acq: 1 Aug 2019 18:17

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-GW-498-500MS

Tot Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	95.7	48.0	144.2
145	29.0	15.0	45.0

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 11:18:06 AM



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

