

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072619\
 Data File : VN056924.D
 Acq On : 25 Jul 2019 15:48
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 7/26/2019 3:36:58 PM

Quant Time: Jul 26 03:38:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 26 03:12:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	480784	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	717629	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	654297	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	303409	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	470048	90.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	181.42%	
35) Dibromofluoromethane	7.57	113	435681	93.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	187.86%	
50) Toluene-d8	10.08	98	1659078	93.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	187.74%	
62) 4-Bromofluorobenzene	12.40	95	567897	98.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	197.12%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.84	85	554765	104.548	ug/l 99
3) Chloromethane	2.04	50	609646	92.015	ug/l 99
4) Vinyl Chloride	2.17	62	586203	96.365	ug/l 98
5) Bromomethane	2.52	94	343028	92.213	ug/l 99
6) Chloroethane	2.67	64	315814	93.931	ug/l 98
7) Trichlorofluoromethane	2.99	101	749161	98.728	ug/l 100
8) Diethyl Ether	3.39	74	284901	100.326	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	449742	96.317	ug/l 100
10) Methyl Iodide	3.93	142	706259	112.928	ug/l 100
11) Tert butyl alcohol	4.77	59	333278	464.402	ug/l 99
12) 1,1-Dichloroethene	3.72	96	447007	95.857	ug/l 99
13) Acrolein	3.59	56	184645	334.245	ug/l 99
14) Allyl chloride	4.30	41	745301	97.392	ug/l 99
15) Acrylonitrile	4.96	53	1047094	481.547	ug/l 100
16) Acetone	3.80	43	835065	447.918	ug/l 99
17) Carbon Disulfide	4.03	76	1214818	95.932	ug/l 100
18) Methyl Acetate	4.30	43	553743	76.986	ug/l 99
19) Methyl tert-butyl Ether	5.02	73	1342052	97.599	ug/l 99
20) Methylene Chloride	4.53	84	507720	92.380	ug/l 98
21) trans-1,2-Dichloroethene	5.02	96	472903	97.051	ug/l 99
22) Diisopropyl ether	5.93	45	1480806	95.768	ug/l 99
23) Vinyl Acetate	5.87	43	5407825	487.123	ug/l 99
24) 1,1-Dichloroethane	5.83	63	862794	96.146	ug/l 100
25) 2-Butanone	6.81	43	1298398	478.964	ug/l 98
26) 2,2-Dichloropropane	6.81	77	656147	102.969	ug/l 100
27) cis-1,2-Dichloroethene	6.81	96	548122	97.851	ug/l 99
28) Bromochloromethane	7.18	49	396960	97.234	ug/l 100
29) Tetrahydrofuran	7.19	42	863349	468.064	ug/l 99
30) Chloroform	7.36	83	848995	94.173	ug/l 98
31) Cyclohexane	7.63	56	809134	93.234	ug/l 98
32) 1,1,1-Trichloroethane	7.55	97	720367	98.778	ug/l 99
36) 1,1-Dichloropropene	7.78	75	649986	98.180	ug/l 99
37) Ethyl Acetate	6.91	43	523209	98.721	ug/l 99
38) Carbon Tetrachloride	7.76	117	624362	98.761	ug/l 98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072619\
 Data File : VN056924.D
 Acq On : 25 Jul 2019 15:48
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 7/26/2019 3:36:58 PM

Quant Time: Jul 26 03:38:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 26 03:12:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	823381	98.982	ug/l	98
40) Benzene	8.03	78	1994976	96.776	ug/l	99
41) Methacrylonitrile	7.15	41	229916m	89.845	ug/l	
42) 1,2-Dichloroethane	8.11	62	614261	95.374	ug/l	99
43) Isopropyl Acetate	8.15	43	886638	96.959	ug/l	99
44) Trichloroethene	8.82	130	551447	99.314	ug/l	99
45) 1,2-Dichloropropane	9.11	63	536064	96.292	ug/l	99
46) Dibromomethane	9.20	93	329471	95.889	ug/l	99
47) Bromodichloromethane	9.39	83	658298	101.636	ug/l	98
48) Methyl methacrylate	9.19	41	437301	95.861	ug/l	100
49) 1,4-Dioxane	9.19	88	172300	1911.487	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	2627787	482.902	ug/l	100
52) Toluene	10.15	92	1232692	99.223	ug/l	100
53) t-1,3-Dichloropropene	10.37	75	709447	107.204	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	811132	103.672	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	482561	97.829	ug/l	99
56) Ethyl methacrylate	10.42	69	710649	104.366	ug/l	100
57) 1,3-Dichloropropane	10.70	76	800468	98.116	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.68	63	1445180	509.436	ug/l	100
59) 2-Hexanone	10.74	43	1861220	492.627	ug/l	99
60) Dibromochloromethane	10.90	129	521935	105.401	ug/l	99
61) 1,2-Dibromoethane	11.00	107	498554	101.990	ug/l	99
64) Tetrachloroethene	10.62	164	546460	95.873	ug/l	98
65) Chlorobenzene	11.43	112	1341661	98.185	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.50	131	501681	97.312	ug/l	99
67) Ethyl Benzene	11.50	91	2379599	100.773	ug/l	100
68) m/p-Xylenes	11.61	106	1795723	203.071	ug/l	99
69) o-Xylene	11.94	106	869129	100.917	ug/l	99
70) Styrene	11.96	104	1483580	108.023	ug/l	100
71) Bromoform	12.12	173	375142	105.699	ug/l	99
73) Isopropylbenzene	12.24	105	2317267	86.647	ug/l	99
74) N-amyl acetate	12.07	43	743826	84.021	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	614725	78.220	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	496633m	77.665	ug/l	
77) Bromobenzene	12.52	156	612305	91.767	ug/l	99
78) n-propylbenzene	12.59	91	2624086	93.009	ug/l	99
79) 2-Chlorotoluene	12.67	91	1531996	86.895	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1946294	87.324	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	192918	98.173	ug/l	97
82) 4-Chlorotoluene	12.77	91	1527112	91.206	ug/l	98
83) tert-Butylbenzene	12.99	119	1667406	85.453	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	1934552	91.098	ug/l	100
85) sec-Butylbenzene	13.17	105	2225502	89.128	ug/l	100
86) p-Isopropyltoluene	13.28	119	2047150	91.891	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1000722	93.390	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	984153	94.943	ug/l	99
89) n-Butylbenzene	13.61	91	1713185	100.321	ug/l	100
90) Hexachloroethane	13.87	117	341416	88.616	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	985250	91.722	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	105281	90.518	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072619\
Data File : VN056924.D
Acq On : 25 Jul 2019 15:48
Operator : JC/SP
Sample : VSTDICC100
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

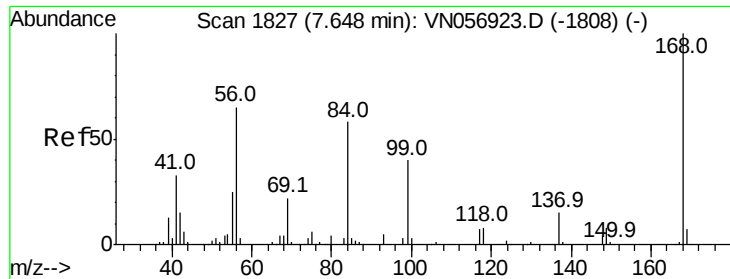
Manual Integrations
APPROVED

MMDadoda
7/26/2019 3:36:58 PM

Quant Time: Jul 26 03:38:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072619W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 26 03:12:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	565278	122.362	ug/l	100
94) Hexachlorobutadiene	15.00	225	342866	81.180	ug/l	100
95) Naphthalene	15.12	128	1455039	120.096	ug/l	100
96) 1,2,3-Trichlorobenzene	15.29	180	589160	115.394	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:168 Resp: 480784

Ion Ratio Lower Upper

168 100

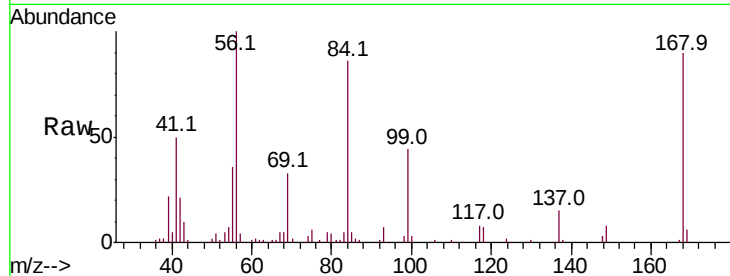
99 49.3 38.6 58.0

Manual Integrations

APPROVED

MMDadoda

7/26/2019 3:36:58 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

150000

100000

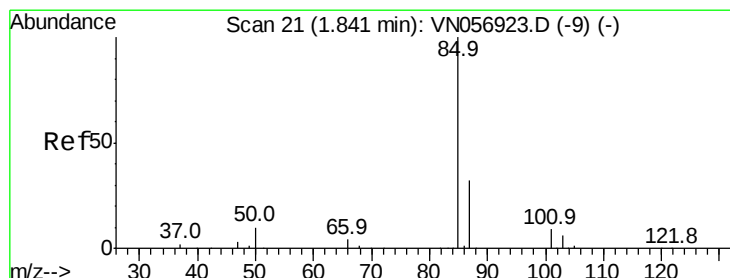
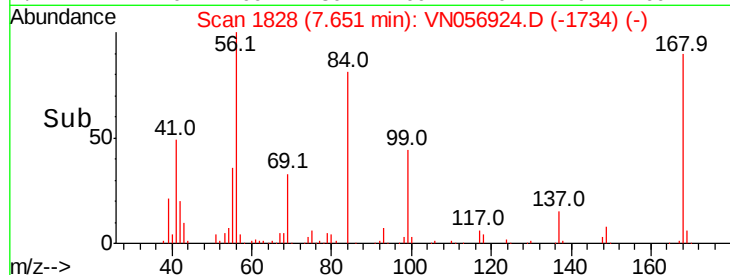
50000

0

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 104.548 ug/l

RT: 1.84 min Scan# 20

Delta R.T. -0.00 min

Lab File: VN056924.D

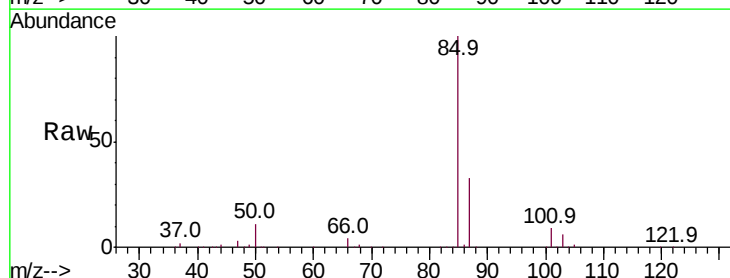
Acq: 25 Jul 2019 15:48

Tgt Ion: 85 Resp: 554765

Ion Ratio Lower Upper

85 100

87 32.7 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.84

400000

300000

200000

100000

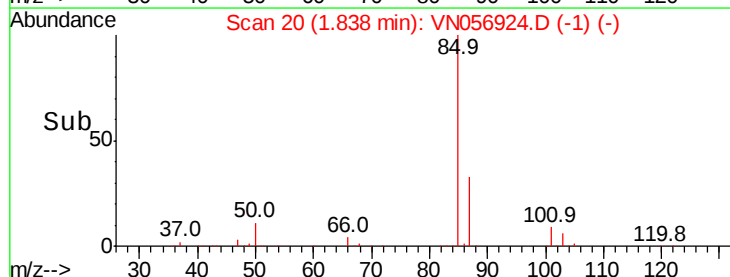
0

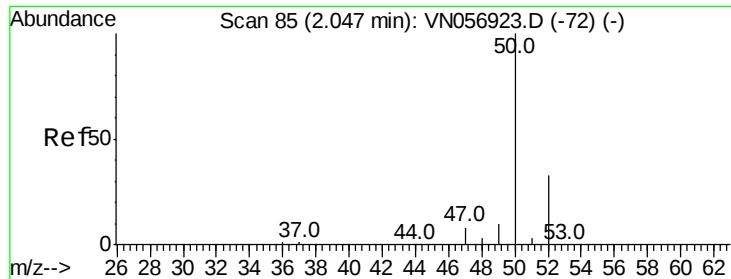
1.80

1.90

2.00

Time-->





#3

Chloromethane

Concen: 92.015 ug/l

RT: 2.04 min Scan# 84

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 50 Resp: 609646

Ion Ratio Lower Upper

50 100

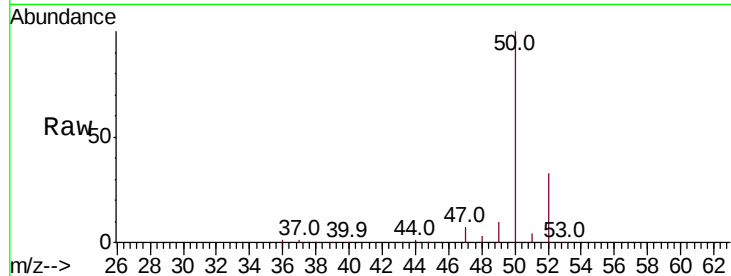
52 32.8 26.8 40.2

Manual Integrations

APPROVED

MMDadoda

7/26/2019 3:36:58 PM



Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC

2.04

400000

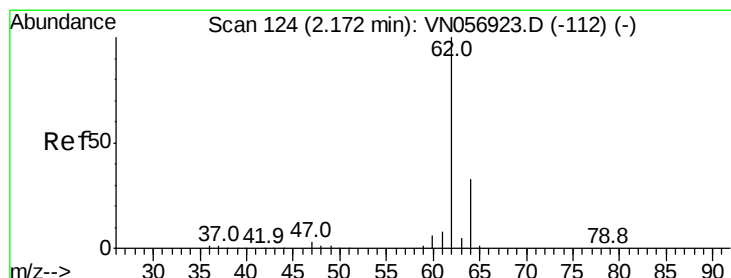
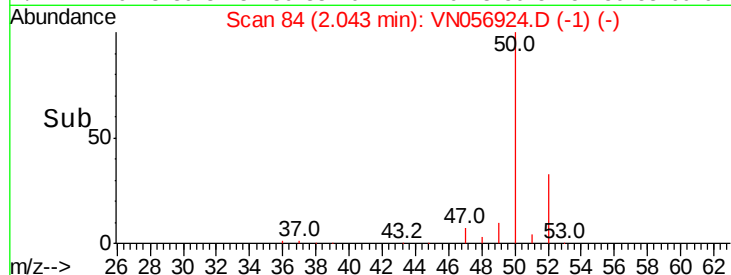
300000

200000

100000

0

Time-->



#4

Vinyl Chloride

Concen: 96.365 ug/l

RT: 2.17 min Scan# 124

Delta R.T. -0.00 min

Lab File: VN056924.D

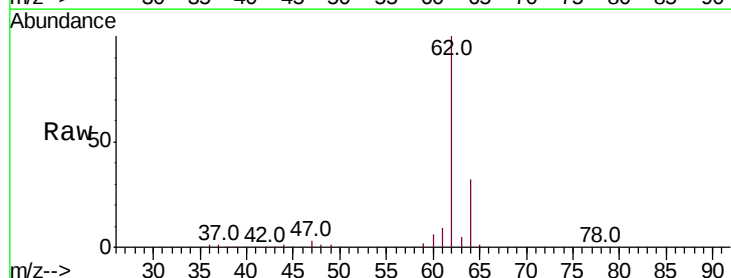
Acq: 25 Jul 2019 15:48

Tgt Ion: 62 Resp: 586203

Ion Ratio Lower Upper

62 100

64 32.1 26.4 39.6



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC

2.17

400000

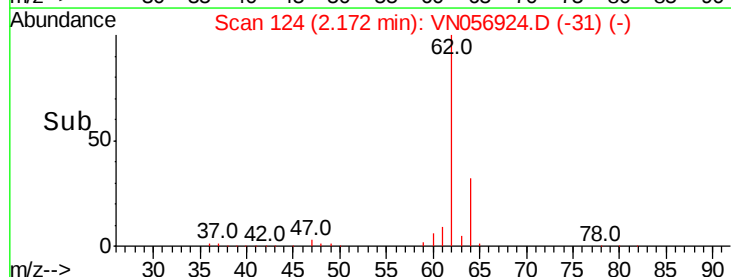
300000

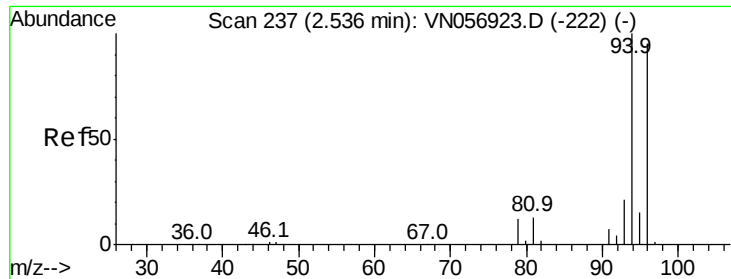
200000

100000

0

Time-->





#5

Bromomethane

Concen: 92.213 ug/l

RT: 2.52 min Scan# 233

Delta R.T. -0.01 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 94 Resp: 343028

Ion Ratio Lower Upper

94 100

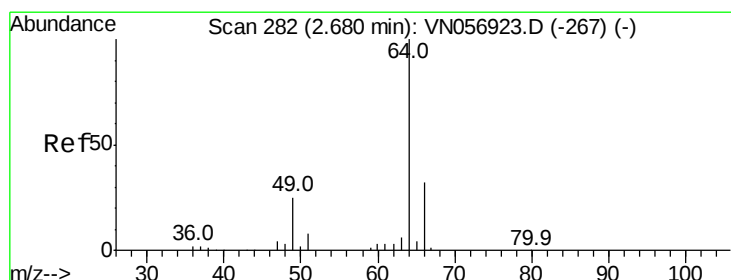
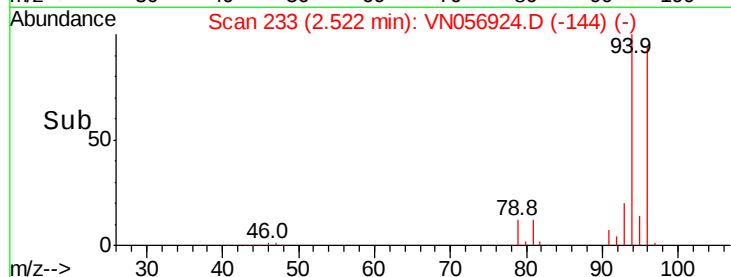
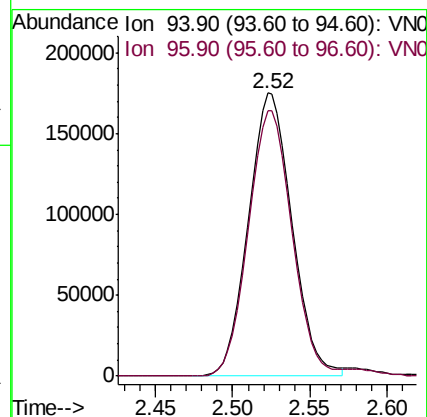
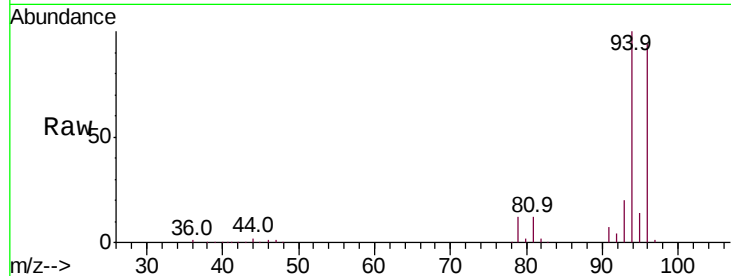
96 93.8 75.7 113.5

Manual Integrations

APPROVED

MMDadoda

7/26/2019 3:36:58 PM



#6

Chloroethane

Concen: 93.931 ug/l

RT: 2.67 min Scan# 280

Delta R.T. -0.01 min

Lab File: VN056924.D

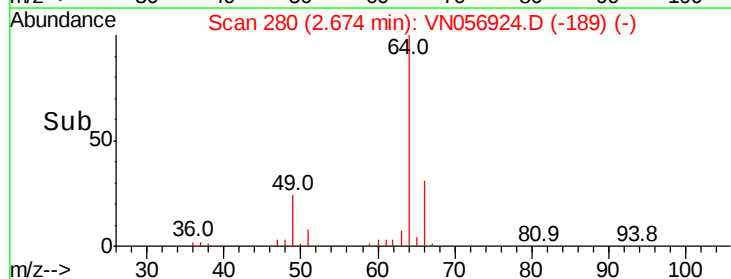
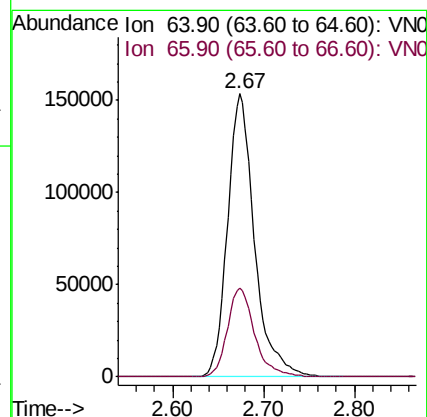
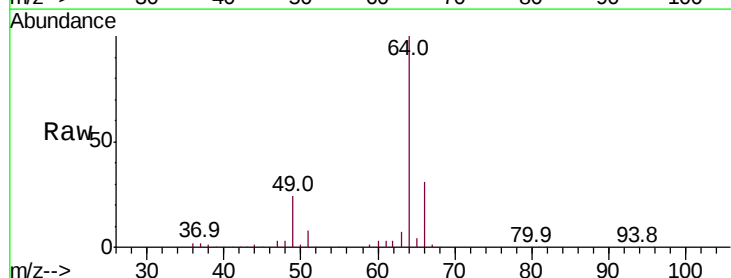
Acq: 25 Jul 2019 15:48

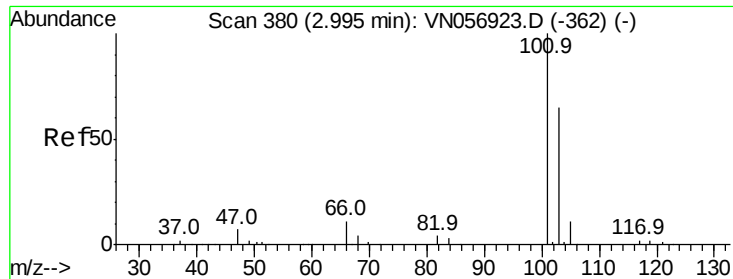
Tgt Ion: 64 Resp: 315814

Ion Ratio Lower Upper

64 100

66 31.2 25.8 38.6





#7

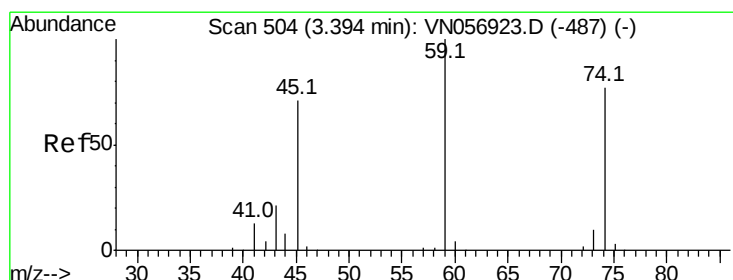
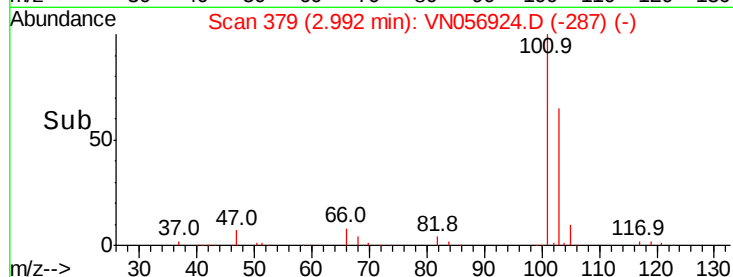
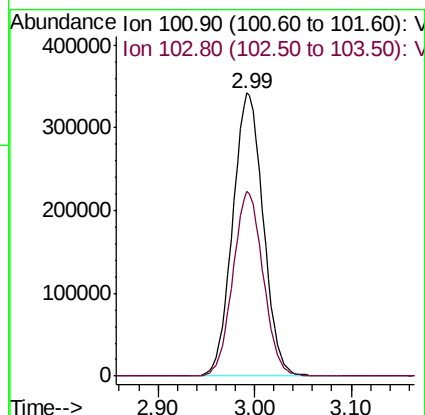
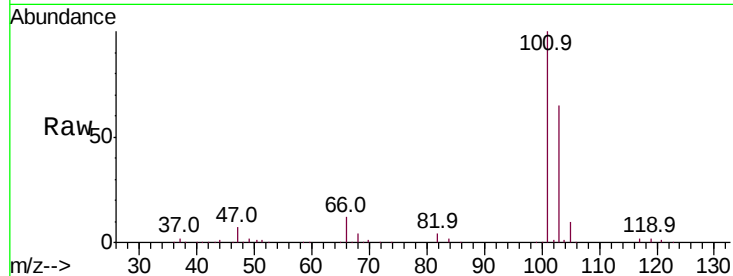
Trichlorofluoromethane
 Concen: 98.728 ug/l
 RT: 2.99 min Scan# 379
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.3	52.0	78.0

Manual Integrations
 APPROVED

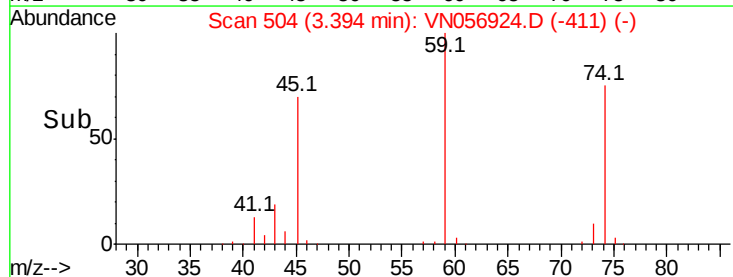
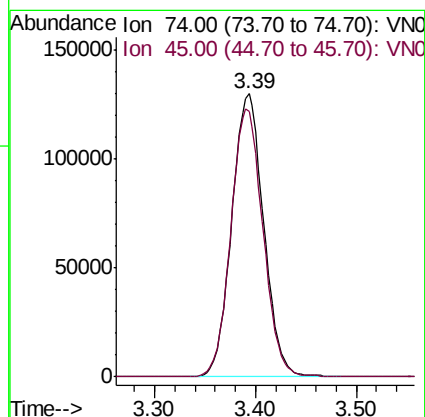
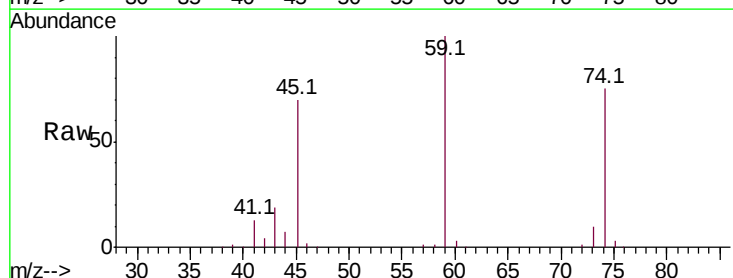
MMDadoda
 7/26/2019 3:36:58 PM

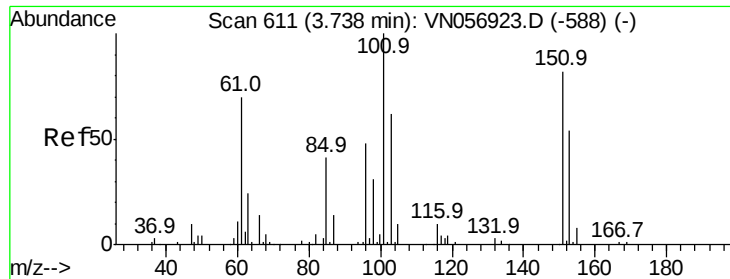


#8

Diethyl Ether
 Concen: 100.326 ug/l
 RT: 3.39 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.7	48.1	144.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 96.317 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:101 Resp: 449742

Ion Ratio Lower Upper

101 100

85 40.9 32.7 49.1

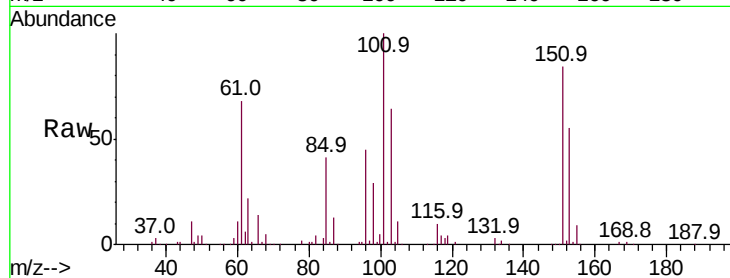
151 84.7 67.4 101.0

Manual Integrations

APPROVED

MMDadoda

7/26/2019 3:36:58 PM

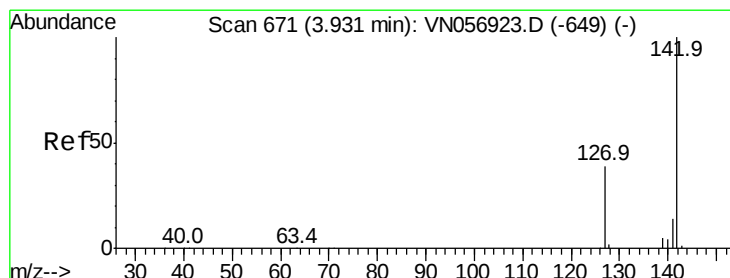
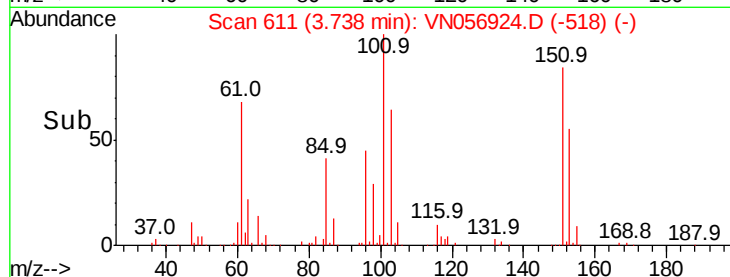
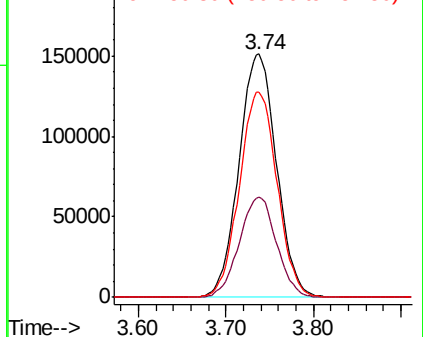


Abundance

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: 112.928 ug/l

RT: 3.93 min Scan# 671

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

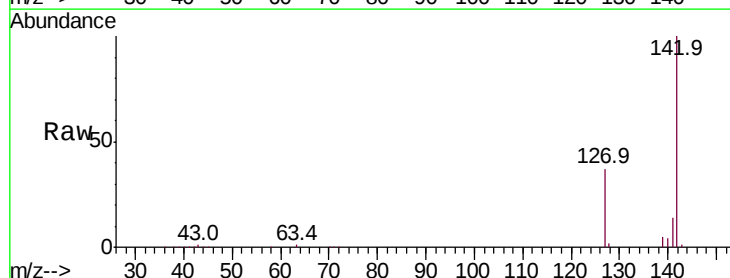
Tgt Ion:142 Resp: 706259

Ion Ratio Lower Upper

142 100

127 38.1 30.5 45.7

141 14.2 11.1 16.7

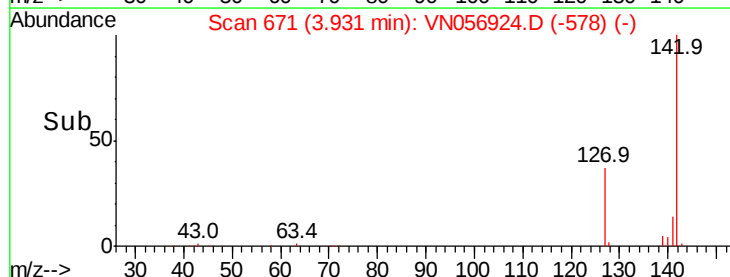
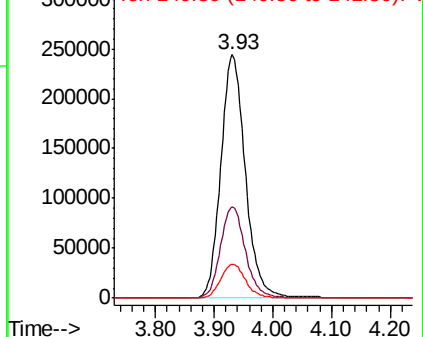


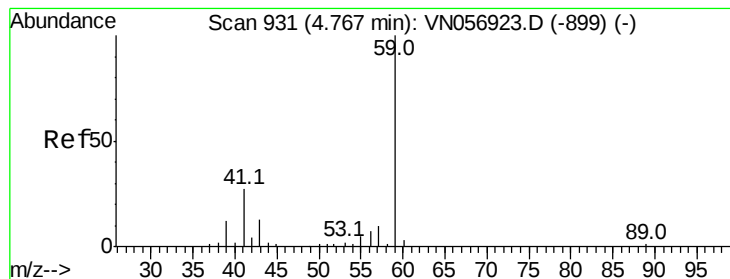
Abundance

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

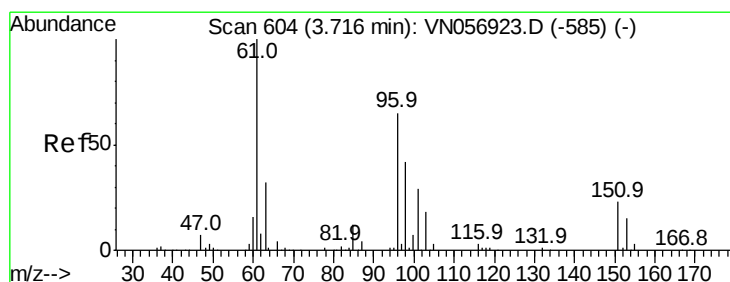
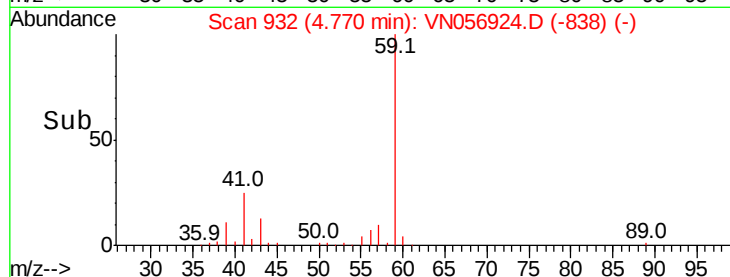
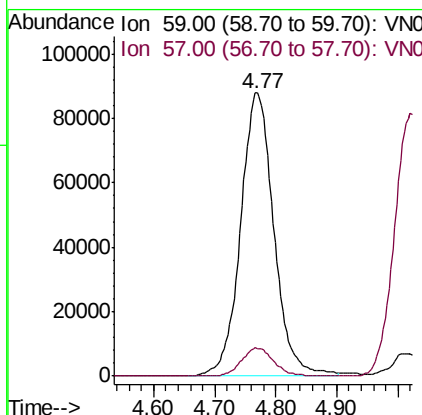
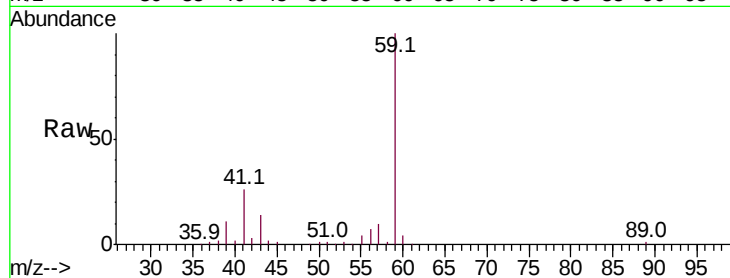
Tert butyl alcohol
 Concen: 464.402 ug/l
 RT: 4.77 min Scan# 932
 Delta R.T. 0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	59	Resp	333278
Ion Ratio	100	Lower	Upper
57	9.7	7.6	11.4

Manual Integrations
 APPROVED

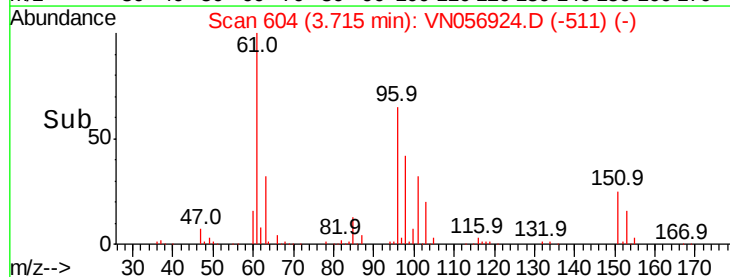
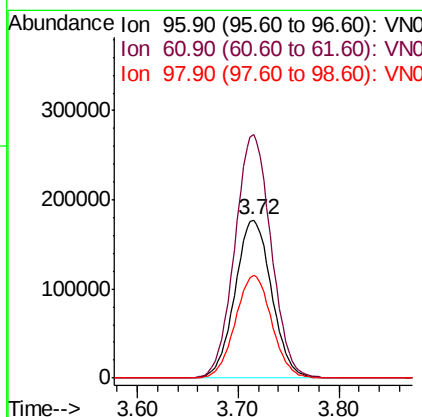
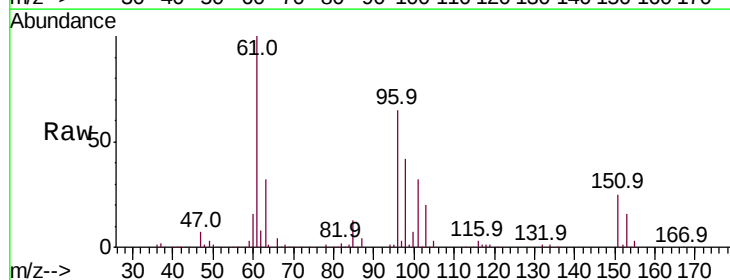
MMDadoda
 7/26/2019 3:36:58 PM

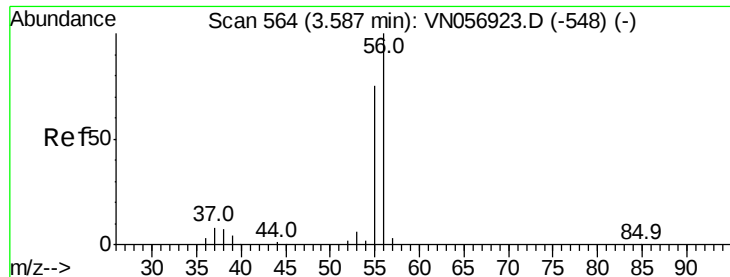


#12

1,1-Dichloroethene
 Concen: 95.857 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Tgt Ion	96	Resp	447007
Ion Ratio	100	Lower	Upper
61	153.9	122.4	183.6
98	64.9	51.3	76.9





#13

Acrolein

Concen: 334.245 ug/l

RT: 3.59 min Scan# 564

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 184645

Ion Ratio Lower Upper

56 100

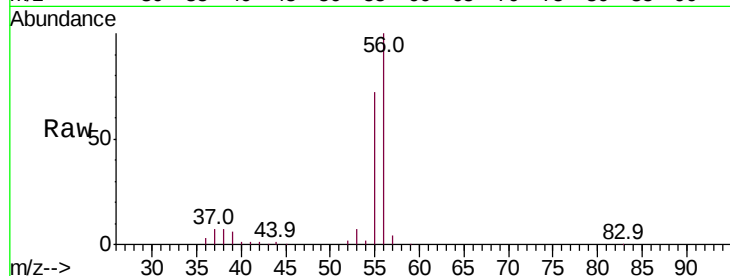
55 70.8 57.5 86.3

Manual Integrations

APPROVED

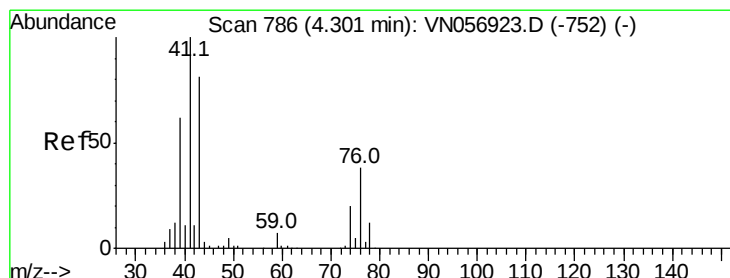
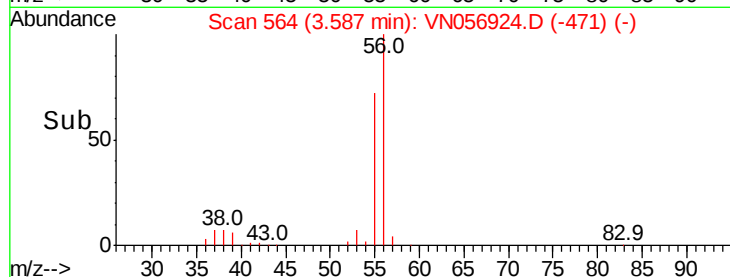
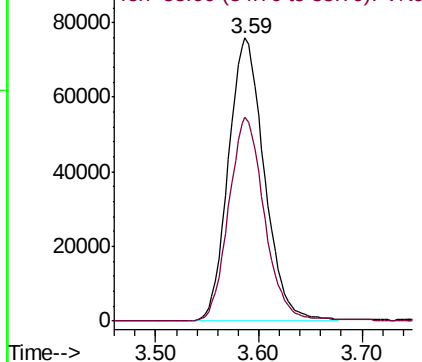
MMDadoda

7/26/2019 3:36:58 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 97.392 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

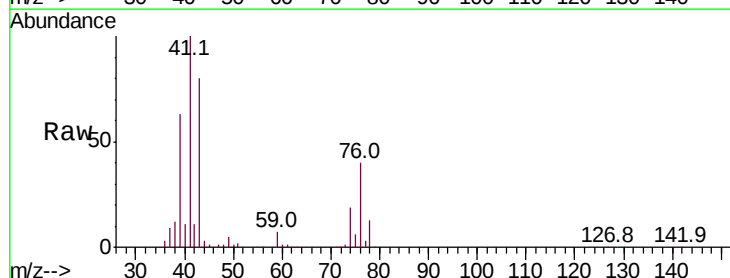
Tgt Ion: 41 Resp: 745301

Ion Ratio Lower Upper

41 100

39 58.4 47.5 71.3

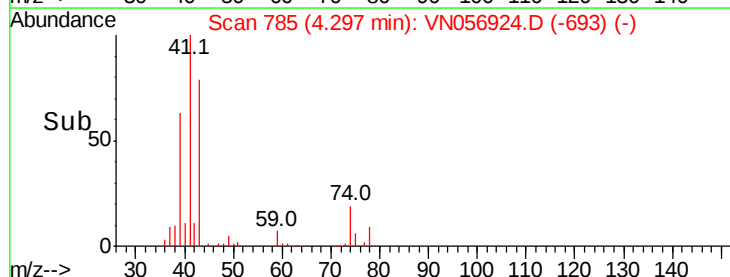
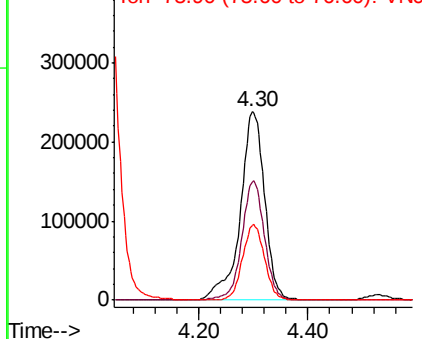
76 35.7 28.0 42.0

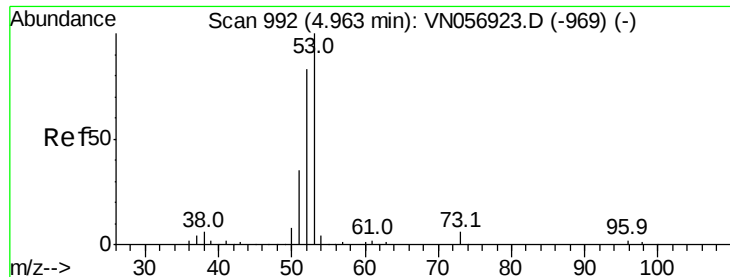


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 481.547 ug/l

RT: 4.96 min Scan# 992

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 53 Resp: 1047094

Ion Ratio Lower Upper

53 100

52 82.2 65.5 98.3

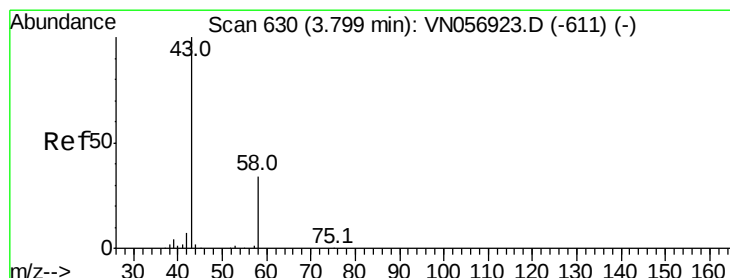
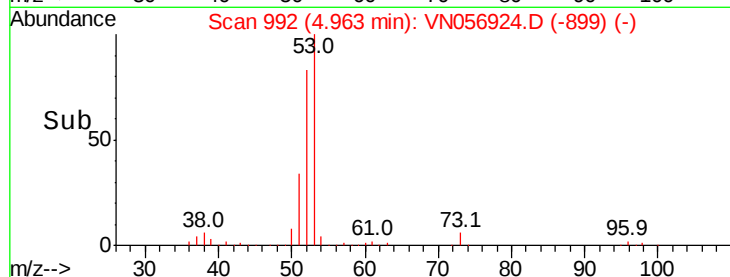
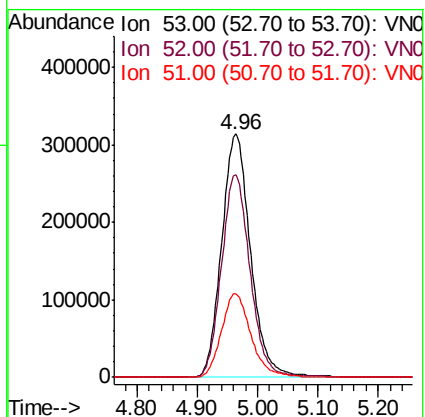
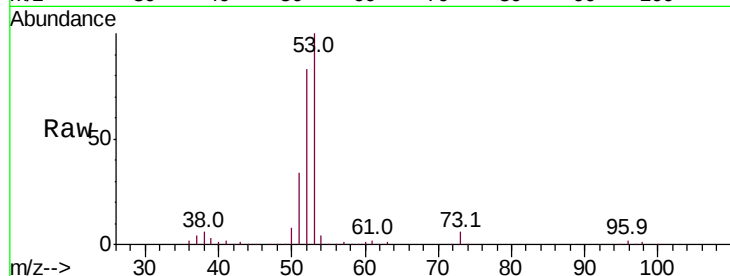
51 35.0 28.1 42.1

Manual Integrations

APPROVED

MMDadoda

7/26/2019 3:36:58 PM



#16

Acetone

Concen: 447.918 ug/l

RT: 3.80 min Scan# 630

Delta R.T. -0.00 min

Lab File: VN056924.D

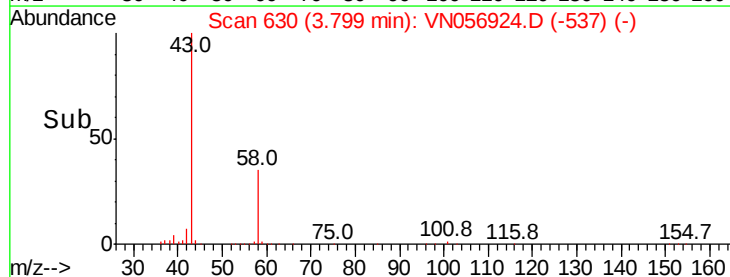
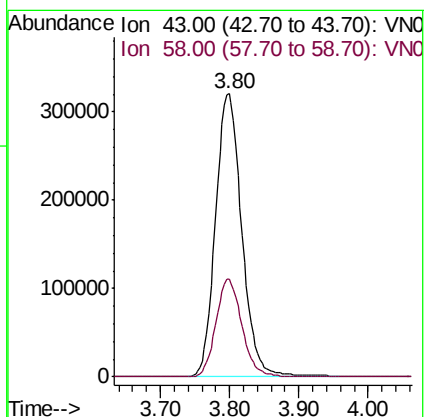
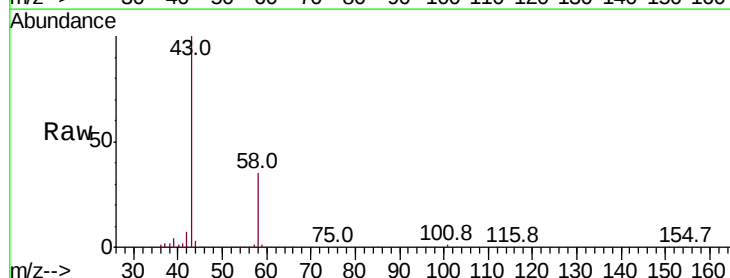
Acq: 25 Jul 2019 15:48

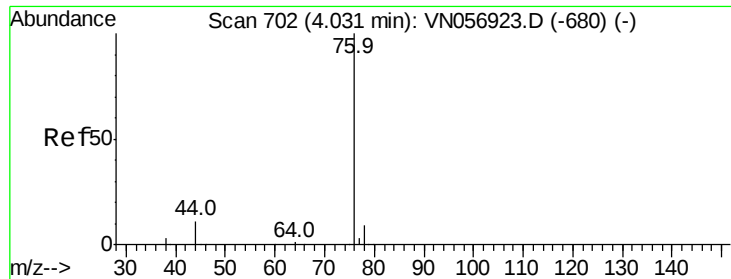
Tgt Ion: 43 Resp: 835065

Ion Ratio Lower Upper

43 100

58 34.7 27.3 40.9





#17

Carbon Disulfide

Concen: 95.932 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 76 Resp: 1214818

Ion Ratio Lower Upper

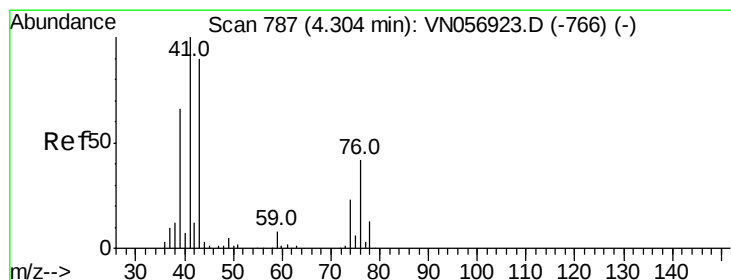
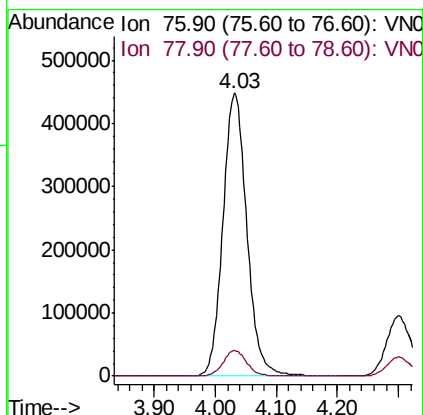
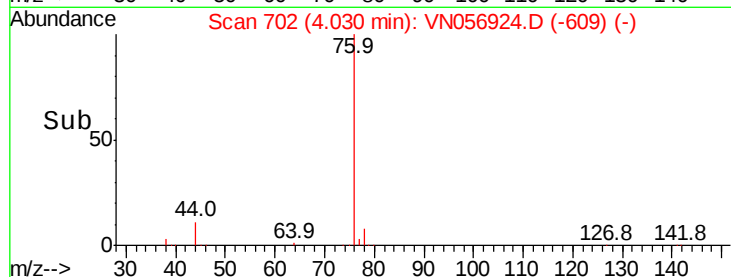
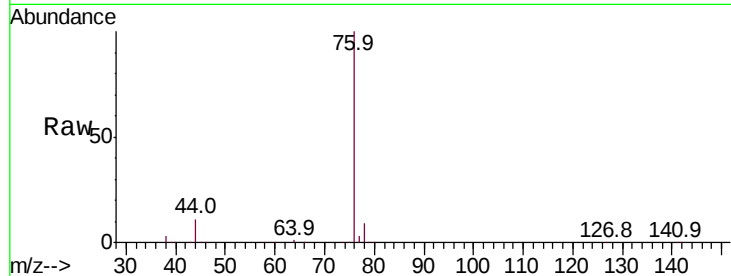
76 100

78 9.0 7.3 10.9

Manual Integrations
APPROVED

MMDadoda

7/26/2019 3:36:58 PM



#18

Methyl Acetate

Concen: 76.986 ug/l

RT: 4.30 min Scan# 787

Delta R.T. -0.00 min

Lab File: VN056924.D

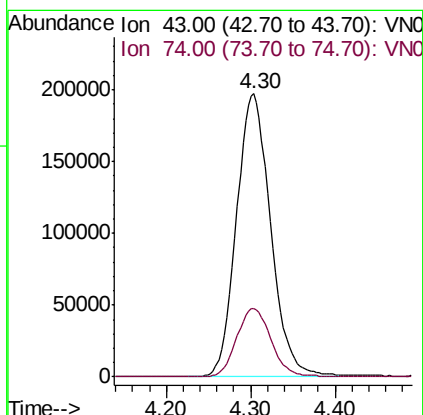
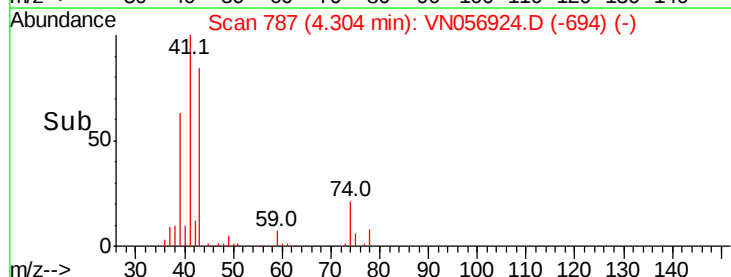
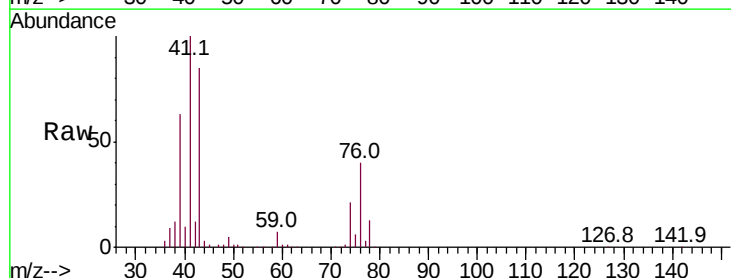
Acq: 25 Jul 2019 15:48

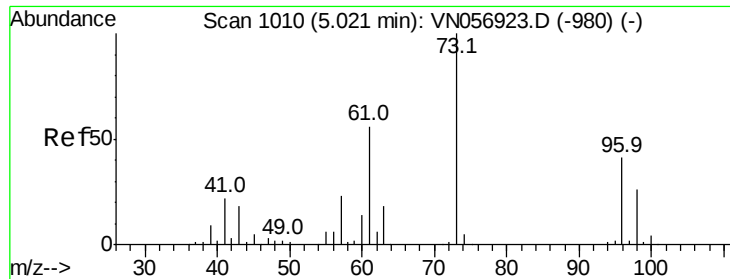
Tgt Ion: 43 Resp: 553743

Ion Ratio Lower Upper

43 100

74 24.6 19.4 29.0





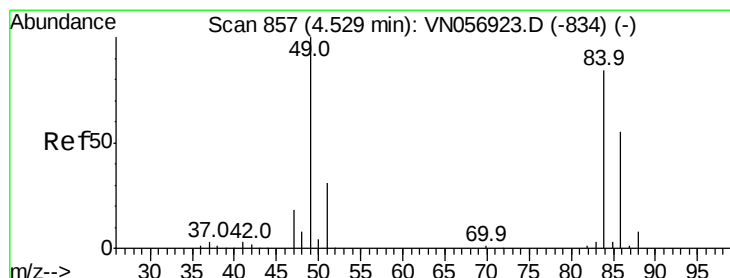
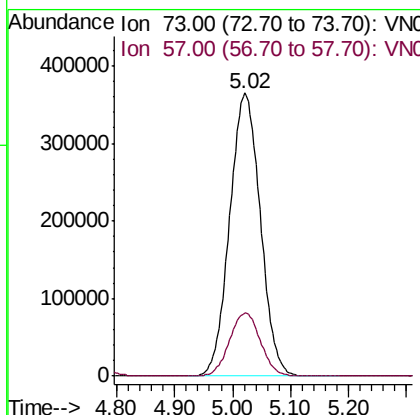
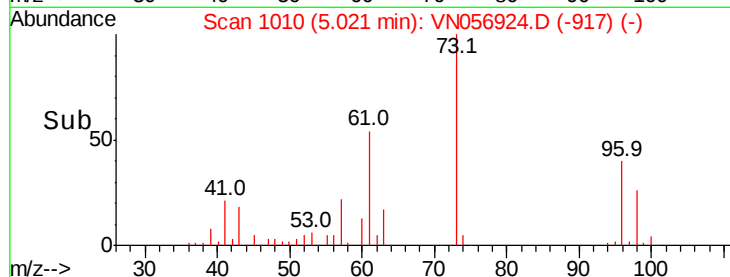
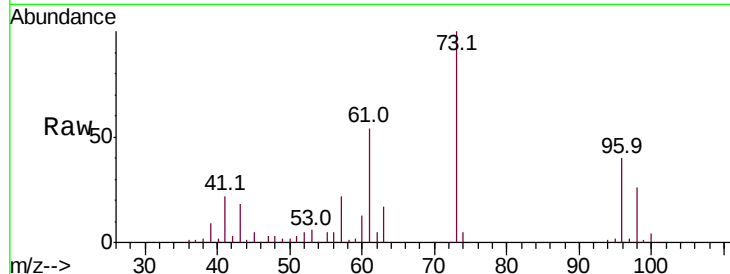
#19
Methyl tert-butyl Ether
Concen: 97.599 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 73 Resp: 1342052
Ion Ratio Lower Upper
73 100
57 22.3 18.2 27.4

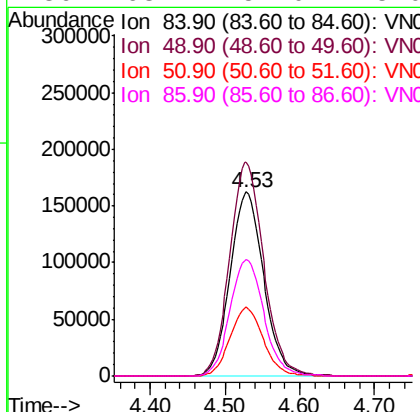
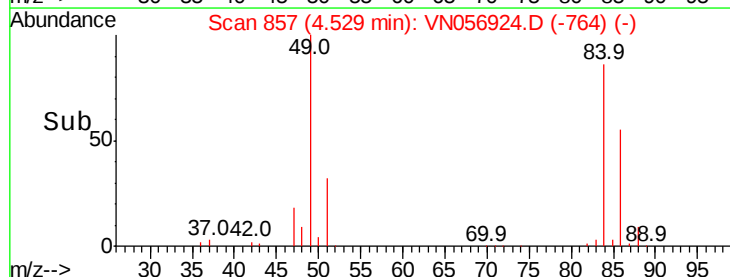
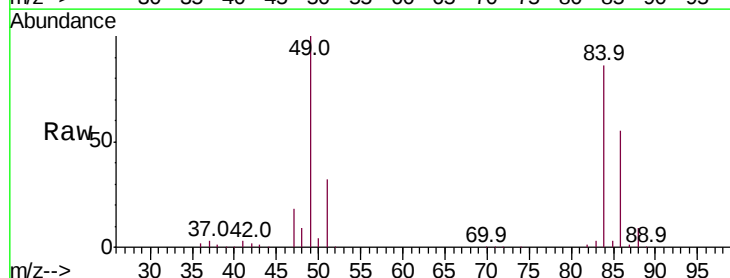
Manual Integrations
APPROVED

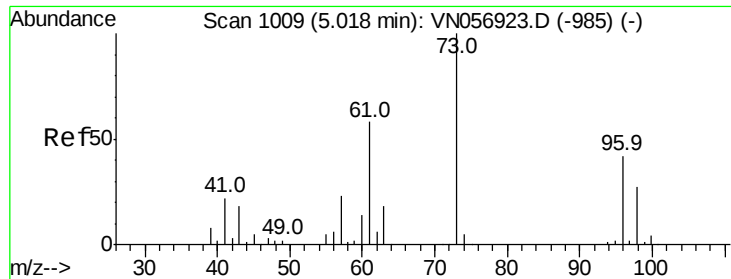
MMDadoda
7/26/2019 3:36:58 PM



#20
Methylene Chloride
Concen: 92.380 ug/l
RT: 4.53 min Scan# 857
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Tgt Ion: 84 Resp: 507720
Ion Ratio Lower Upper
84 100
49 116.0 95.0 142.6
51 37.2 29.8 44.8
86 63.4 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 97.051 ug/l

RT: 5.02 min Scan# 1009

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 96 Resp: 472903

Ion Ratio Lower Upper

96 100

61 136.3 109.9 164.9

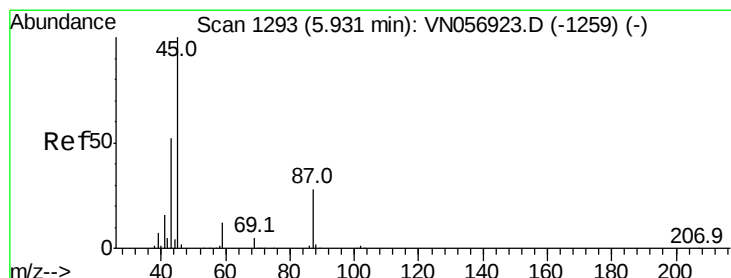
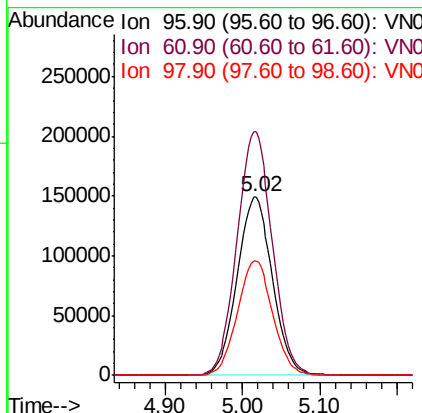
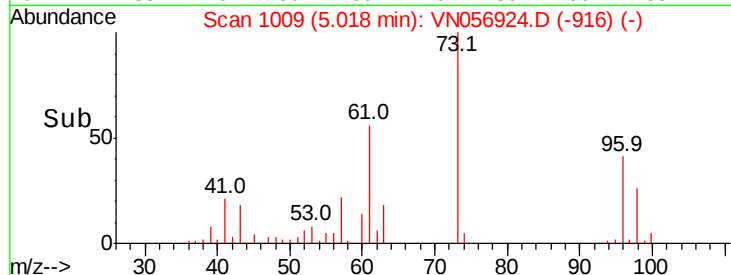
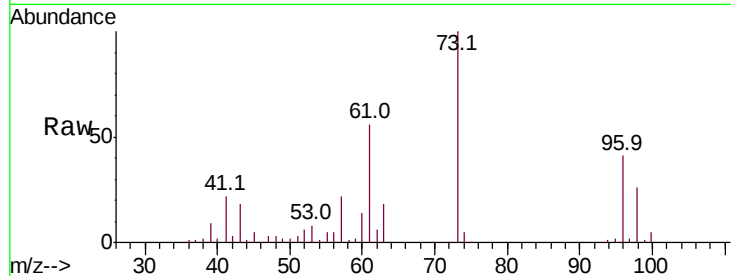
98 64.0 51.0 76.4

Manual Integrations

APPROVED

MMDadoda

7/26/2019 3:36:58 PM



#22

Diisopropyl ether

Concen: 95.768 ug/l

RT: 5.93 min Scan# 1293

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Tgt Ion: 45 Resp: 1480806

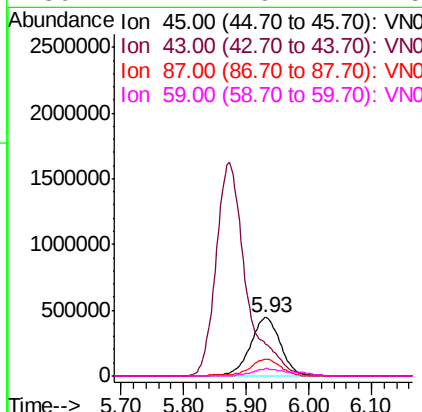
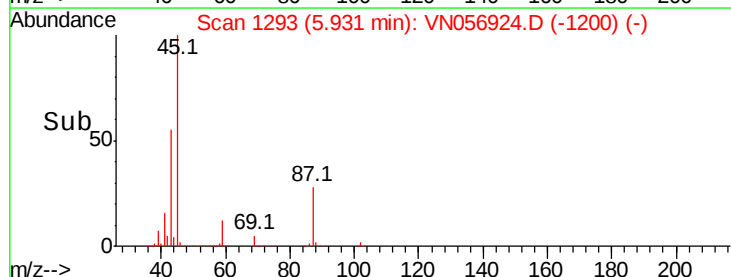
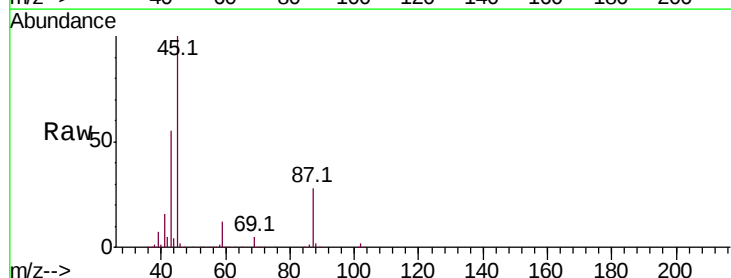
Ion Ratio Lower Upper

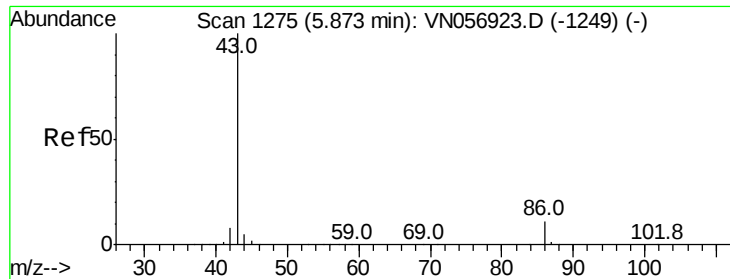
45 100

43 54.7 44.7 67.1

87 28.1 23.1 34.7

59 12.1 9.7 14.5





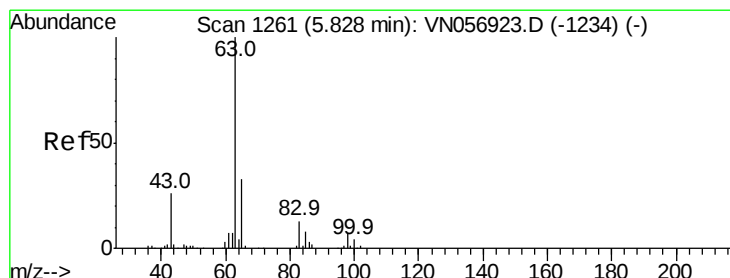
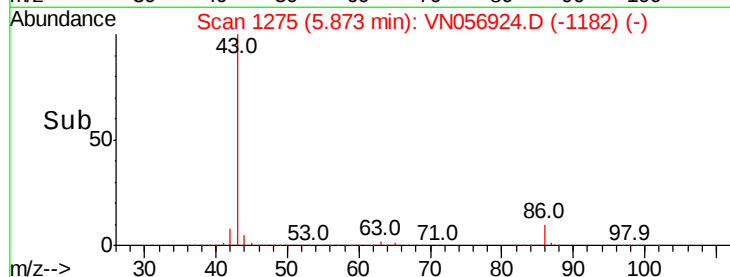
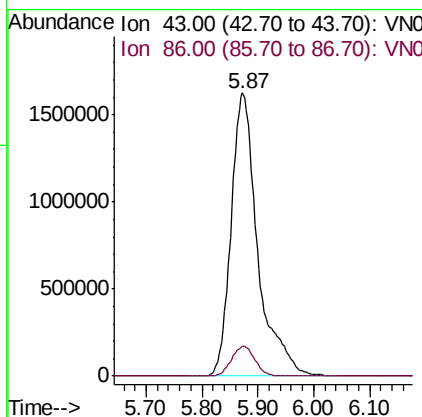
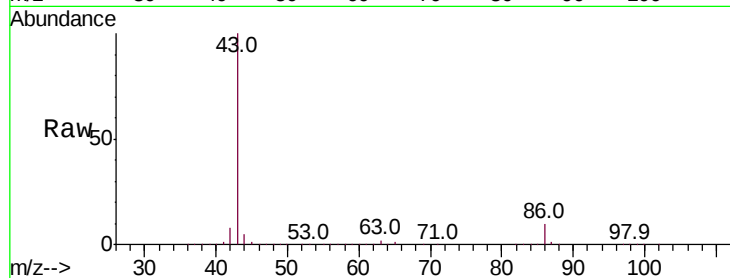
#23
 Vinyl Acetate
 Concen: 487.123 ug/l
 RT: 5.87 min Scan# 1275
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.6	13.0

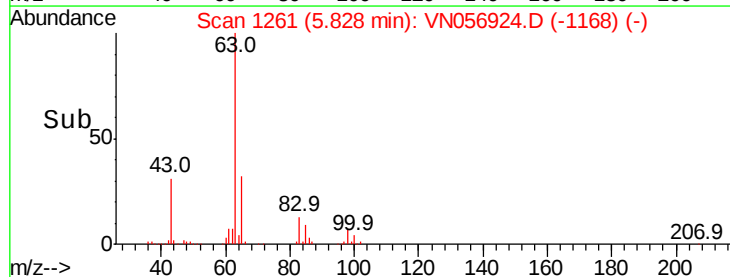
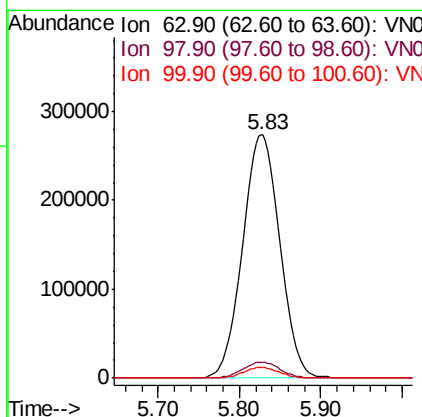
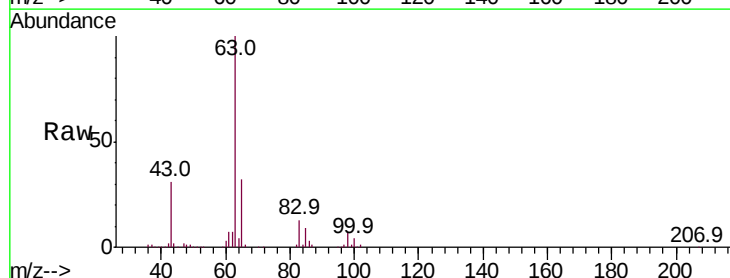
Manual Integrations
 APPROVED

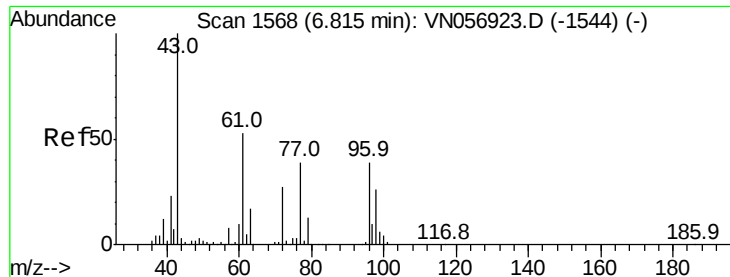
MMDadoda
 7/26/2019 3:36:58 PM



#24
 1,1-Dichloroethane
 Concen: 96.146 ug/l
 RT: 5.83 min Scan# 1261
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Tgt Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.4	10.1
100	4.3	2.1	6.3





#25

2-Butanone

Concen: 478.964 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 43 Resp: 1298398

Ion Ratio Lower Upper

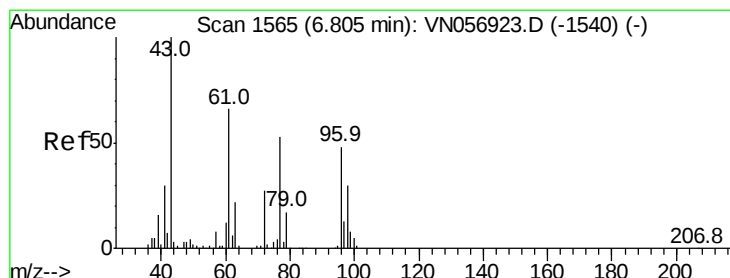
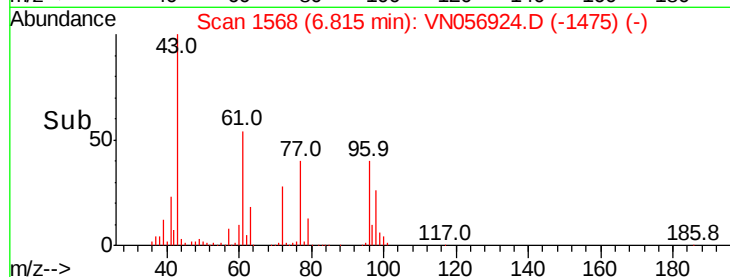
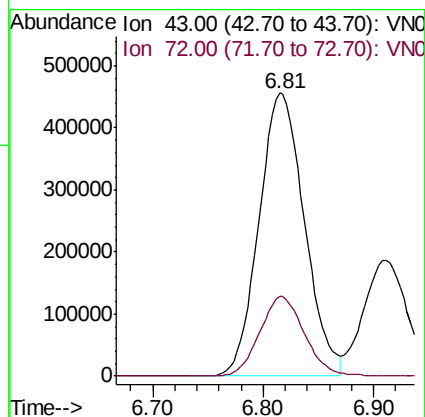
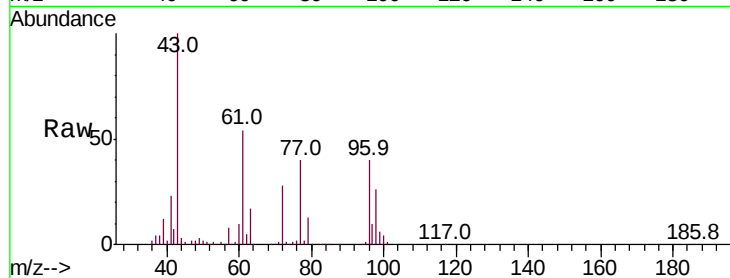
43 100

72 28.2 21.9 32.9

Manual Integrations
APPROVED

MMDadoda

7/26/2019 3:36:58 PM



#26

2,2-Dichloropropane

Concen: 102.969 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN056924.D

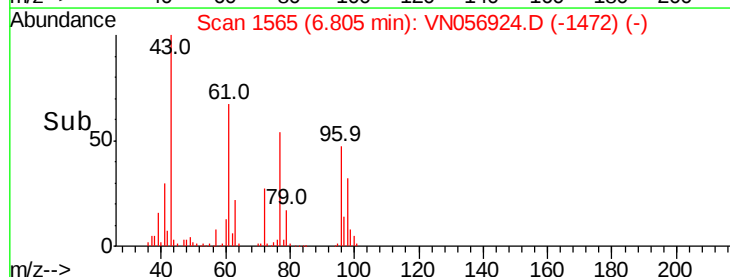
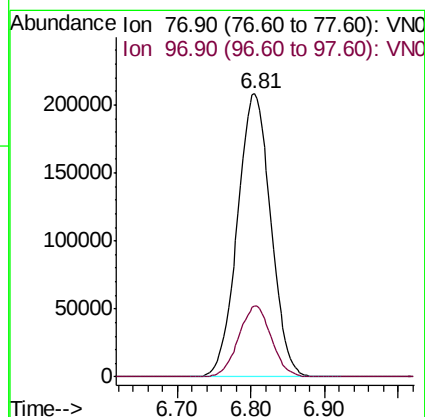
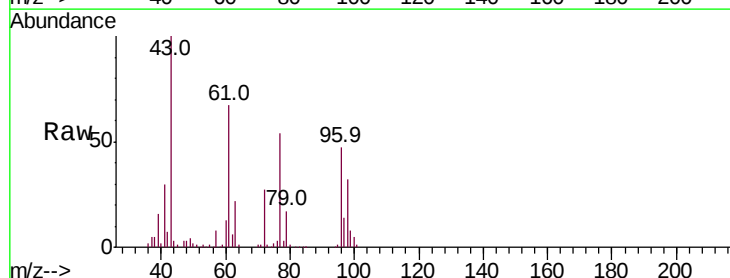
Acq: 25 Jul 2019 15:48

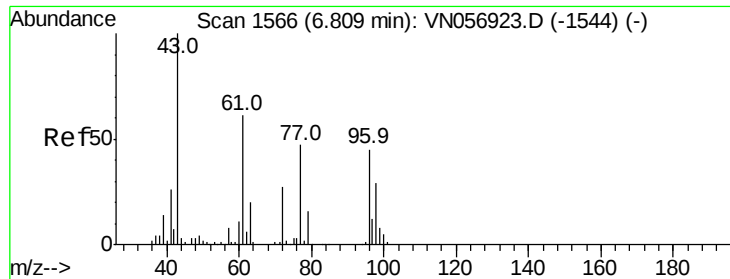
Tgt Ion: 77 Resp: 656147

Ion Ratio Lower Upper

77 100

97 24.6 12.3 36.8





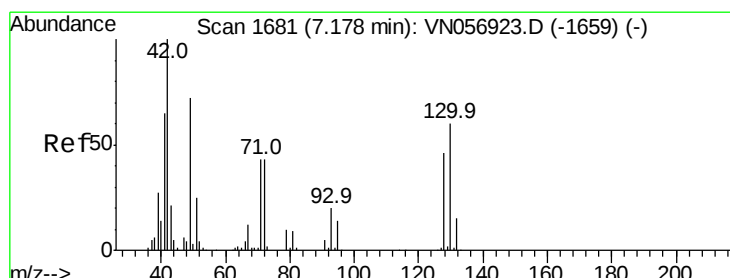
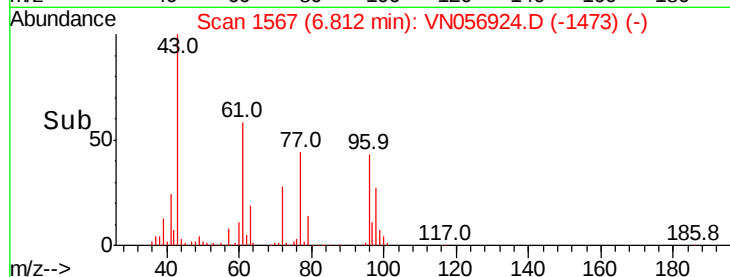
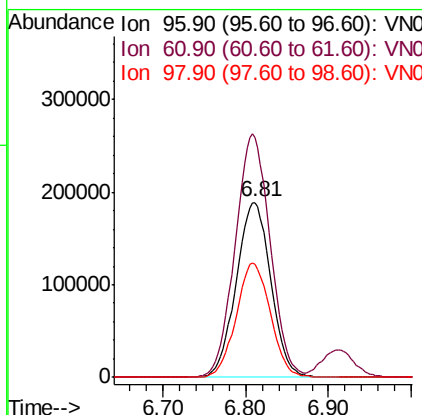
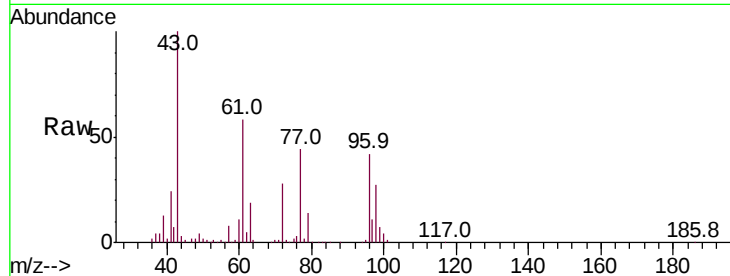
#27
 cis-1,2-Dichloroethene
 Concen: 97.851 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. 0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
96	100	548122		
61	140.3	0.0	278.8	
98	64.7	0.0	130.0	

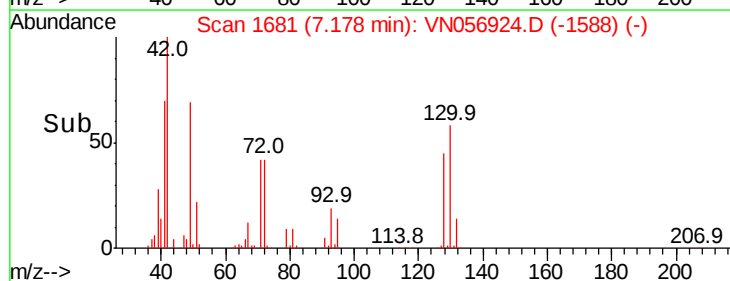
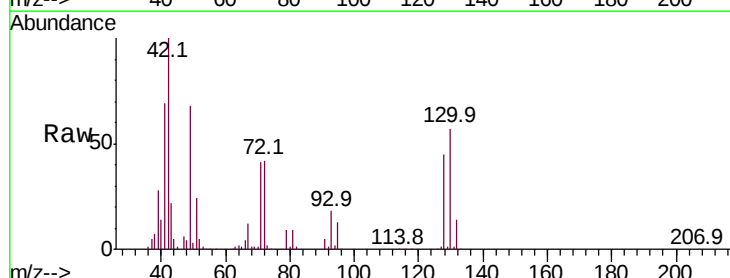
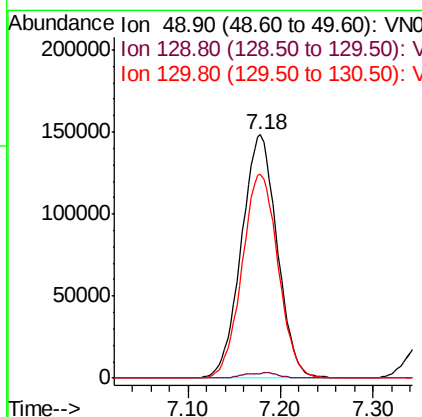
Manual Integrations
 APPROVED

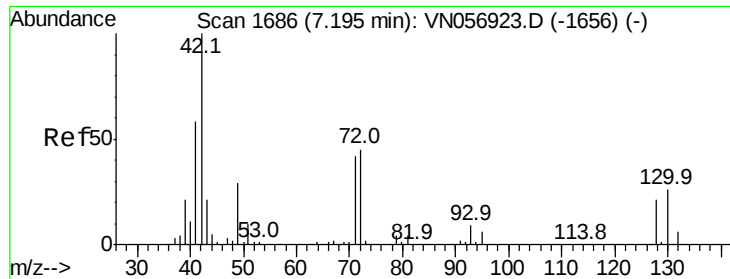
MMDadoda
 7/26/2019 3:36:58 PM



#28
 Bromochloromethane
 Concen: 97.234 ug/l
 RT: 7.18 min Scan# 1681
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	396960		
129	2.2	0.0	4.4	
130	84.6	67.3	100.9	





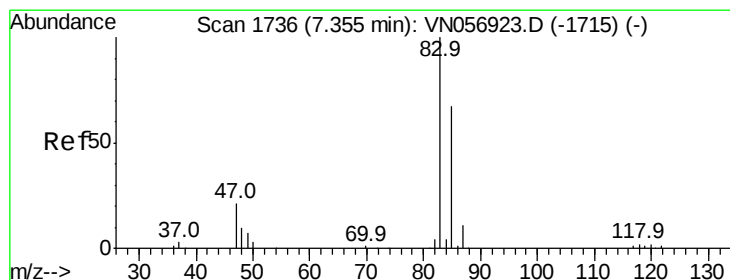
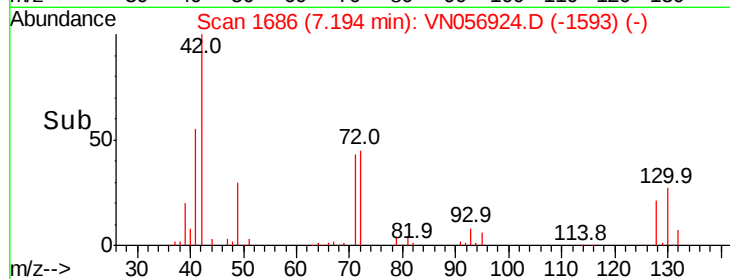
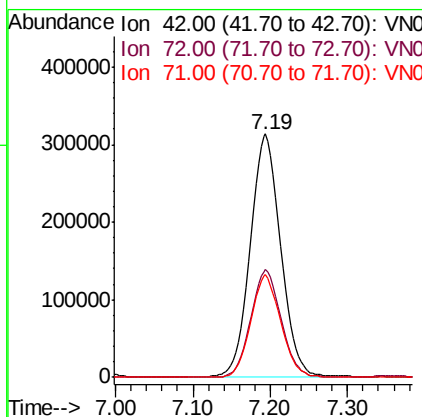
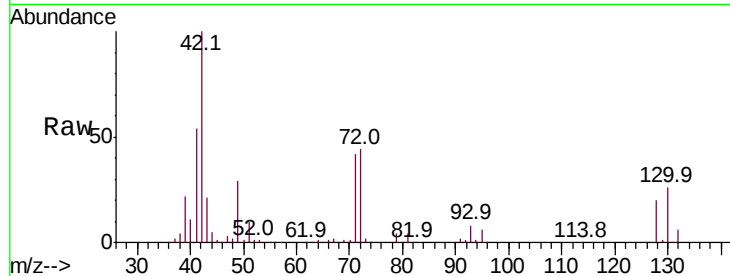
#29
Tetrahydrofuran
Concen: 468.064 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.9	35.5	53.3
71	41.4	33.0	49.6

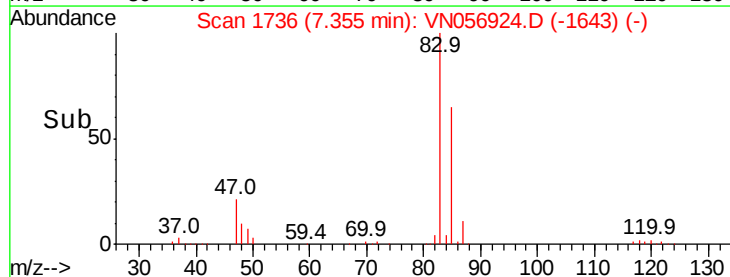
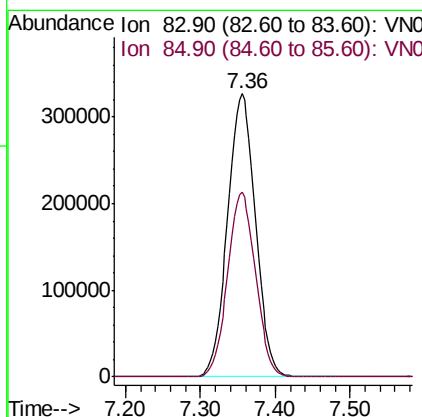
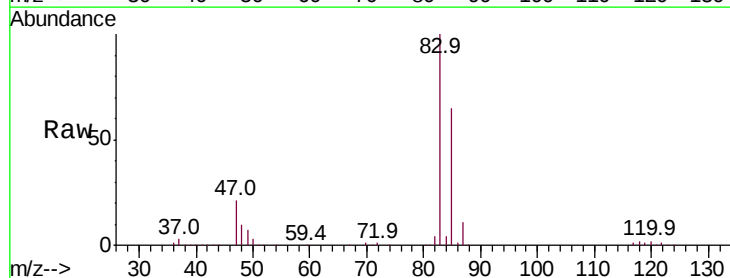
Manual Integrations
APPROVED

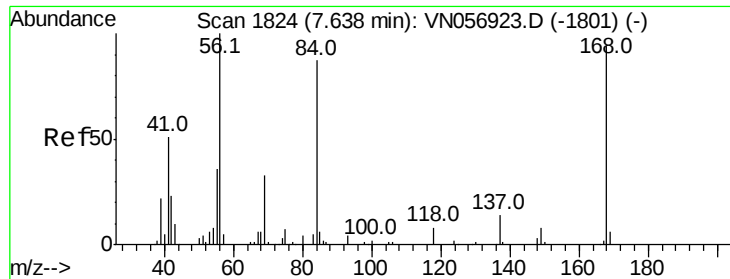
MMDadoda
7/26/2019 3:36:58 PM



#30
Chloroform
Concen: 94.173 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	53.5	80.3





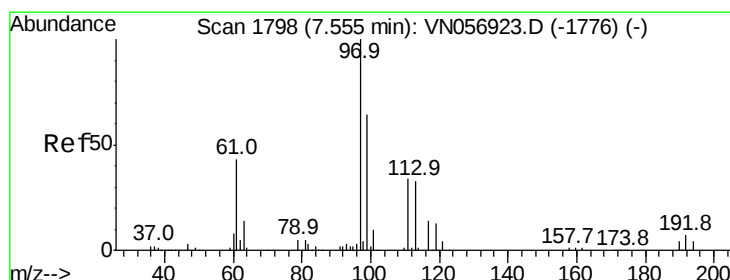
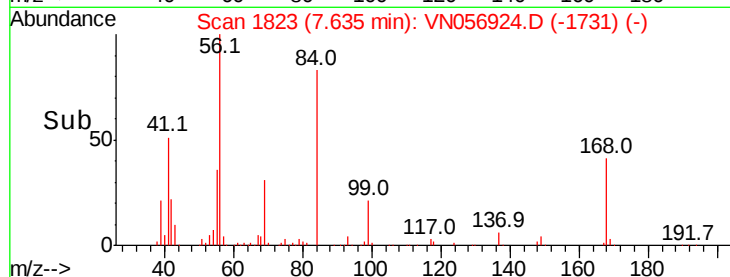
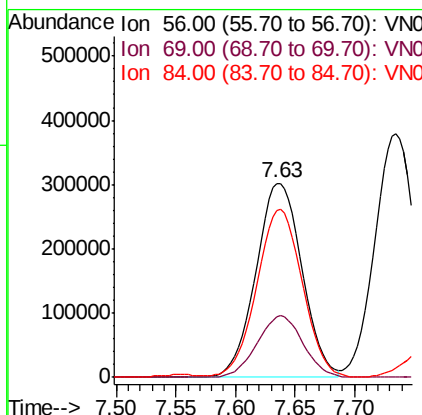
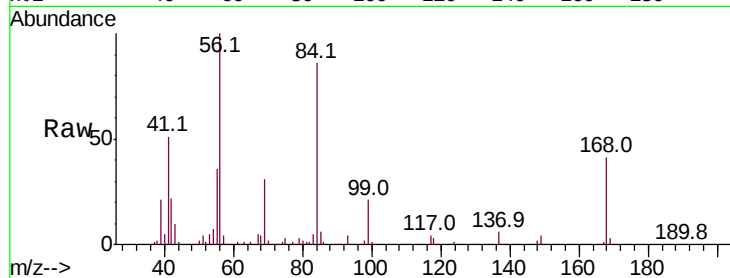
#31
Cyclohexane
Concen: 93.234 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Instrument :
MSVOA_N
ClientSampleID :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.1	26.3	39.5
84	85.0	69.6	104.4

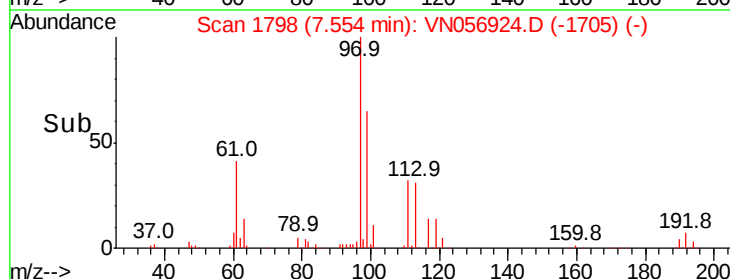
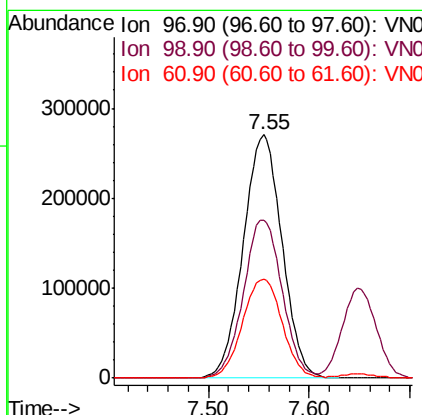
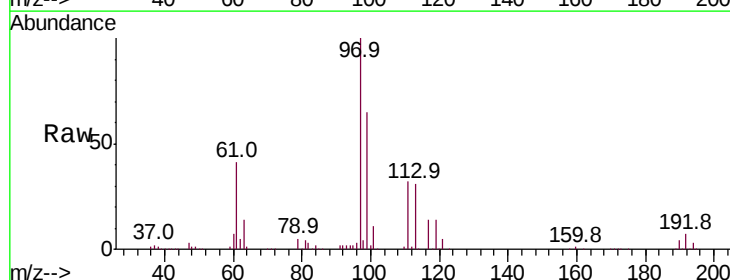
Manual Integrations
APPROVED

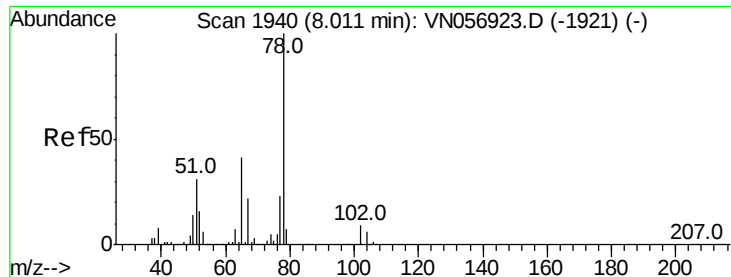
MMDadoda
7/26/2019 3:36:58 PM



#32
1,1,1-Trichloroethane
Concen: 98.778 ug/l
RT: 7.55 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.6	77.4
61	41.7	33.8	50.6





#33

1,2-Dichloroethane-d4

Concen: 90.707 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 65 Resp: 470048

Ion Ratio Lower Upper

65 100

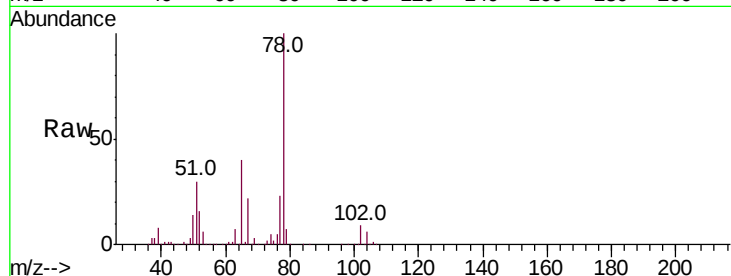
67 55.5 0.0 109.2

Manual Integrations

APPROVED

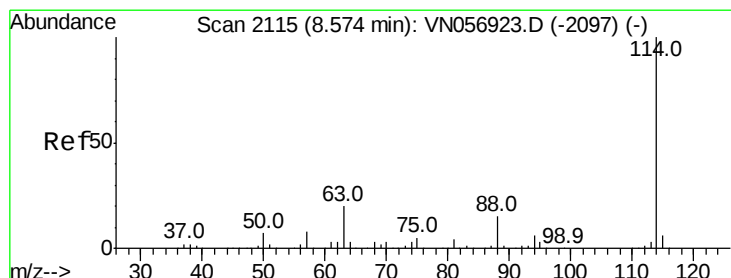
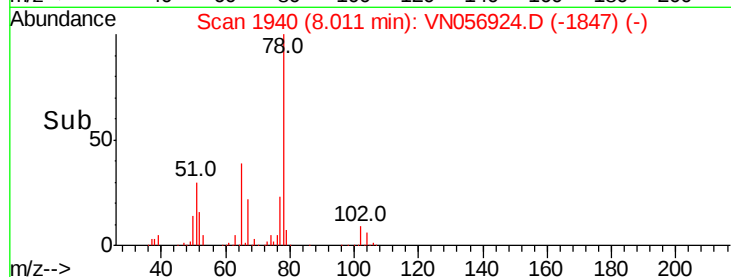
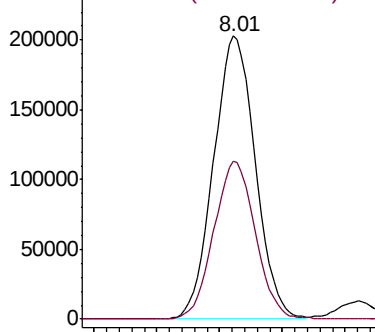
MMDadoda

7/26/2019 3:36:58 PM



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

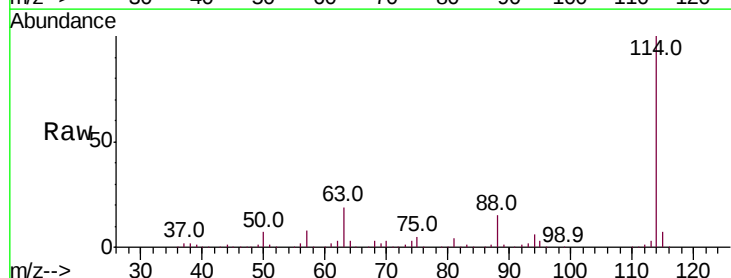
Tgt Ion: 114 Resp: 717629

Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.4

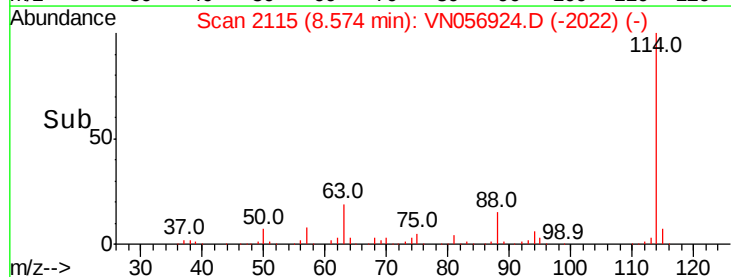
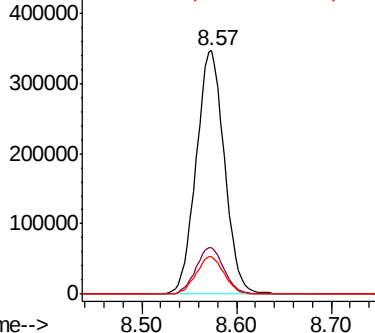
88 15.4 0.0 30.4

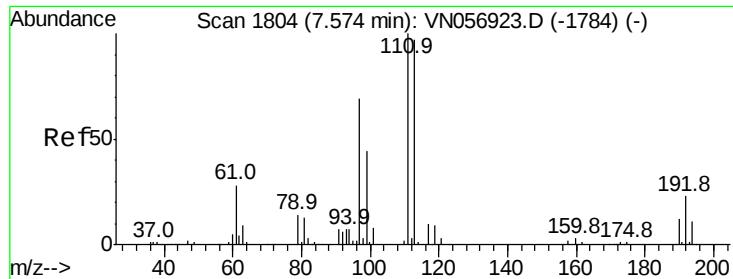


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





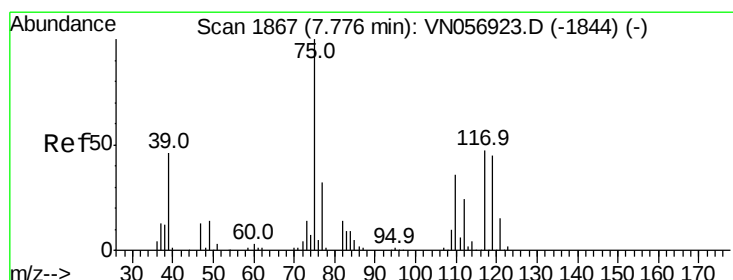
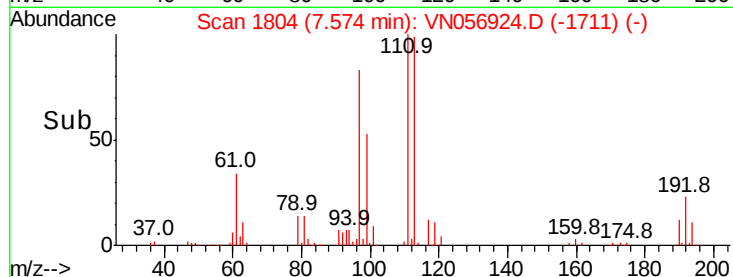
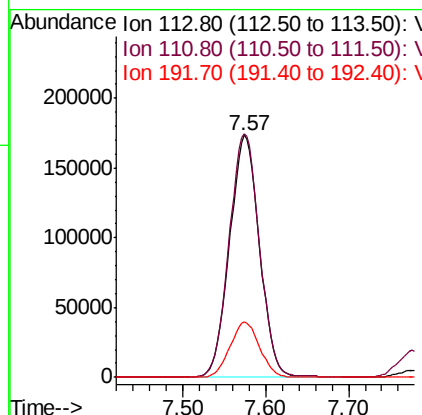
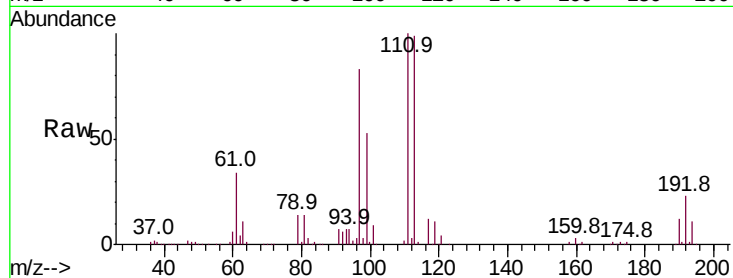
#35
 Dibromofluoromethane
 Concen: 93.931 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.2	123.2
192	22.8	18.3	27.5

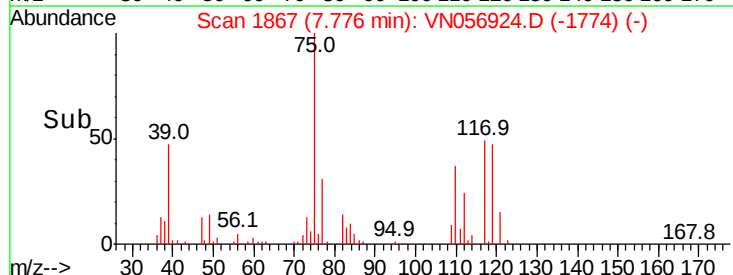
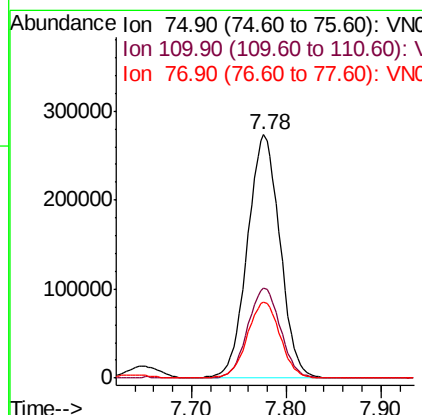
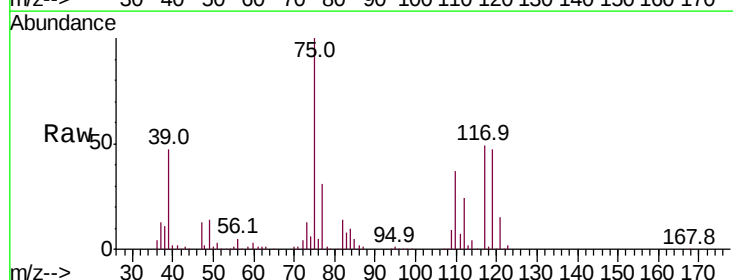
Manual Integrations
 APPROVED

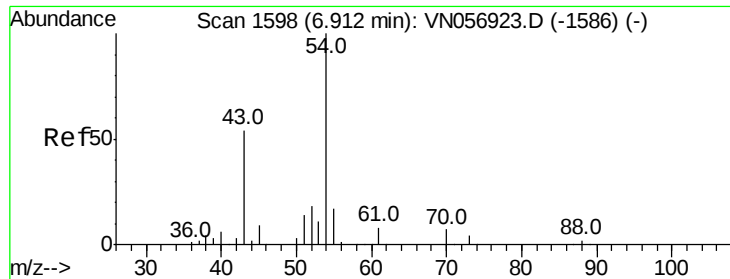
MMDadoda
 7/26/2019 3:36:58 PM



#36
 1,1-Dichloropropene
 Concen: 98.180 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.3	18.9	56.9
77	31.7	25.4	38.0





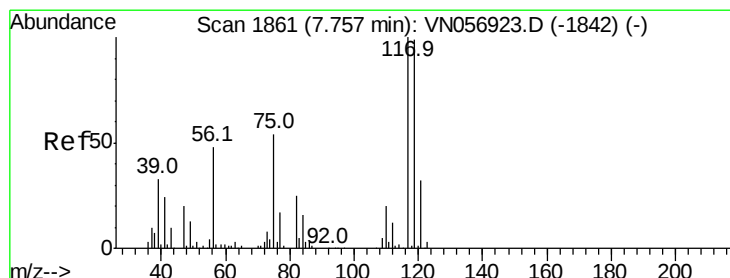
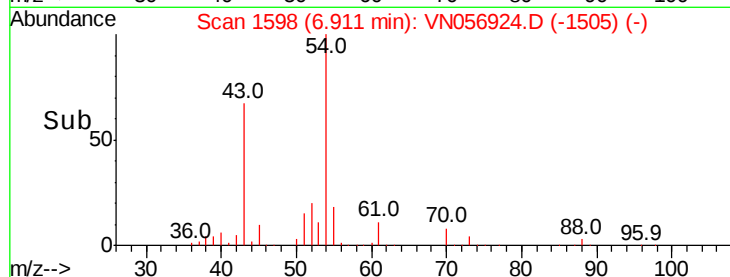
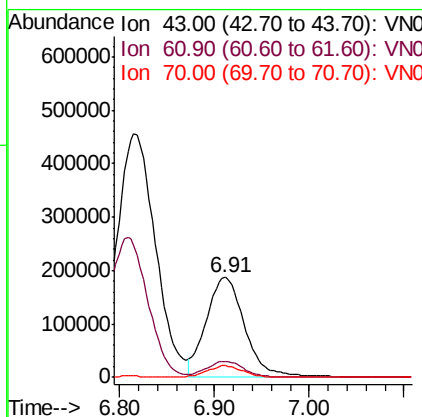
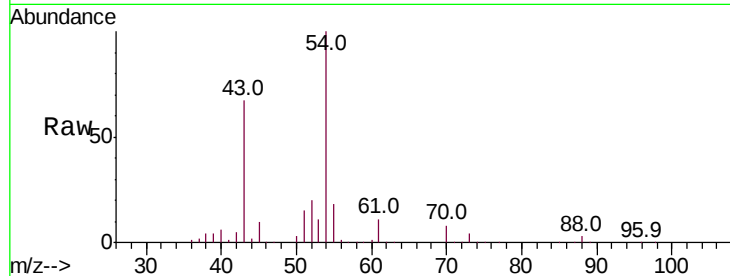
#37
Ethyl Acetate
Concen: 98.721 ug/l
RT: 6.91 min Scan# 1598
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.3	11.9	17.9
70	11.0	8.8	13.2

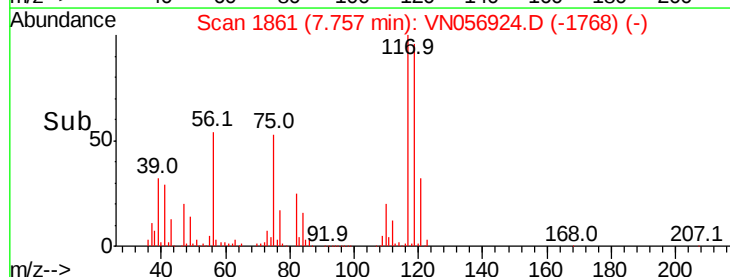
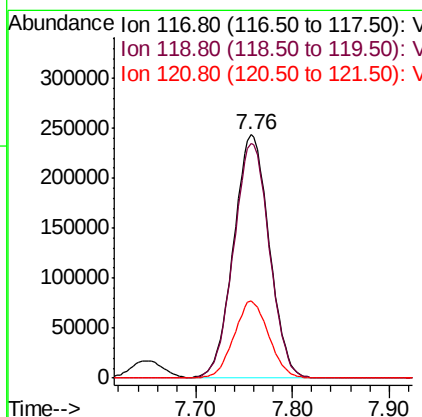
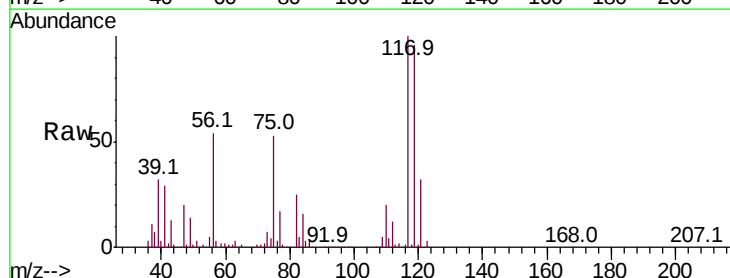
Manual Integrations
APPROVED

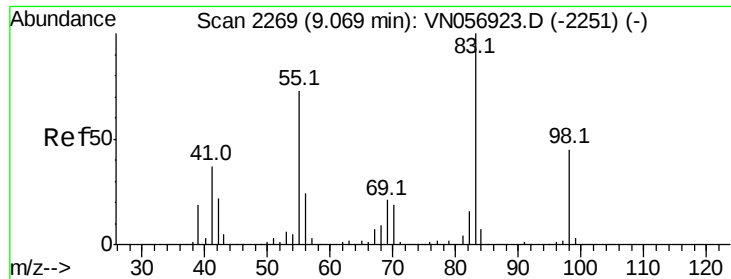
MMDadoda
7/26/2019 3:36:58 PM



#38
Carbon Tetrachloride
Concen: 98.761 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.4	79.0	118.6
121	31.7	25.1	37.7





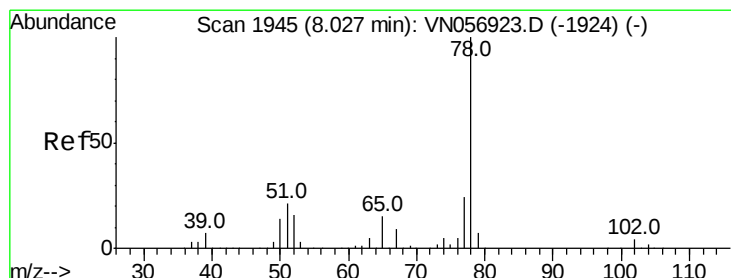
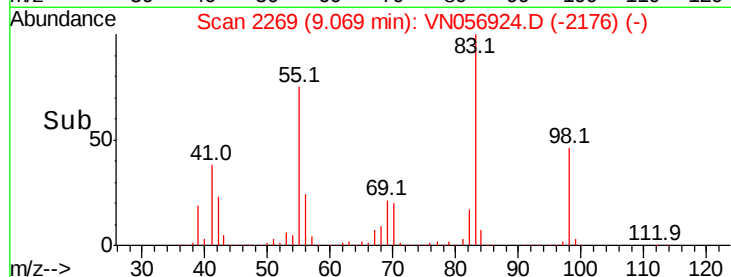
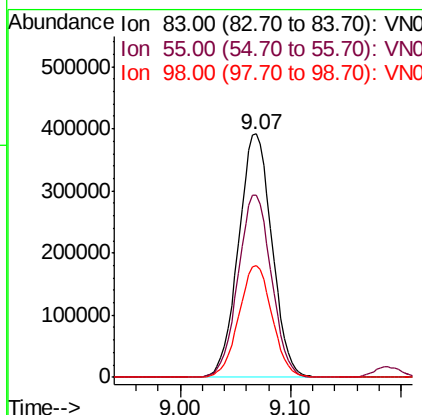
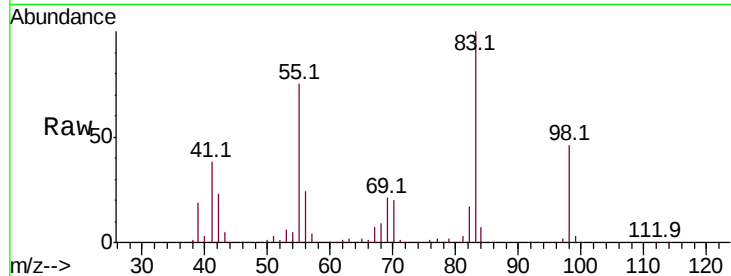
#39
Methvlcvclohexane
Concen: 98.982 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	83	Resp	823381
Ion Ratio	100	Lower	Upper
83	100		
55	75.0	58.8	88.2
98	46.1	35.8	53.6

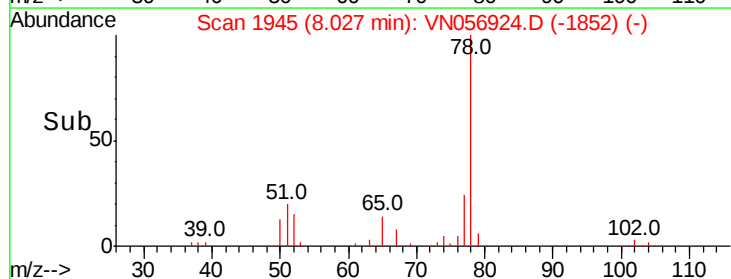
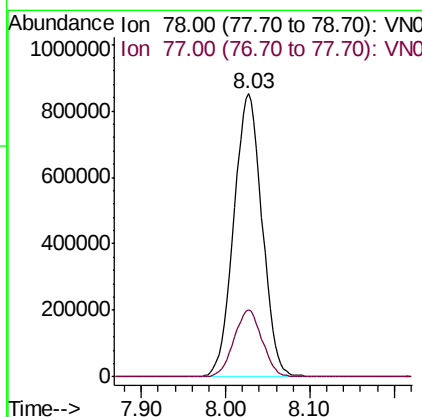
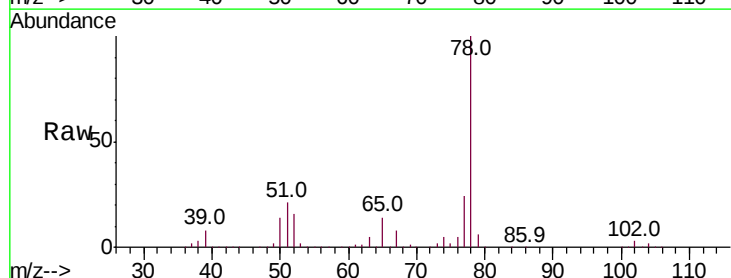
Manual Integrations
APPROVED

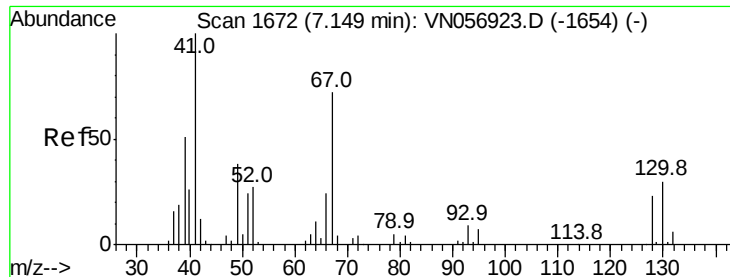
MMDadoda
7/26/2019 3:36:58 PM



#40
Benzene
Concen: 96.776 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Tgt Ion	78	Resp	1994976
Ion Ratio	100	Lower	Upper
78	100		
77	23.7	19.5	29.3





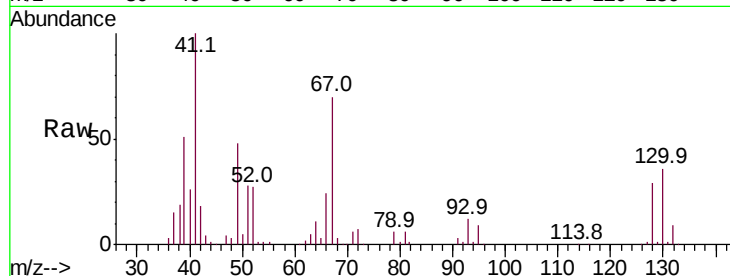
#41
Methacrylonitrile
Concen: 89.845 ug/l m
RT: 7.15 min Scan# 1673
Delta R.T. 0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

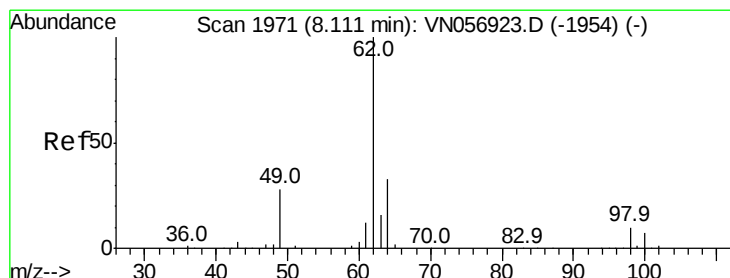
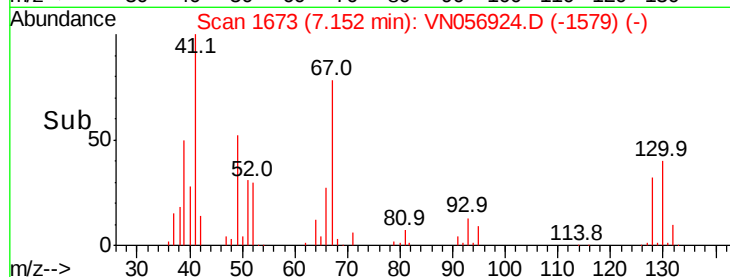
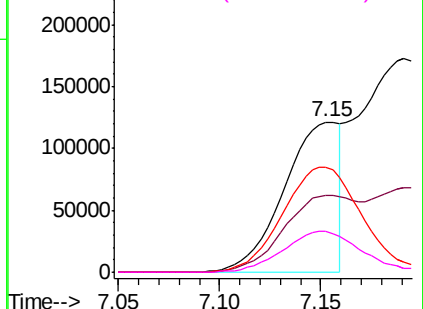
Tot Ion	41	Resp	229916
Ion Ratio	100	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
7/26/2019 3:36:58 PM

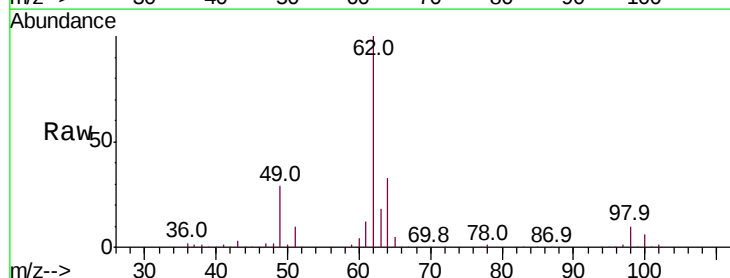


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

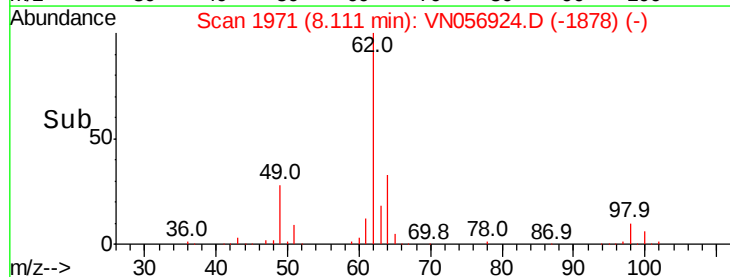
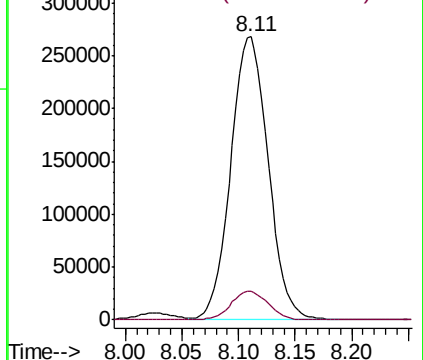


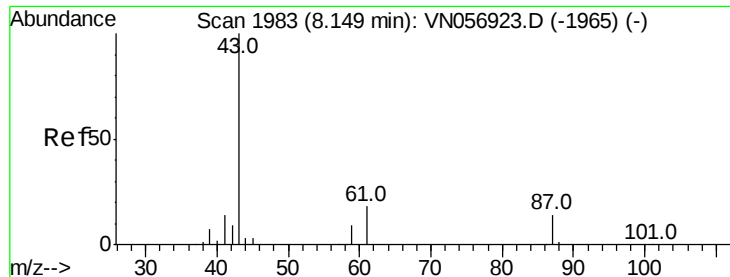
#42
1,2-Dichloroethane
Concen: 95.374 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Tgt Ion	62	Resp	614261
Ion Ratio	100	Lower	Upper
62	100		
98	10.2	0.0	20.8



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 97.90 (97.60 to 98.60): VNO





#43

Isopropyl Acetate

Concen: 96.959 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 886638

Ion Ratio Lower Upper

43 100

61 29.4 23.8 35.6

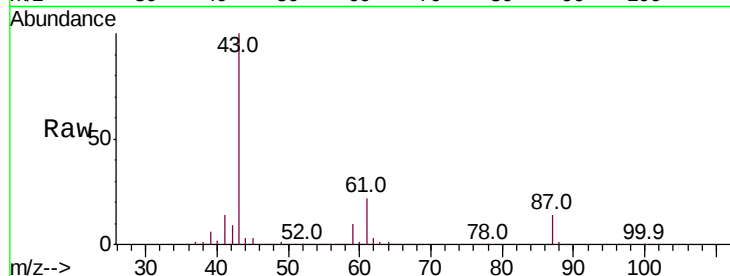
87 14.1 11.8 17.6

Manual Integrations

APPROVED

MMDadoda

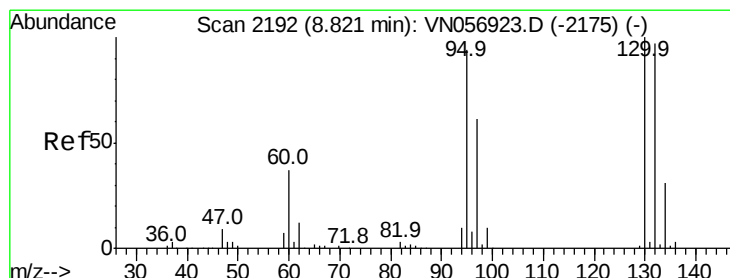
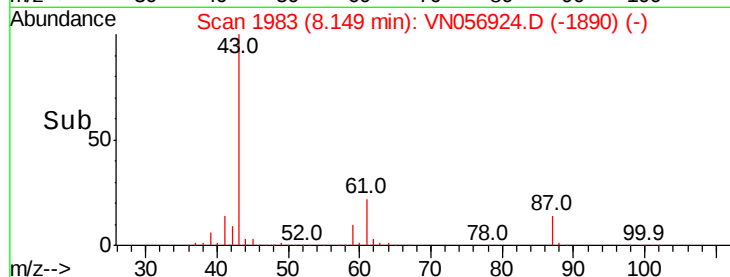
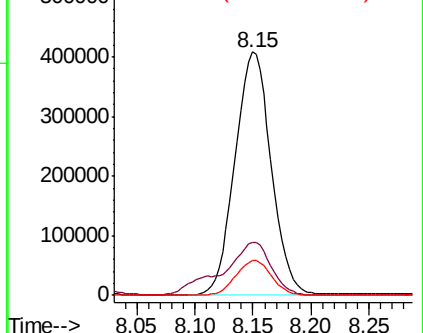
7/26/2019 3:36:58 PM



Abundance Ion 43.00 (42.70 to 43.70): VN056923.D (-1965) (-)

Ion 61.00 (60.70 to 61.70): VN056923.D (-1965) (-)

Ion 87.00 (86.70 to 87.70): VN056923.D (-1965) (-)



#44

Trichloroethene

Concen: 99.314 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VN056924.D

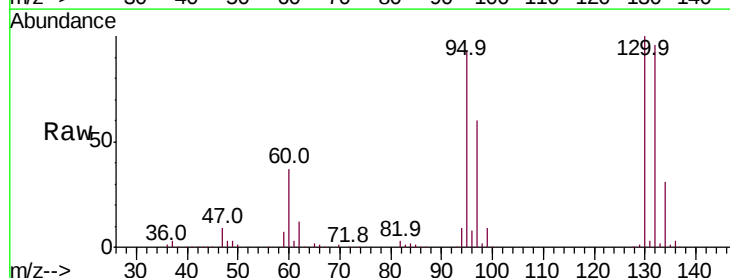
Acq: 25 Jul 2019 15:48

Tgt Ion:130 Resp: 551447

Ion Ratio Lower Upper

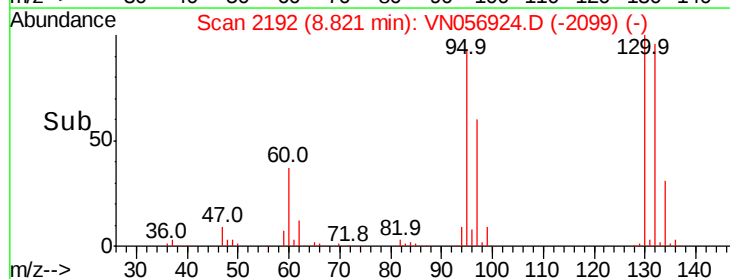
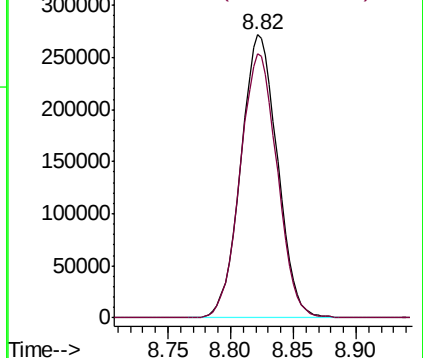
130 100

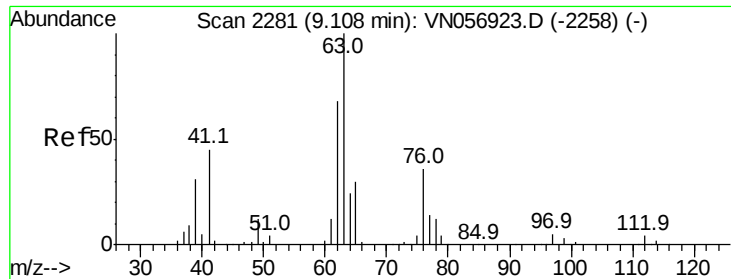
95 93.2 0.0 187.6



Abundance Ion 129.80 (129.50 to 130.50): VN056923.D (-2175) (-)

Ion 94.90 (94.60 to 95.60): VN056923.D (-2175) (-)





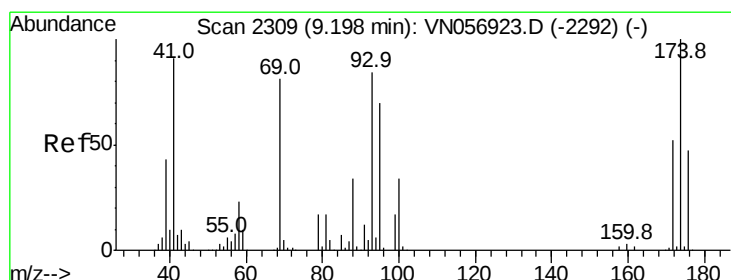
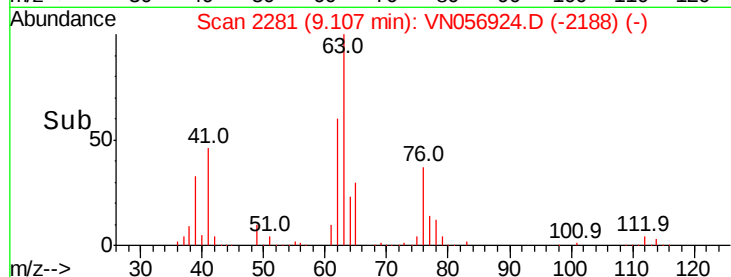
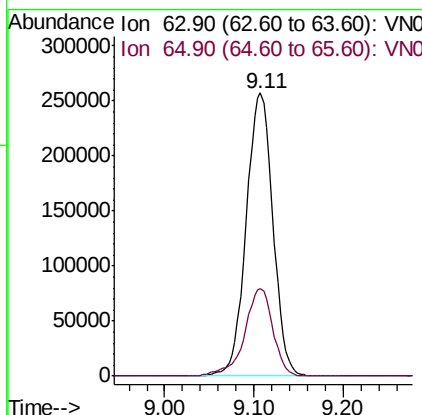
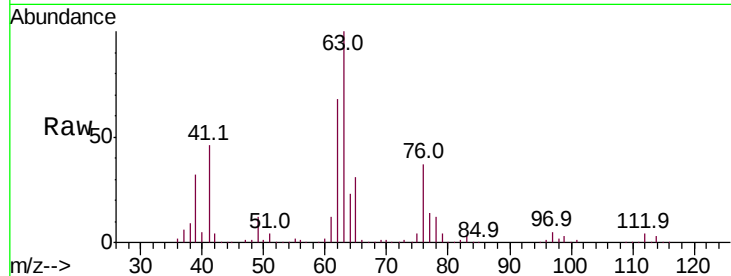
#45
 1,2-Dichloropropane
 Concen: 96.292 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 63 Resp: 536064
 Ion Ratio Lower Upper
 63 100
 65 31.0 24.5 36.7

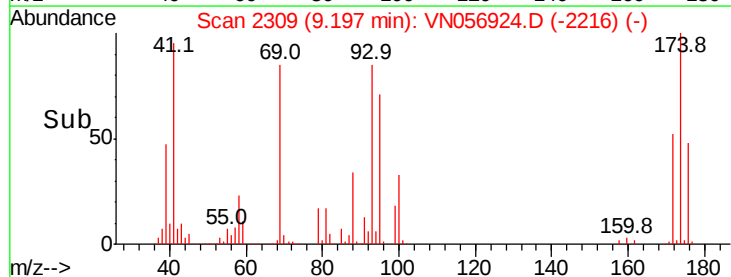
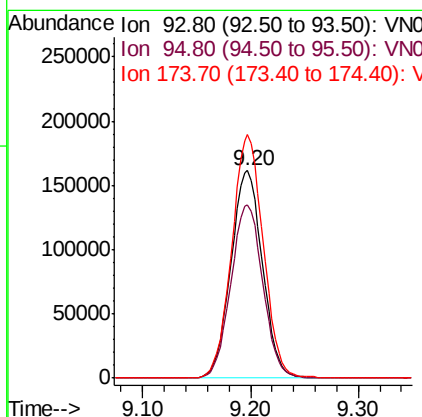
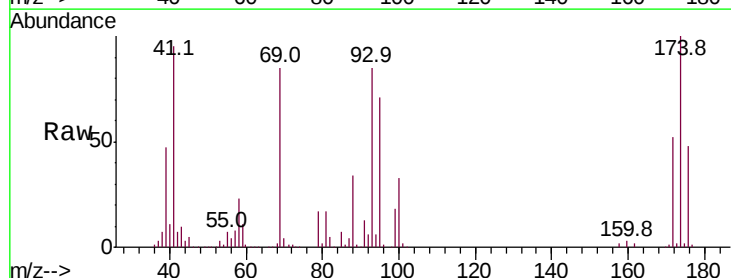
Manual Integrations
 APPROVED

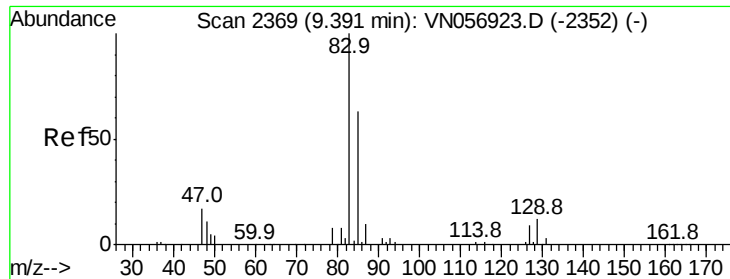
MMDadoda
 7/26/2019 3:36:58 PM



#46
 Dibromomethane
 Concen: 95.889 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Tgt Ion: 93 Resp: 329471
 Ion Ratio Lower Upper
 93 100
 95 84.5 66.8 100.2
 174 116.7 92.9 139.3





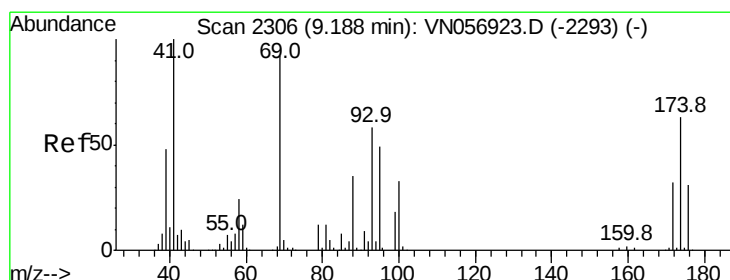
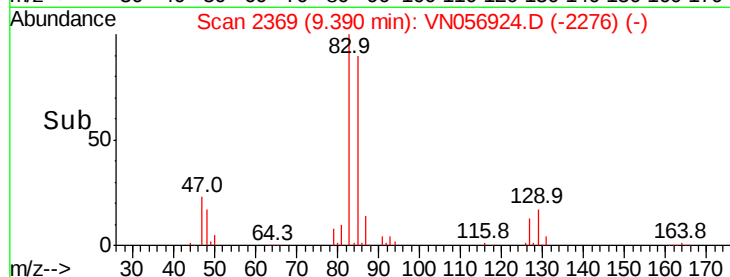
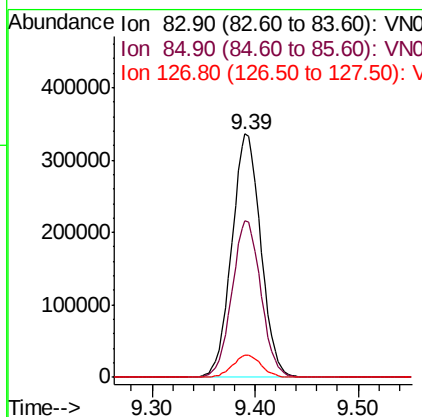
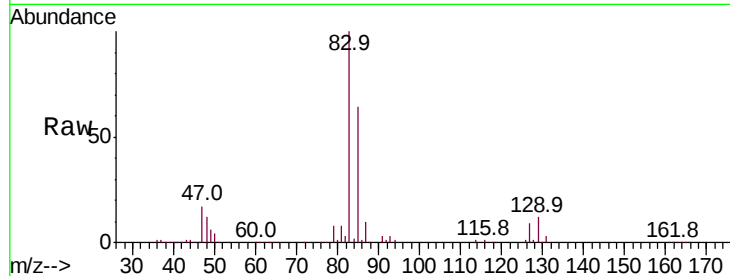
#47
Bromodichloromethane
Concen: 101.636 ug/l
RT: 9.39 min Scan# 2369
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	64.5	50.5	75.7	
127	9.2	7.4	11.0	

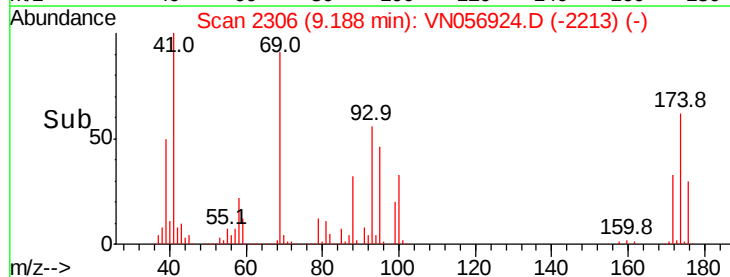
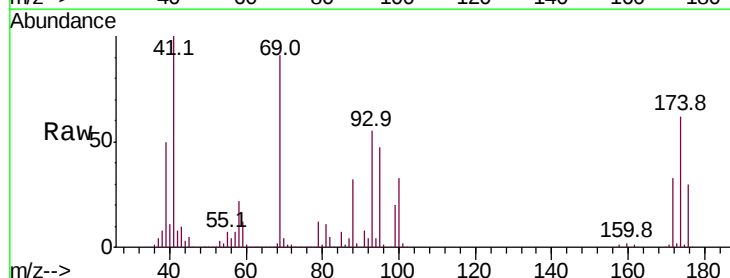
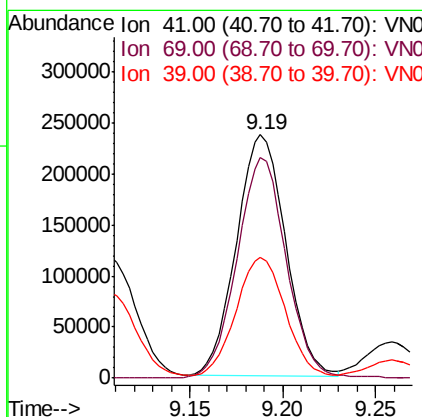
Manual Integrations
APPROVED

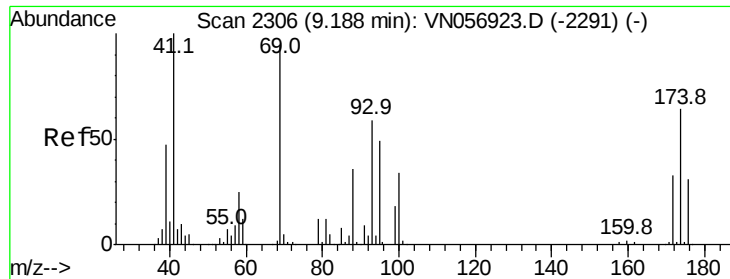
MMDadoda
7/26/2019 3:36:58 PM



#48
Methyl methacrylate
Concen: 95.861 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	91.9	73.4	110.0	
39	50.8	40.1	60.1	





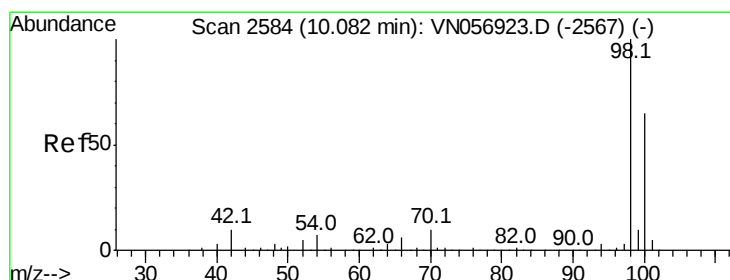
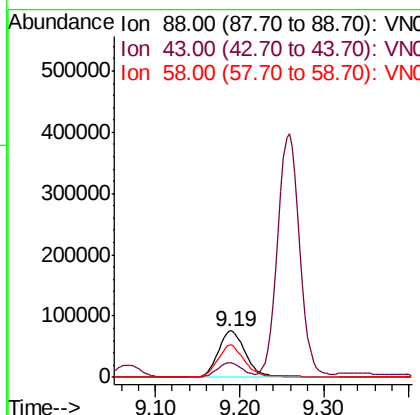
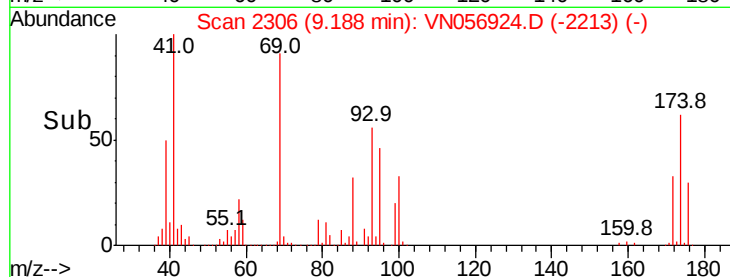
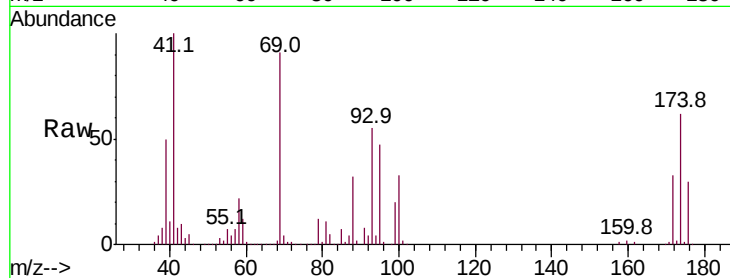
#49
1,4-Dioxane
Concen: 1911.487 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
88	100		
43	27.6	21.1	31.7
58	67.8	52.5	78.7

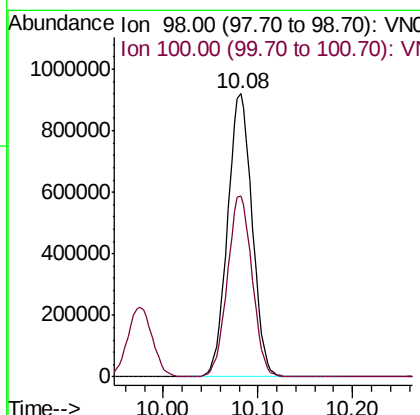
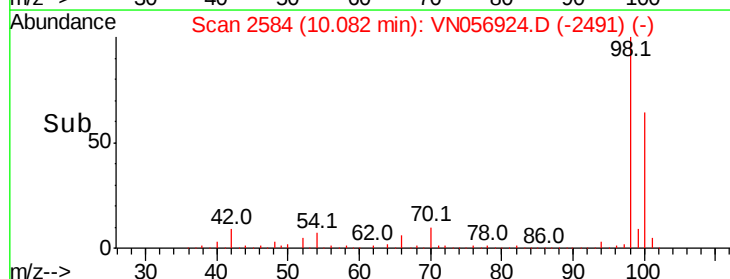
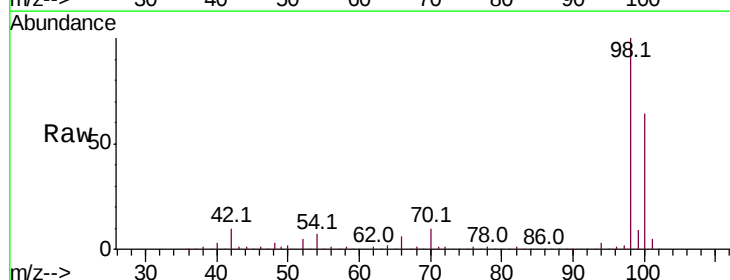
Manual Integrations
APPROVED

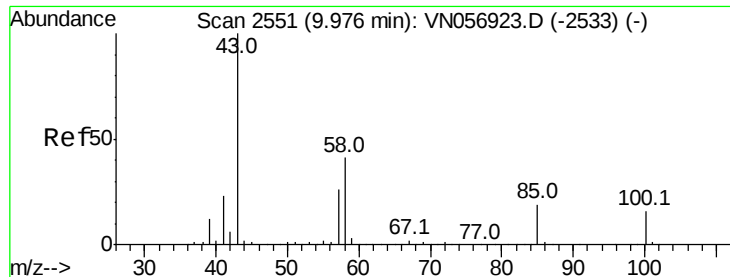
MMDadoda
7/26/2019 3:36:58 PM



#50
Toluene-d8
Concen: 93.868 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.4	77.2





#51

4-Methyl-2-Pentanone

Concen: 482.902 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 2627787

Ion Ratio Lower Upper

43 100

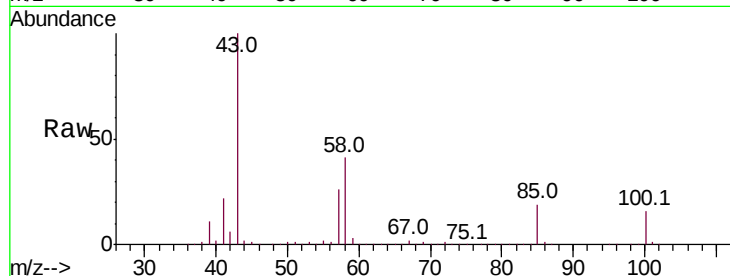
58 40.8 32.8 49.2

Manual Integrations

APPROVED

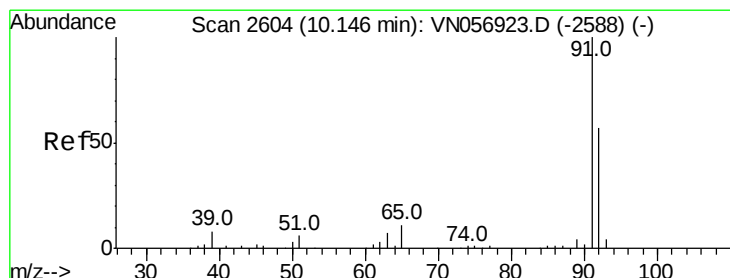
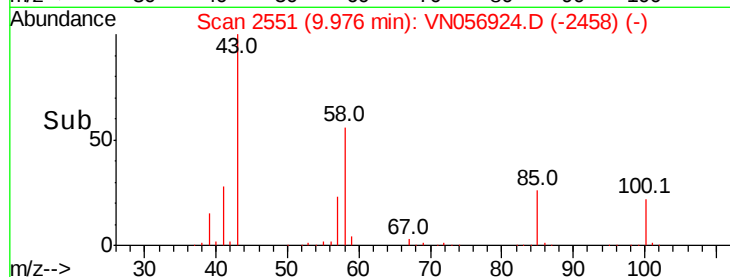
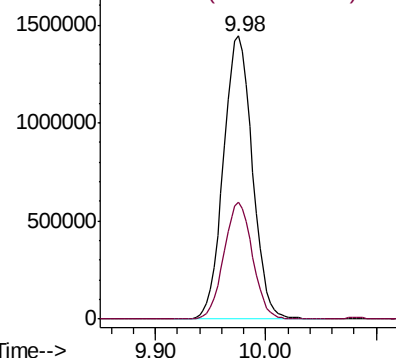
MMDadoda

7/26/2019 3:36:58 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 99.223 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN056924.D

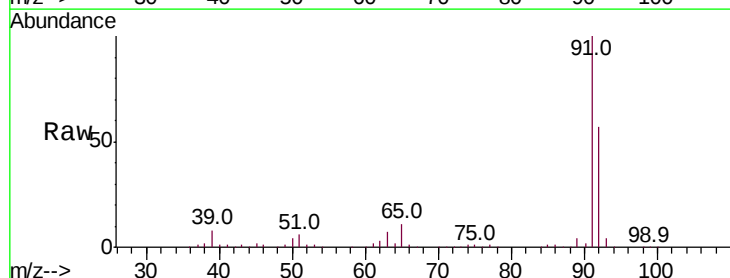
Acq: 25 Jul 2019 15:48

Tgt Ion: 92 Resp: 1232692

Ion Ratio Lower Upper

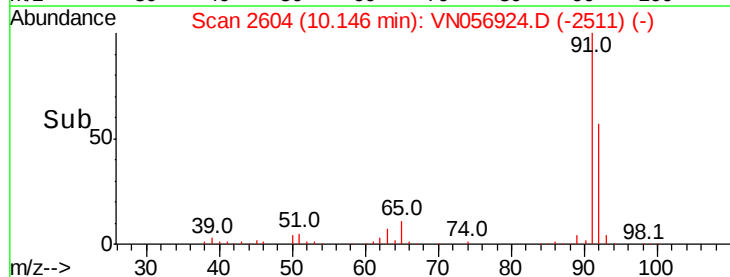
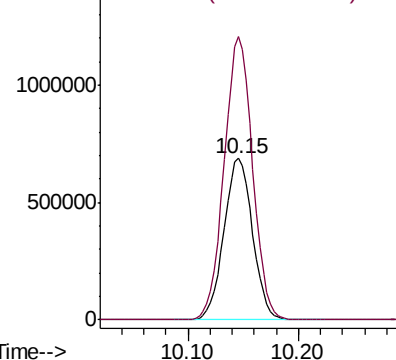
92 100

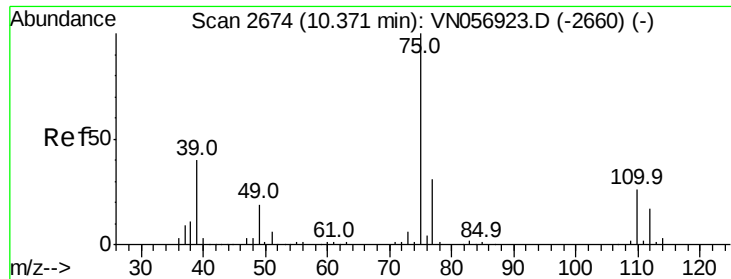
91 174.6 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





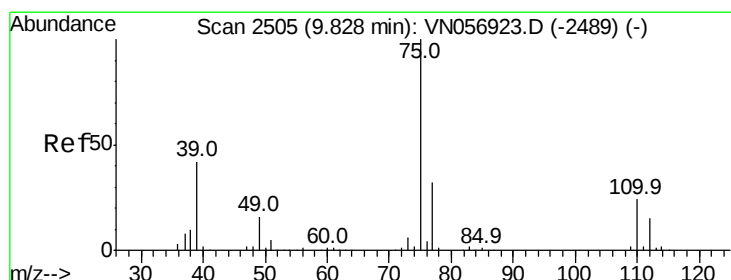
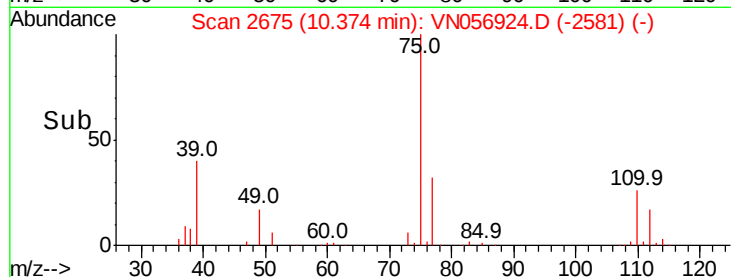
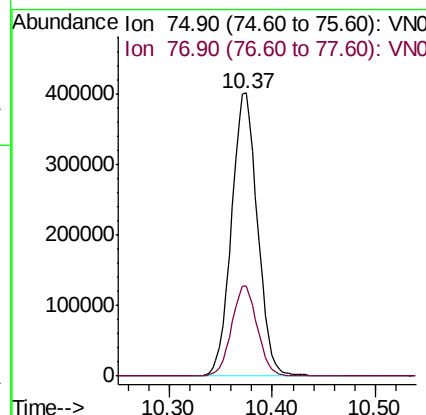
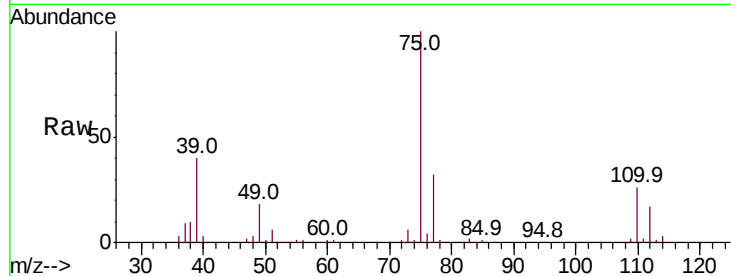
#53
 t-1,3-Dichloropropene
 Concen: 107.204 ug/l
 RT: 10.37 min Scan# 2675
 Delta R.T. 0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 75 Resp: 709447
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.0 37.6

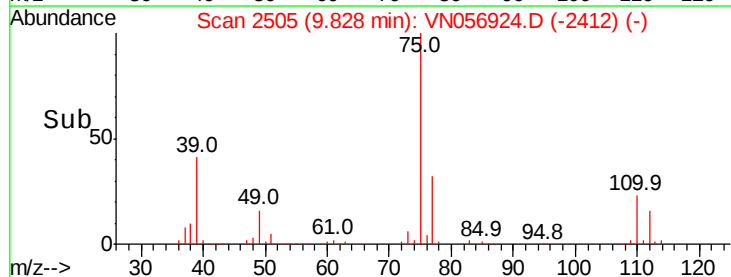
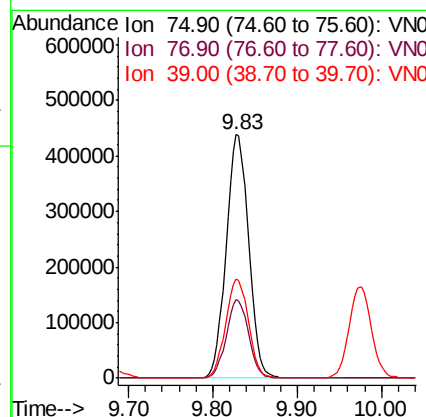
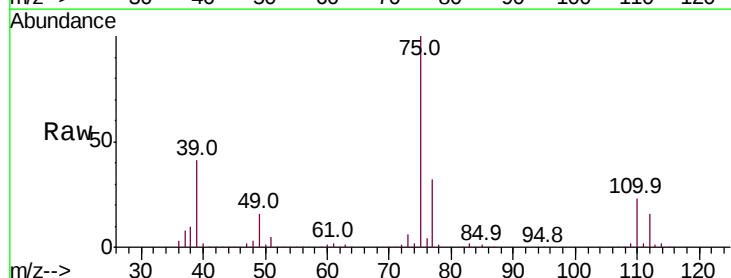
Manual Integrations
 APPROVED

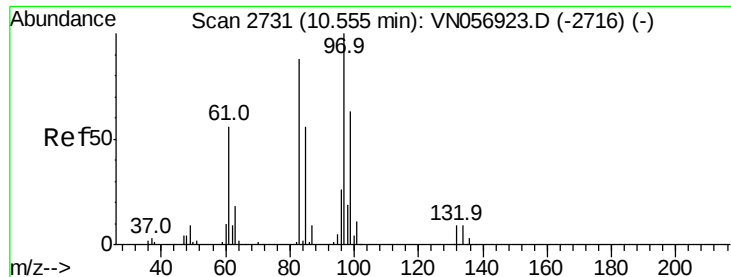
MMDadoda
 7/26/2019 3:36:58 PM



#54
 cis-1,3-Dichloropropene
 Concen: 103.672 ug/l
 RT: 9.83 min Scan# 2505
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Tgt Ion: 75 Resp: 811132
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.4 38.0
 39 40.7 33.4 50.0





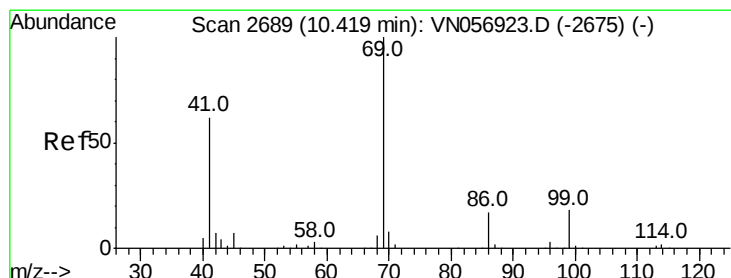
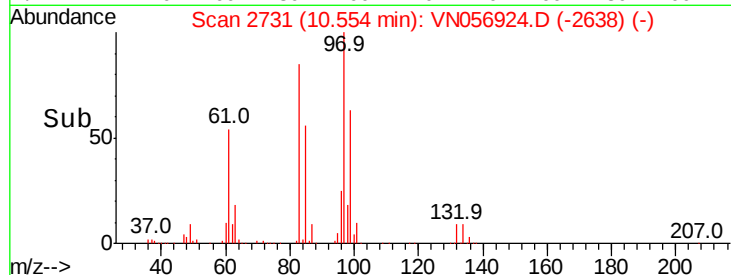
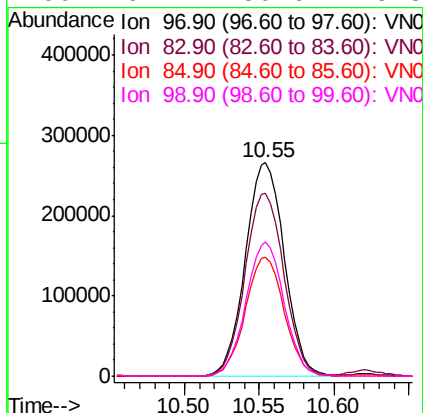
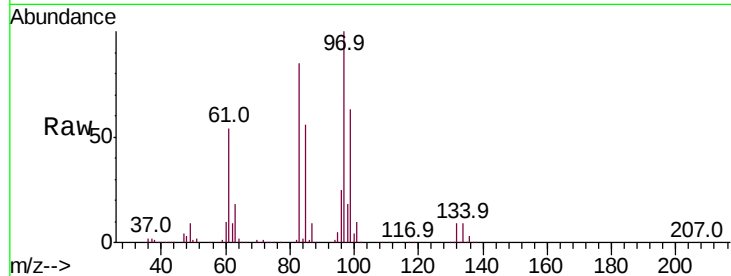
#55
 1,1,2-Trichloroethane
 Concen: 97.829 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
97	100		
83	85.4	70.1	105.1
85	55.9	45.1	67.7
99	62.7	50.6	75.8

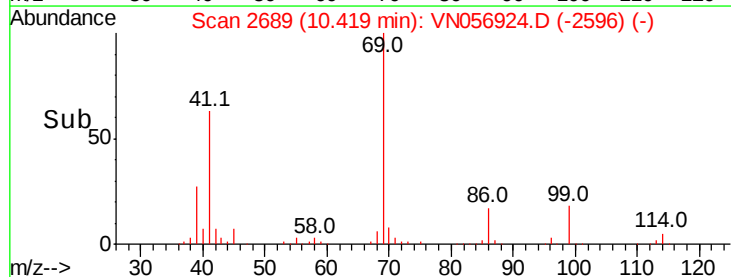
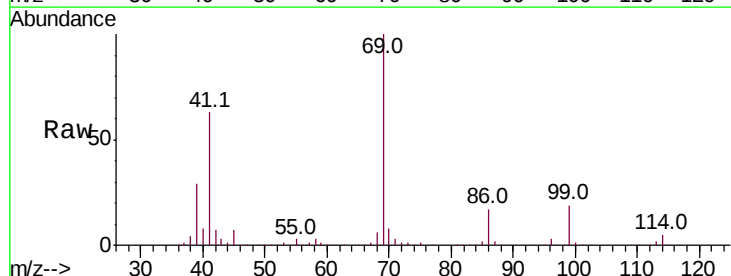
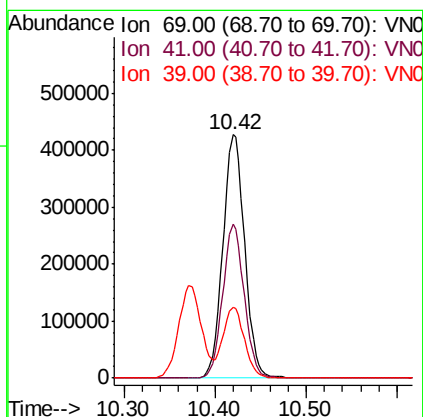
Manual Integrations
 APPROVED

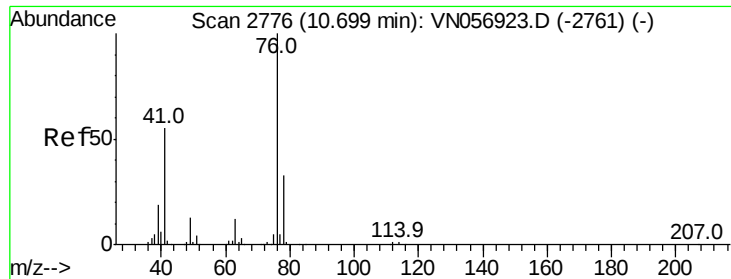
MMDadoda
 7/26/2019 3:36:58 PM



#56
 Ethyl methacrylate
 Concen: 104.366 ug/l
 RT: 10.42 min Scan# 2689
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Tgt Ion	Ratio	Lower	Upper
69	100		
41	61.8	49.7	74.5
39	29.1	23.6	35.4





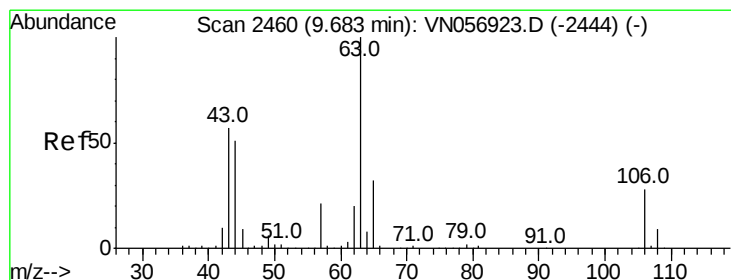
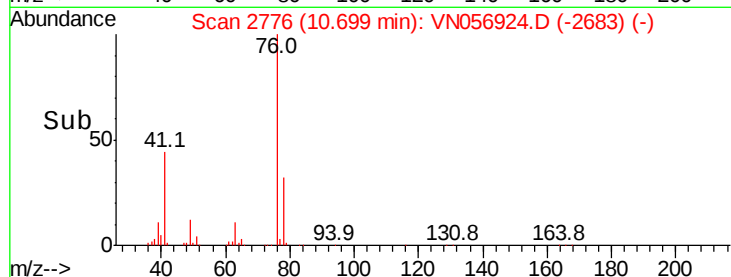
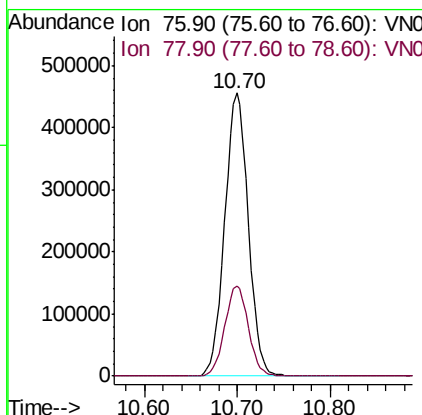
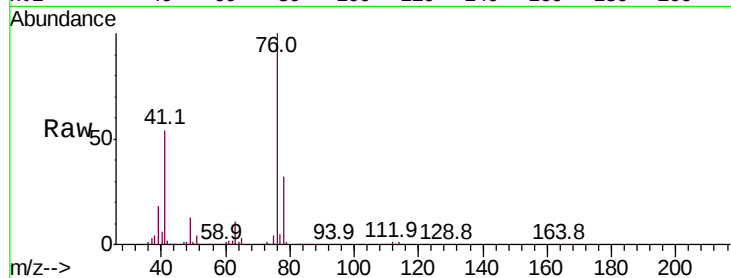
#57
 1,3-Dichloropropane
 Concen: 98.116 ug/l
 RT: 10.70 min Scan# 2776
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion: 76 Resp: 800468
 Ion Ratio Lower Upper
 76 100
 78 32.0 25.8 38.8

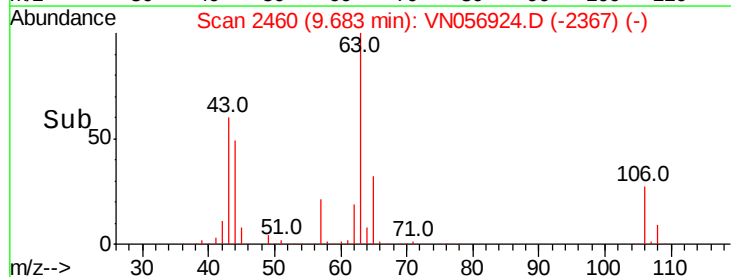
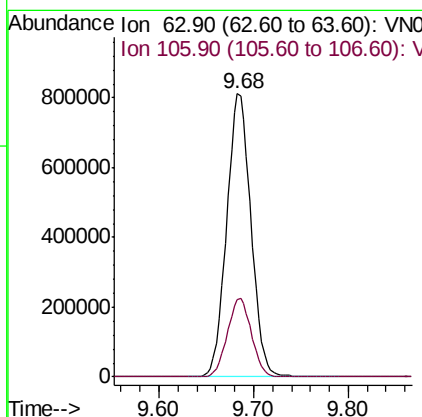
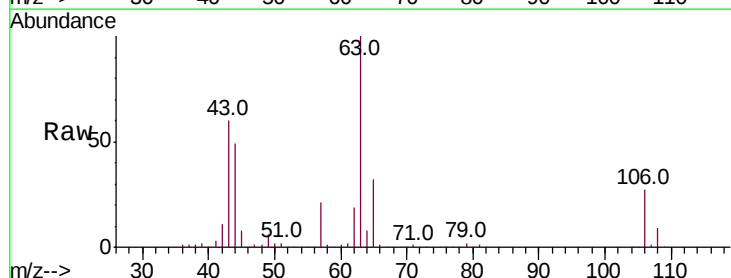
Manual Integrations
 APPROVED

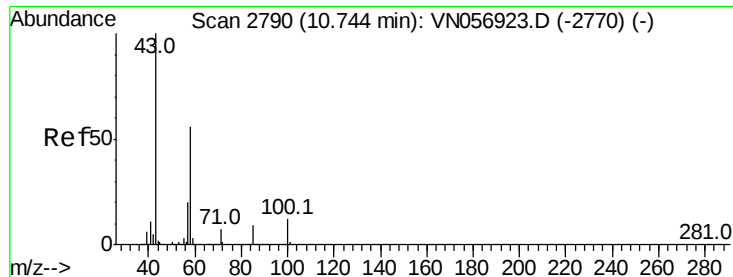
MMDadoda
 7/26/2019 3:36:58 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 509.436 ug/l
 RT: 9.68 min Scan# 2460
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Tgt Ion: 63 Resp: 1445180
 Ion Ratio Lower Upper
 63 100
 106 27.7 22.2 33.4





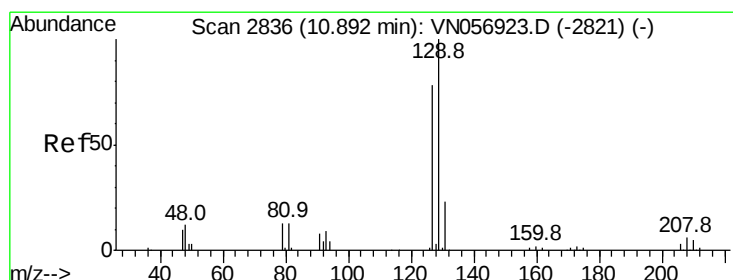
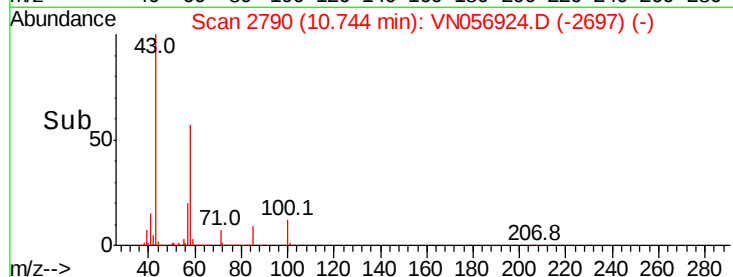
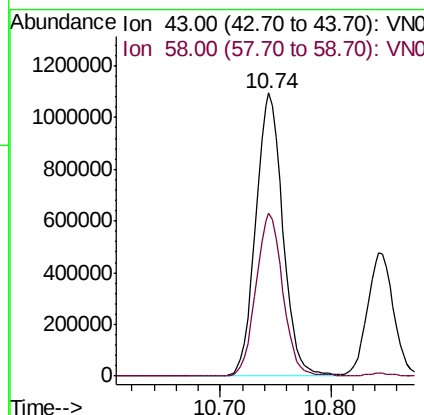
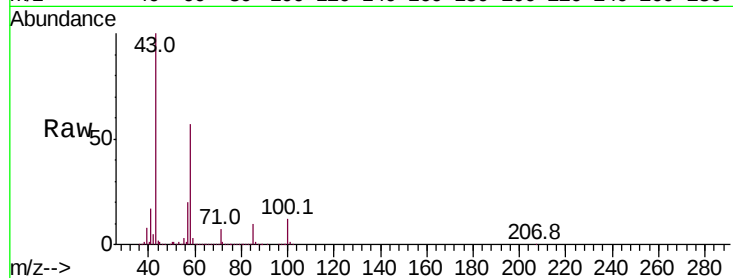
#59
2-Hexanone
Concen: 492.627 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 1861220
Ion Ratio Lower Upper
43 100
58 57.3 28.2 84.6

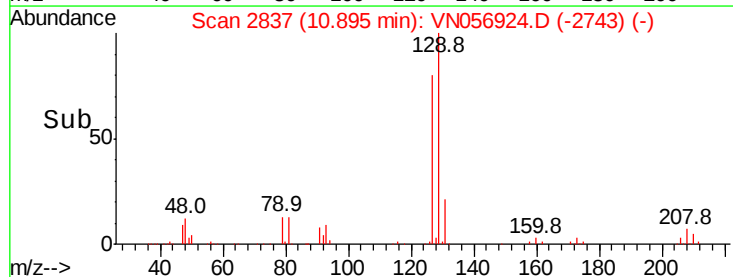
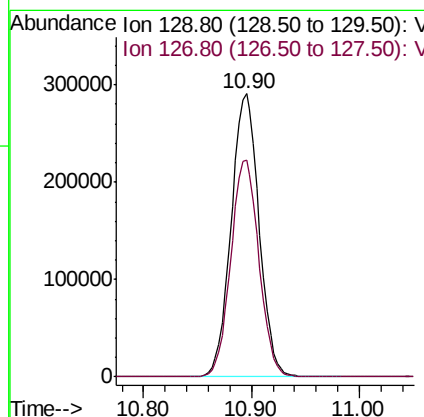
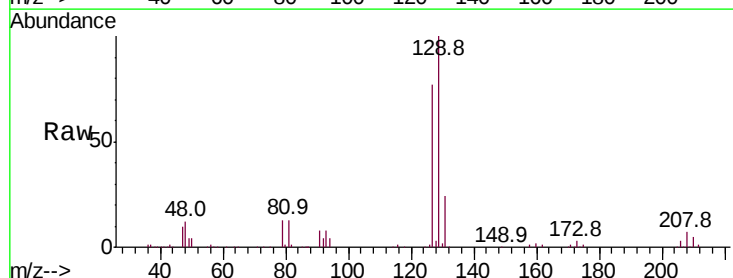
Manual Integrations
APPROVED

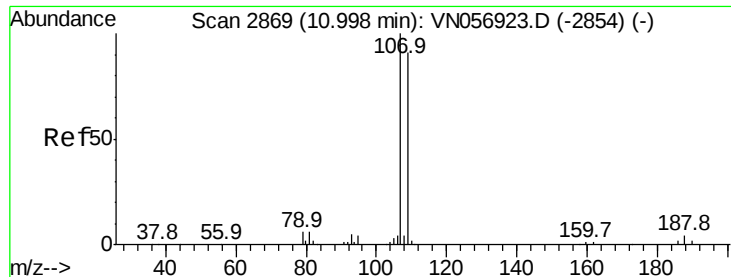
MMDadoda
7/26/2019 3:36:58 PM



#60
Dibromochloromethane
Concen: 105.401 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. 0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Tgt Ion: 129 Resp: 521935
Ion Ratio Lower Upper
129 100
127 77.4 38.4 115.2





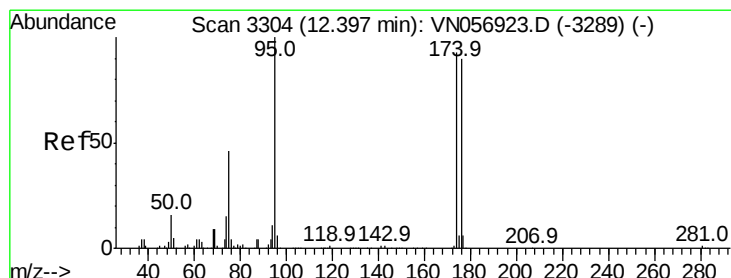
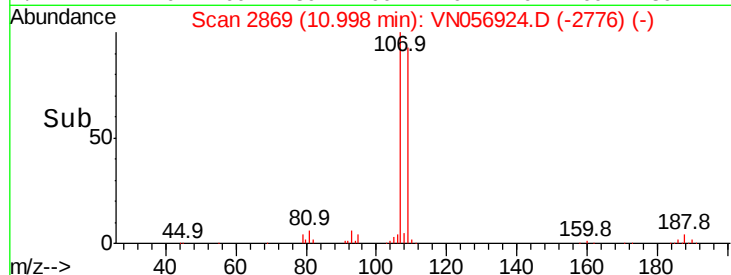
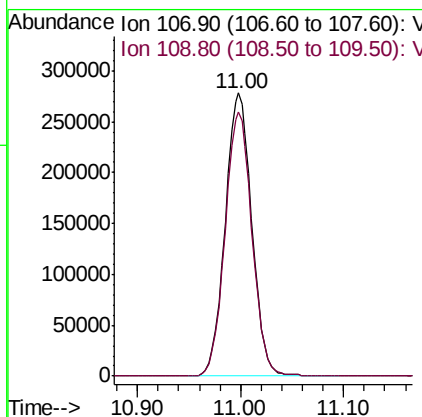
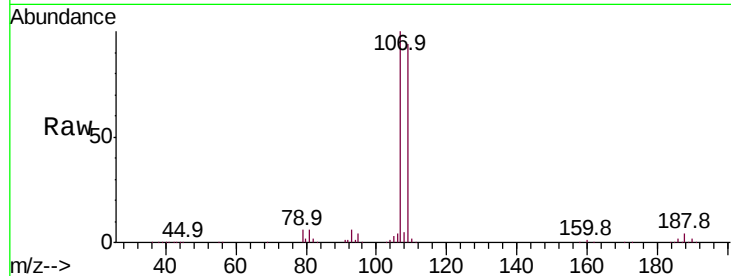
#61
 1,2-Dibromoethane
 Concen: 101.990 ug/l
 RT: 11.00 min Scan# 2869
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
107	100	498554		
109	94.6	74.8	112.2	

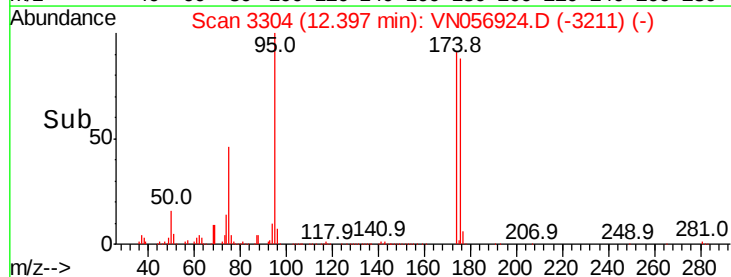
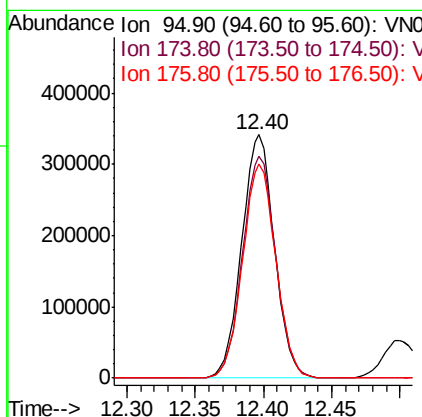
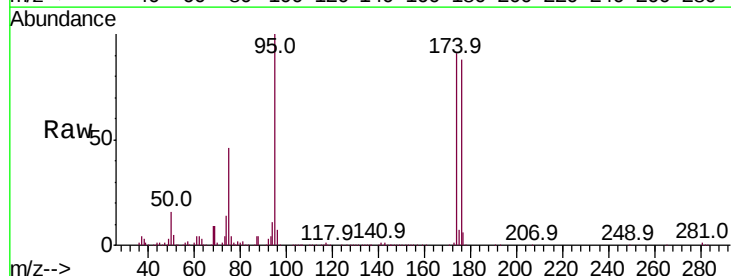
Manual Integrations
 APPROVED

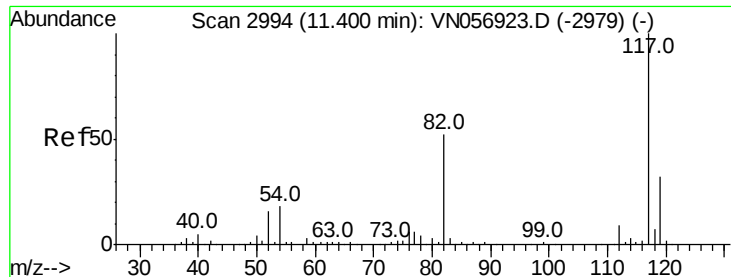
MMDadoda
 7/26/2019 3:36:58 PM



#62
 4-Bromofluorobenzene
 Concen: 98.562 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	567897		
174	92.2	0.0	186.2	
176	89.2	0.0	179.6	





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:117 Resp: 654297

Ion Ratio Lower Upper

117 100

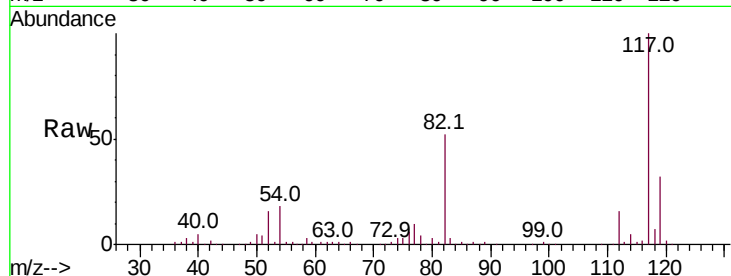
82 52.2 41.7 62.5

119 32.4 25.5 38.3

Manual Integrations
APPROVED

MMDadoda

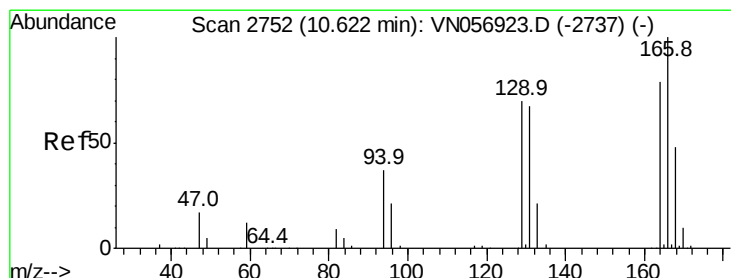
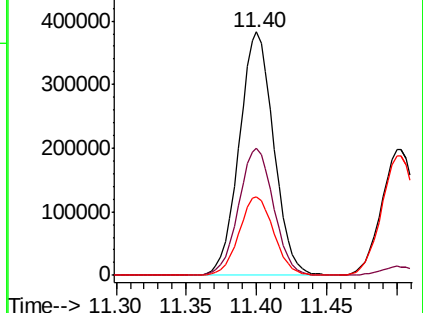
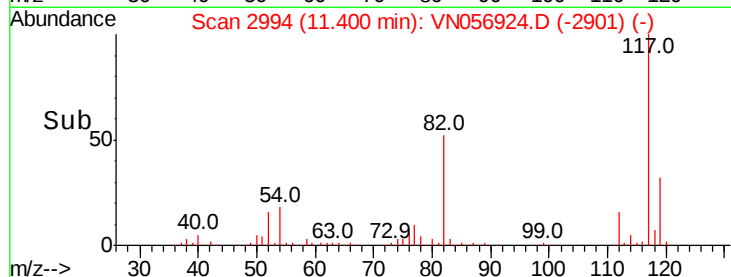
7/26/2019 3:36:58 PM



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 95.873 ug/l

RT: 10.62 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Tgt Ion:164 Resp: 546460

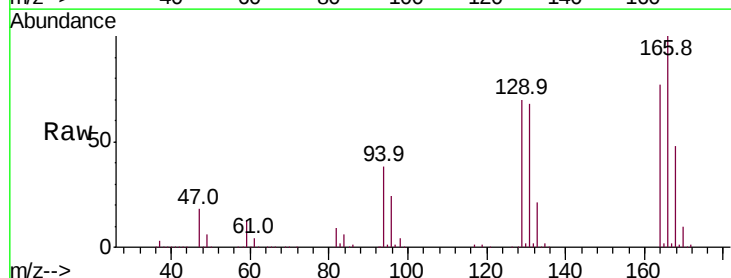
Ion Ratio Lower Upper

164 100

166 129.6 101.6 152.4

129 90.3 70.9 106.3

131 88.1 68.4 102.6

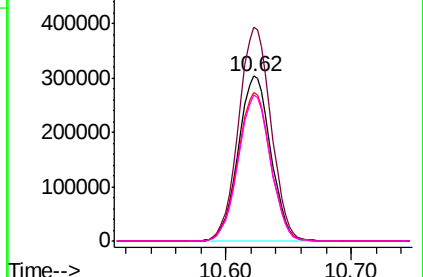
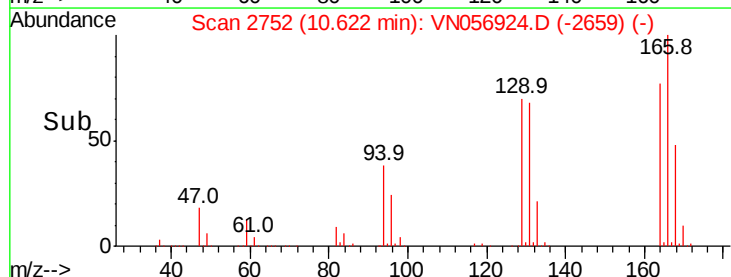


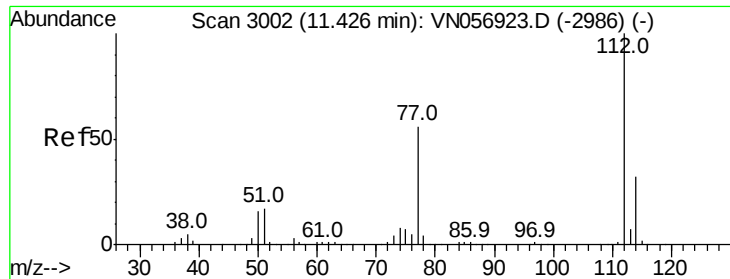
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





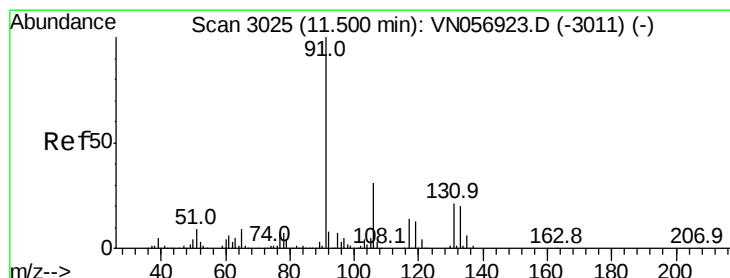
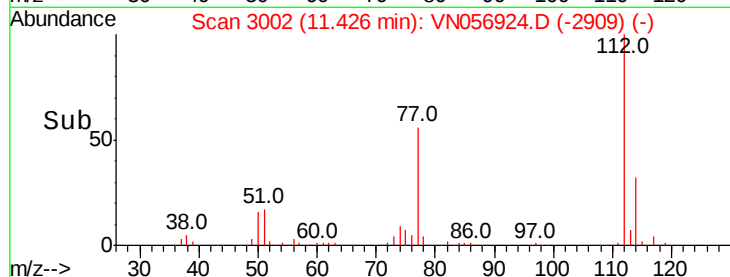
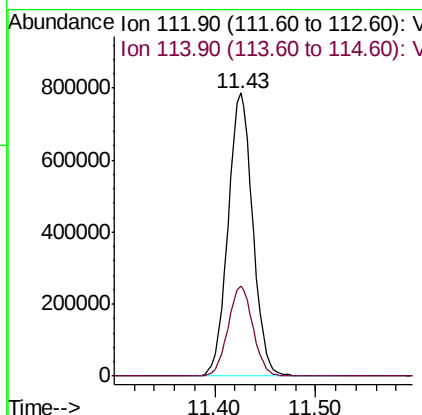
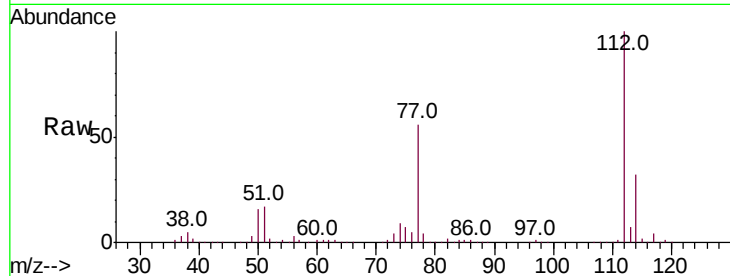
#65
Chlorobenzene
Concen: 98.185 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:112 Resp: 1341661
Ion Ratio Lower Upper
112 100
114 31.8 25.8 38.8

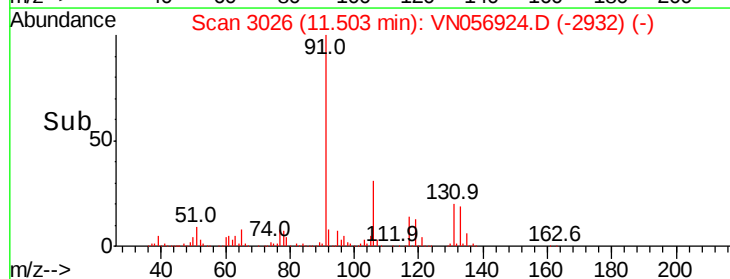
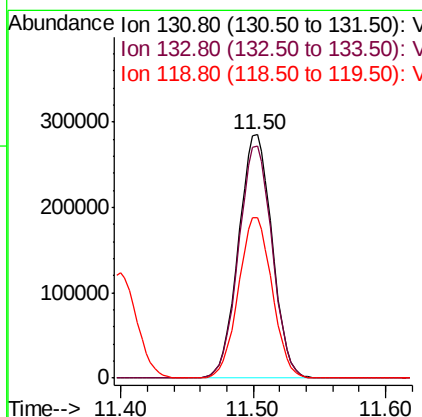
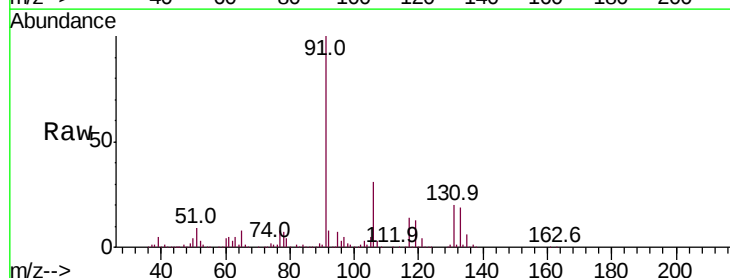
Manual Integrations
APPROVED

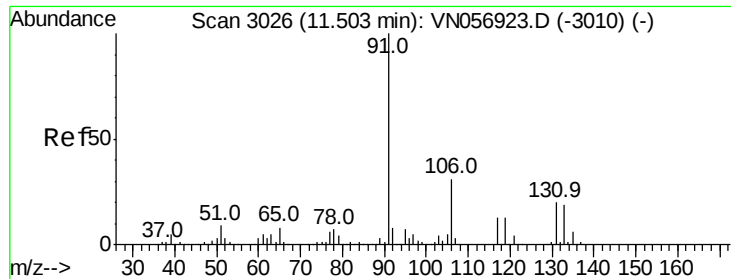
MMDadoda
7/26/2019 3:36:58 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 97.312 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Tgt Ion:131 Resp: 501681
Ion Ratio Lower Upper
131 100
133 95.5 47.1 141.4
119 65.9 32.6 98.0





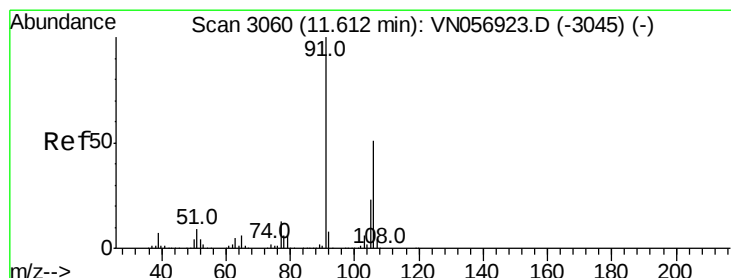
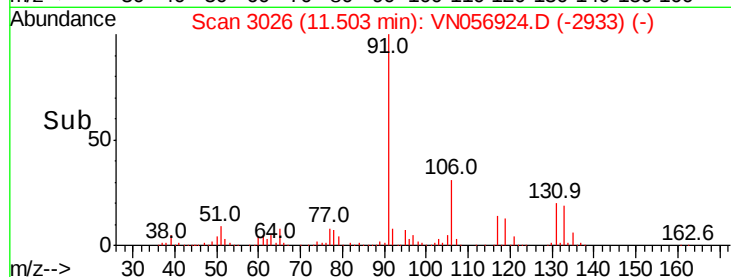
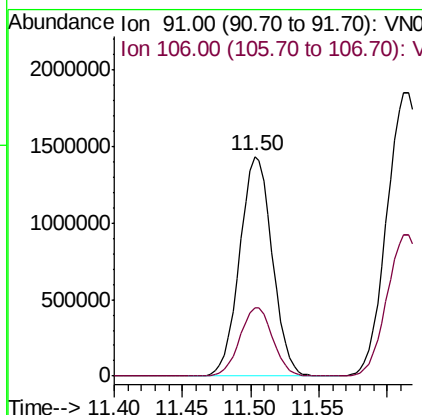
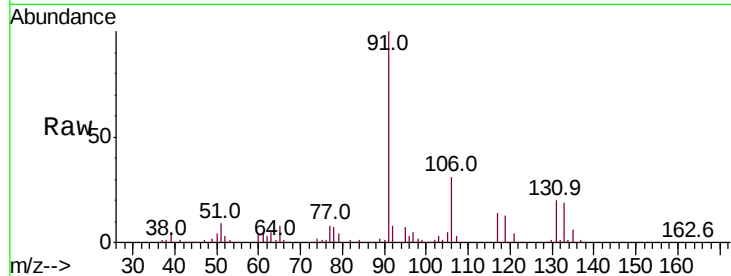
#67
Ethyl Benzene
Concen: 100.773 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 91 Resp: 2379599
Ion Ratio Lower Upper
91 100
106 31.2 24.9 37.3

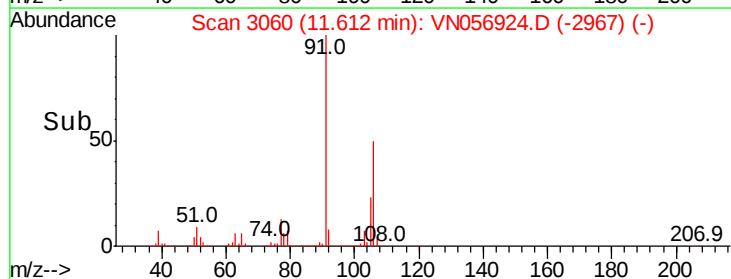
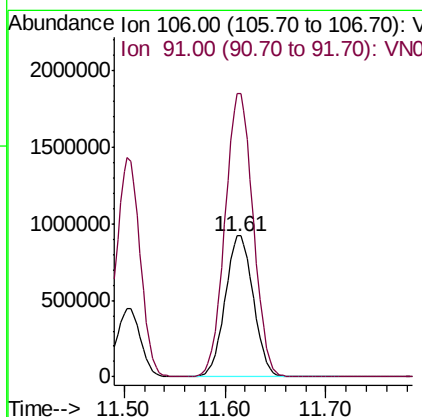
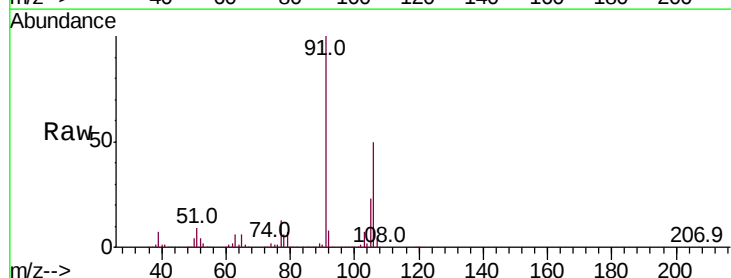
Manual Integrations
APPROVED

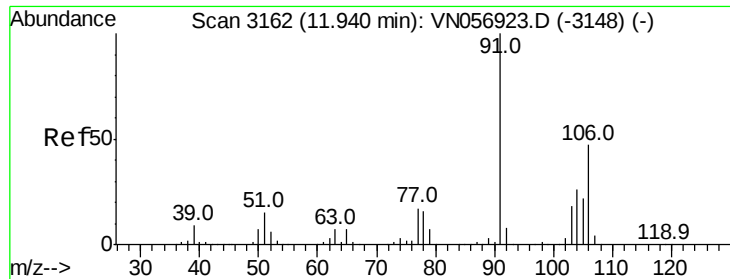
MMDadoda
7/26/2019 3:36:58 PM



#68
m/p-Xylenes
Concen: 203.071 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Tgt Ion:106 Resp: 1795723
Ion Ratio Lower Upper
106 100
91 200.3 159.6 239.4





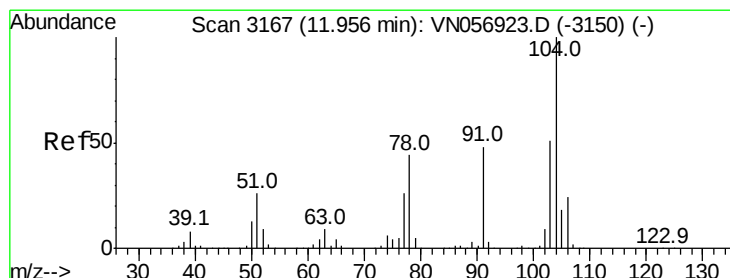
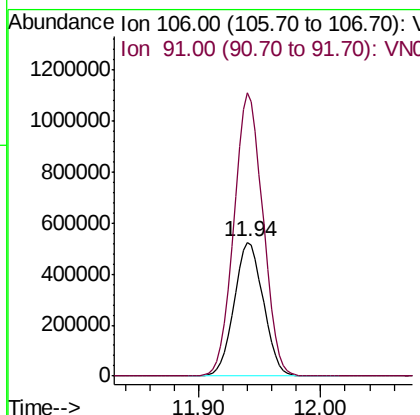
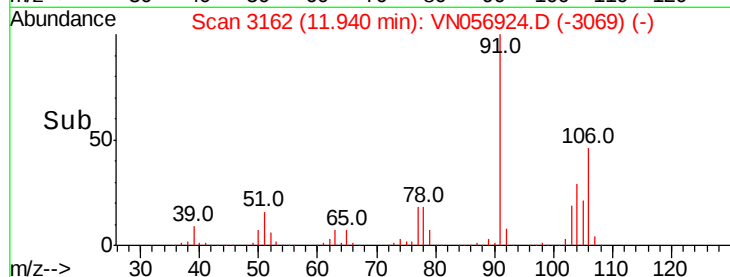
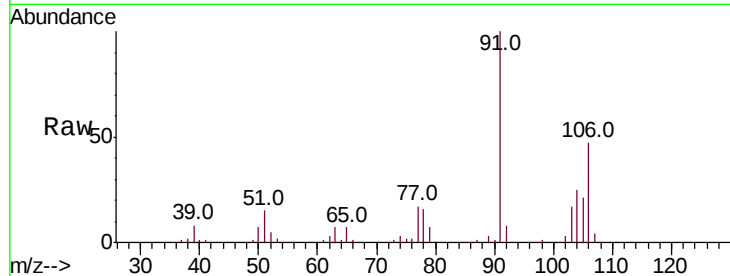
#69
o-Xylene
Concen: 100.917 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:106 Resp: 869129
Ion Ratio Lower Upper
106 100
91 210.2 105.7 317.0

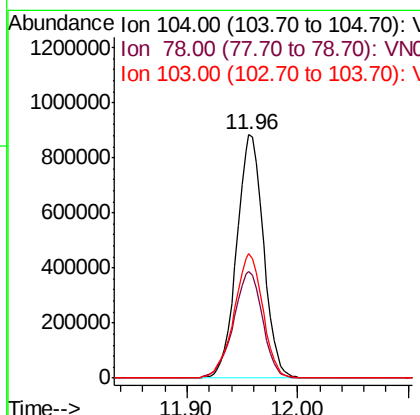
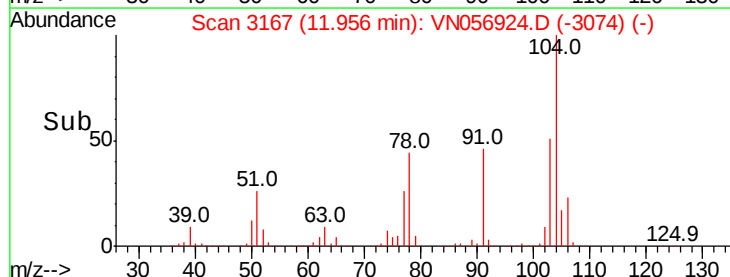
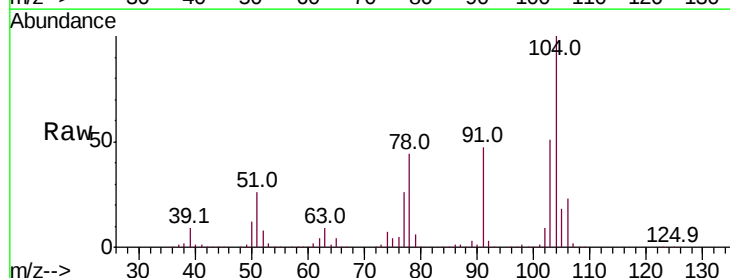
Manual Integrations
APPROVED

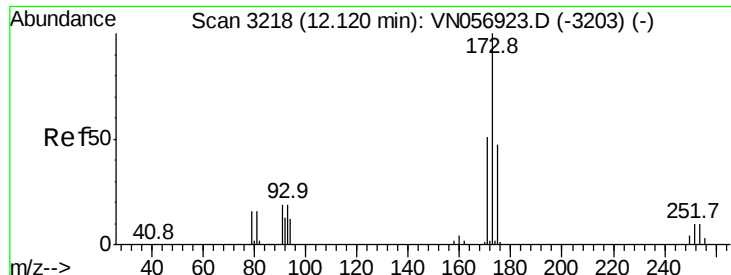
MMDadoda
7/26/2019 3:36:58 PM



#70
Styrene
Concen: 108.023 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Tgt Ion:104 Resp: 1483580
Ion Ratio Lower Upper
104 100
78 47.8 38.5 57.7
103 54.7 44.1 66.1





#71

Bromoform

Concen: 105.699 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:173 Resp: 375142

Ion Ratio Lower Upper

173 100

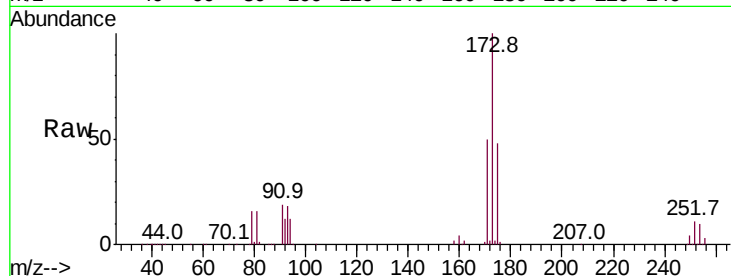
175 49.0 24.2 72.6

254 0.1 0.1 0.1

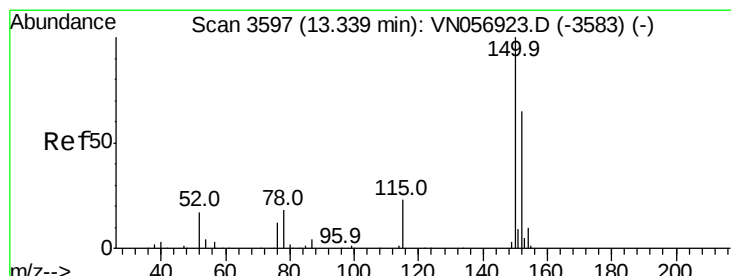
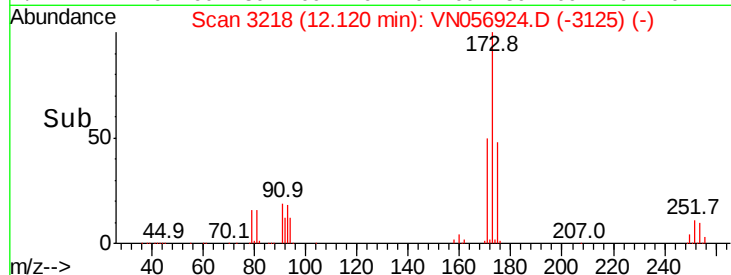
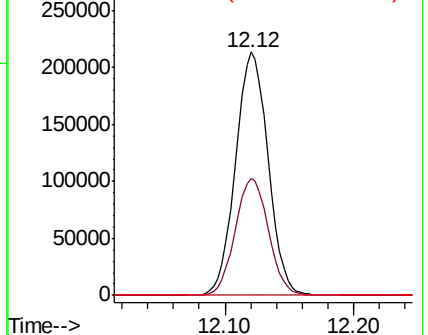
Manual Integrations
APPROVED

MMDadoda

7/26/2019 3:36:58 PM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

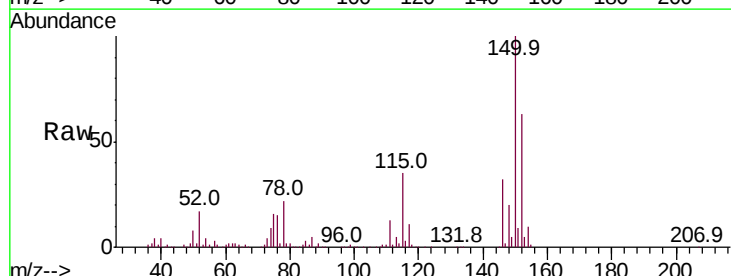
Tgt Ion:152 Resp: 303409

Ion Ratio Lower Upper

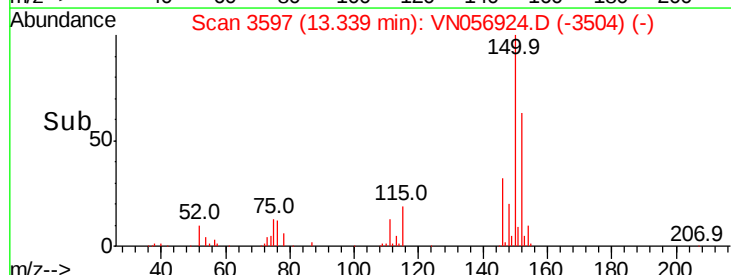
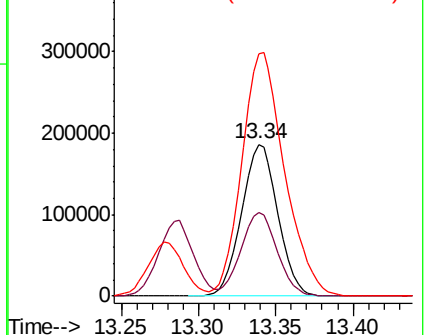
152 100

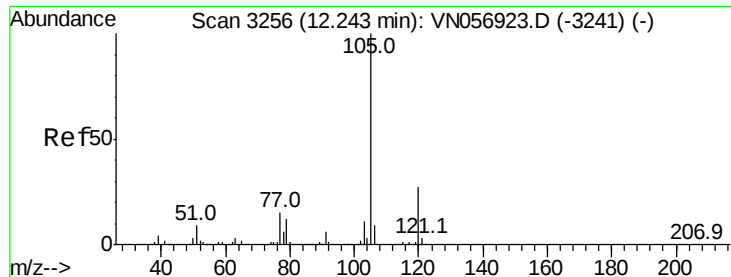
115 55.0 27.9 83.7

150 189.0 0.0 354.2



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





#73

Isopropylbenzene

Concen: 86.647 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 2317267

Ion Ratio Lower Upper

105 100

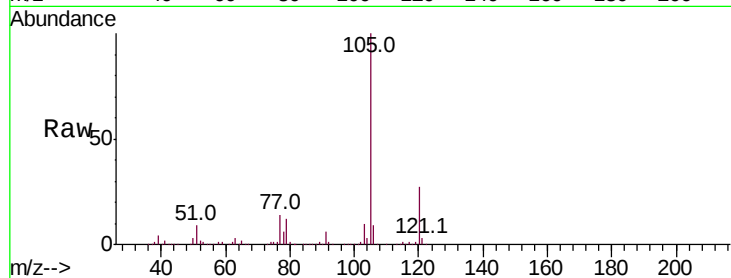
120 27.1 13.4 40.1

Manual Integrations

APPROVED

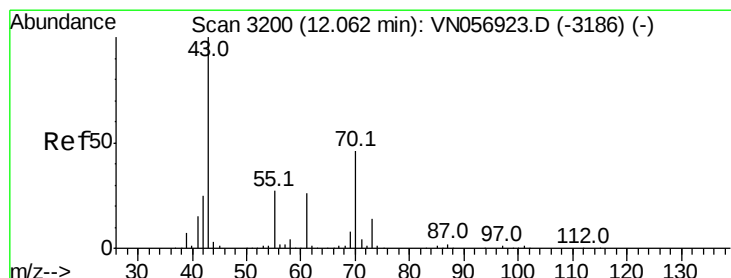
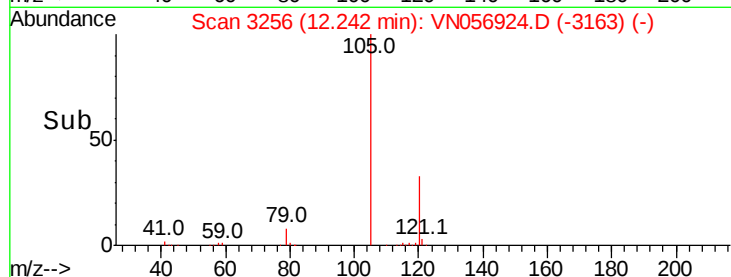
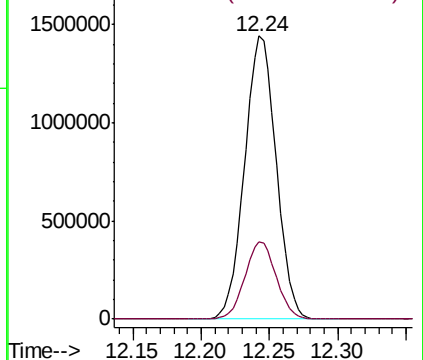
MMDadoda

7/26/2019 3:36:58 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 84.021 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Tgt Ion: 43 Resp: 743826

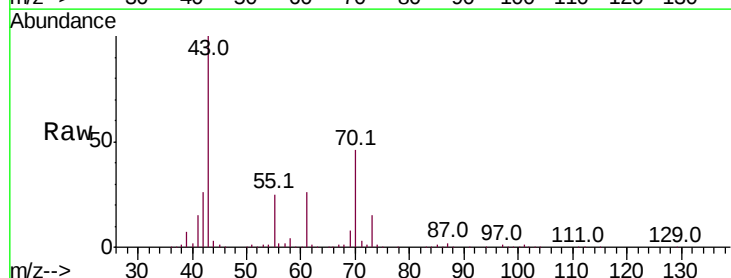
Ion Ratio Lower Upper

43 100

70 45.4 35.9 53.9

55 25.8 21.4 32.2

61 25.9 20.3 30.5

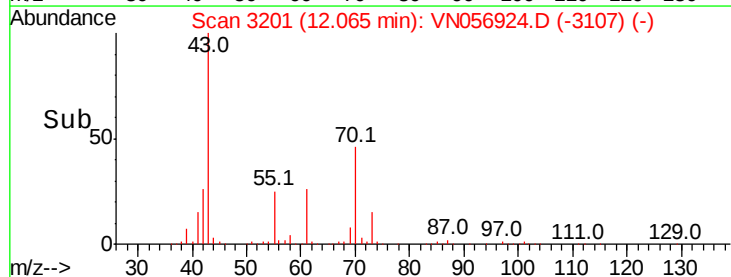
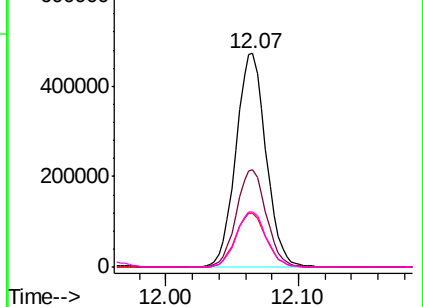


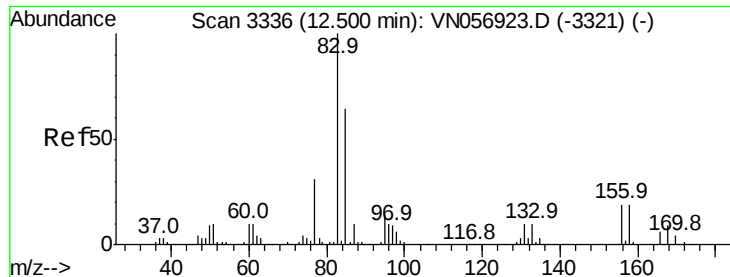
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 78.220 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 614725

Ion Ratio Lower Upper

83 100

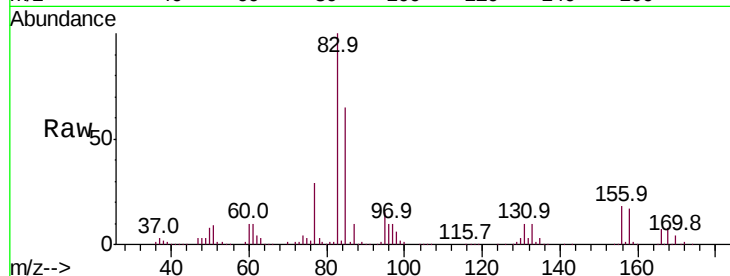
131 10.7 5.3 15.8

85 65.1 32.3 96.9

Manual Integrations
APPROVED

MMDadoda

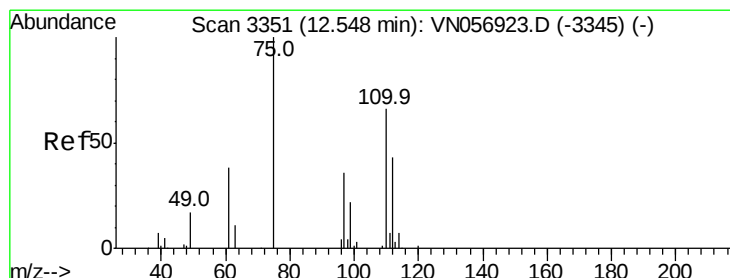
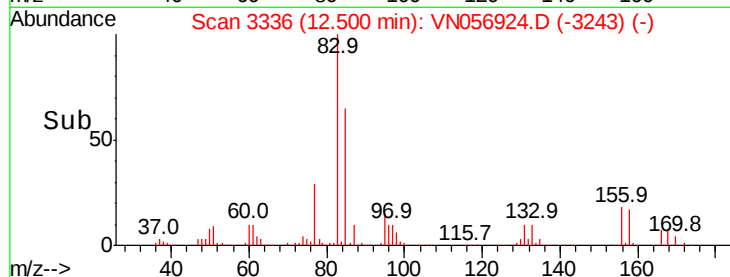
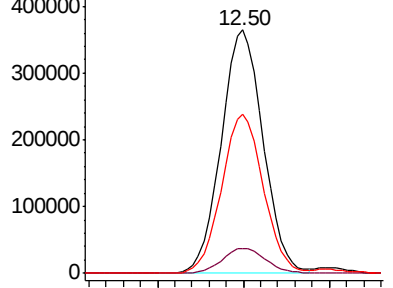
7/26/2019 3:36:58 PM



Abundance Ion 82.90 (82.60 to 83.60): VN056924.D (-3321) (-)

Ion 130.80 (130.50 to 131.50): VN056924.D (-3321) (-)

Ion 84.90 (84.60 to 85.60): VN056924.D (-3321) (-)



#76

1,2,3-Trichloropropane

Concen: 77.665 ug/l m

RT: 12.55 min Scan# 3351

Delta R.T. -0.00 min

Lab File: VN056924.D

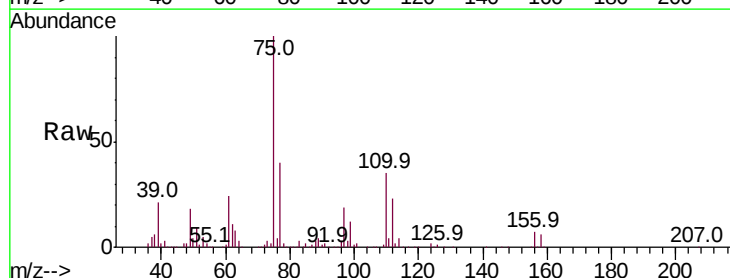
Acq: 25 Jul 2019 15:48

Tgt Ion: 75 Resp: 496633

Ion Ratio Lower Upper

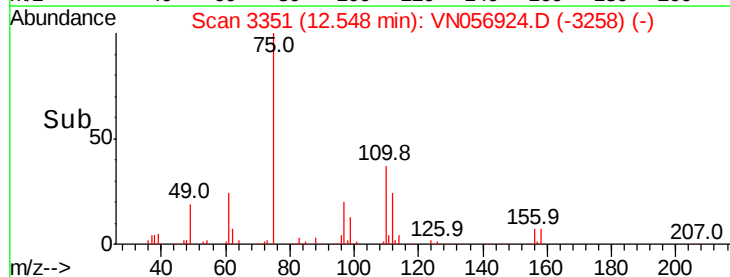
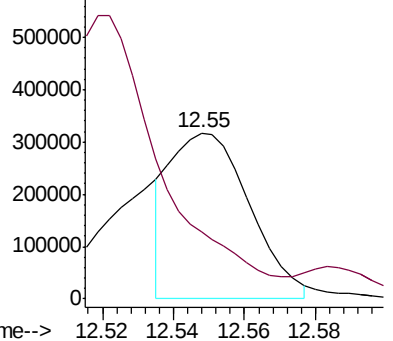
75 100

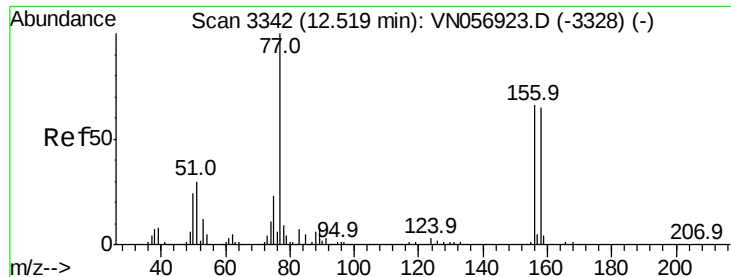
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN056924.D (-3351) (-)

Ion 77.00 (76.70 to 77.70): VN056924.D (-3351) (-)





#77

Bromobenzene

Concen: 91.767 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

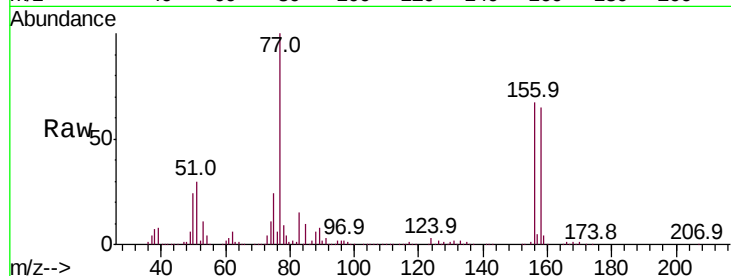
ClientSampleId :

VSTDIC100

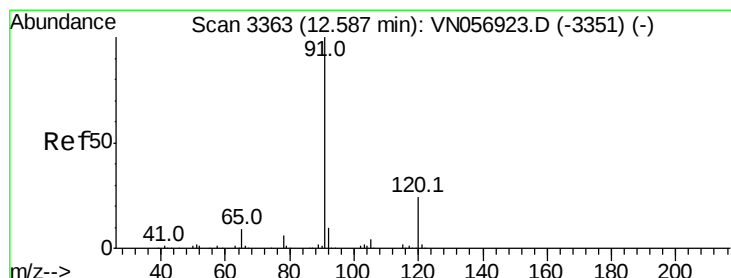
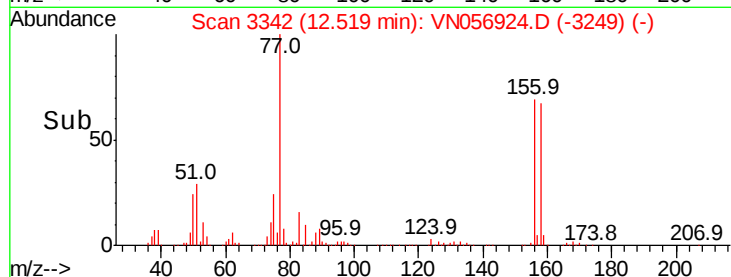
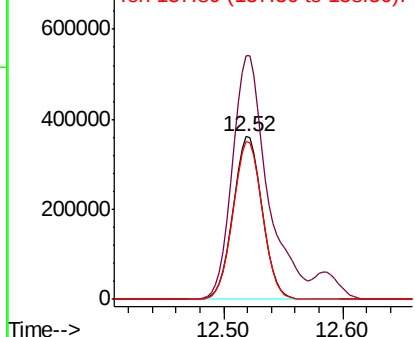
Tot Ion:	156	Resp:	612305
Ion Ratio	Lower	Upper	
156	100		
77	180.7	90.8	272.3
158	97.8	49.5	148.5

Manual Integrations
APPROVED

MMDadoda
7/26/2019 3:36:58 PM



Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VNO
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 93.009 ug/l

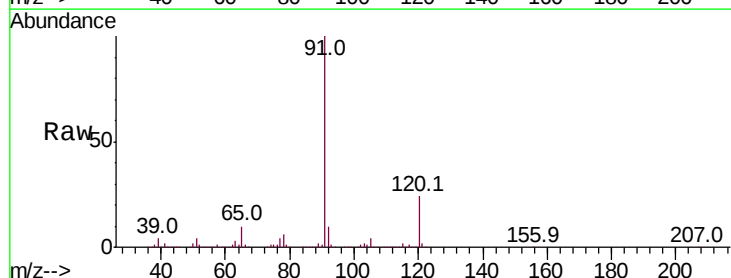
RT: 12.59 min Scan# 3363

Delta R.T. -0.00 min

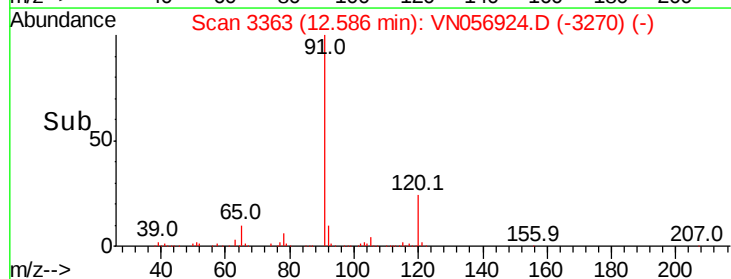
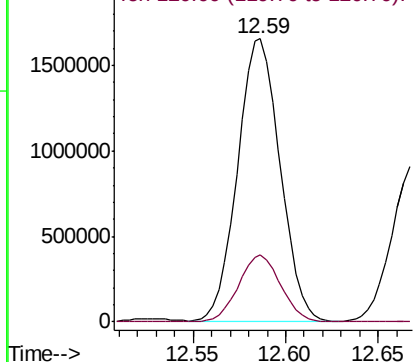
Lab File: VN056924.D

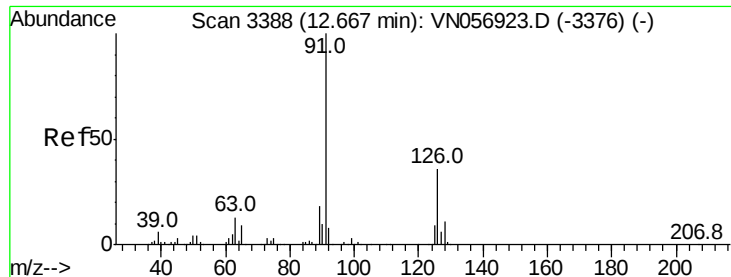
Acq: 25 Jul 2019 15:48

Tgt Ion:	91	Resp:	2624086
Ion Ratio	Lower	Upper	
91	100		
120	23.4	11.9	35.7



Abundance Ion 91.00 (90.70 to 91.70): VNO
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 86.895 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 1531996

Ion Ratio Lower Upper

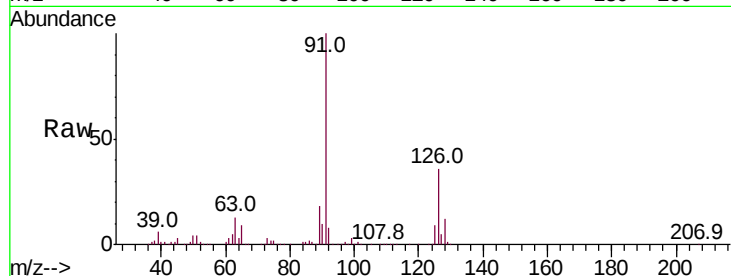
91 100

126 35.7 17.9 53.7

Manual Integrations
APPROVED

MMDadoda

7/26/2019 3:36:58 PM



Abundance Ion 91.00 (90.70 to 91.70): VN056923.D (-3376) (-)

Ion 125.90 (125.60 to 126.60): VN056923.D (-3376) (-)

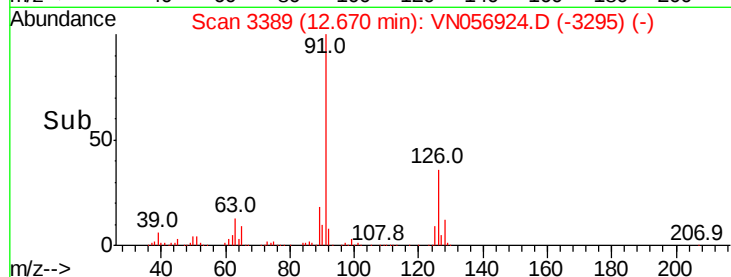
1500000

1000000

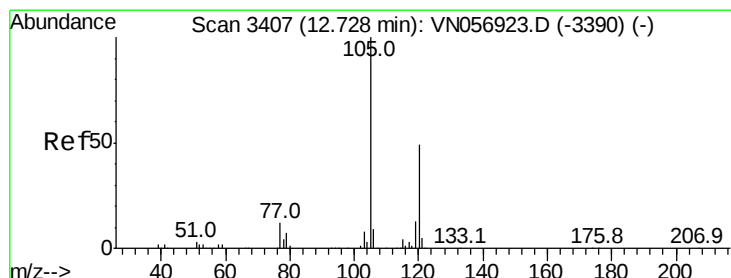
500000

0

12.60 12.65 12.70



Time-->



#80

1,3,5-Trimethylbenzene

Concen: 87.324 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN056924.D

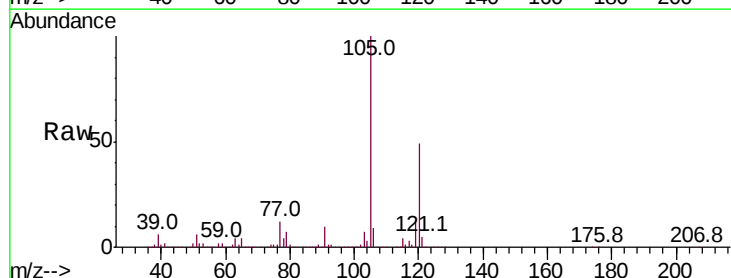
Acq: 25 Jul 2019 15:48

Tgt Ion:105 Resp: 1946294

Ion Ratio Lower Upper

105 100

120 49.5 24.9 74.7



Abundance Ion 105.00 (104.70 to 105.70): VN056923.D (-3390) (-)

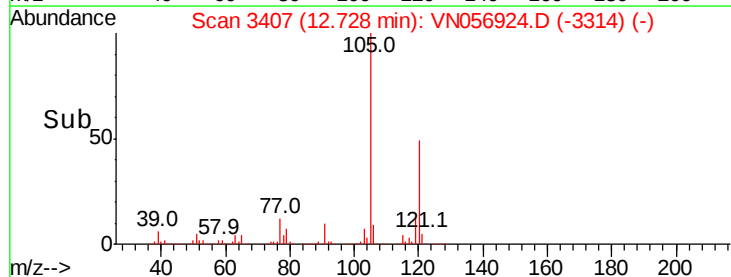
Ion 120.00 (119.70 to 120.70): VN056923.D (-3390) (-)

1000000

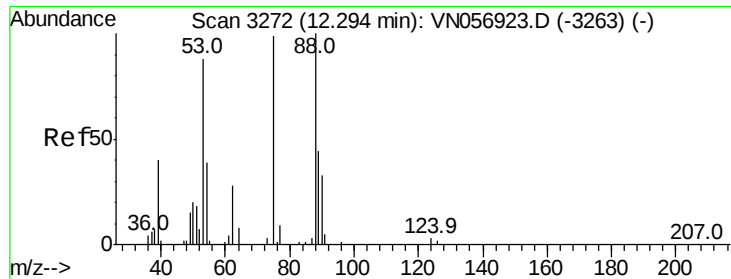
500000

0

12.70 12.75 12.80



Time-->



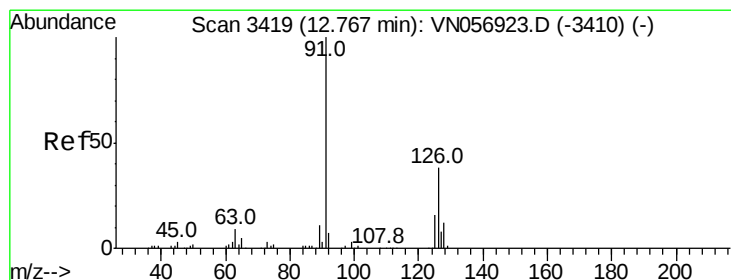
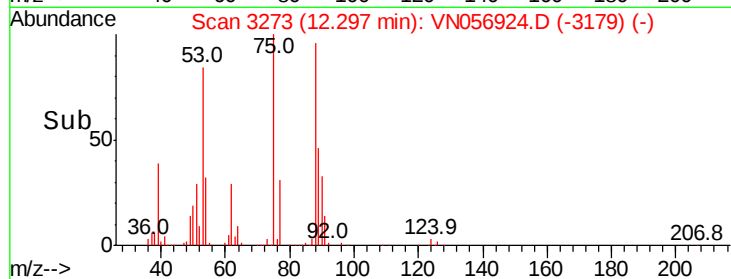
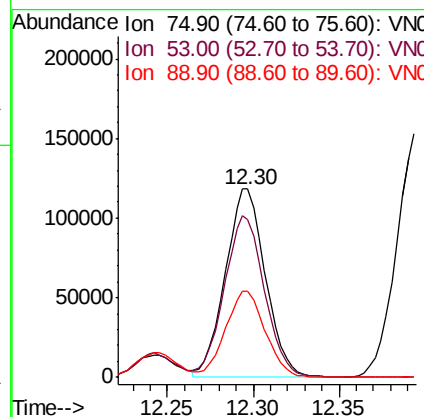
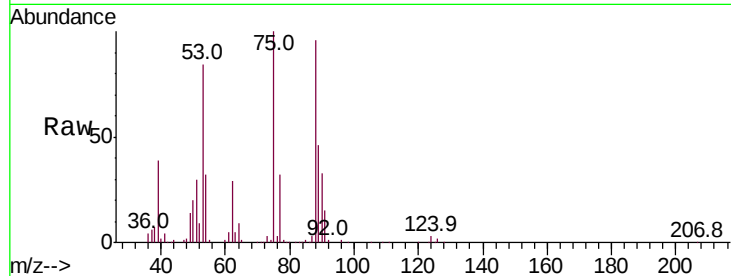
#81
trans-1,4-Dichloro-2-butene
Concen: 98.173 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. 0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
75	100		
53	86.2	72.3	108.5
89	45.4	36.2	54.2

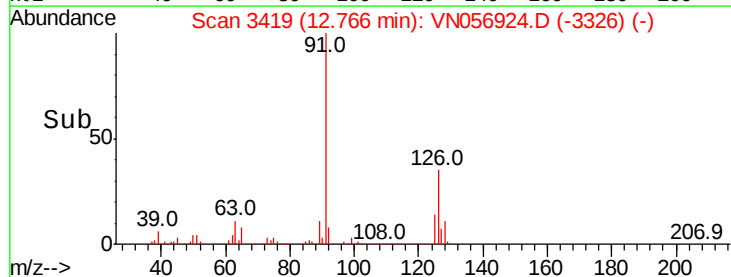
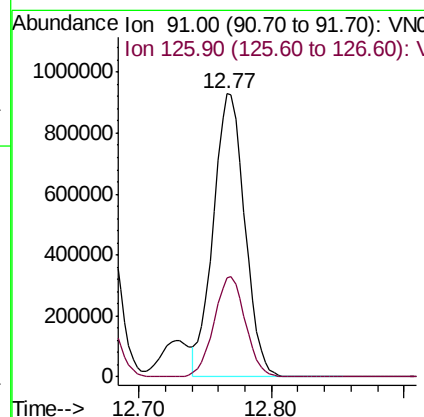
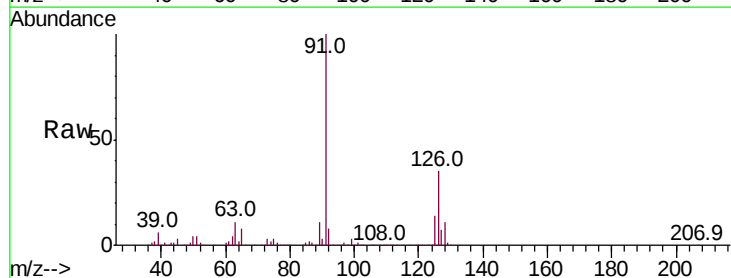
Manual Integrations
APPROVED

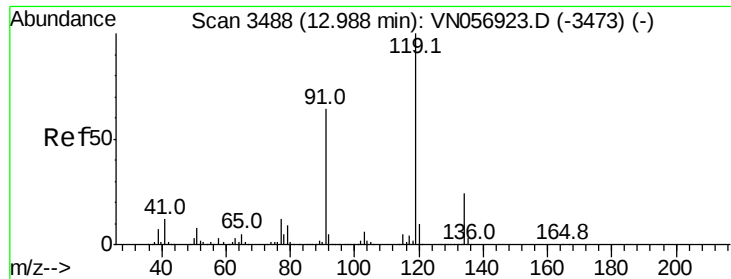
MMDadoda
7/26/2019 3:36:58 PM



#82
4-Chlorotoluene
Concen: 91.206 ug/l
RT: 12.77 min Scan# 3419
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.4	17.3	51.7





#83

tert-Butylbenzene

Concen: 85.453 ug/l

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:119 Resp: 1667406

Ion Ratio Lower Upper

119 100

91 63.3 31.6 95.0

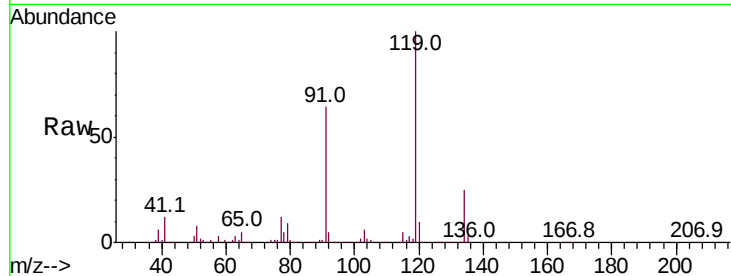
134 26.7 13.2 39.5

Manual Integrations

APPROVED

MMDadoda

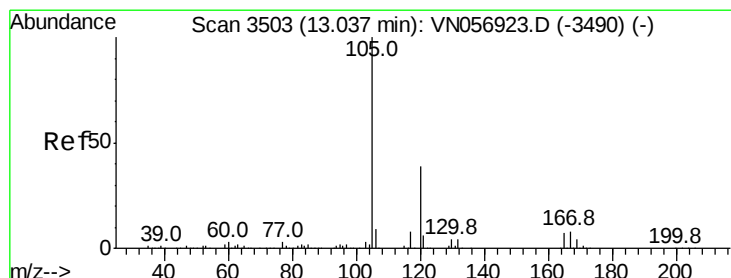
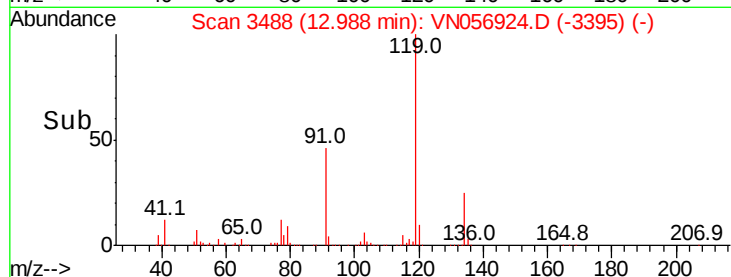
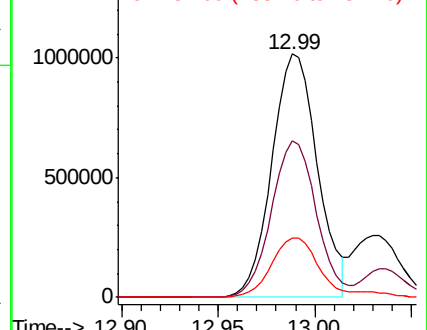
7/26/2019 3:36:58 PM



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 91.098 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN056924.D

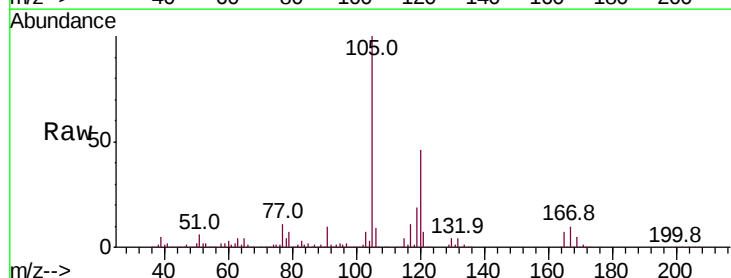
Acq: 25 Jul 2019 15:48

Tgt Ion:105 Resp: 1934552

Ion Ratio Lower Upper

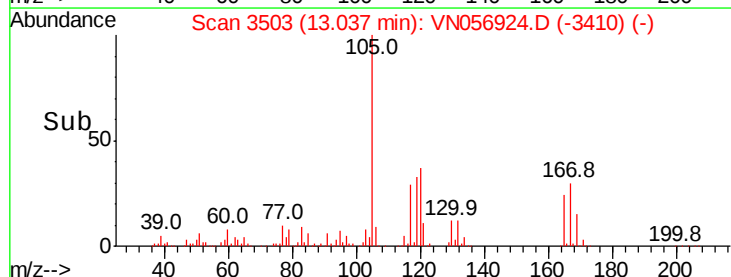
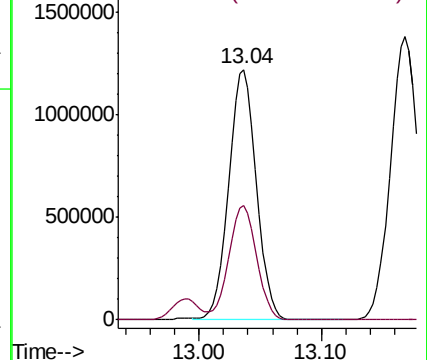
105 100

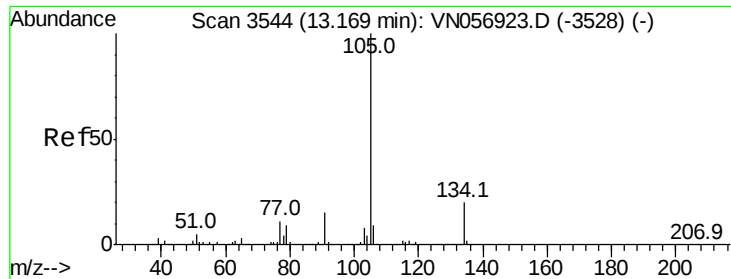
120 46.1 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 89.128 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 2225502

Ion Ratio Lower Upper

105 100

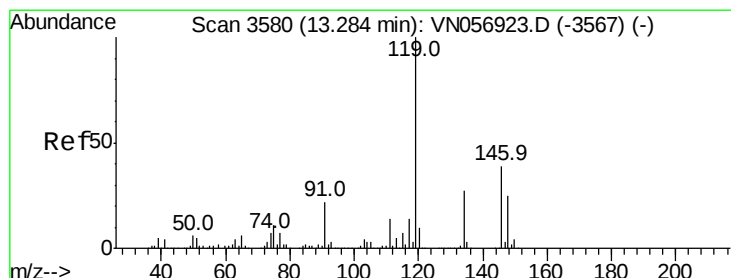
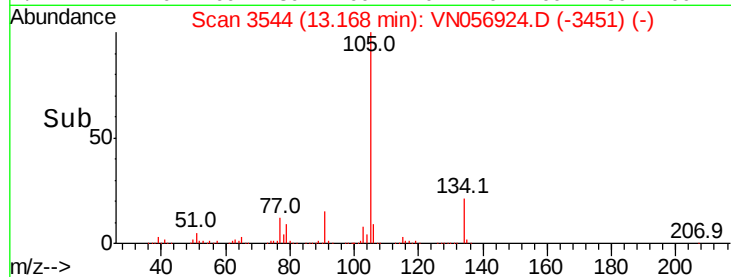
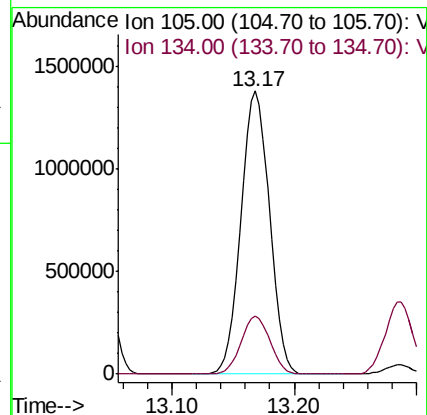
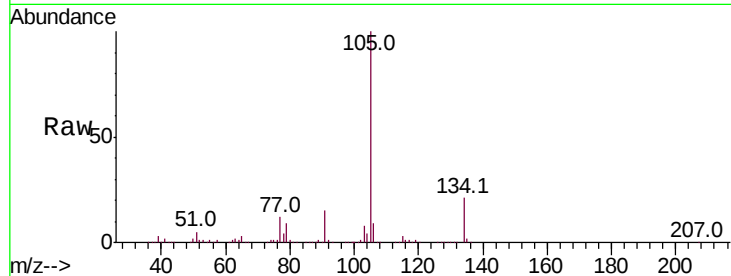
134 20.7 10.3 30.8

Manual Integrations

APPROVED

MMDadoda

7/26/2019 3:36:58 PM



#86

p-Isopropyltoluene

Concen: 91.891 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

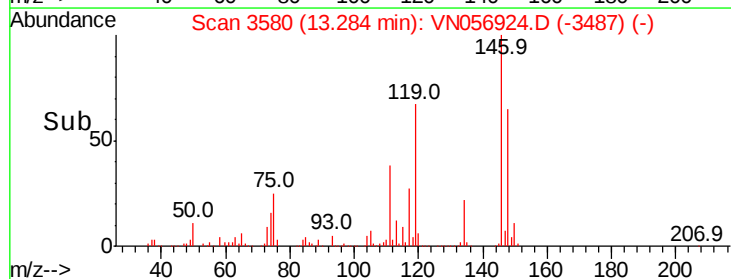
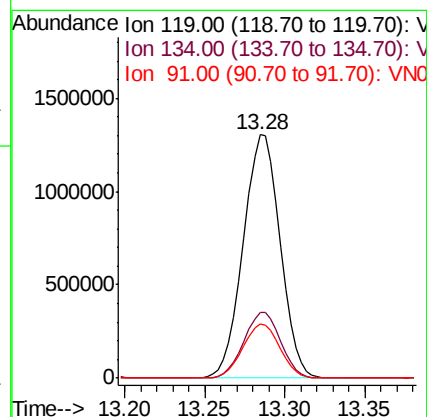
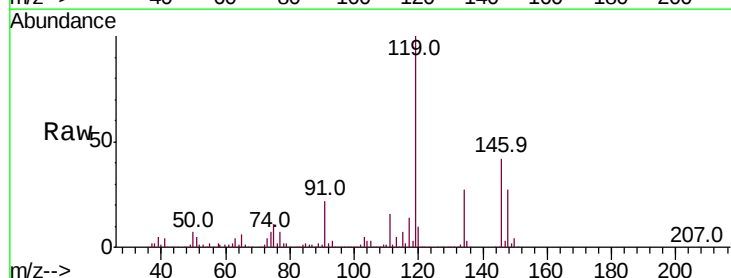
Tgt Ion:119 Resp: 2047150

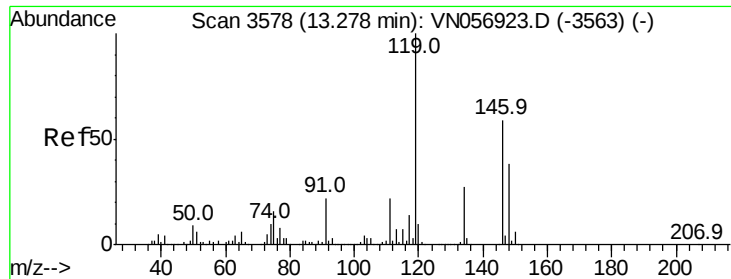
Ion Ratio Lower Upper

119 100

134 27.1 13.5 40.5

91 22.2 11.0 33.0





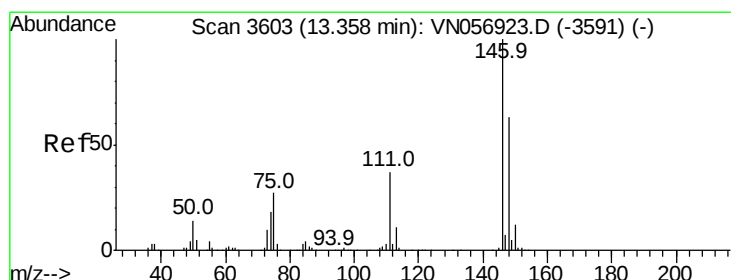
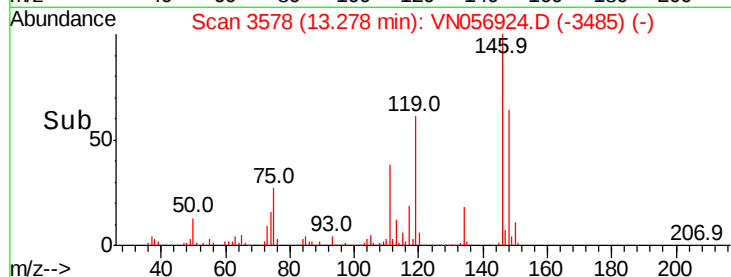
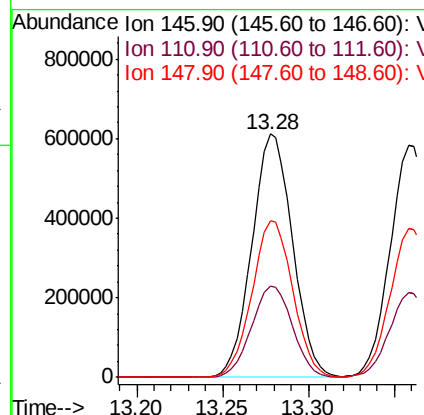
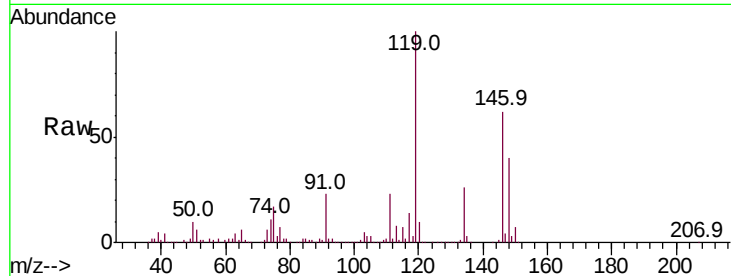
#87
 1,3-Dichlorobenzene
 Concen: 93.390 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:146 Resp: 1000722
 Ion Ratio Lower Upper
 146 100
 111 37.8 18.6 56.0
 148 64.5 31.6 94.7

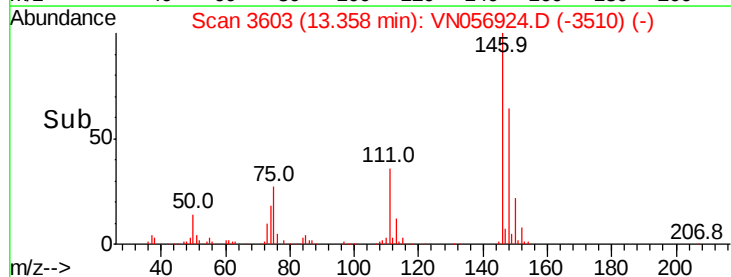
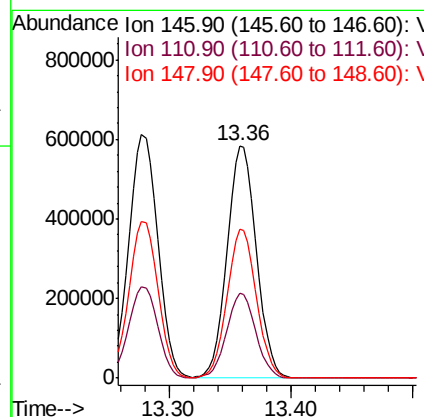
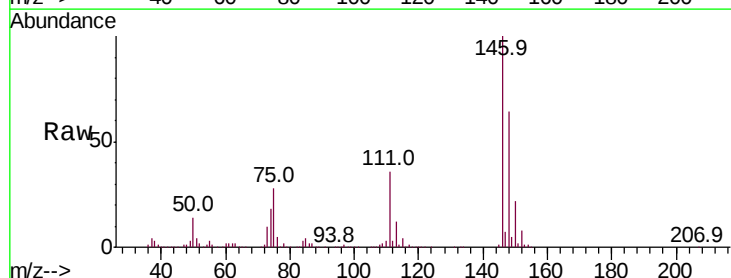
Manual Integrations
 APPROVED

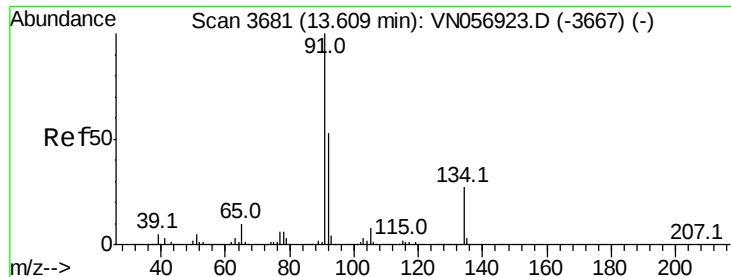
MMDadoda
 7/26/2019 3:36:58 PM



#88
 1,4-Dichlorobenzene
 Concen: 94.943 ug/l
 RT: 13.36 min Scan# 3603
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Tgt Ion:146 Resp: 984153
 Ion Ratio Lower Upper
 146 100
 111 36.3 18.9 56.5
 148 63.7 32.1 96.3





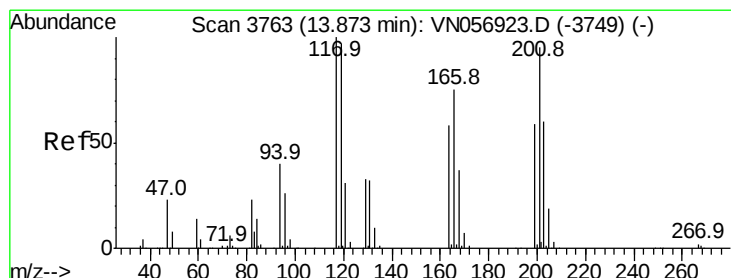
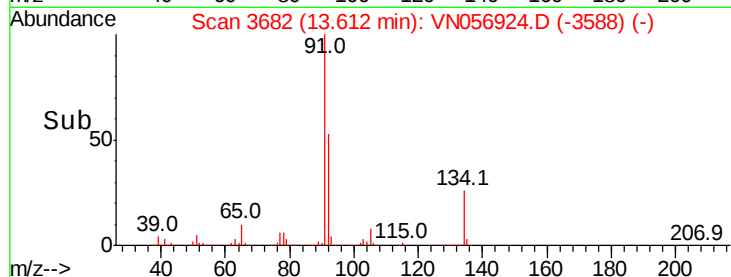
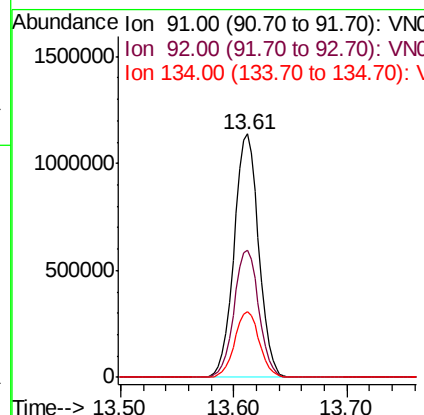
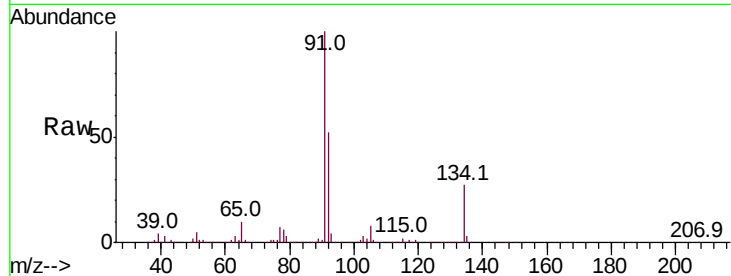
#89
n-Butylbenzene
Concen: 100.321 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 91 Resp: 1713185
Ion Ratio Lower Upper
91 100
92 52.6 26.5 79.5
134 27.2 13.5 40.5

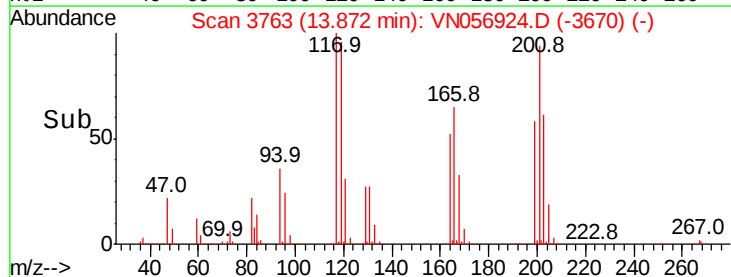
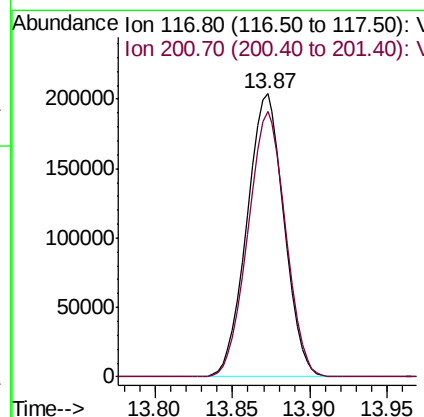
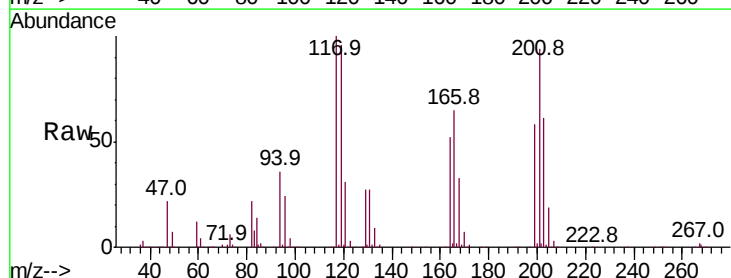
Manual Integrations
APPROVED

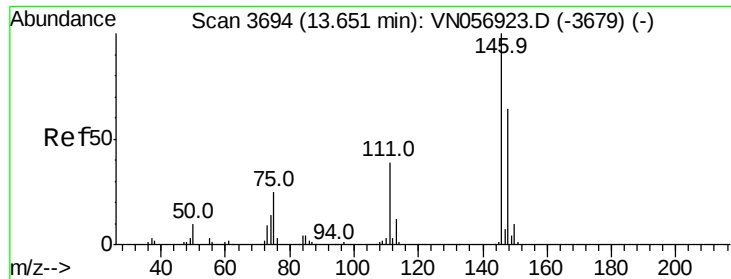
MMDadoda
7/26/2019 3:36:58 PM



#90
Hexachloroethane
Concen: 88.616 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN056924.D
Acq: 25 Jul 2019 15:48

Tgt Ion: 117 Resp: 341416
Ion Ratio Lower Upper
117 100
201 94.7 47.3 142.0





#91

1,2-Dichlorobenzene

Concen: 91.722 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

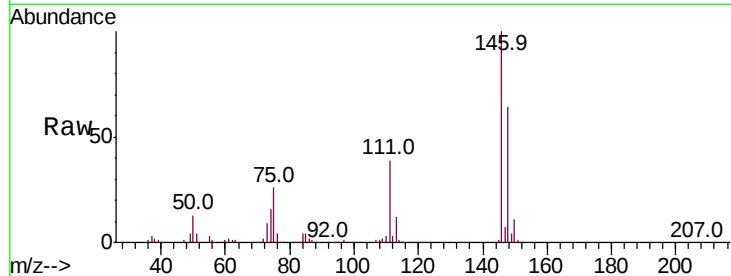
ClientSampleId :

VSTDIC100

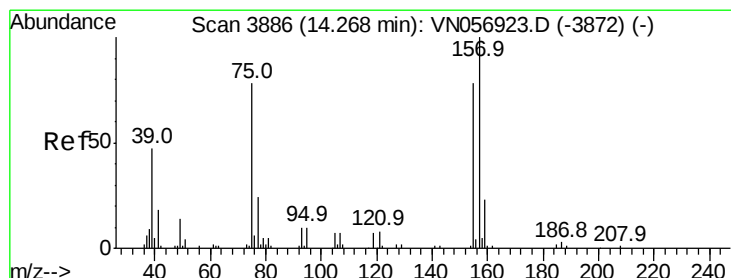
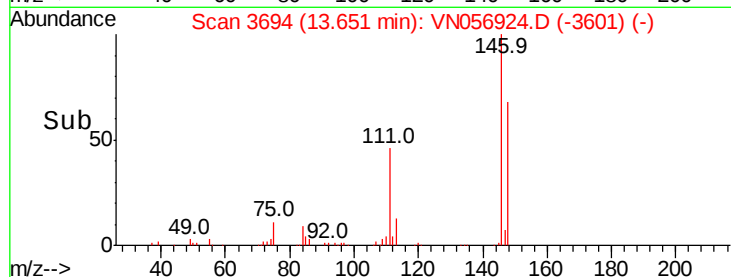
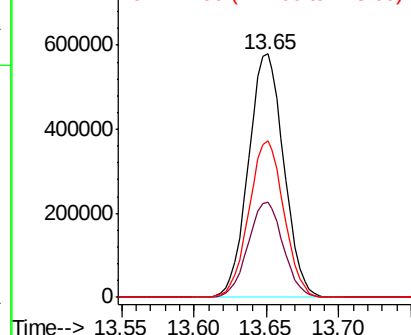
Tot Ion:	146	Resp:	985250
Ion Ratio	Lower	Upper	
146	100		
111	38.6	19.6	58.8
148	63.5	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
7/26/2019 3:36:58 PM



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 90.518 ug/l

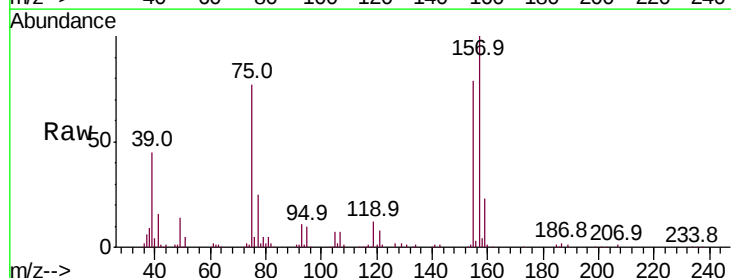
RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

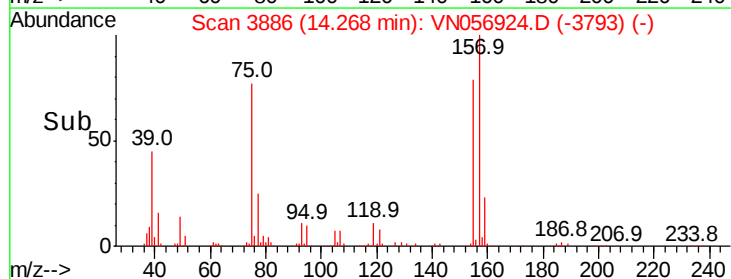
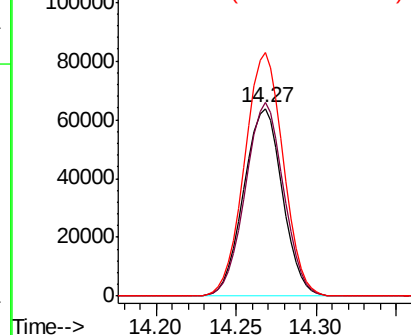
Lab File: VN056924.D

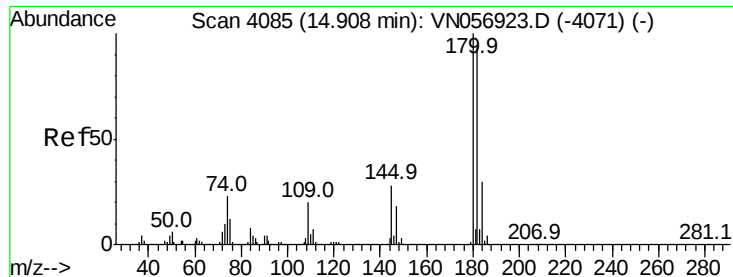
Acq: 25 Jul 2019 15:48

Tgt Ion:	75	Resp:	105281
Ion Ratio	Lower	Upper	
75	100		
155	102.1	47.3	141.9
157	129.5	63.0	189.0



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





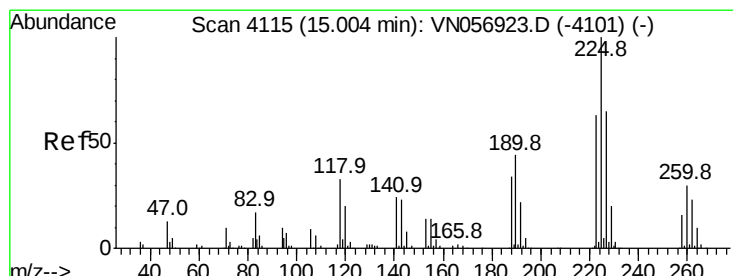
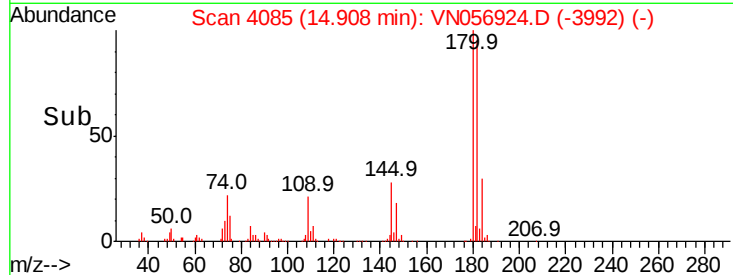
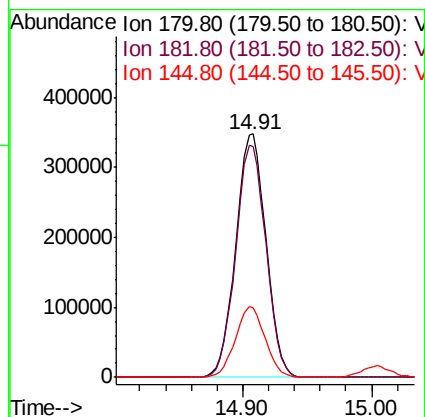
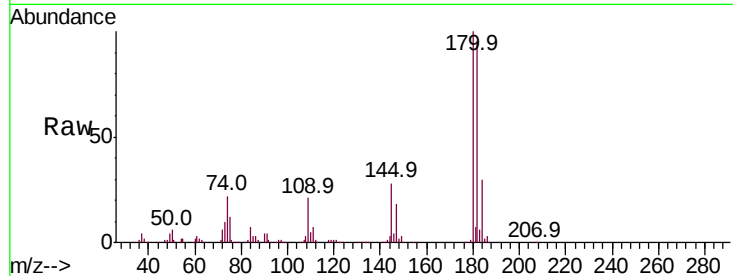
#93
 1,2,4-Trichlorobenzene
 Concen: 122.362 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.5	47.9	143.8	
145	28.6	14.1	42.4	

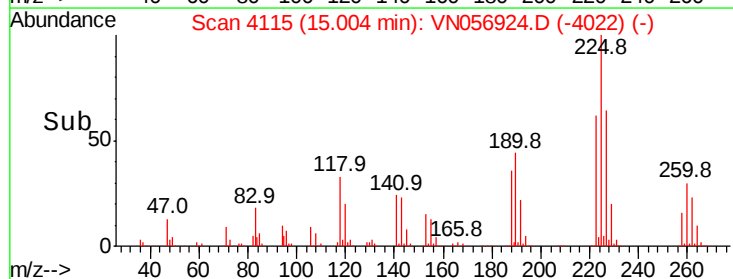
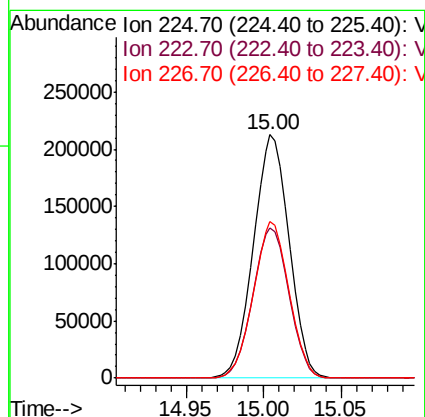
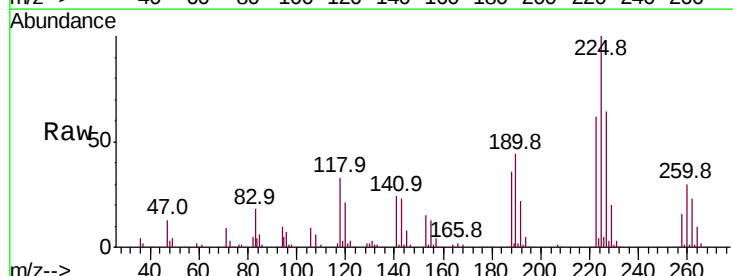
Manual Integrations
 APPROVED

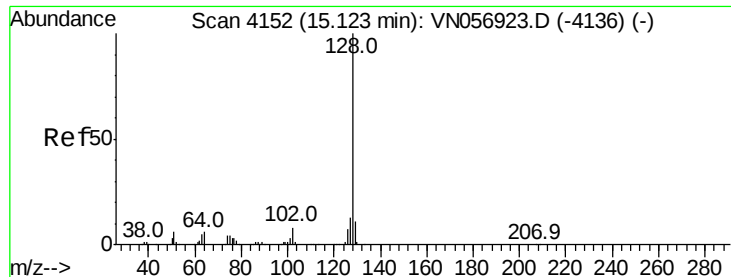
MMDadoda
 7/26/2019 3:36:58 PM



#94
 Hexachlorobutadiene
 Concen: 81.180 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN056924.D
 Acq: 25 Jul 2019 15:48

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.4	31.3	93.9	
227	63.8	31.9	95.7	





#95

Naphthalene

Concen: 120.096 ug/l

RT: 15.12 min Scan# 4152

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tot Ion:128 Resp: 1455039

Ion Ratio Lower Upper

128 100

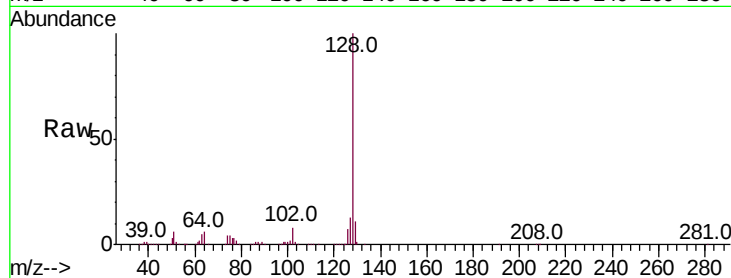
127 12.9 10.2 15.2

129 10.8 8.6 13.0

Manual Integrations
APPROVED

MMDadoda

7/26/2019 3:36:58 PM

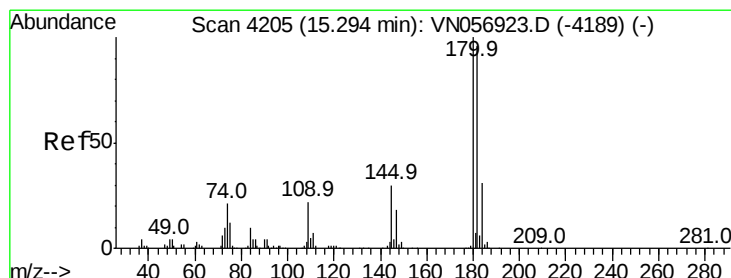
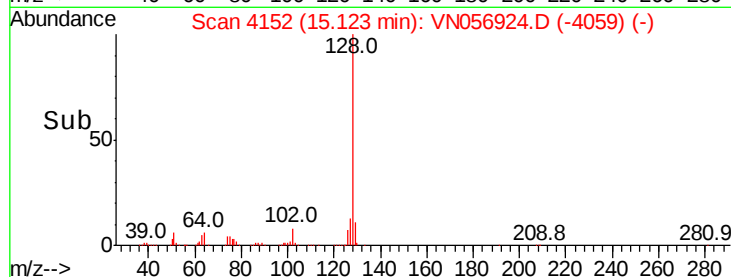
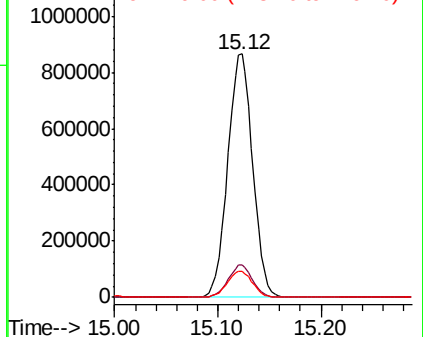


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 115.394 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. -0.00 min

Lab File: VN056924.D

Acq: 25 Jul 2019 15:48

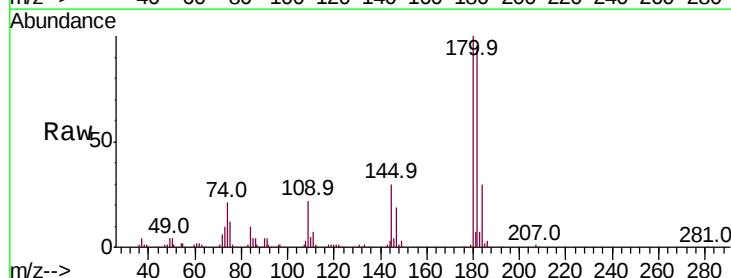
Tgt Ion:180 Resp: 589160

Ion Ratio Lower Upper

180 100

182 95.2 48.4 145.3

145 30.1 15.1 45.3



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

