

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031319\
 Data File : VX008036.D
 Acq On : 13 Mar 2019 09:09
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 10:17:45 AM

Quant Time: Mar 13 12:02:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 07:33:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	253523	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	351912	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	313495	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	165487	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	124103	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	
35) Dibromofluoromethane	5.50	113	111610	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
50) Toluene-d8	8.71	98	417916	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
62) 4-Bromofluorobenzene	11.13	95	152425	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	103010	47.558	ug/l	99
3) Chloromethane	1.33	50	126155	45.196	ug/l	99
4) Vinyl Chloride	1.41	62	132281	47.695	ug/l	100
5) Bromomethane	1.64	94	63704	48.921	ug/l	99
6) Chloroethane	1.72	64	73602	39.947	ug/l	100
7) Trichlorofluoromethane	1.93	101	162540	45.012	ug/l	96
8) Diethyl Ether	2.19	74	68649	43.902	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.38	101	104851	46.856	ug/l	98
10) Methyl Iodide	2.51	142	148536	46.790	ug/l	99
11) Tert butyl alcohol	3.07	59	121154	202.568	ug/l	100
12) 1,1-Dichloroethene	2.38	96	96785	44.870	ug/l	95
13) Acrolein	2.30	56	99396	293.398	ug/l	100
14) Allyl chloride	2.73	41	185503	40.927	ug/l	98
15) Acrylonitrile	3.15	53	312052	206.706	ug/l	100
16) Acetone	2.45	43	371977	240.299	ug/l	99
17) Carbon Disulfide	2.57	76	285220	43.485	ug/l	99
18) Methyl Acetate	2.78	43	143803	43.728	ug/l	97
19) Methyl tert-butyl Ether	3.20	73	344668	46.447	ug/l	99
20) Methylene Chloride	2.86	84	108930	44.216	ug/l	96
21) trans-1,2-Dichloroethene	3.17	96	106540	44.889	ug/l	96
22) Diisopropyl ether	3.87	45	392194	47.203	ug/l	96
23) Vinyl Acetate	3.82	43	1698347	233.096	ug/l	99
24) 1,1-Dichloroethane	3.70	63	208758	46.689	ug/l	100
25) 2-Butanone	4.70	43	520486	237.499	ug/l	98
26) 2,2-Dichloropropane	4.59	77	158250	53.422	ug/l	100
27) cis-1,2-Dichloroethene	4.60	96	128533	47.327	ug/l	99
28) Bromochloromethane	5.02	49	94477	45.323	ug/l	97
29) Tetrahydrofuran	5.15	42	301243	220.368	ug/l	98
30) Chloroform	5.21	83	204232	48.287	ug/l	98
31) Cyclohexane	5.57	56	198837	48.386	ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	175151	49.911	ug/l	98
36) 1,1-Dichloropropene	5.80	75	160534	50.380	ug/l	100
37) Ethyl Acetate	4.85	43	173069	45.769	ug/l	99
38) Carbon Tetrachloride	5.78	117	156971	51.889	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	208327	53.955	ug/l	100
40) Benzene	6.14	78	478818	50.474	ug/l	100
41) Methacrylonitrile	5.06	41	98329	47.695	ug/l	98
42) 1,2-Dichloroethane	6.20	62	154810	49.901	ug/l	100
43) Isopropyl Acetate	6.46	43	272957	48.774	ug/l	99
44) Trichloroethene	7.21	130	136130	52.072	ug/l	99
45) 1,2-Dichloropropane	7.51	63	125807	50.212	ug/l	100
46) Dibromomethane	7.66	93	79370	50.056	ug/l	98
47) Bromodichloromethane	7.90	83	153179	50.953	ug/l	100
48) Methyl methacrylate	7.77	41	144082	48.969	ug/l	98
49) 1,4-Dioxane	7.75	88	54807	906.774	ug/l	99
51) 4-Methyl-2-Pentanone	8.65	43	876778	243.616	ug/l	99
52) Toluene	8.78	92	301230	52.011	ug/l	100
53) t-1,3-Dichloropropene	9.04	75	175006	55.774	ug/l	100
54) cis-1,3-Dichloropropene	8.43	75	192882	54.435	ug/l	97
55) 1,1,2-Trichloroethane	9.21	97	122383	52.200	ug/l	98
56) Ethyl methacrylate	9.18	69	185324	52.646	ug/l	98
57) 1,3-Dichloropropane	9.37	76	202575	51.459	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.31	63	529795	290.950	ug/l	98
59) 2-Hexanone	9.49	43	688350	246.350	ug/l	99
60) Dibromochloromethane	9.58	129	129869	52.995	ug/l	99
61) 1,2-Dibromoethane	9.67	107	128572	51.652	ug/l	100
64) Tetrachloroethene	9.33	164	139758	53.796	ug/l	98
65) Chlorobenzene	10.13	112	334849	51.043	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.22	131	122486	52.096	ug/l	99
67) Ethyl Benzene	10.25	91	569037	52.695	ug/l	100
68) m/p-Xylenes	10.36	106	439823	105.667	ug/l	99
69) o-Xylene	10.69	106	210604	52.409	ug/l	100
70) Styrene	10.71	104	355269	54.027	ug/l	99
71) Bromoform	10.85	173	103494	51.258	ug/l #	100
73) Isopropylbenzene	11.02	105	575214	51.395	ug/l	100
74) N-amyl acetate	10.90	43	236792	46.343	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.27	83	175383	45.429	ug/l	100
76) 1,2,3-Trichloropropane	11.30	75	147092m	42.358	ug/l	
77) Bromobenzene	11.26	156	151712	49.442	ug/l	99
78) n-propylbenzene	11.36	91	656017	52.835	ug/l	99
79) 2-Chlorotoluene	11.42	91	379957	50.049	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	480436	52.155	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.07	75	55408	51.002	ug/l	98
82) 4-Chlorotoluene	11.51	91	445725	51.233	ug/l	100
83) tert-Butylbenzene	11.77	119	470394	50.695	ug/l	98
84) 1,2,4-Trimethylbenzene	11.80	105	490663	51.959	ug/l	100
85) sec-Butylbenzene	11.94	105	585504	53.577	ug/l	99
86) p-Isopropyltoluene	12.06	119	533791	54.540	ug/l	100
87) 1,3-Dichlorobenzene	12.02	146	278408	51.285	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	277939	49.994	ug/l	99
89) n-Butylbenzene	12.38	91	466698	56.285	ug/l	99
90) Hexachloroethane	12.60	117	84679	51.748	ug/l	98
91) 1,2-Dichlorobenzene	12.39	146	267616	49.624	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	36136	44.788	ug/l	95

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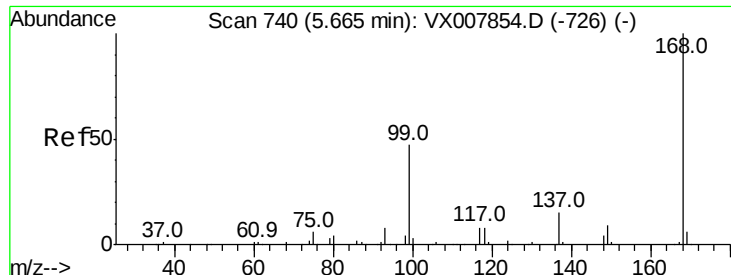
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	206225	54.434	ug/l	100
94) Hexachlorobutadiene	13.78	225	110605	55.841	ug/l	99
95) Naphthalene	13.83	128	561256	51.416	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	199517	52.866	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

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Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 253523

Ion Ratio Lower Upper

168 100

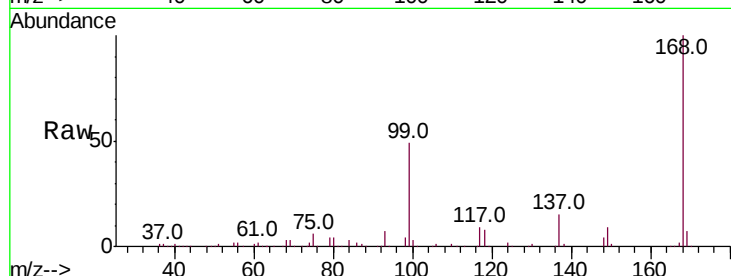
99 48.9 37.6 56.4

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

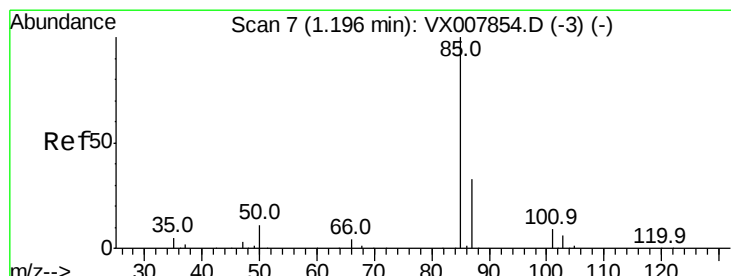
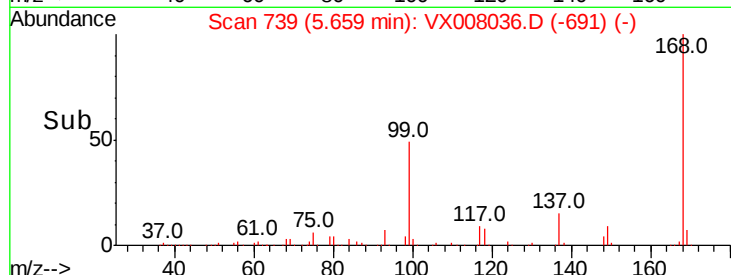
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 47.558 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX008036.D

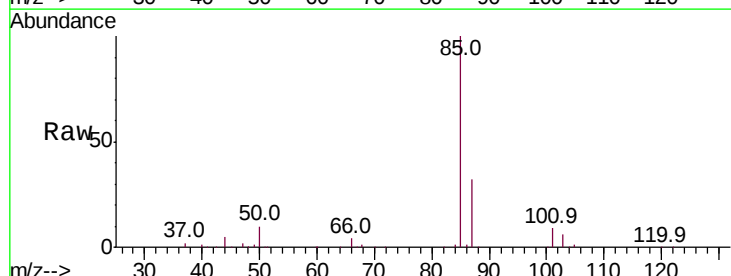
Acq: 13 Mar 2019 09:09

Tgt Ion: 85 Resp: 103010

Ion Ratio Lower Upper

85 100

87 32.0 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

120000

100000

80000

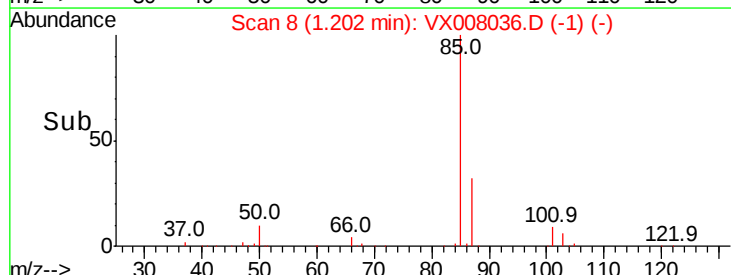
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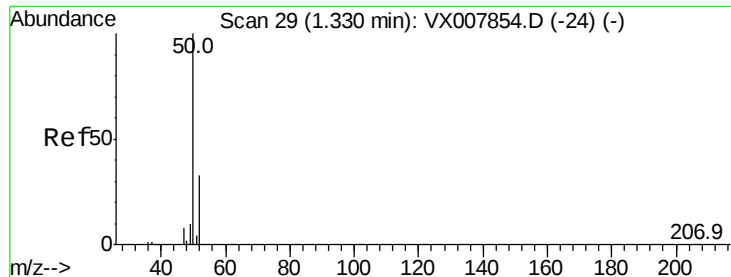
40000

20000

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Time-->





#3

Chloromethane

Concen: 45.196 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 126155

Ion Ratio Lower Upper

50 100

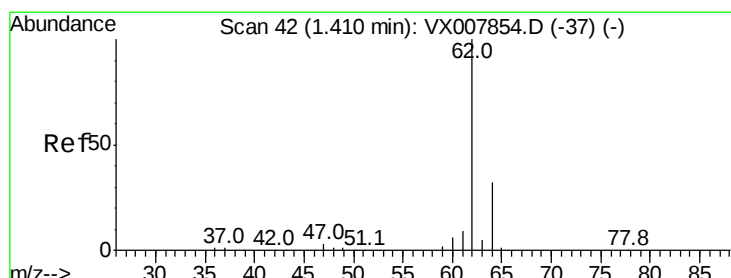
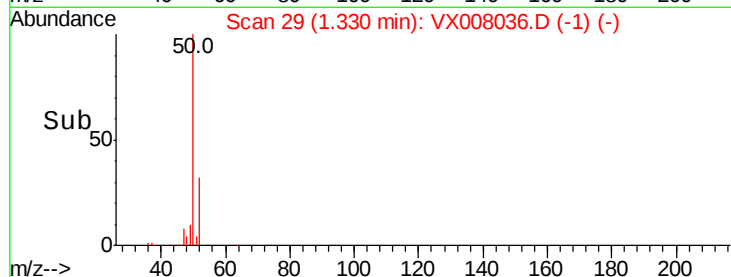
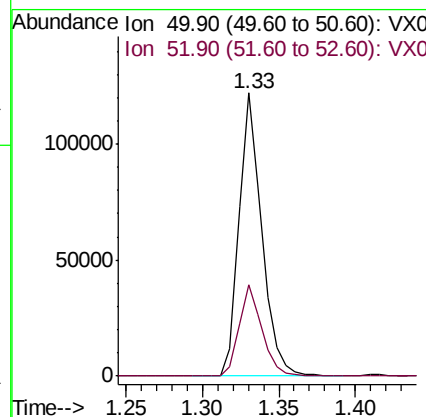
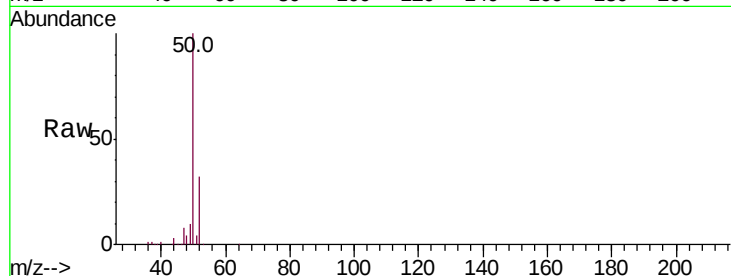
52 32.3 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 47.695 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX008036.D

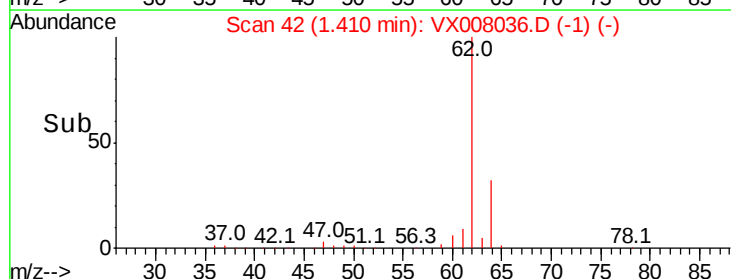
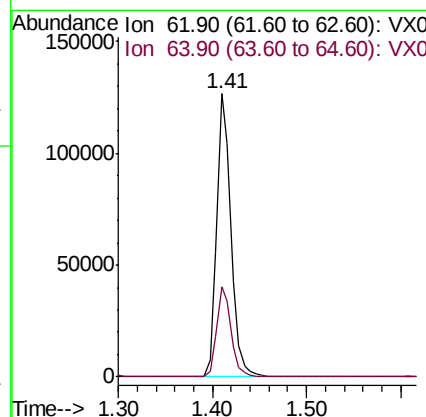
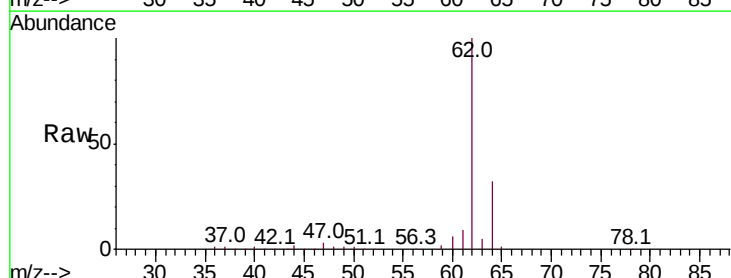
Acq: 13 Mar 2019 09:09

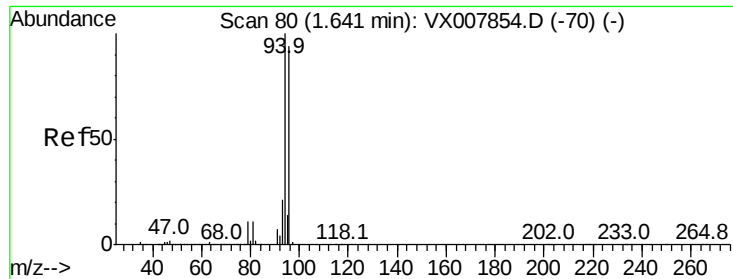
Tgt Ion: 62 Resp: 132281

Ion Ratio Lower Upper

62 100

64 31.6 25.3 37.9





#5

Bromomethane

Concen: 48.921 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 63704

Ion Ratio Lower Upper

94 100

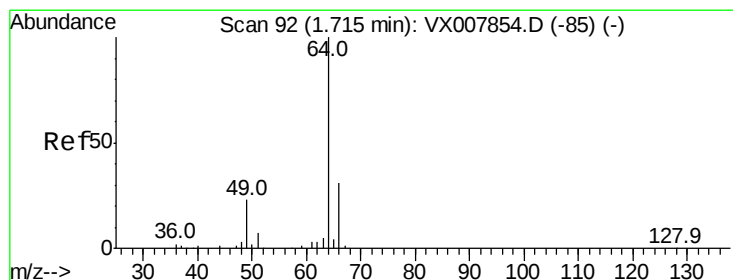
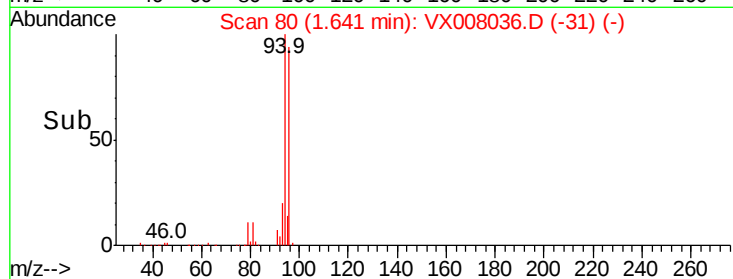
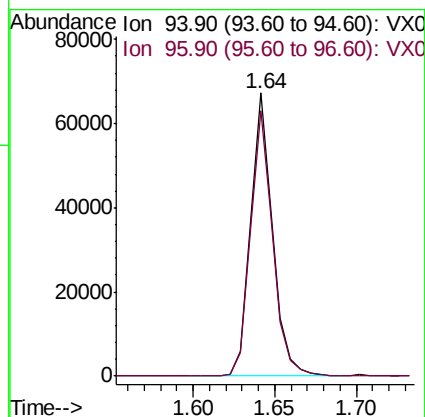
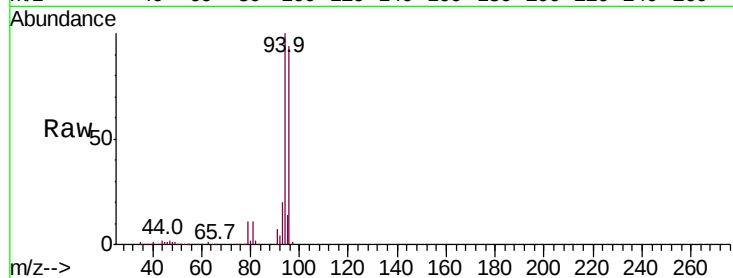
96 93.7 75.5 113.3

Manual Integrations

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#6

Chloroethane

Concen: 39.947 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX008036.D

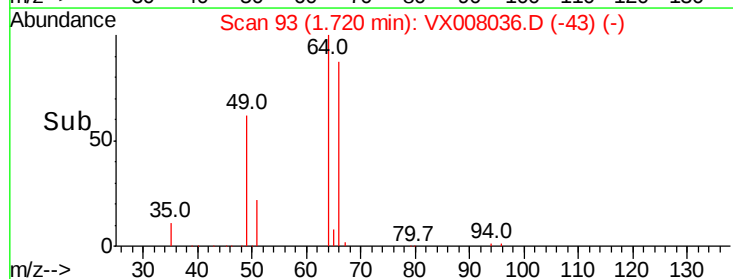
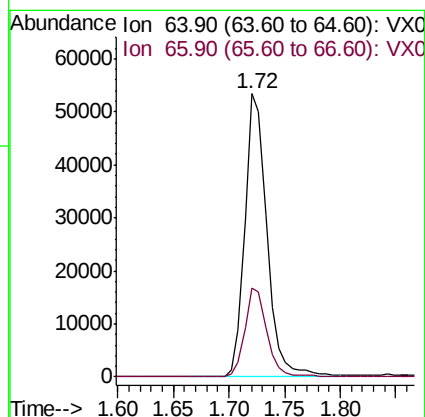
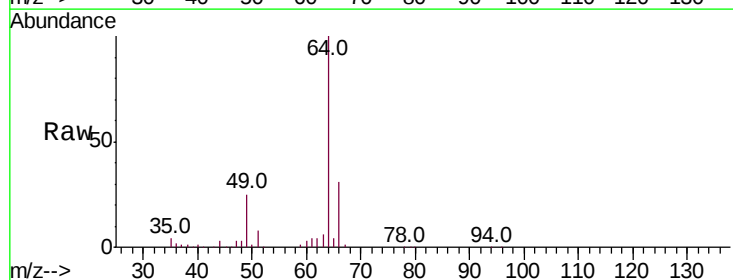
Acq: 13 Mar 2019 09:09

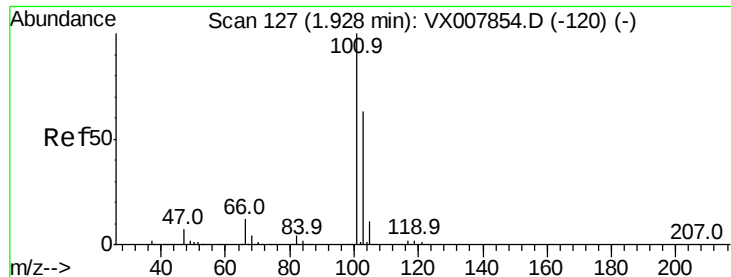
Tgt Ion: 64 Resp: 73602

Ion Ratio Lower Upper

64 100

66 31.4 25.2 37.8





#7

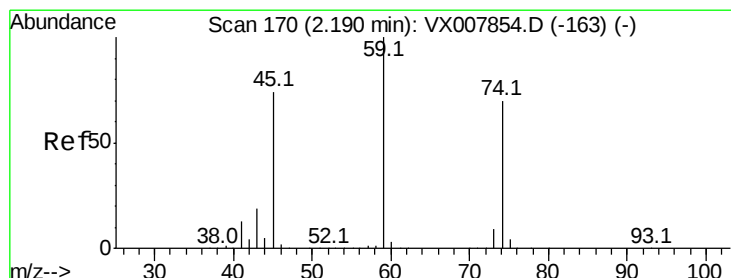
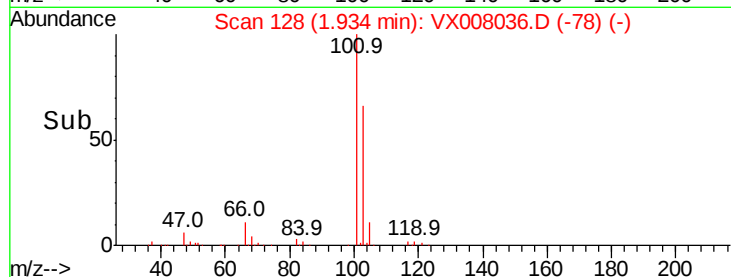
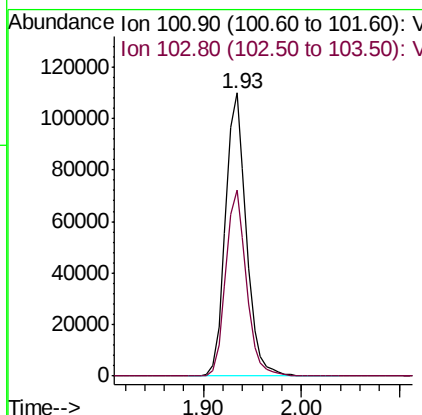
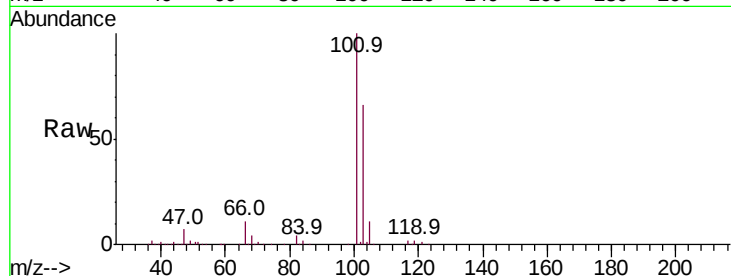
Trichlorofluoromethane
Concen: 45.012 ug/l
RT: 1.93 min Scan# 128
Delta R.T. 0.01 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.8	50.4	75.6

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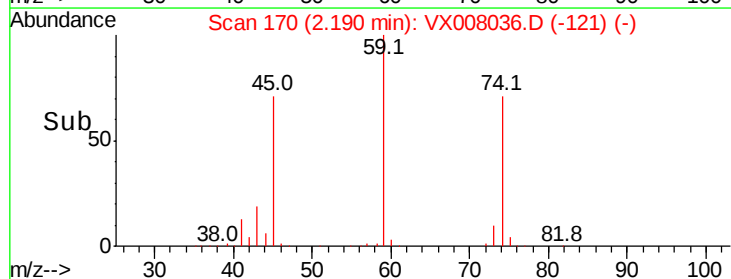
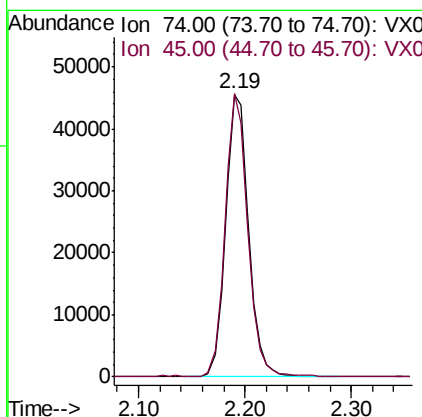
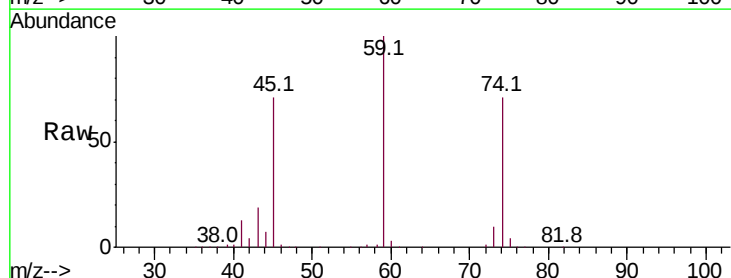
MMDadoda
3/14/2019 10:17:45 AM

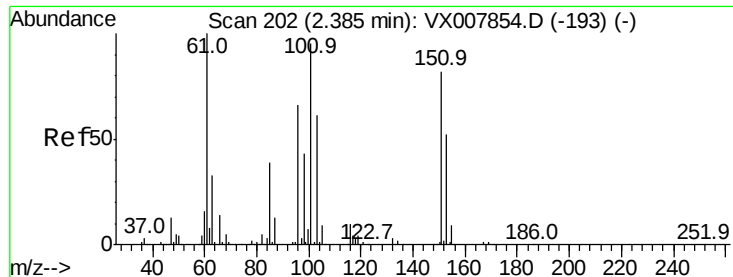


#8

Diethyl Ether
Concen: 43.902 ug/l
RT: 2.19 min Scan# 170
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.6	52.1	156.4





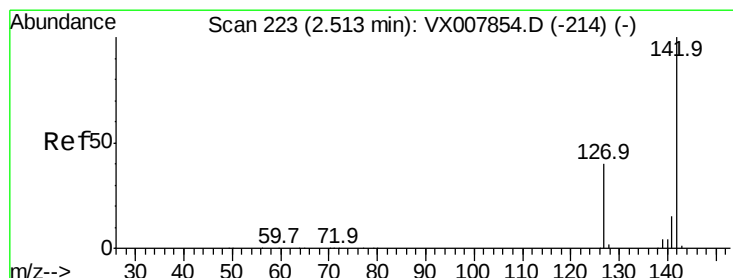
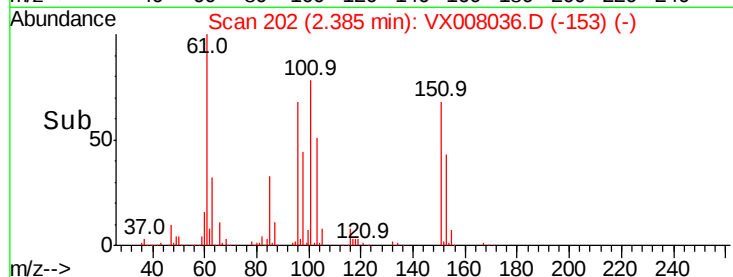
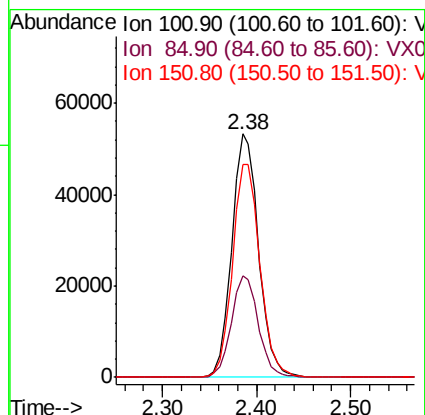
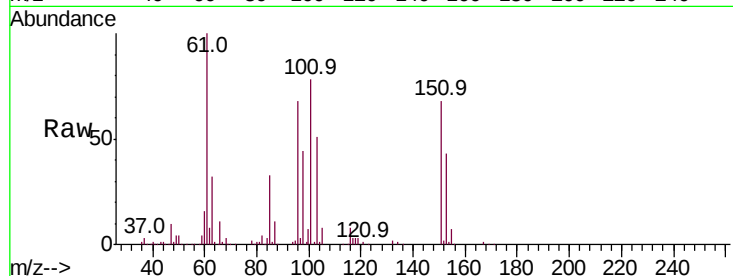
#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.856 ug/l
RT: 2.38 min Scan# 202
Delta R.T. -0.00 min
Lab File: VX008036.D
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Tot Ion	Ratio	Lower	Upper
101	100		
85	41.8	33.8	50.6
151	89.5	69.1	103.7

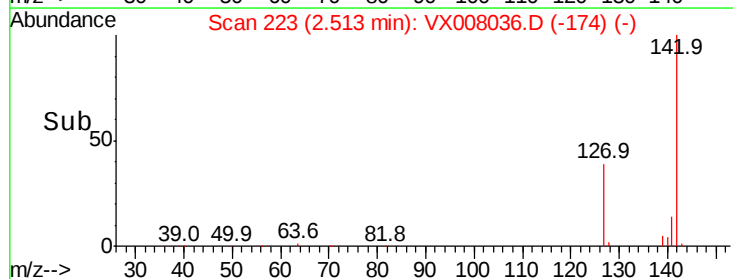
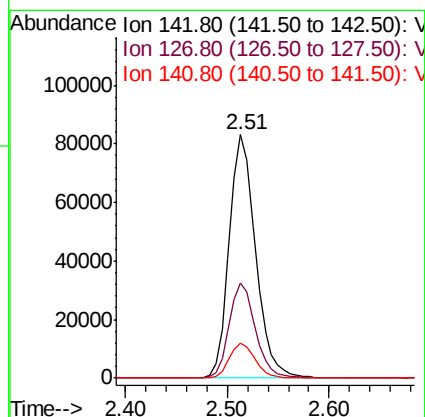
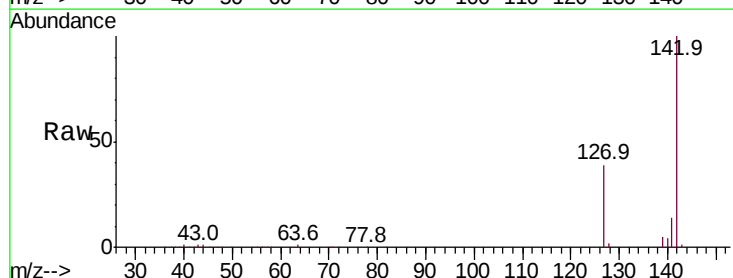
Manual Integrations
APPROVED

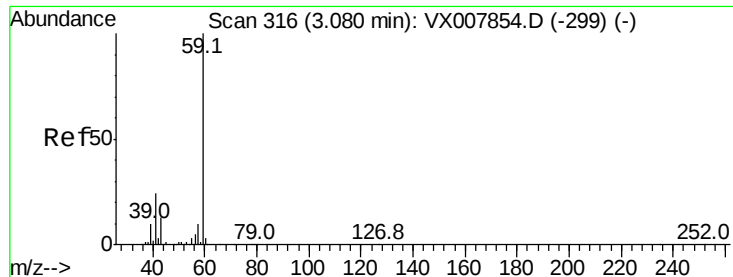
MMDadoda
3/14/2019 10:17:45 AM



#10
Methyl Iodide
Concen: 46.790 ug/l
RT: 2.51 min Scan# 223
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Lower	Upper
142	100		
127	39.0	32.1	48.1
141	14.2	11.4	17.2





#11

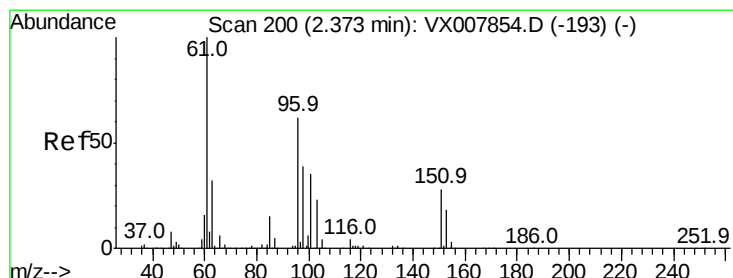
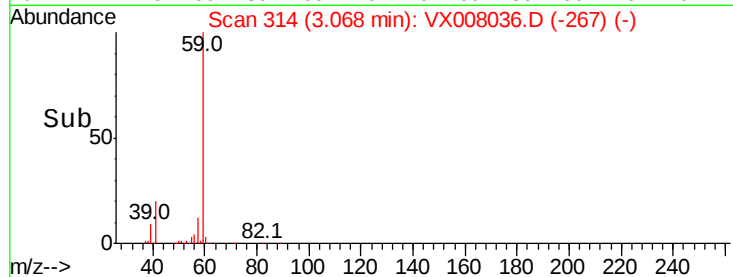
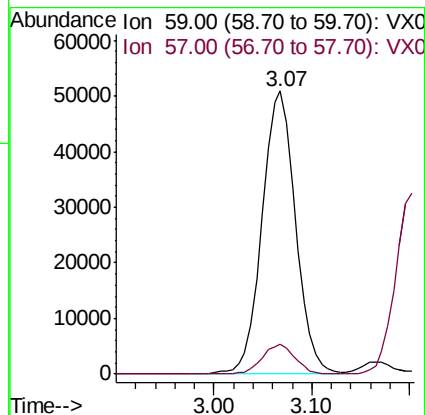
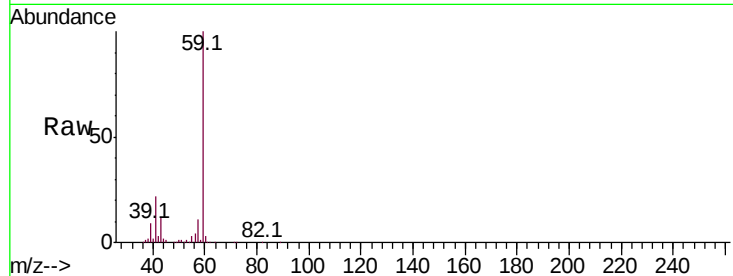
Tert butyl alcohol
Concen: 202.568 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.2	12.2

Manual Integrations
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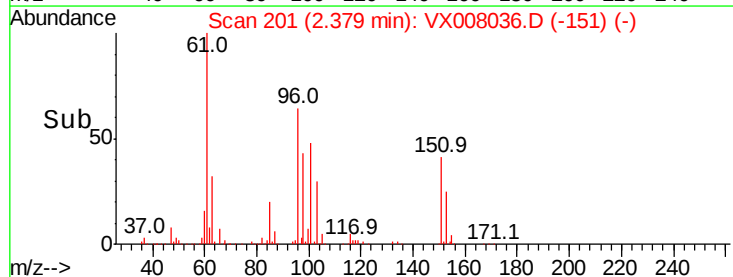
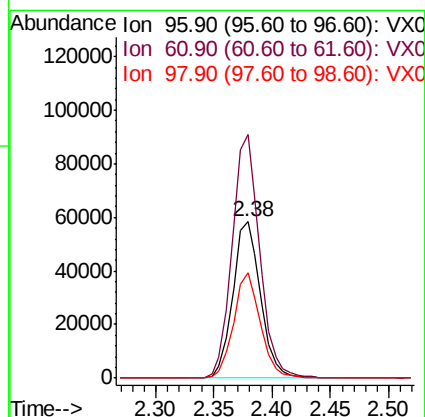
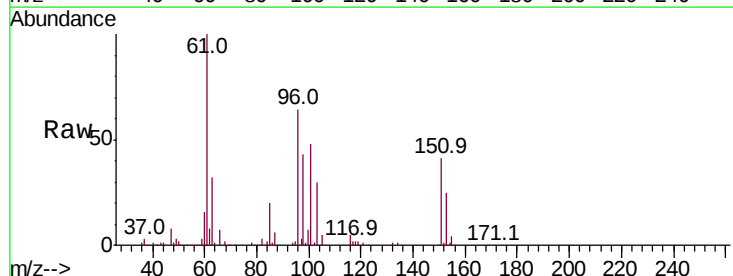
MMDadoda
3/14/2019 10:17:45 AM

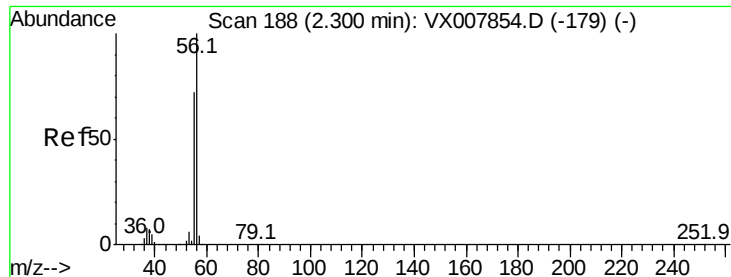


#12

1,1-Dichloroethene
Concen: 44.870 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.1	129.8	194.6
98	67.5	51.0	76.6





#13

Acrolein

Concen: 293.398 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 99396

Ion Ratio Lower Upper

56 100

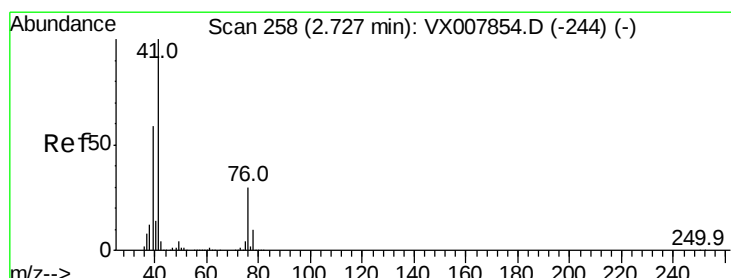
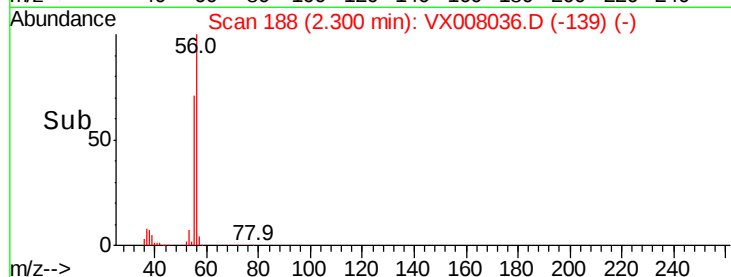
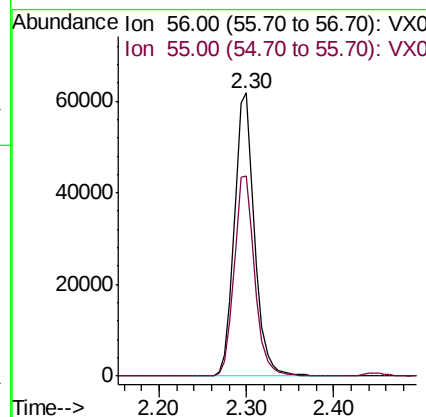
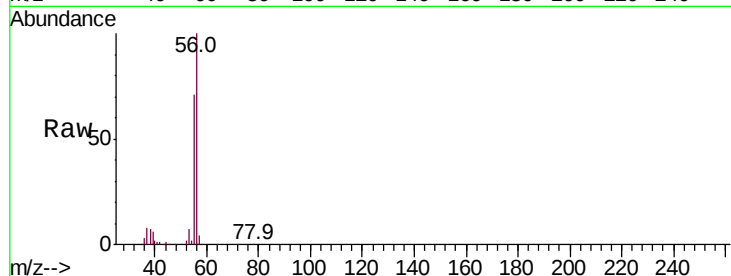
55 72.4 57.8 86.6

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:17:45 AM



#14

Allyl chloride

Concen: 40.927 ug/l

RT: 2.73 min Scan# 259

Delta R.T. 0.01 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

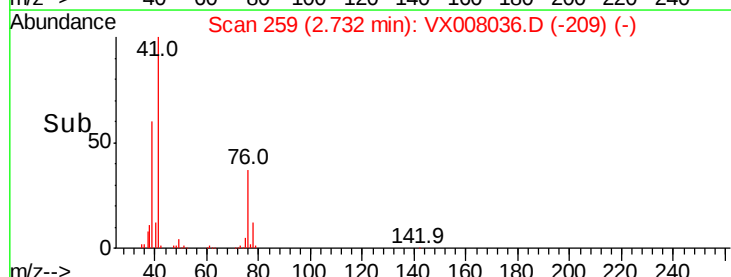
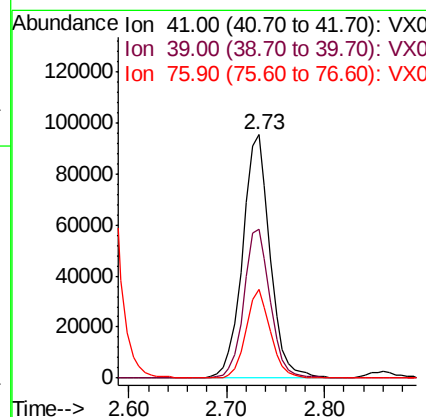
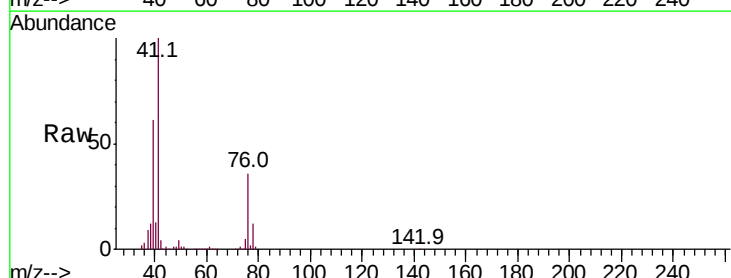
Tgt Ion: 41 Resp: 185503

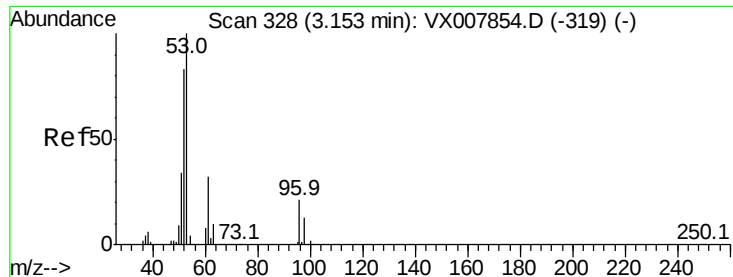
Ion Ratio Lower Upper

41 100

39 58.6 46.1 69.1

76 32.3 24.0 36.0





#15

Acrylonitrile

Concen: 206.706 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

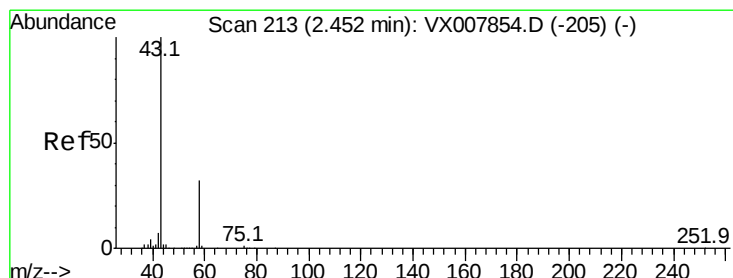
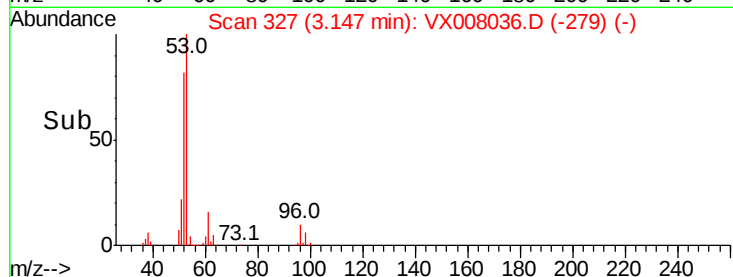
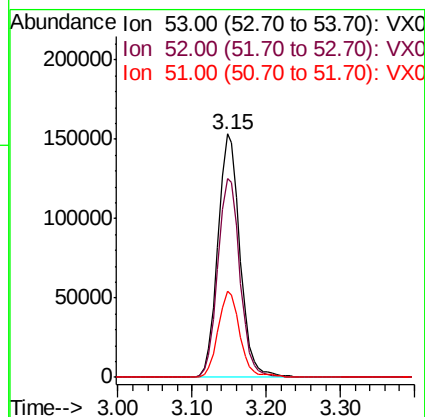
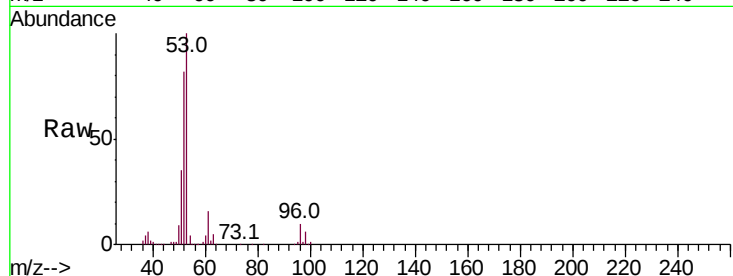
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	312052
Ion Ratio		Lower	Upper
53	100		
52	82.5	66.0	99.0
51	35.2	28.0	42.0

Manual Integrations
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3/14/2019 10:17:45 AM



#16

Acetone

Concen: 240.299 ug/l

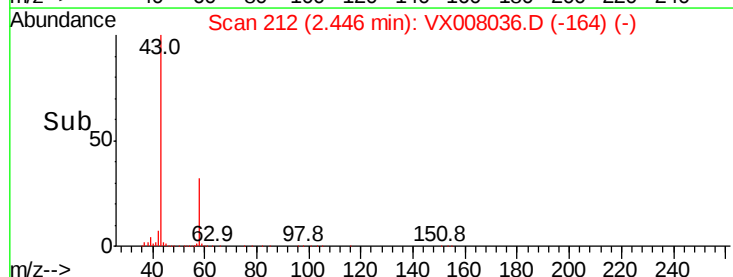
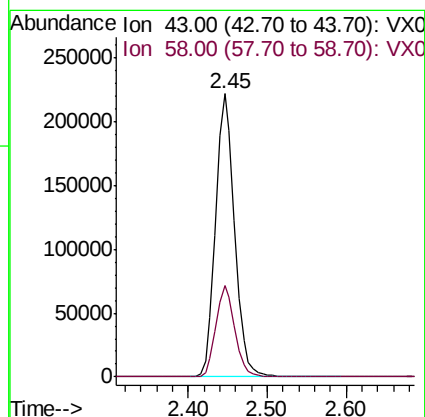
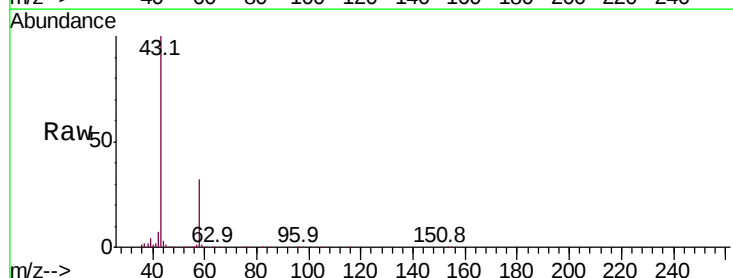
RT: 2.45 min Scan# 212

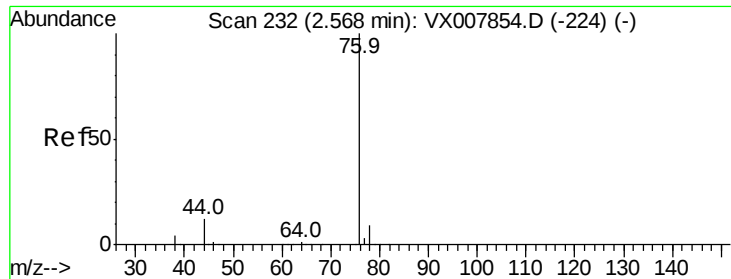
Delta R.T. -0.01 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Tgt Ion:	43	Resp:	371977
Ion Ratio		Lower	Upper
43	100		
58	32.5	25.5	38.3





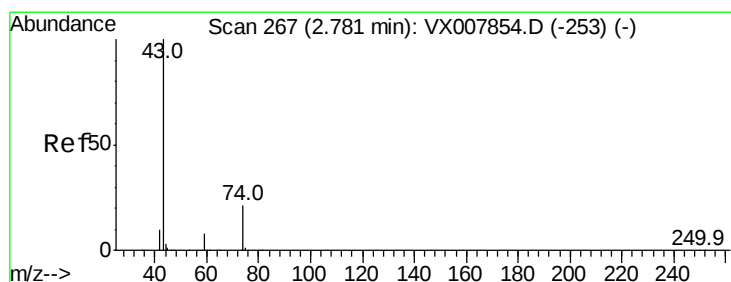
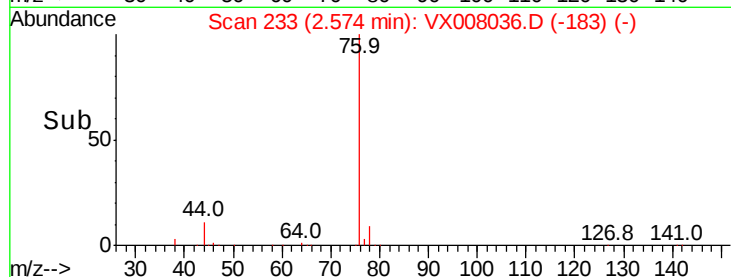
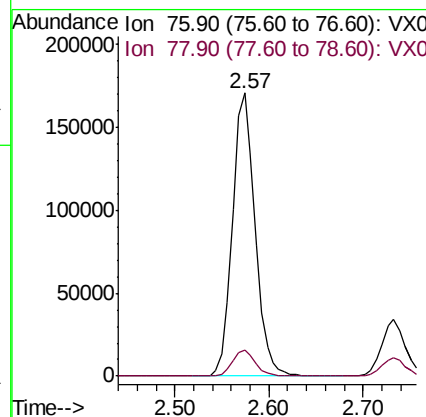
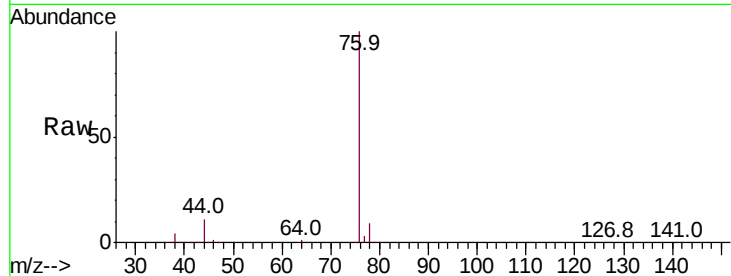
#17
Carbon Disulfide
Concen: 43.485 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.2	10.8

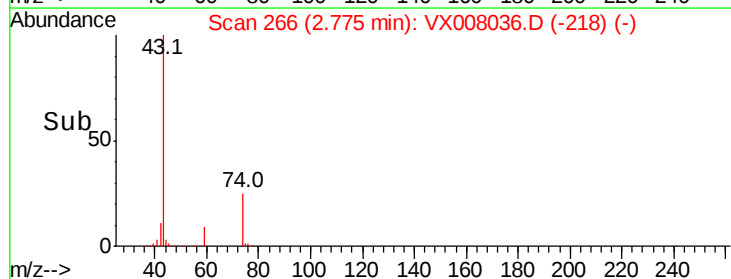
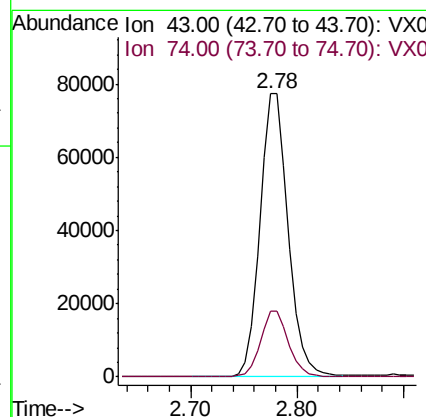
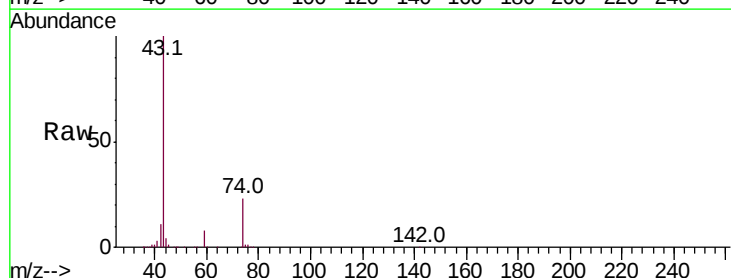
Manual Integrations
APPROVED

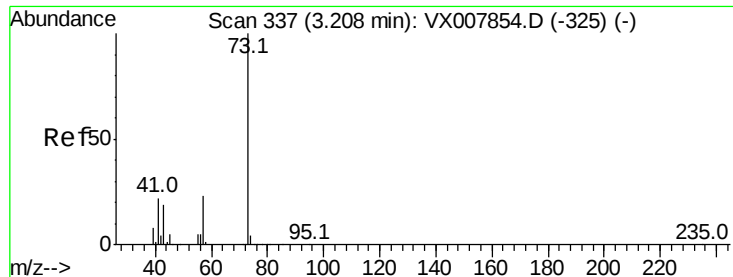
MMDadoda
3/14/2019 10:17:45 AM



#18
Methyl Acetate
Concen: 43.728 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.5	17.8	26.6





#19

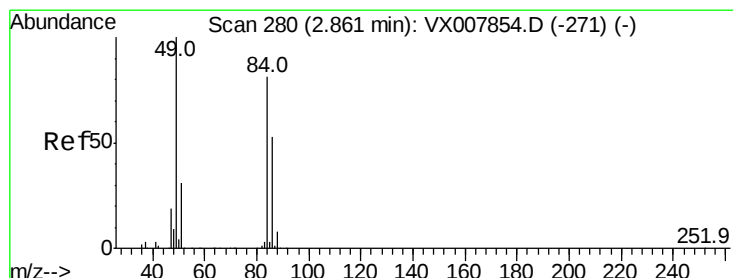
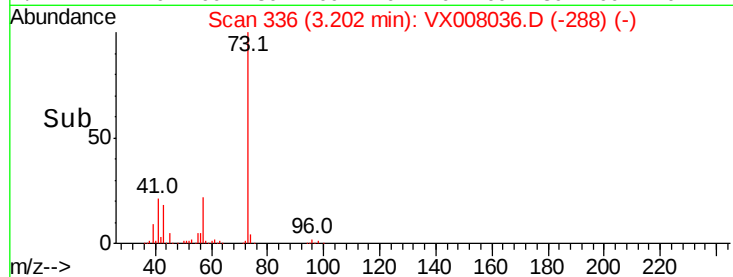
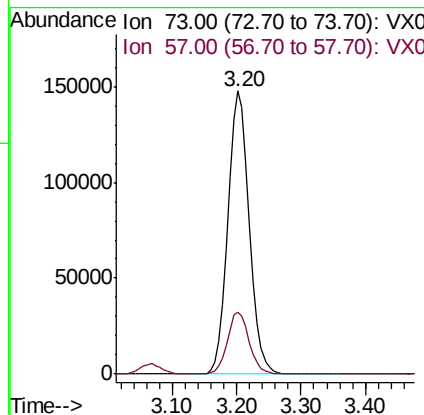
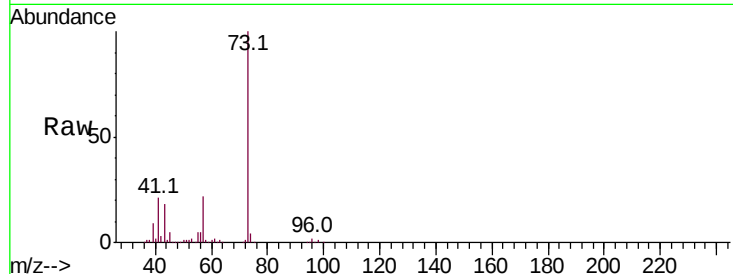
Methyl tert-butyl Ether
 Concen: 46.447 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. -0.01 min
 Lab File: VX008036.D
 Acq: 13 Mar 2019 09:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.1	18.2	27.4

Manual Integrations
 APPROVED

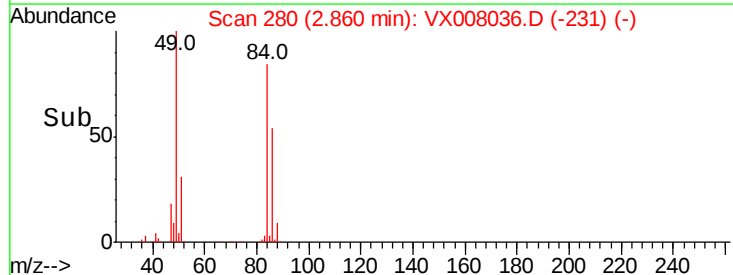
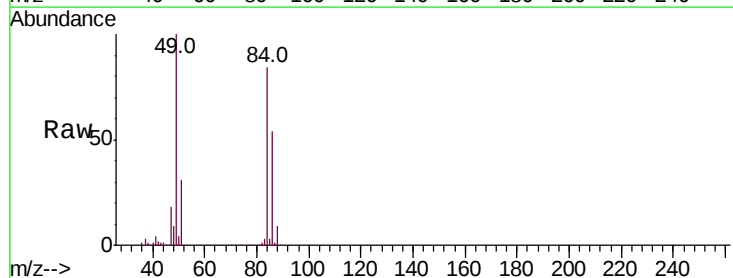
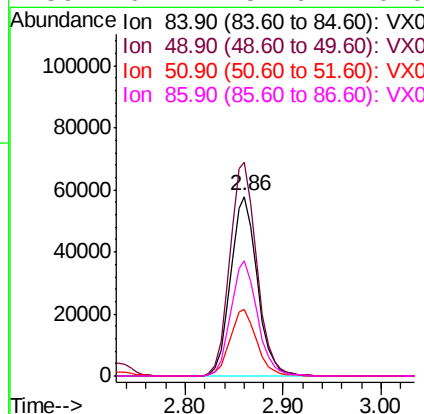
MMDadoda
 3/14/2019 10:17:45 AM

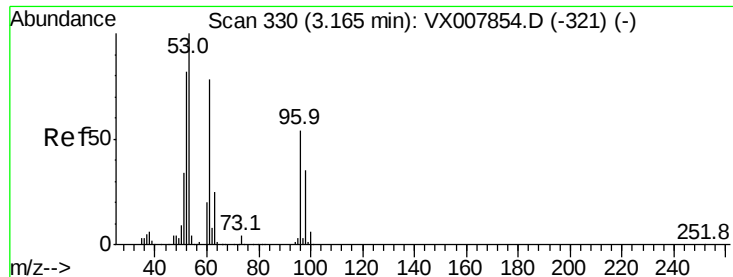


#20

Methylene Chloride
 Concen: 44.216 ug/l
 RT: 2.86 min Scan# 280
 Delta R.T. -0.00 min
 Lab File: VX008036.D
 Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Lower	Upper
84	100		
49	119.2	99.3	148.9
51	36.9	31.3	46.9
86	64.2	52.6	79.0





#21

trans-1,2-Dichloroethene

Concen: 44.889 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 106540

Ion Ratio Lower Upper

96 100

61 136.8 114.4 171.6

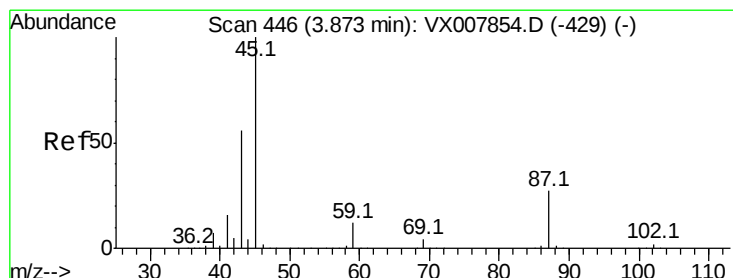
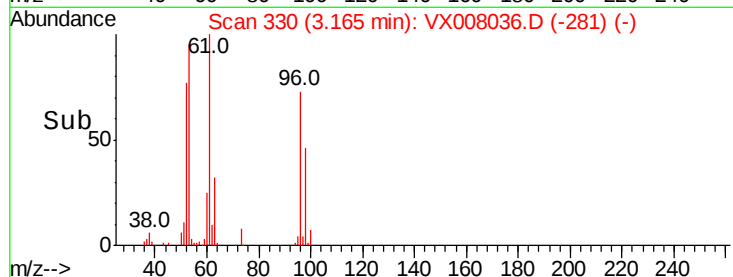
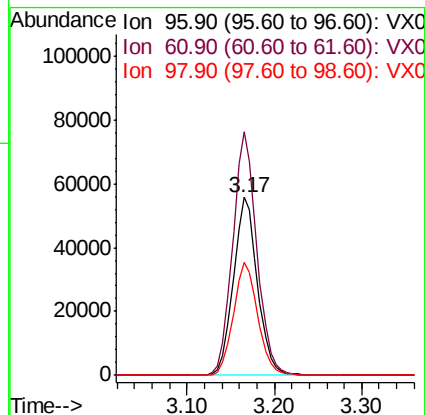
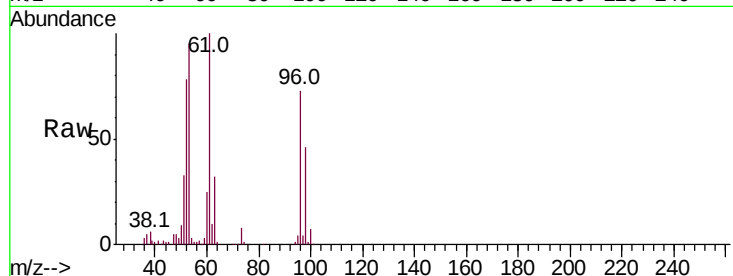
98 63.5 51.1 76.7

Manual Integrations

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MMDadoda

3/14/2019 10:17:45 AM



#22

Diisopropyl ether

Concen: 47.203 ug/l

RT: 3.87 min Scan# 445

Delta R.T. -0.01 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Tgt Ion: 45 Resp: 392194

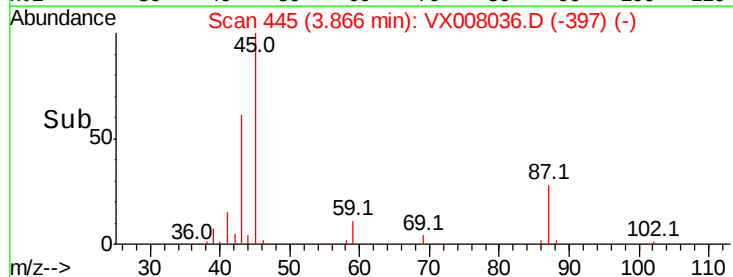
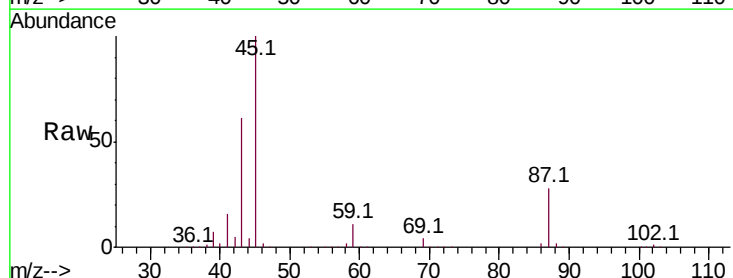
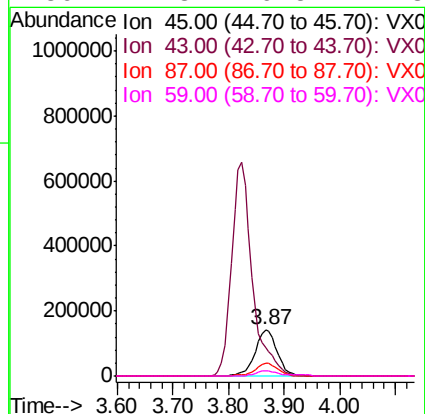
Ion Ratio Lower Upper

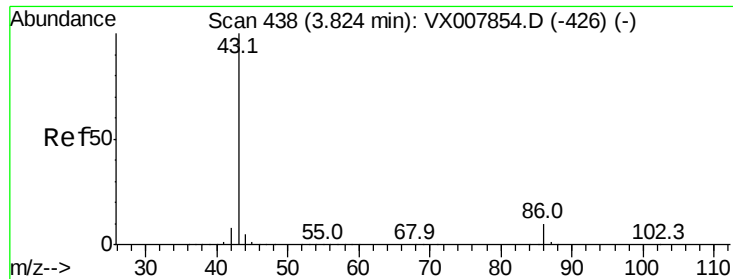
45 100

43 60.6 45.3 67.9

87 27.6 21.4 32.0

59 11.3 9.5 14.3





#23

Vinyl Acetate

Concen: 233.096 ug/l

RT: 3.82 min Scan# 438

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1698347

Ion Ratio Lower Upper

43 100

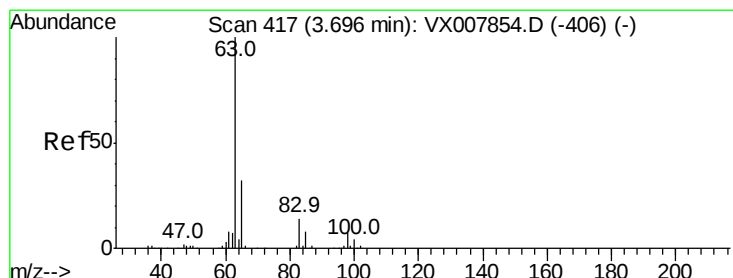
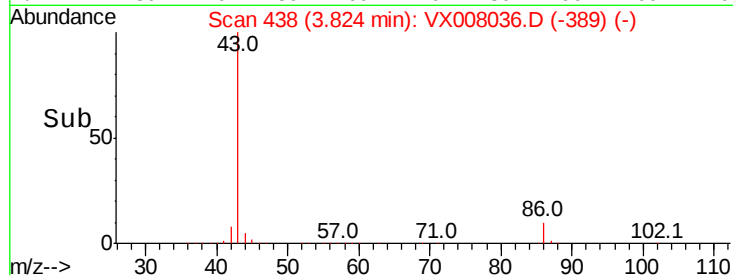
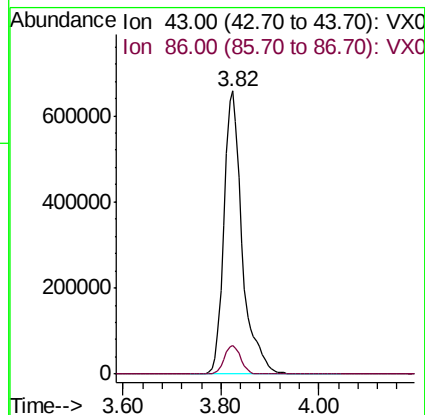
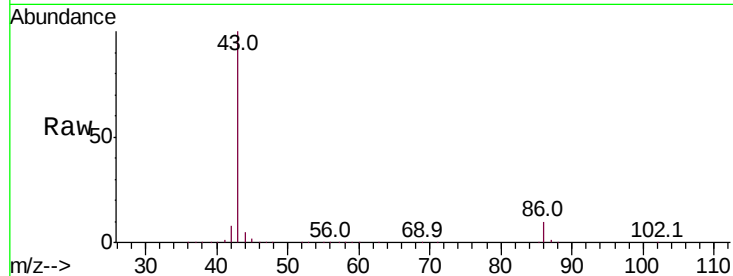
86 10.3 7.9 11.9

Manual Integrations

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MMDadoda

3/14/2019 10:17:45 AM



#24

1,1-Dichloroethane

Concen: 46.689 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

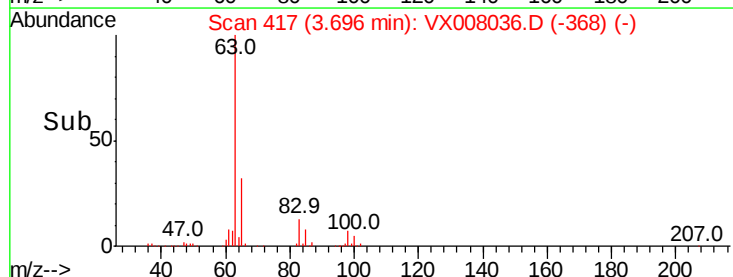
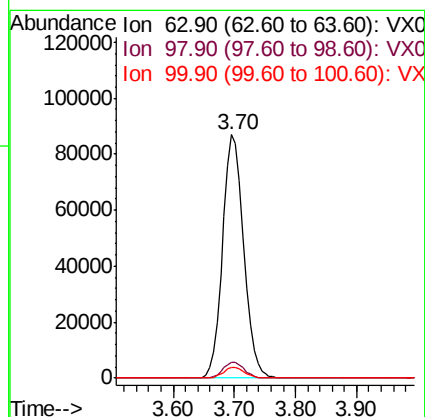
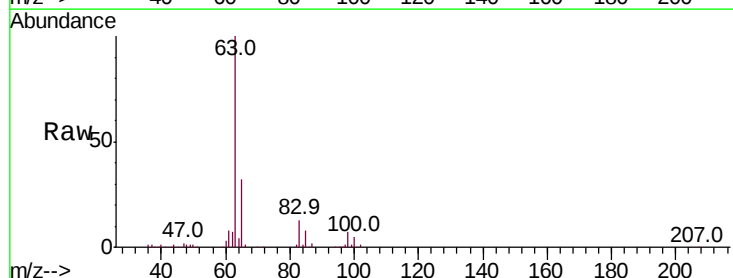
Tgt Ion: 63 Resp: 208758

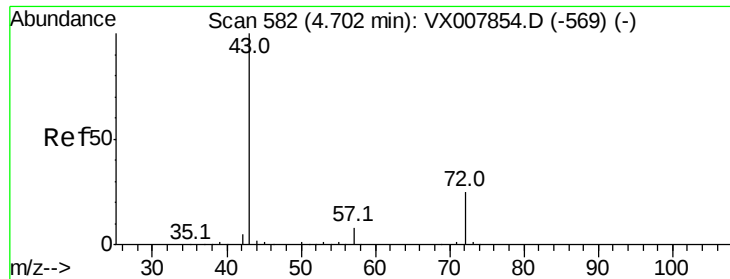
Ion Ratio Lower Upper

63 100

98 6.6 3.3 9.8

100 4.6 2.3 6.8





#25

2-Butanone

Concen: 237.499 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 520486

Ion Ratio Lower Upper

43 100

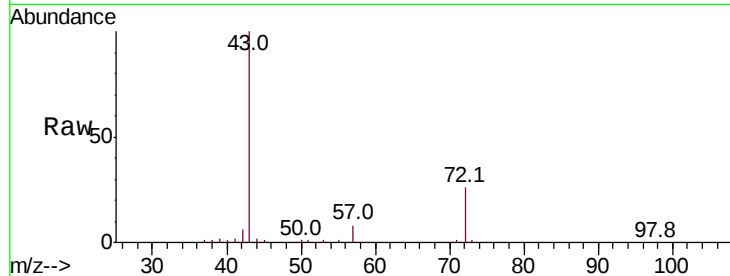
72 26.0 19.9 29.9

Manual Integrations

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

200000

150000

100000

50000

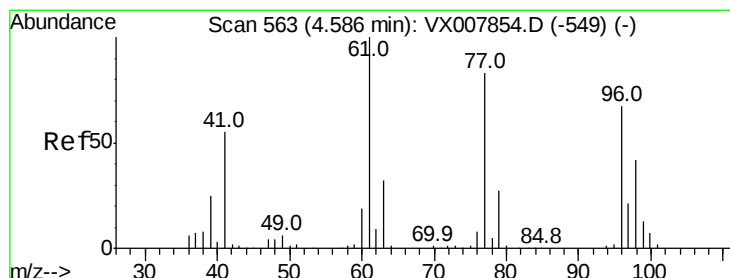
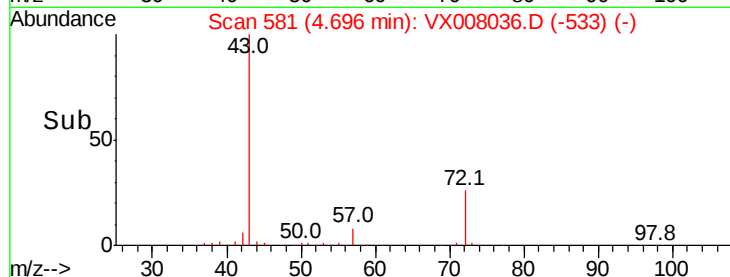
0

4.60

4.70

4.80

Time-->



#26

2,2-Dichloropropane

Concen: 53.422 ug/l

RT: 4.59 min Scan# 563

Delta R.T. -0.00 min

Lab File: VX008036.D

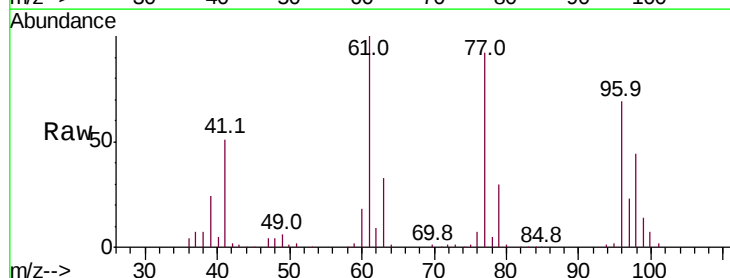
Acq: 13 Mar 2019 09:09

Tgt Ion: 77 Resp: 158250

Ion Ratio Lower Upper

77 100

97 24.4 12.2 36.6



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

60000

50000

40000

30000

20000

10000

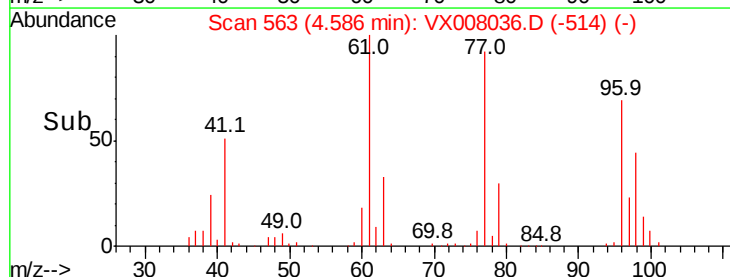
0

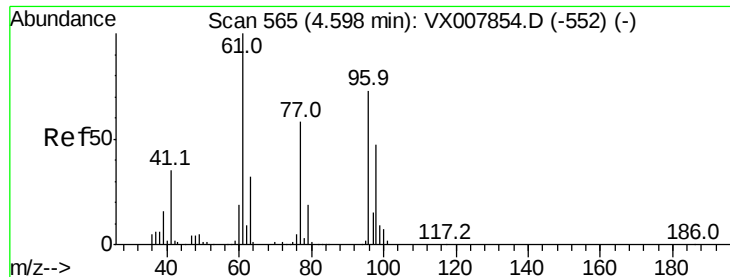
4.50

4.60

4.70

Time-->





#27

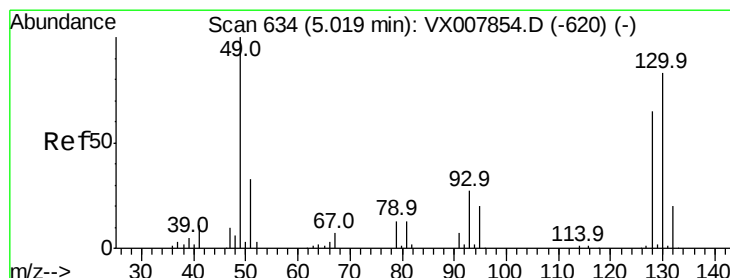
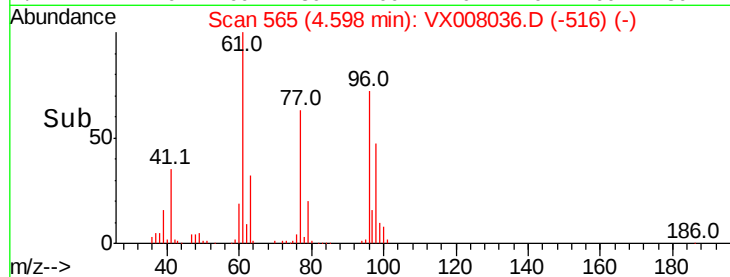
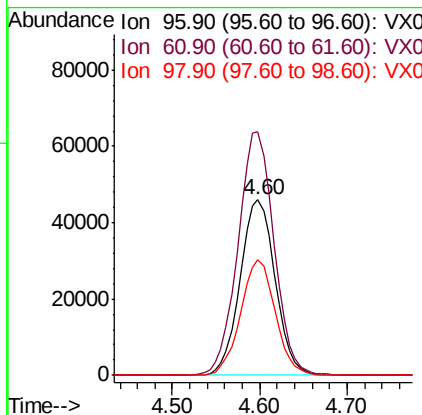
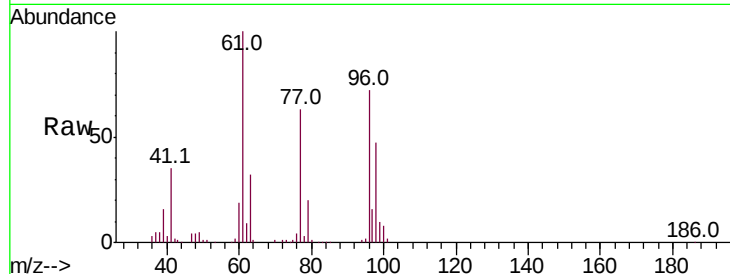
cis-1,2-Dichloroethene
Concen: 47.327 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	128533		
61	142.6	0.0	288.0	
98	65.0	0.0	129.0	

Manual Integrations
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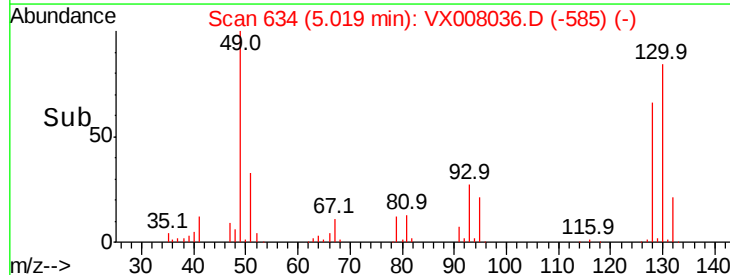
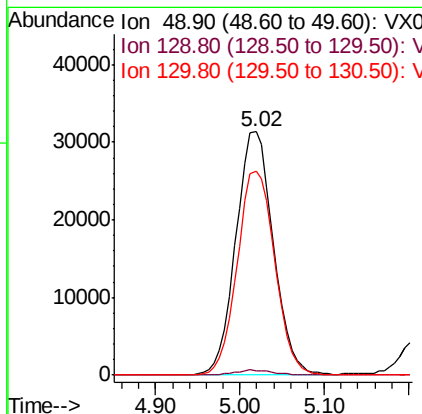
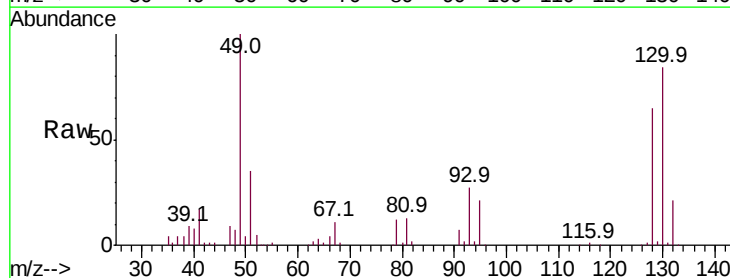
MMDadoda
3/14/2019 10:17:45 AM

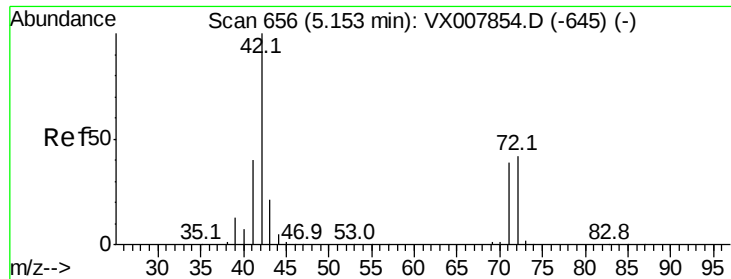


#28

Bromochloromethane
Concen: 45.323 ug/l
RT: 5.02 min Scan# 634
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	94477		
129	2.1	0.0	4.0	
130	84.0	65.0	97.4	





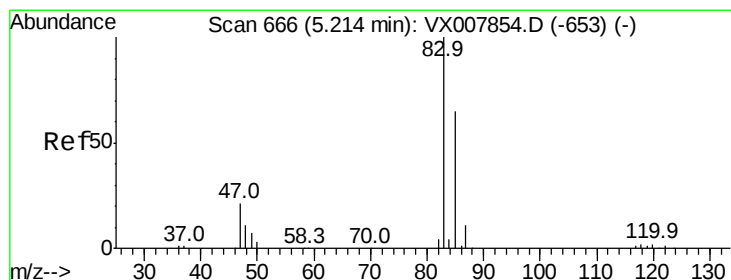
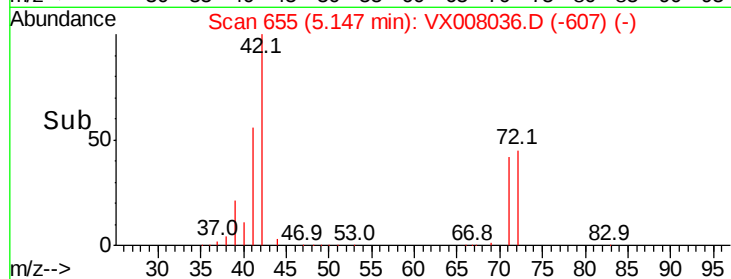
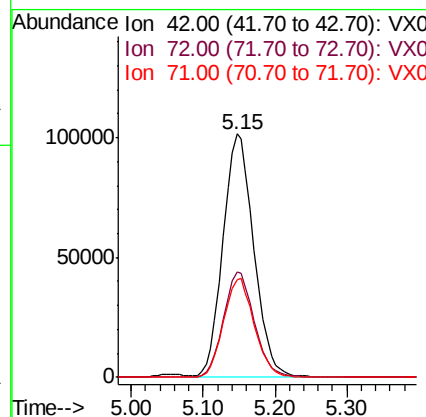
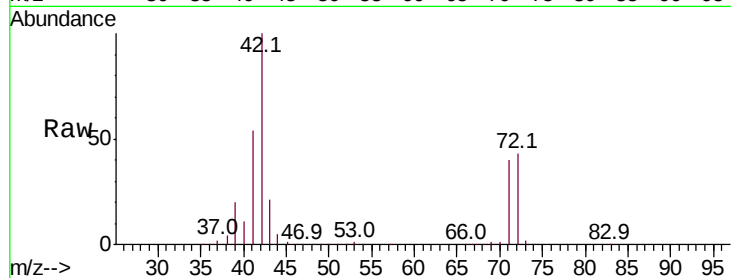
#29
Tetrahydrofuran
Concen: 220.368 ug/l
RT: 5.15 min Scan# 655
Delta R.T. -0.01 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.5	33.8	50.6
71	40.7	31.5	47.3

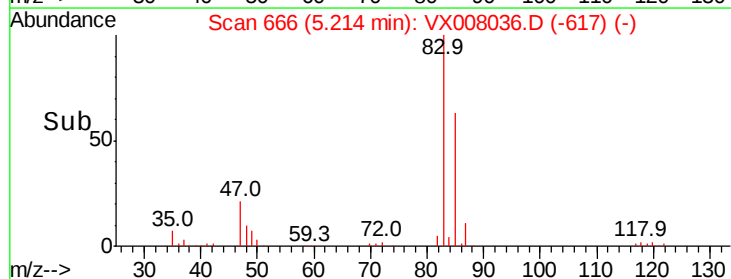
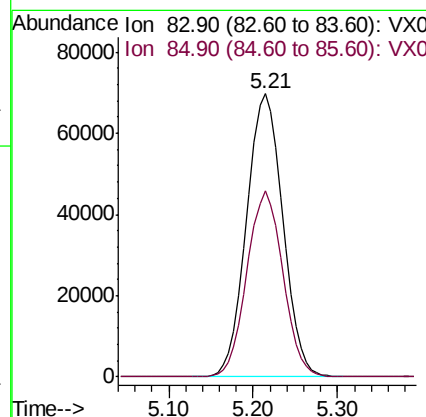
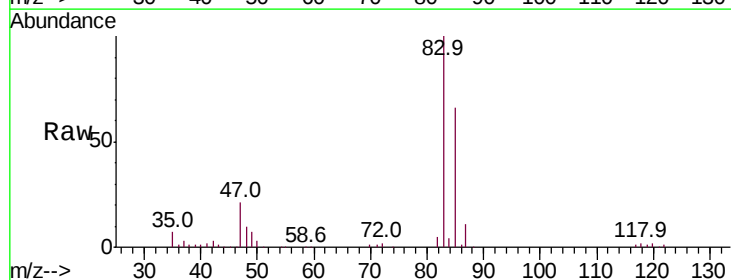
Manual Integrations
APPROVED

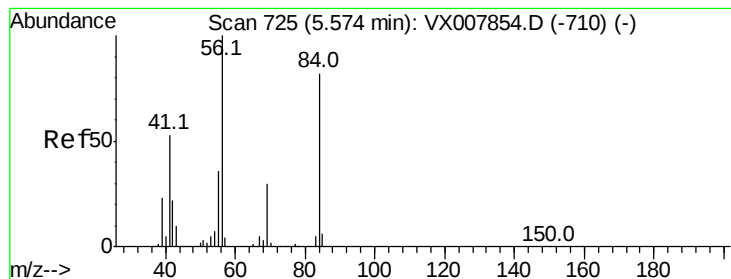
MMDadoda
3/14/2019 10:17:45 AM



#30
Chloroform
Concen: 48.287 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.8	77.6





#31

Cyclohexane

Concen: 48.386 ug/l

RT: 5.57 min Scan# 725

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 198837

Ion Ratio Lower Upper

56 100

69 30.3 24.0 36.0

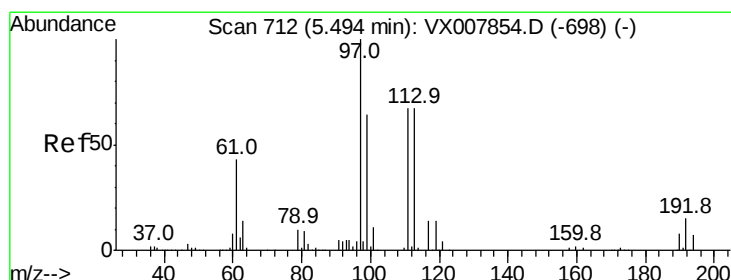
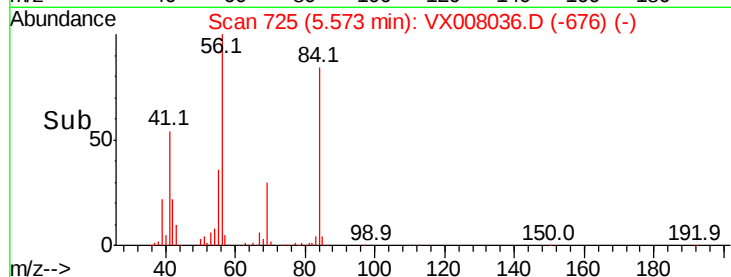
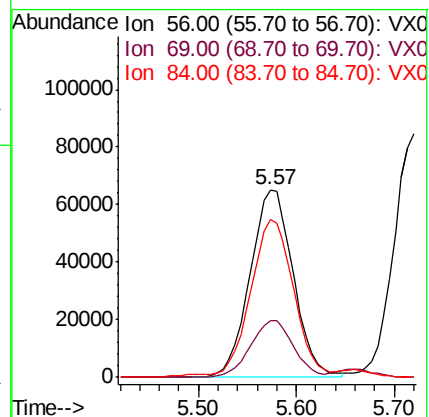
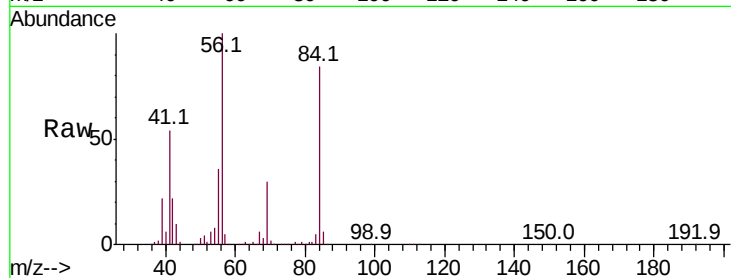
84 82.7 65.3 97.9

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 49.911 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

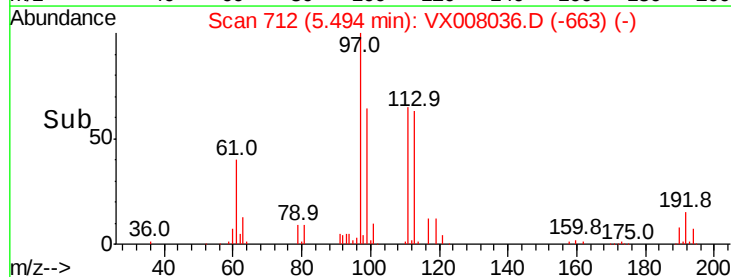
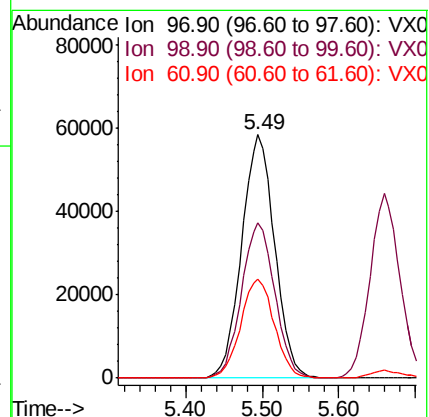
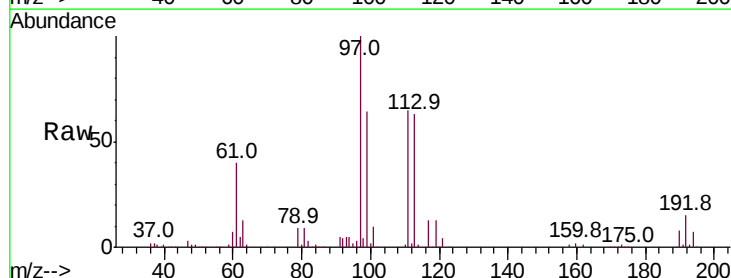
Tgt Ion: 97 Resp: 175151

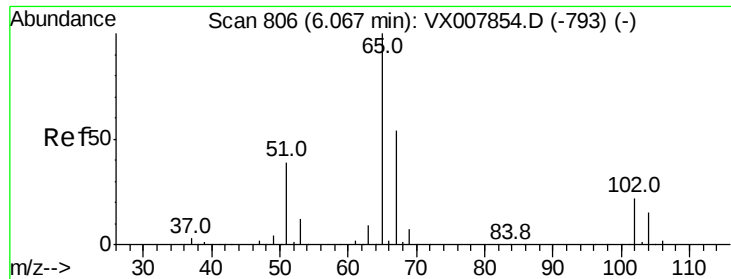
Ion Ratio Lower Upper

97 100

99 64.4 52.2 78.2

61 41.7 34.9 52.3





#33

1,2-Dichloroethane-d4

Concen: 46.404 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX008036.D

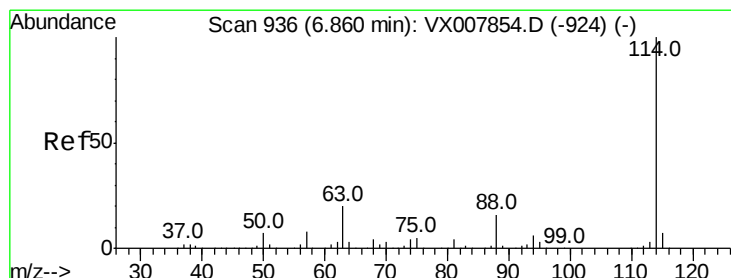
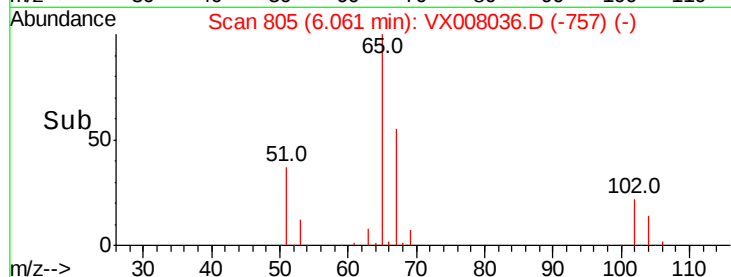
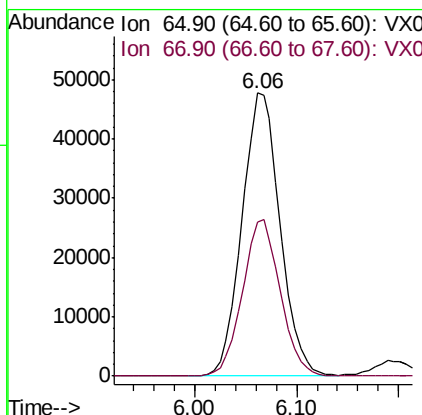
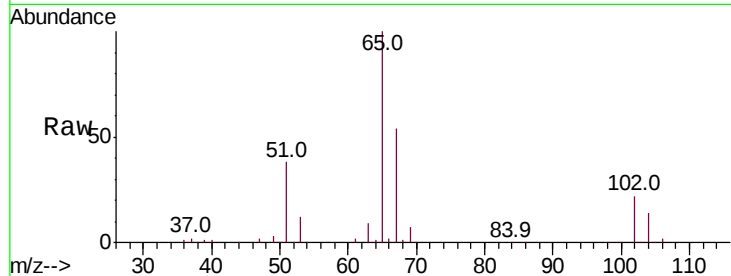
Acq: 13 Mar 2019 09:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.9	0.0	110.0

Manual Integrations
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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

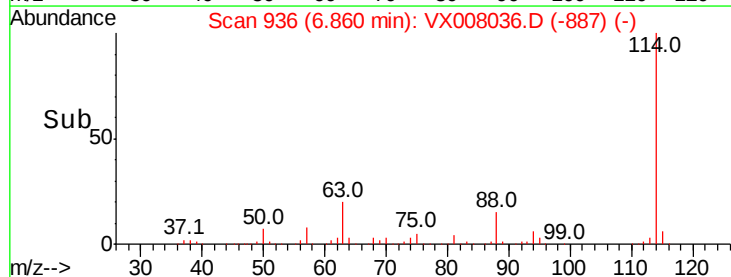
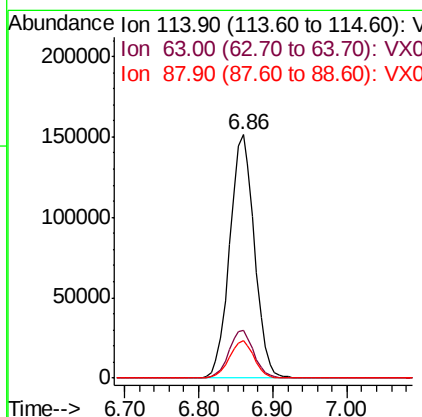
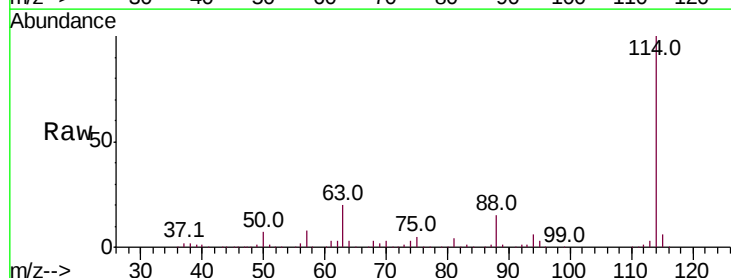
RT: 6.86 min Scan# 936

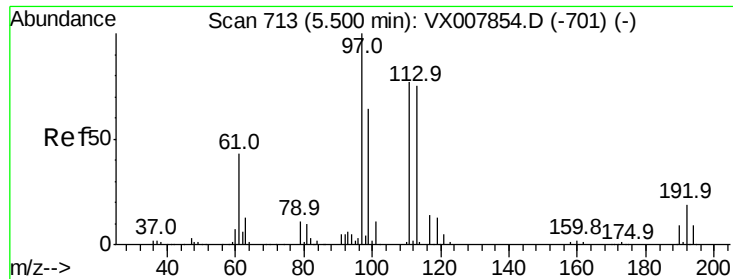
Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	39.8
88	15.3	0.0	31.4





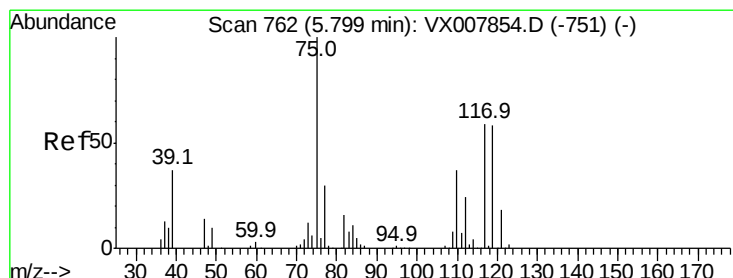
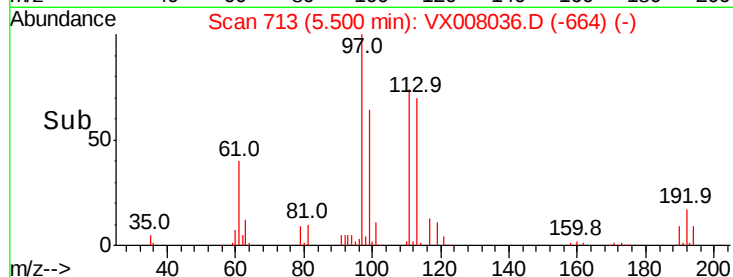
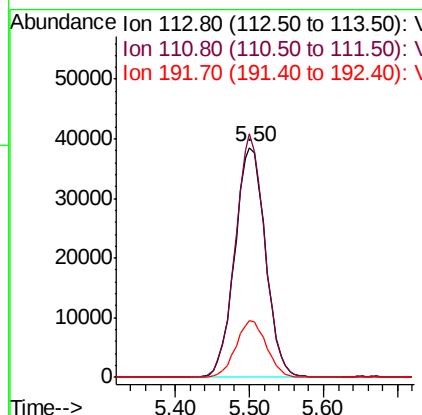
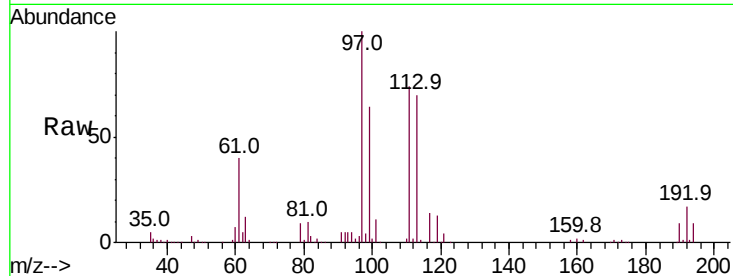
#35
 Dibromofluoromethane
 Concen: 49.581 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008036.D
 Acq: 13 Mar 2019 09:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	111610		
111	101.7	81.4	122.0	
192	24.6	19.4	29.0	

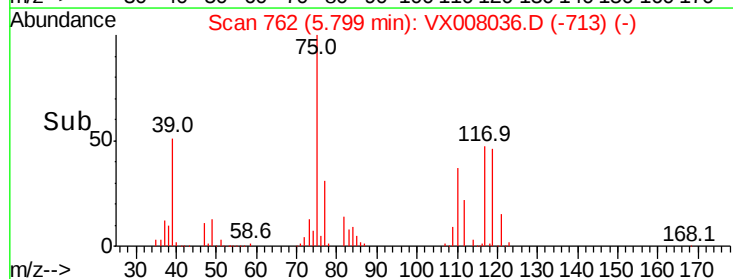
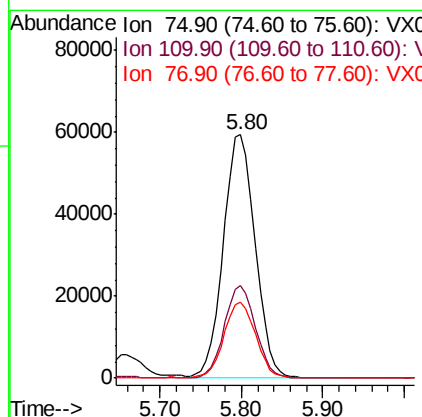
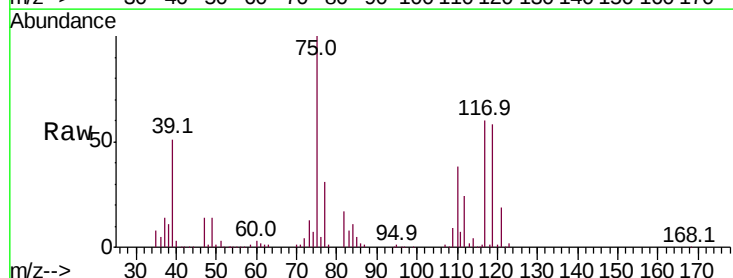
Manual Integrations
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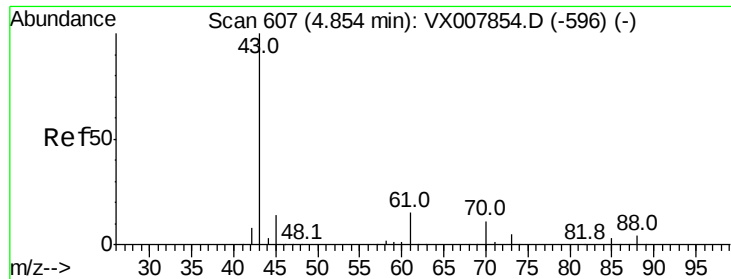
MMDadoda
 3/14/2019 10:17:45 AM



#36
 1,1-Dichloropropene
 Concen: 50.380 ug/l
 RT: 5.80 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: VX008036.D
 Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	160534		
110	37.2	18.4	55.0	
77	31.2	25.0	37.4	





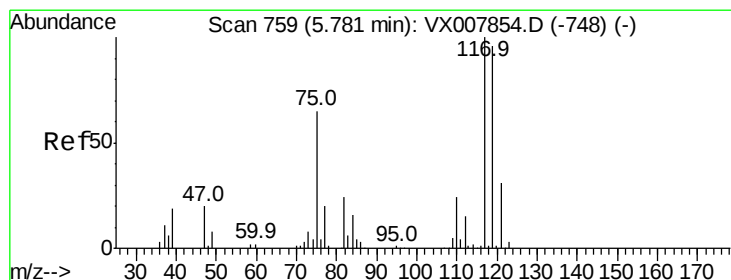
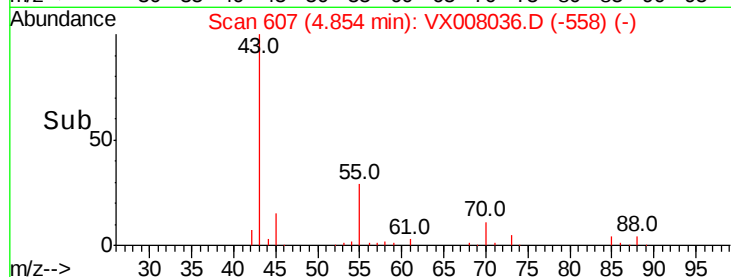
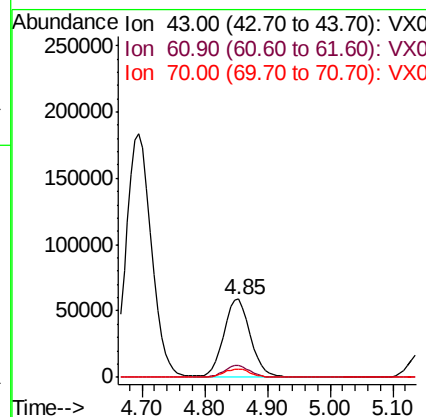
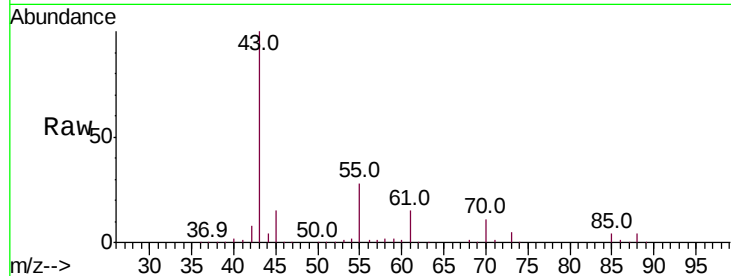
#37
Ethyl Acetate
Concen: 45.769 ug/l
RT: 4.85 min Scan# 607
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.3	16.9
70	10.7	8.5	12.7

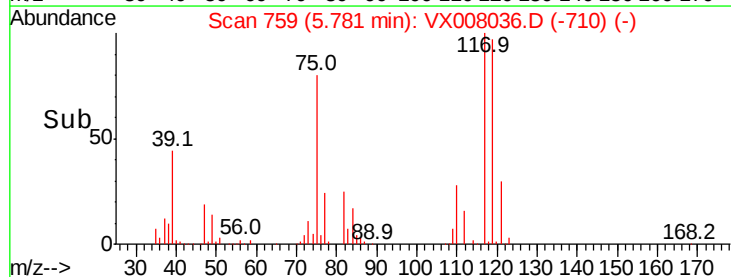
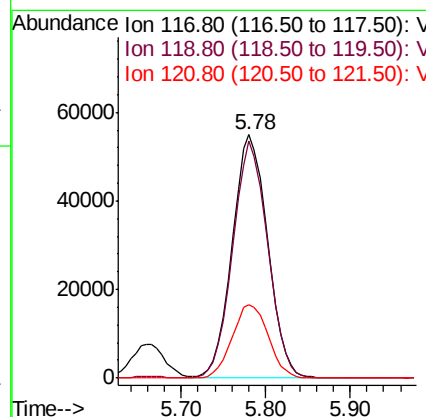
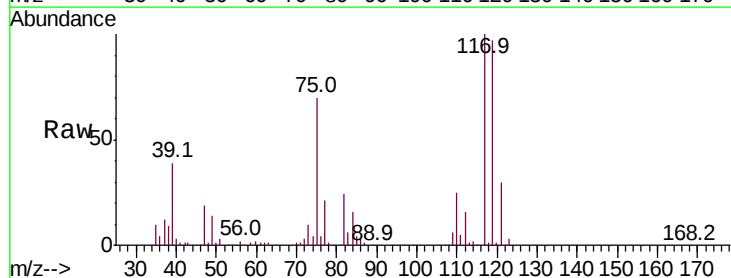
Manual Integrations
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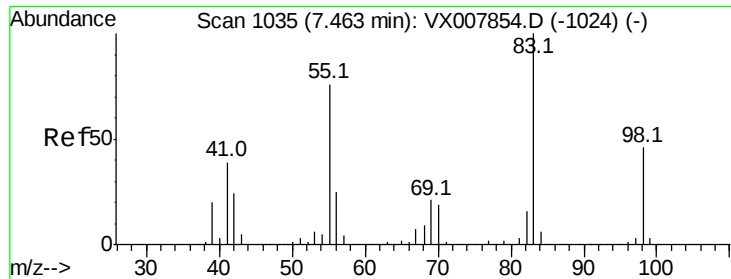
MMDadoda
3/14/2019 10:17:45 AM



#38
Carbon Tetrachloride
Concen: 51.889 ug/l
RT: 5.78 min Scan# 759
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.3	76.2	114.2
121	30.3	24.6	36.8





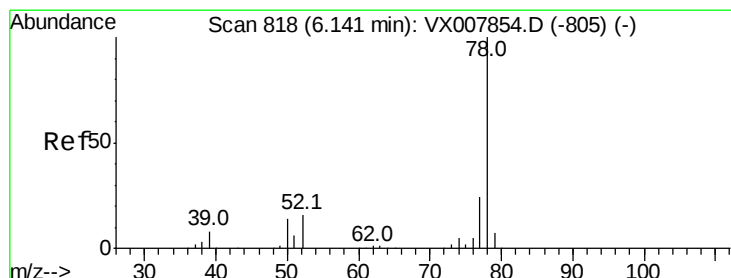
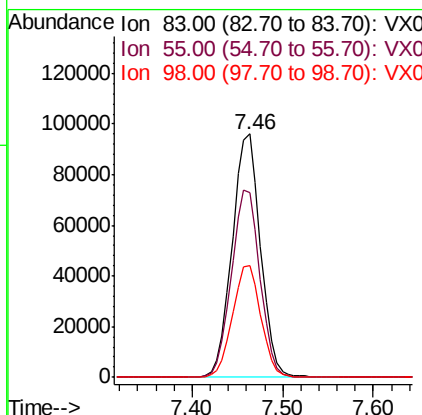
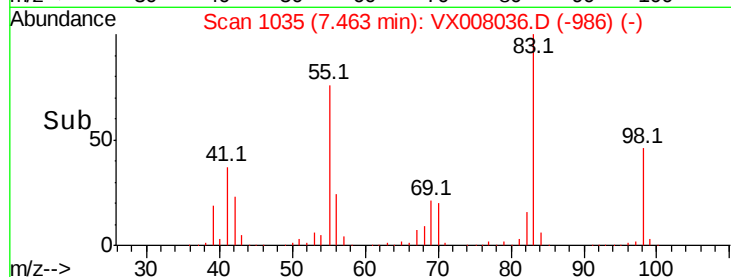
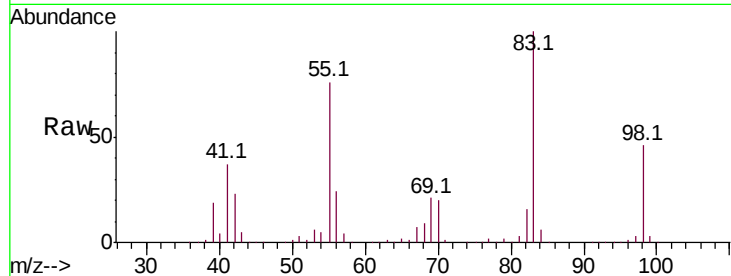
#39
Methvlcvclohexane
Concen: 53.955 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	208327		
55	75.7		60.4	90.6
98	45.9		36.5	54.7

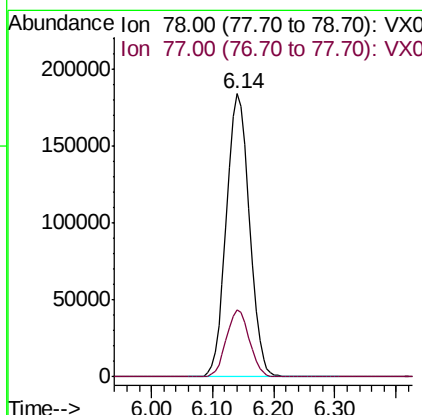
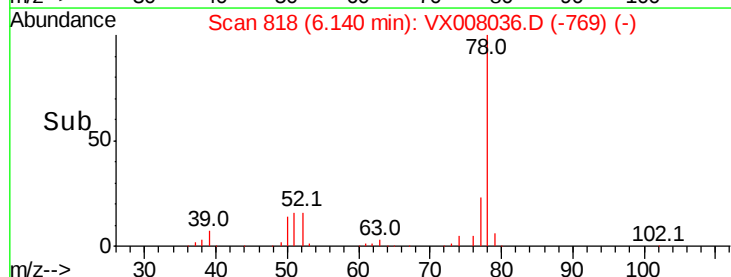
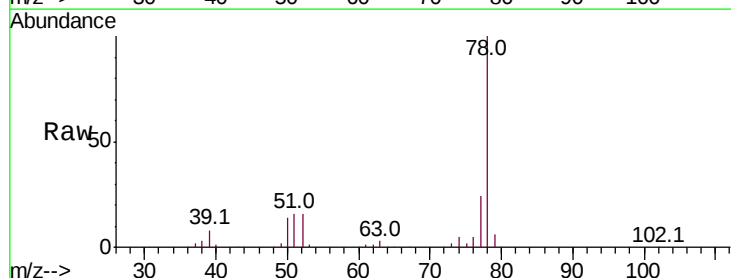
Manual Integrations
APPROVED

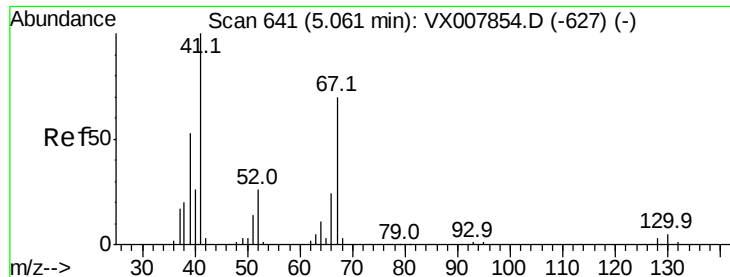
MMDadoda
3/14/2019 10:17:45 AM



#40
Benzene
Concen: 50.474 ug/l
RT: 6.14 min Scan# 818
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	478818		
77	23.6		19.0	28.4





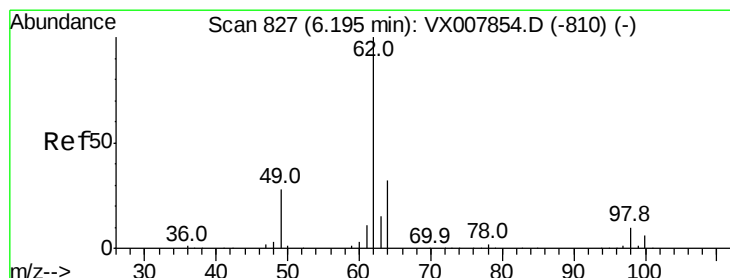
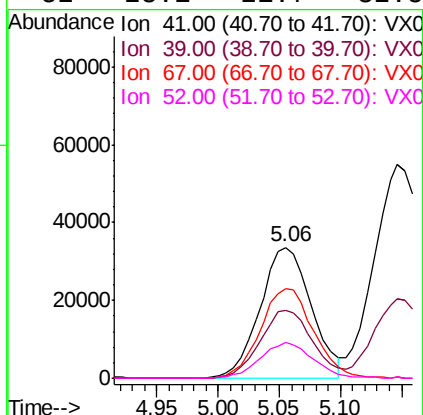
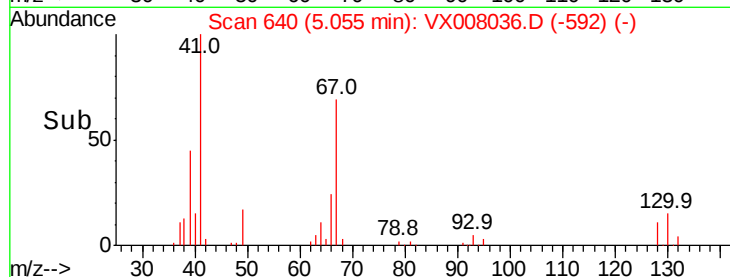
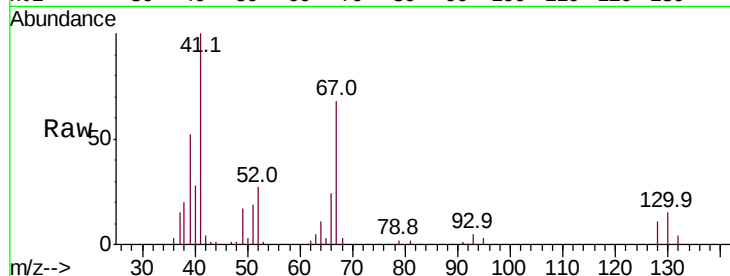
#41
Methacrylonitrile
Concen: 47.695 ug/l
RT: 5.06 min Scan# 640
Delta R.T. -0.01 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.2	41.6	62.4	
67	70.9	55.8	83.6	
52	28.1	21.7	32.5	

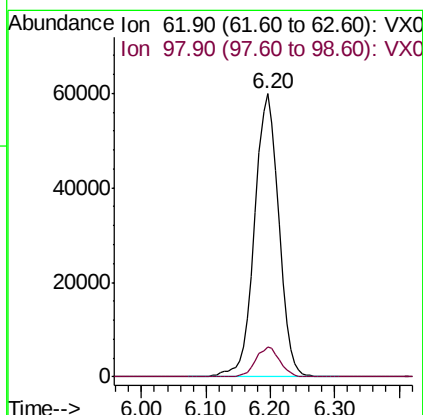
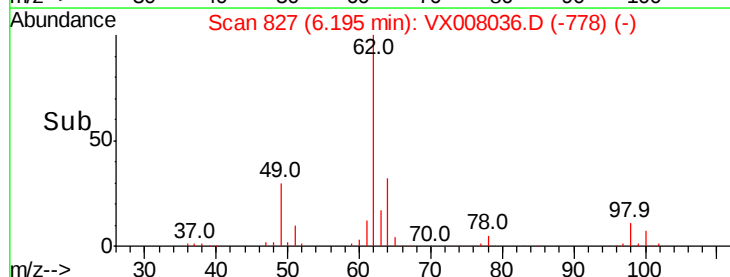
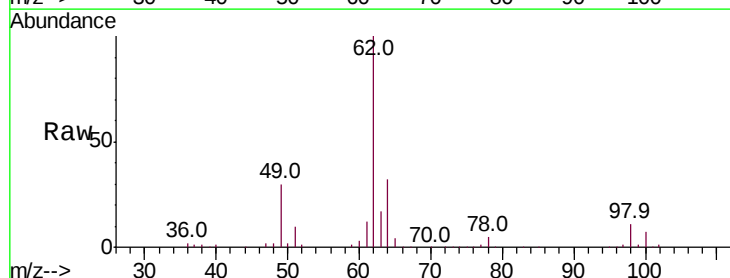
Manual Integrations
APPROVED

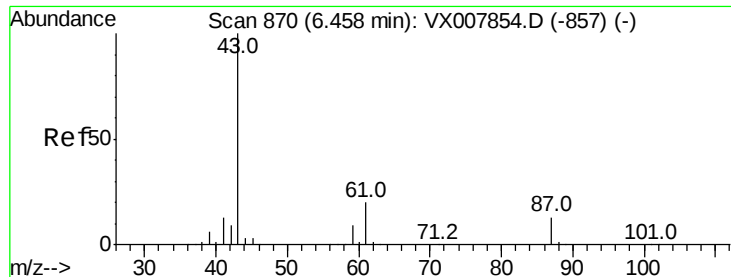
MMDadoda
3/14/2019 10:17:45 AM



#42
1,2-Dichloroethane
Concen: 49.901 ug/l
RT: 6.20 min Scan# 827
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.4	0.0	20.4	





#43

Isopropyl Acetate

Concen: 48.774 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

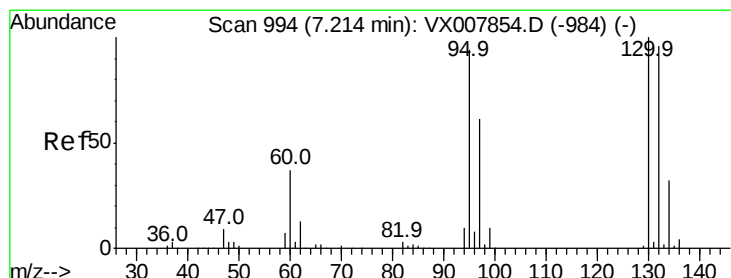
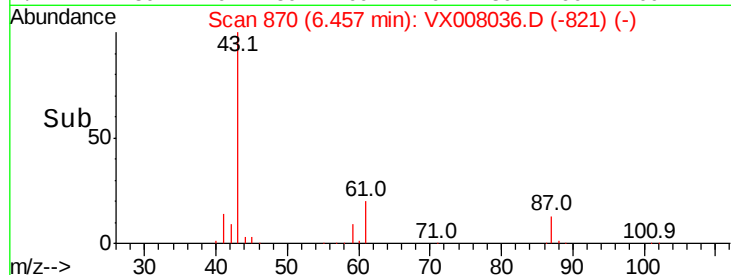
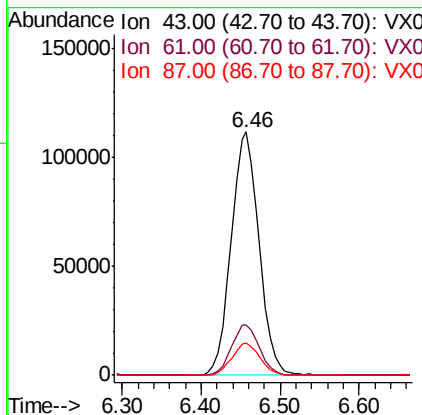
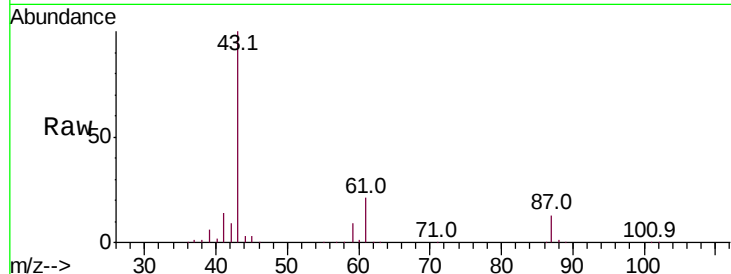
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	272957
Ion	Ratio	Lower	Upper
43	100		
61	21.1	16.3	24.5
87	13.4	10.5	15.7

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#44

Trichloroethene

Concen: 52.072 ug/l

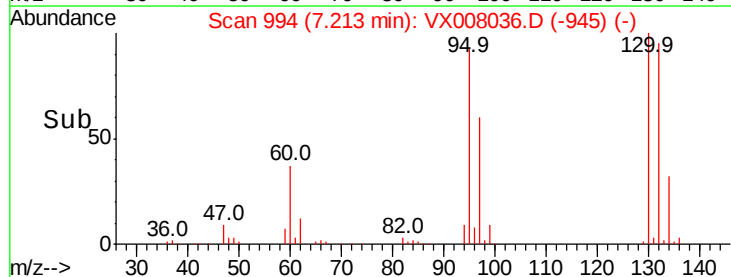
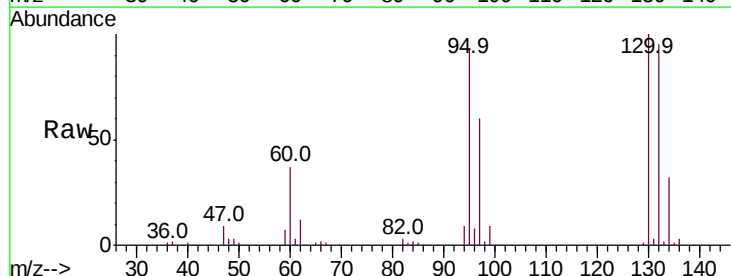
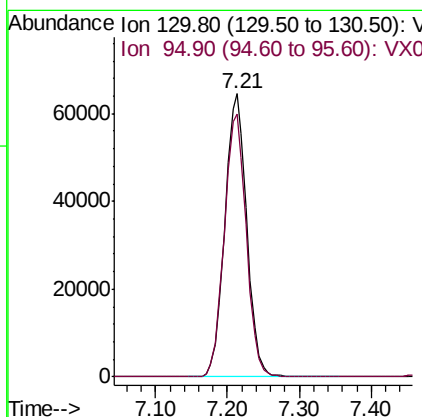
RT: 7.21 min Scan# 994

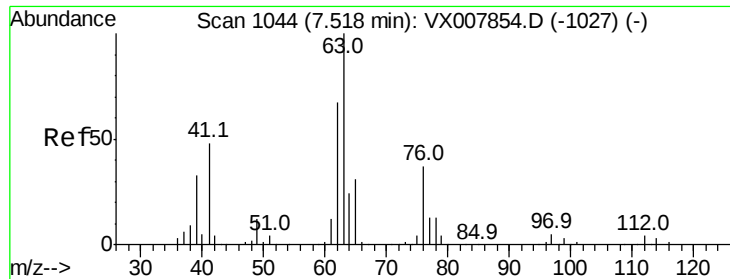
Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Tgt Ion:	130	Resp:	136130
Ion	Ratio	Lower	Upper
130	100		
95	93.1	0.0	188.0





#45

1,2-Dichloropropane

Concen: 50.212 ug/l

RT: 7.51 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 125807

Ion Ratio Lower Upper

63 100

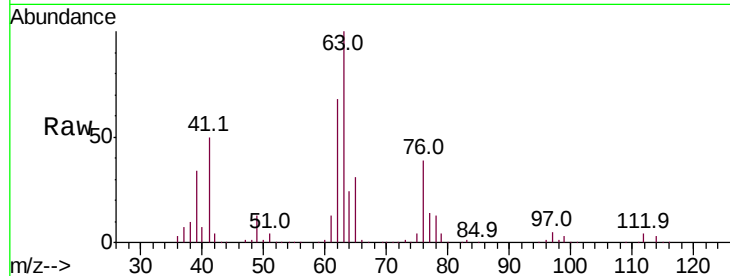
65 30.8 24.7 37.1

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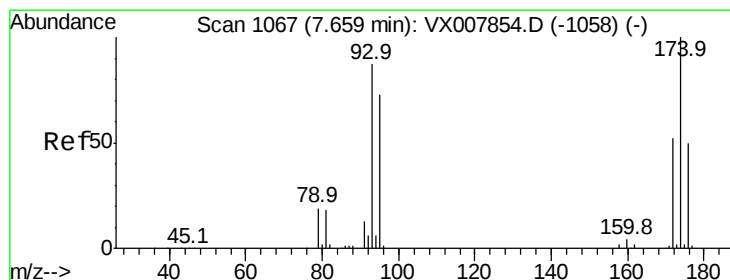
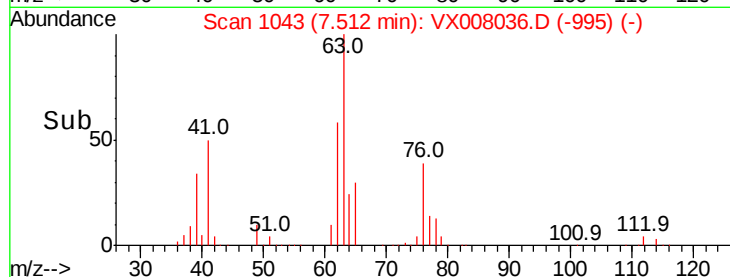
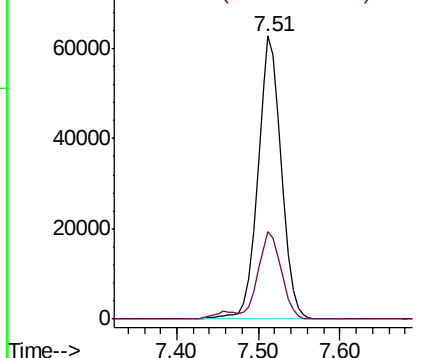
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Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0



#46

Dibromomethane

Concen: 50.056 ug/l

RT: 7.66 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

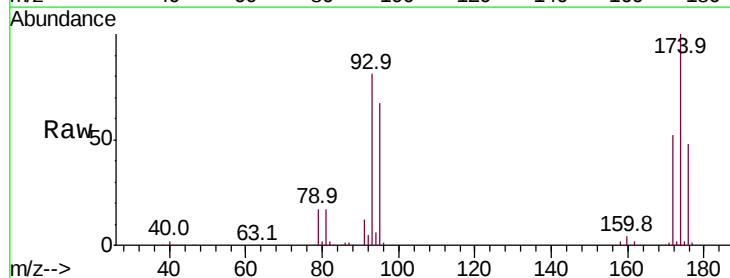
Tgt Ion: 93 Resp: 79370

Ion Ratio Lower Upper

93 100

95 83.9 66.8 100.2

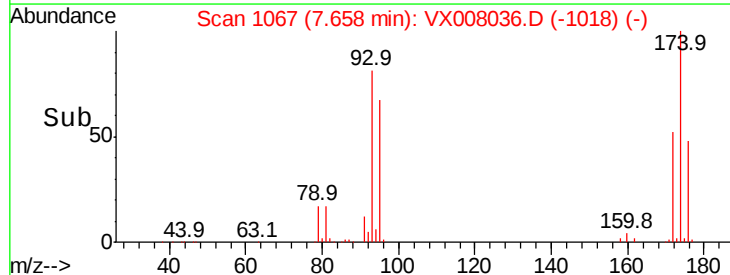
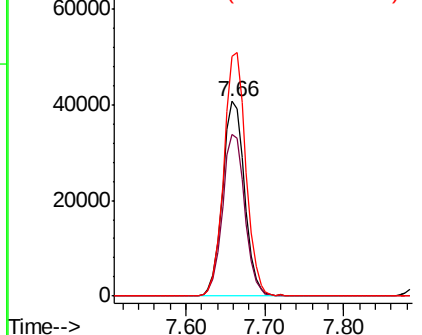
174 124.6 97.3 145.9

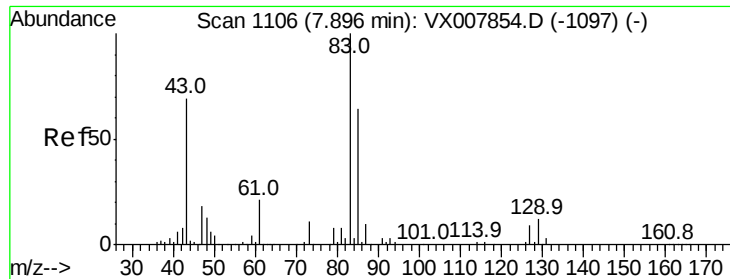


Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 50.953 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

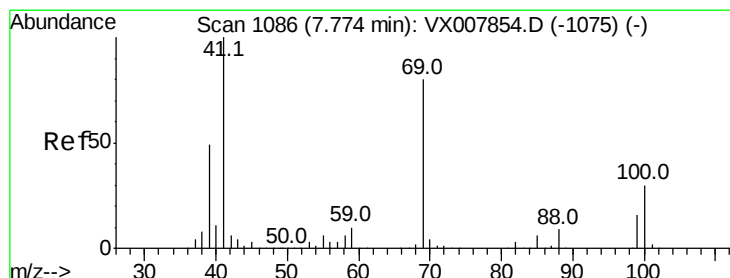
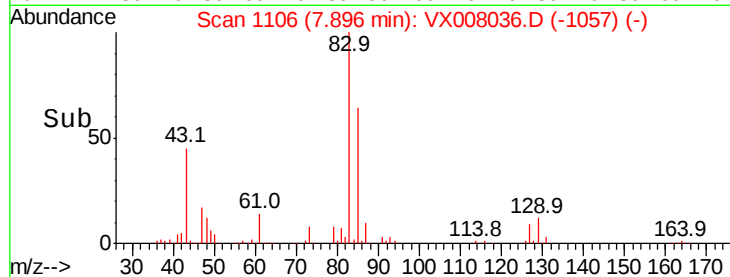
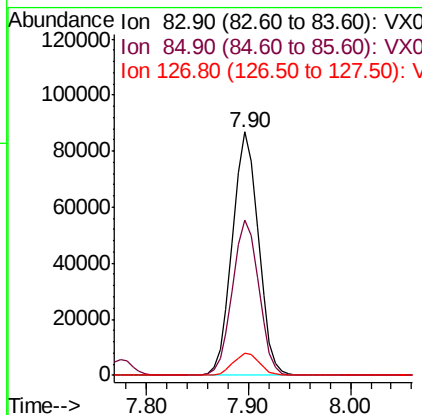
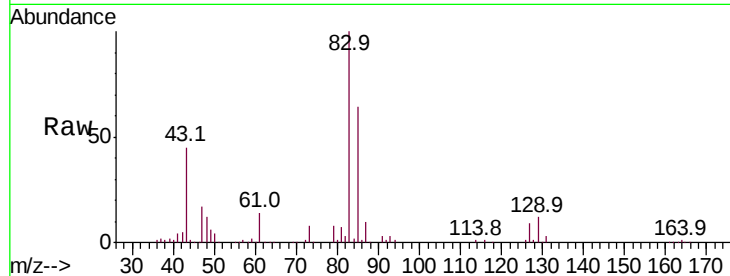
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	153179
Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.9	76.3
127	9.1	7.4	11.0

Manual Integrations
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#48

Methyl methacrylate

Concen: 48.969 ug/l

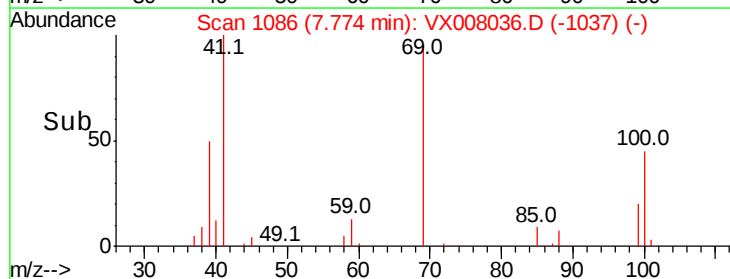
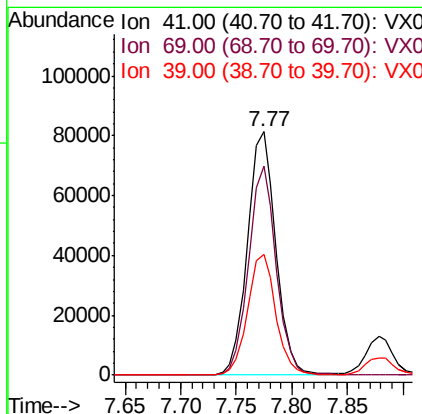
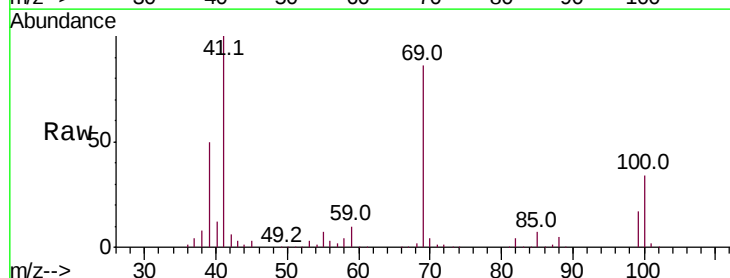
RT: 7.77 min Scan# 1086

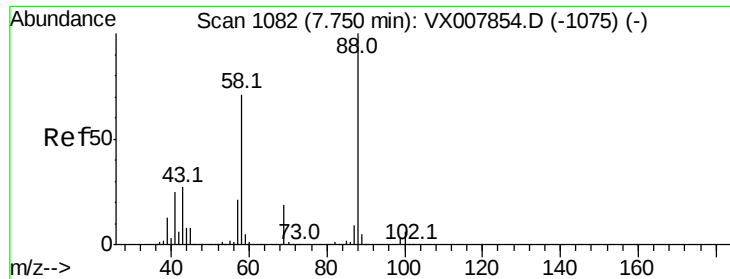
Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Tgt Ion:	41	Resp:	144082
Ion	Ratio	Lower	Upper
41	100		
69	84.0	65.2	97.8
39	49.6	39.4	59.2





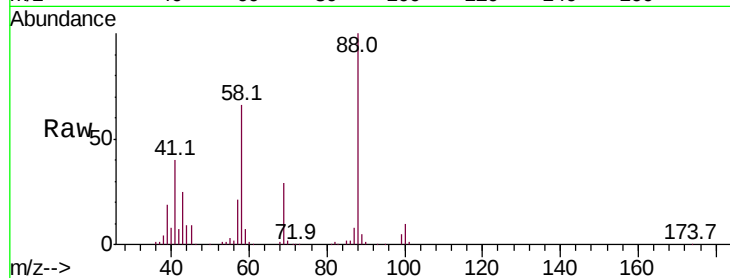
#49
 1,4-Dioxane
 Concen: 906.774 ug/l
 RT: 7.75 min Scan# 1082
 Delta R.T. -0.00 min
 Lab File: VX008036.D
 Acq: 13 Mar 2019 09:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

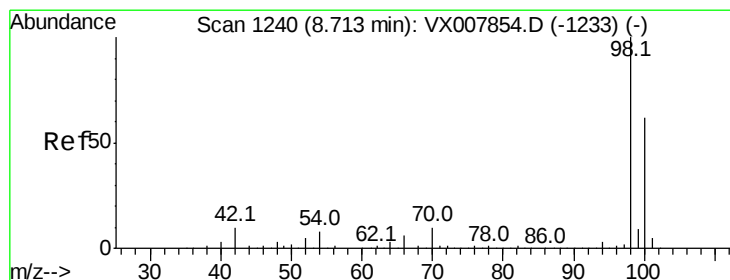
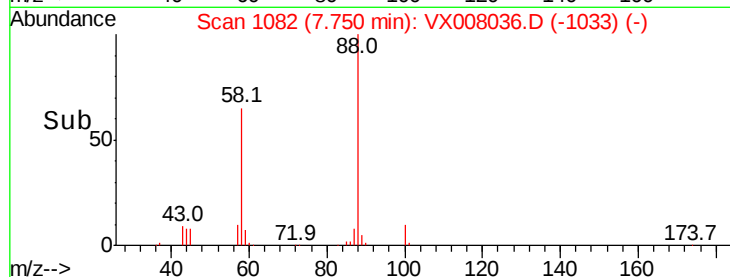
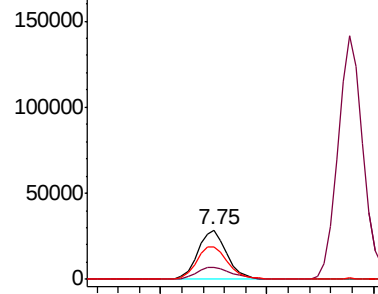
Tot Ion	Ratio	Lower	Upper
88	100		
43	31.2	25.1	37.7
58	71.0	57.8	86.6

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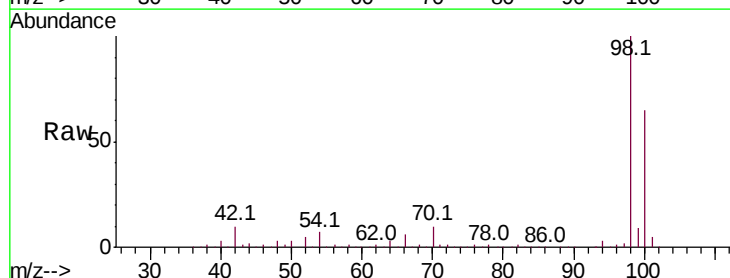


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

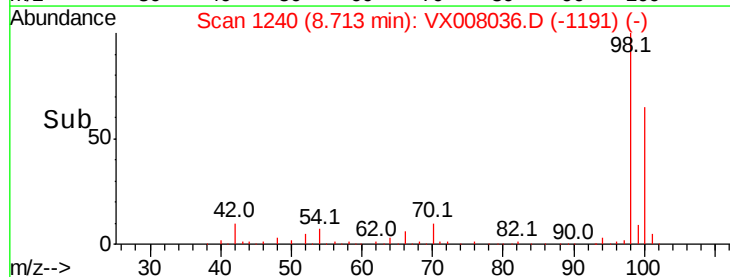
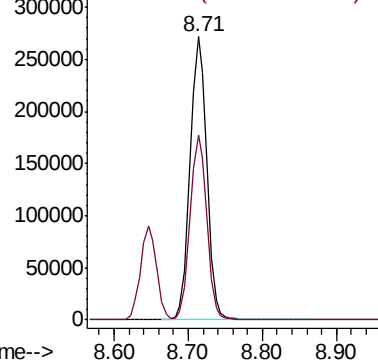


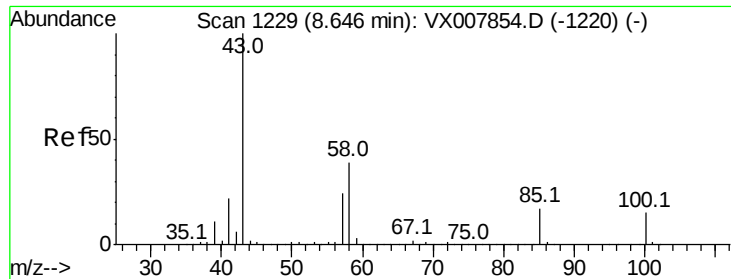
#50
 Toluene-d8
 Concen: 50.551 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX008036.D
 Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.6	51.7	77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 243.616 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 876778

Ion Ratio Lower Upper

43 100

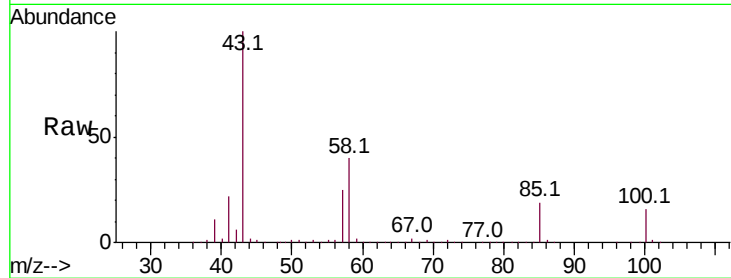
58 39.7 31.3 46.9

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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

600000

500000

400000

300000

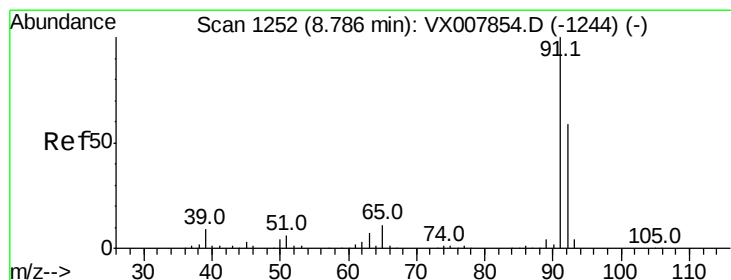
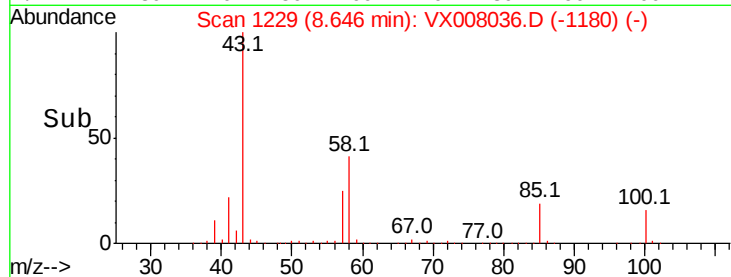
200000

100000

0

8.60 8.65 8.70 8.80

Time-->



#52

Toluene

Concen: 52.011 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX008036.D

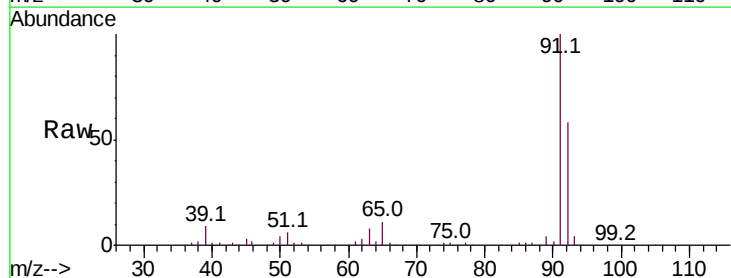
Acq: 13 Mar 2019 09:09

Tgt Ion: 92 Resp: 301230

Ion Ratio Lower Upper

92 100

91 172.1 137.4 206.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

300000

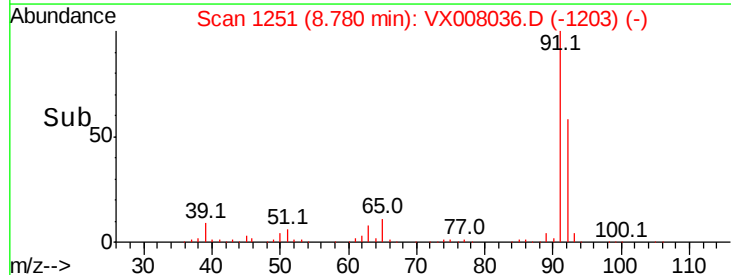
200000

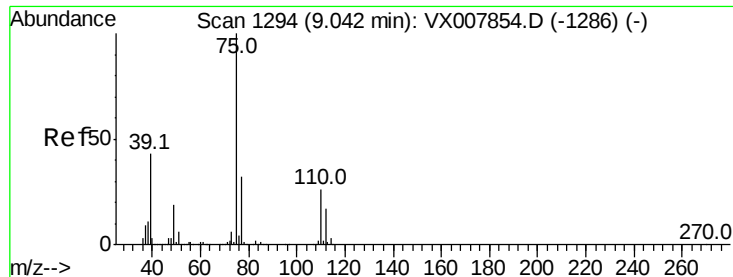
100000

0

8.70 8.78 8.90 9.00

Time-->





#53

t-1,3-Dichloropropene

Concen: 55.774 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. -0.00 min

Lab File: VX008036.D

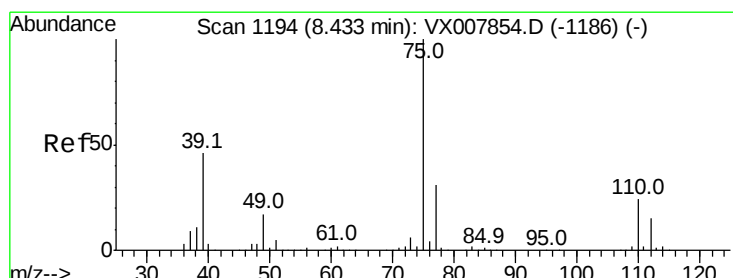
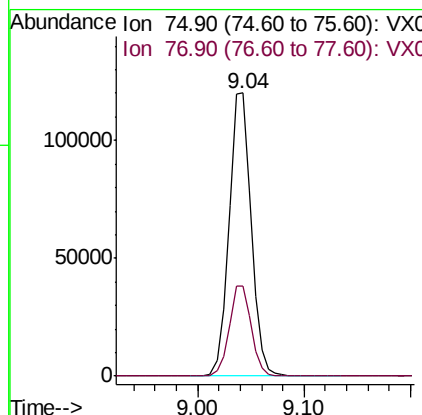
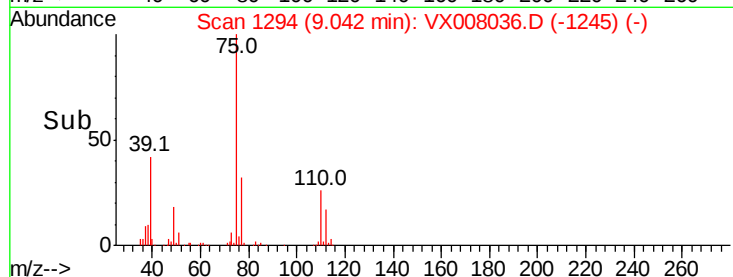
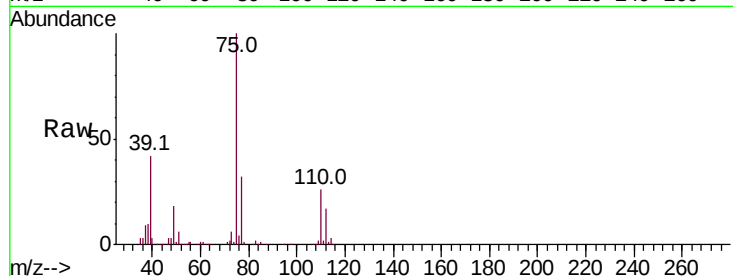
Acq: 13 Mar 2019 09:09

Instrument :
MSVOA_X
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.4	38.0

Manual Integrations
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#54

cis-1,3-Dichloropropene

Concen: 54.435 ug/l

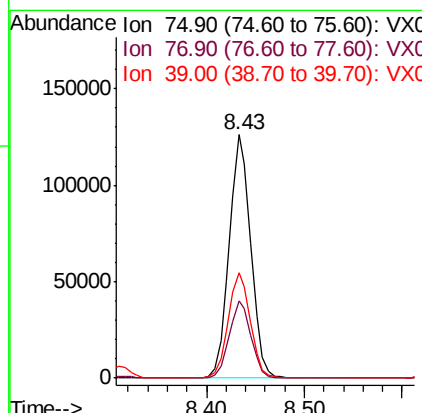
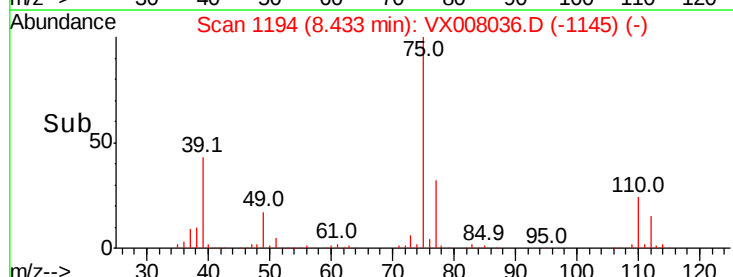
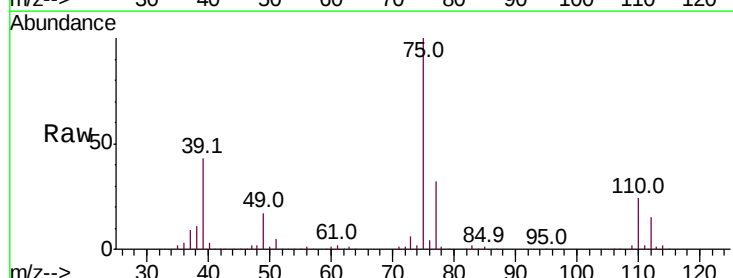
RT: 8.43 min Scan# 1194

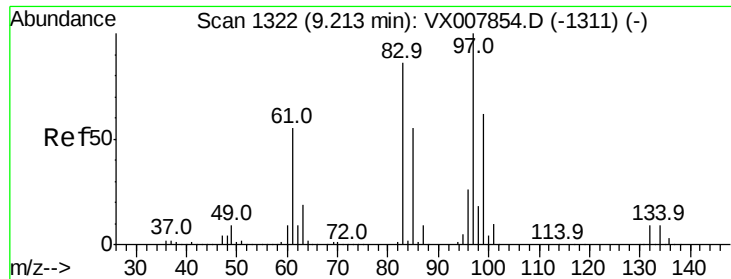
Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.0	37.6
39	43.1	36.6	54.8





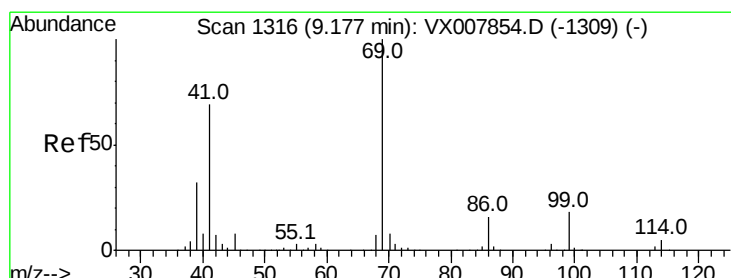
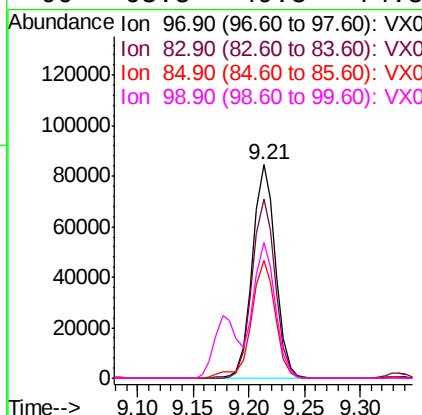
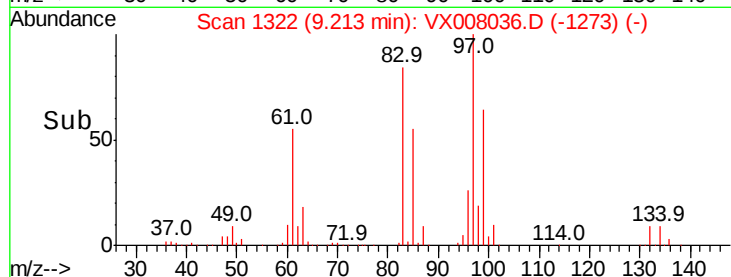
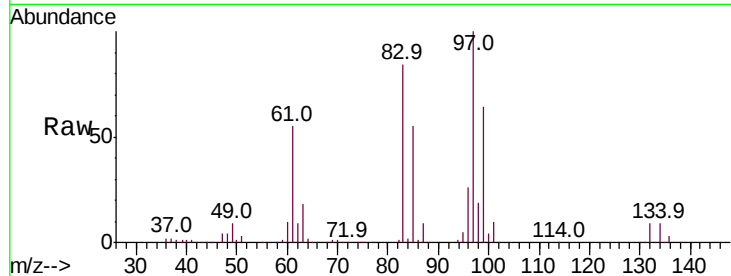
#55
 1,1,2-Trichloroethane
 Concen: 52.200 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VX008036.D
 Acq: 13 Mar 2019 09:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		122383		
83	84.0	69.1	103.7		
85	55.1	44.3	66.5		
99	63.8	49.8	74.8		

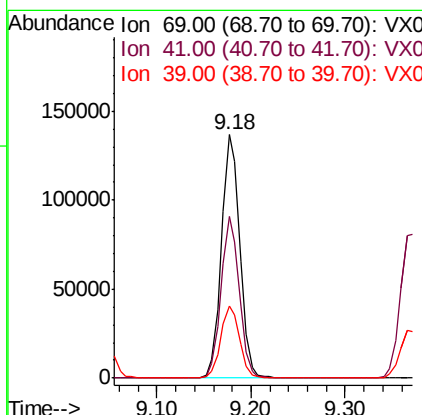
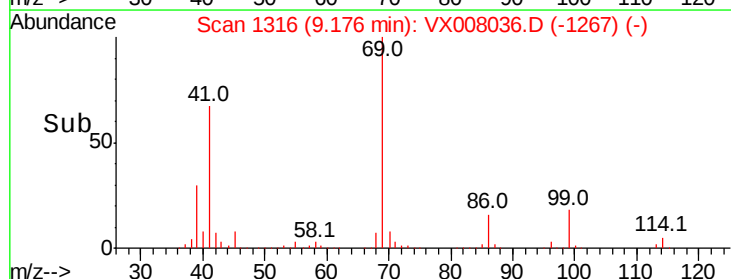
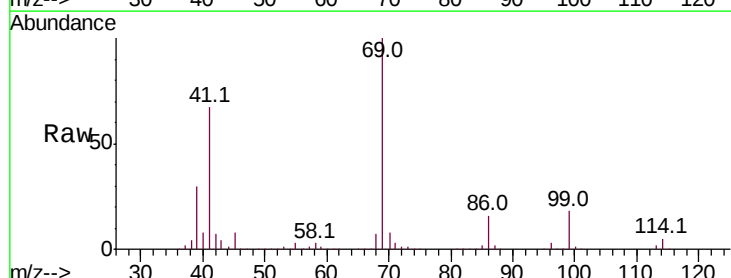
Manual Integrations
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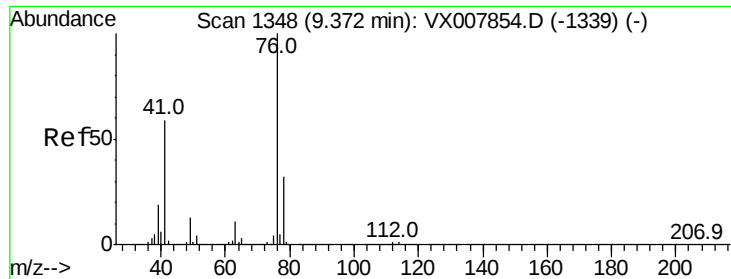
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 3/14/2019 10:17:45 AM



#56
 Ethyl methacrylate
 Concen: 52.646 ug/l
 RT: 9.18 min Scan# 1316
 Delta R.T. -0.00 min
 Lab File: VX008036.D
 Acq: 13 Mar 2019 09:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		185324		
41	65.6	54.2	81.4		
39	30.2	25.0	37.4		





#57

1,3-Dichloropropane

Concen: 51.459 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 202575

Ion Ratio Lower Upper

76 100

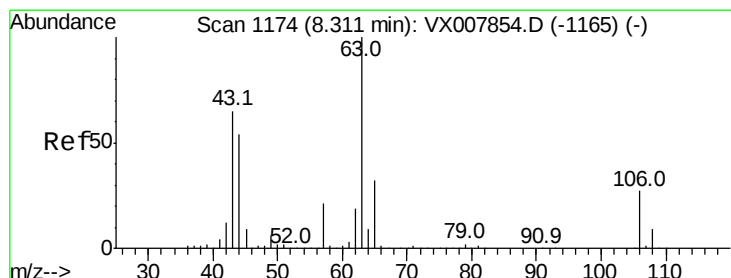
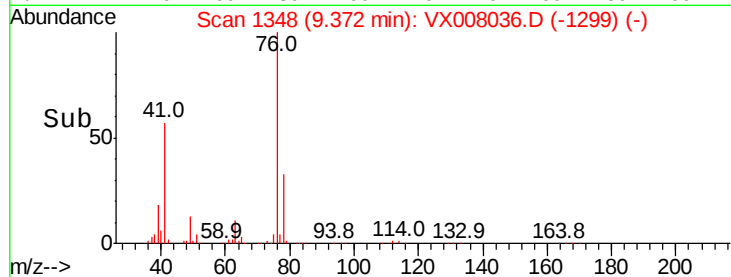
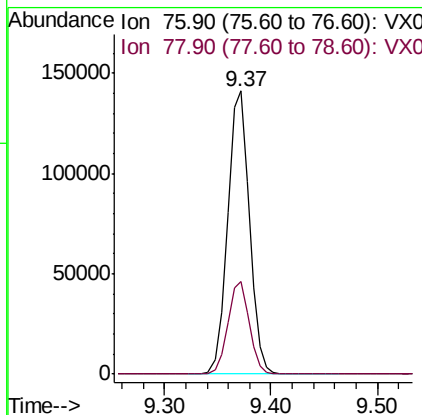
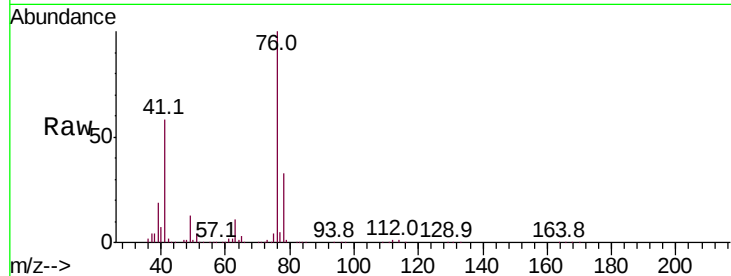
78 32.3 25.5 38.3

Manual Integrations

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3/14/2019 10:17:45 AM



#58

2-Chloroethyl Vinyl ether

Concen: 290.950 ug/l

RT: 8.31 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VX008036.D

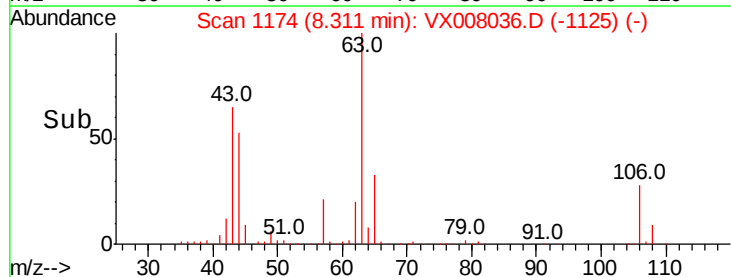
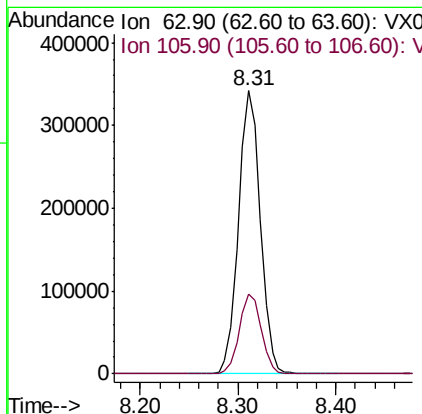
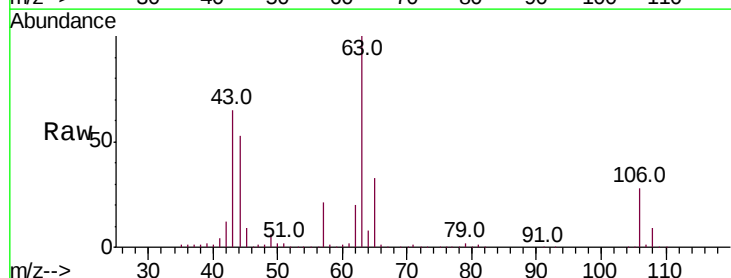
Acq: 13 Mar 2019 09:09

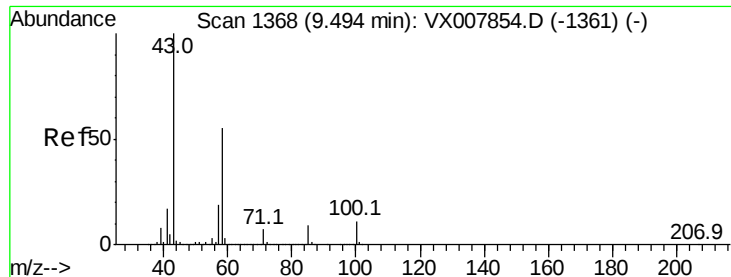
Tgt Ion: 63 Resp: 529795

Ion Ratio Lower Upper

63 100

106 28.6 22.2 33.2





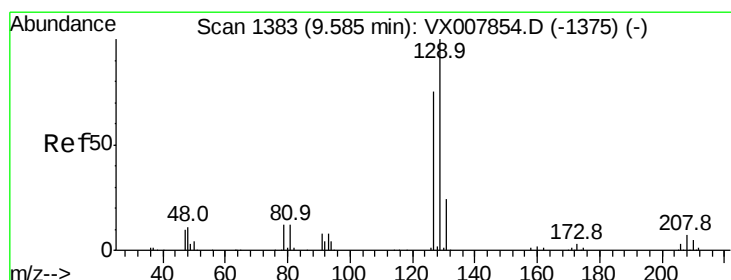
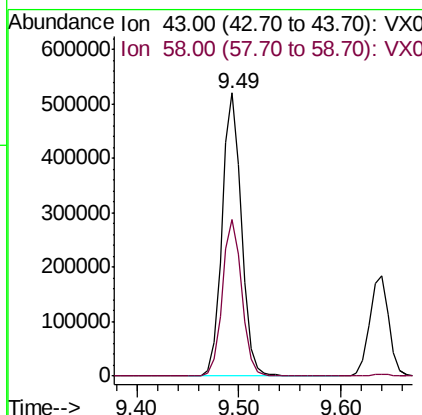
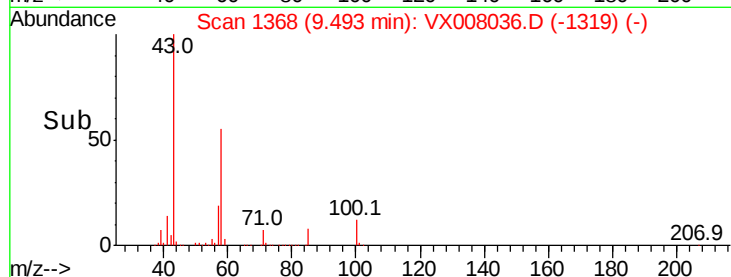
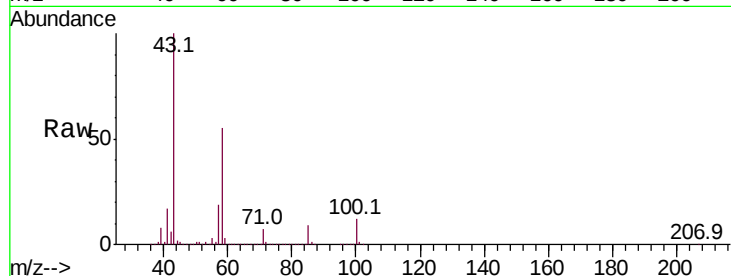
#59
2-Hexanone
Concen: 246.350 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 688350
Ion Ratio Lower Upper
43 100
58 55.6 27.6 82.7

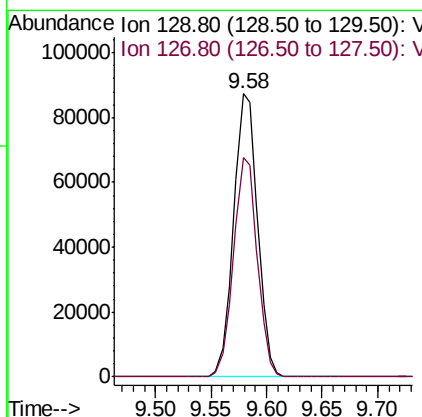
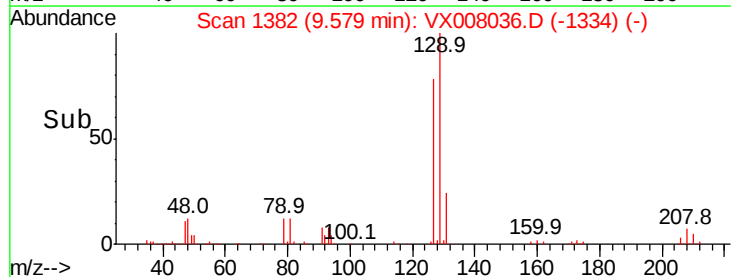
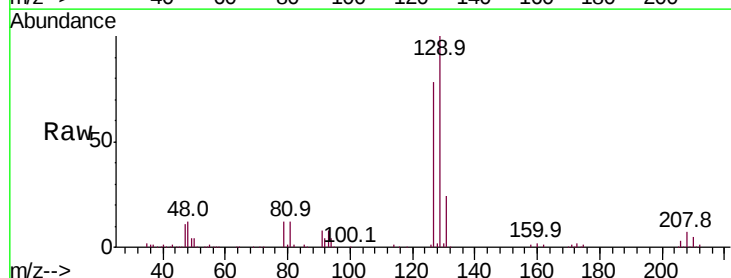
Manual Integrations
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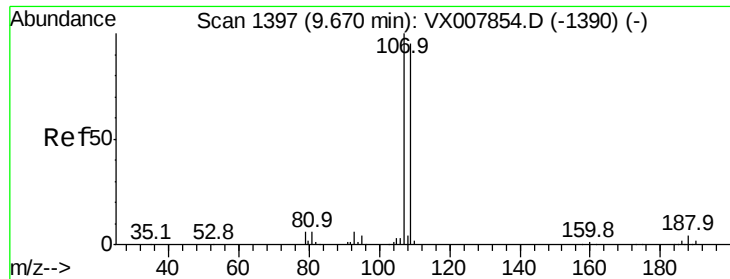
MMDadoda
3/14/2019 10:17:45 AM



#60
Dibromochloromethane
Concen: 52.995 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. -0.01 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Tgt Ion: 129 Resp: 129869
Ion Ratio Lower Upper
129 100
127 77.0 38.3 114.8





#61

1,2-Dibromoethane

Concen: 51.652 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 128572

Ion Ratio Lower Upper

107 100

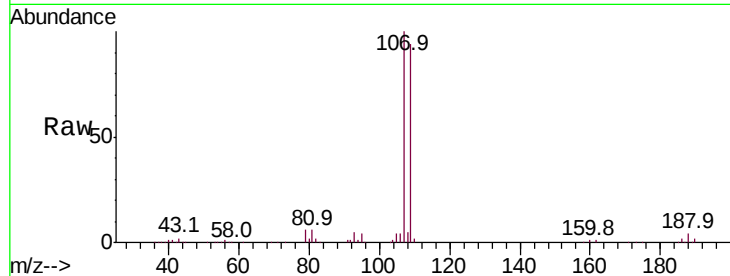
109 94.3 75.8 113.8

Manual Integrations

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MMDadoda

3/14/2019 10:17:45 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.67

100000

80000

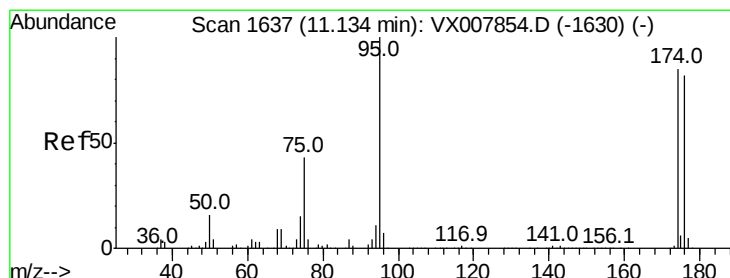
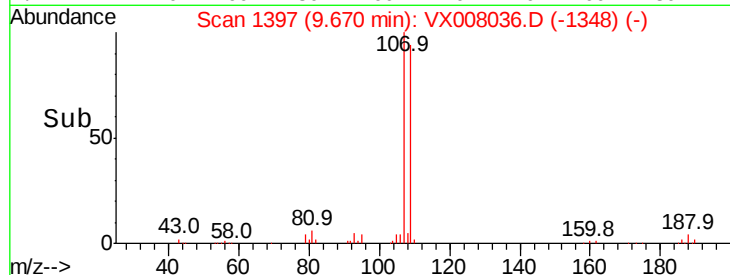
60000

40000

20000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 52.588 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

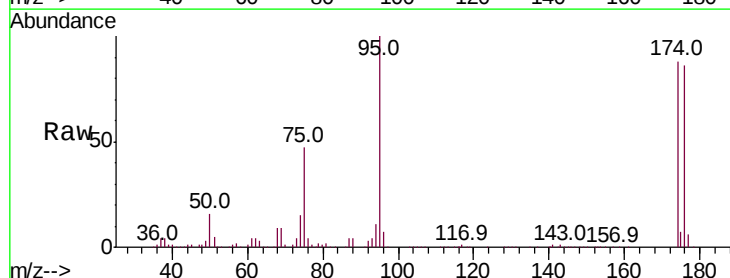
Tgt Ion: 95 Resp: 152425

Ion Ratio Lower Upper

95 100

174 93.4 0.0 182.8

176 90.8 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

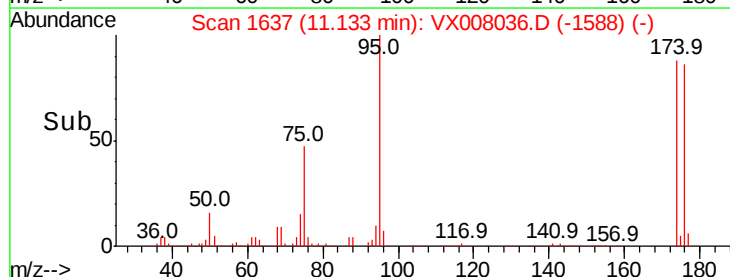
150000

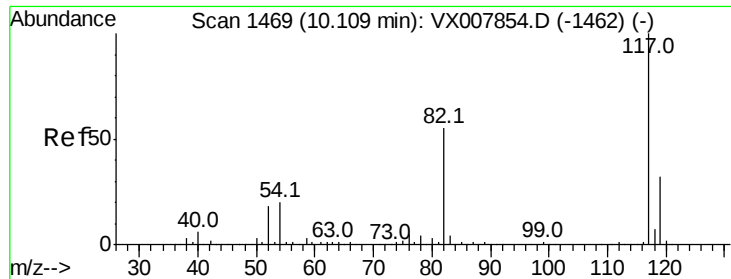
100000

50000

0

Time-->





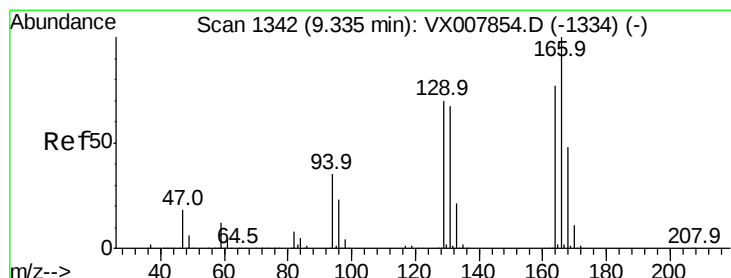
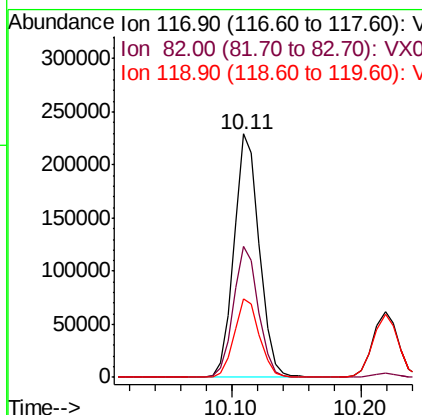
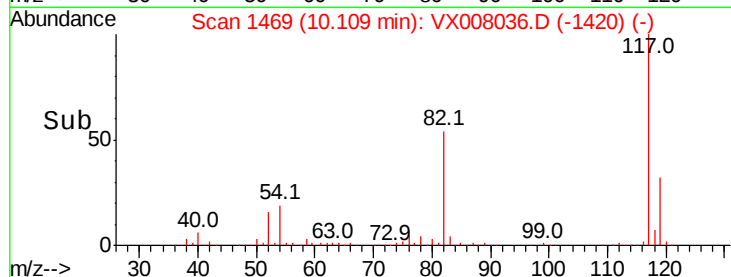
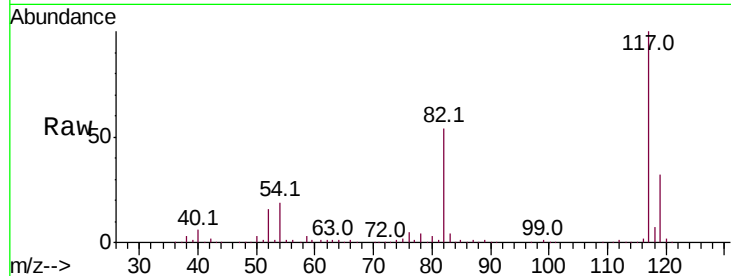
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.9	44.3	66.5
119	32.4	25.3	37.9

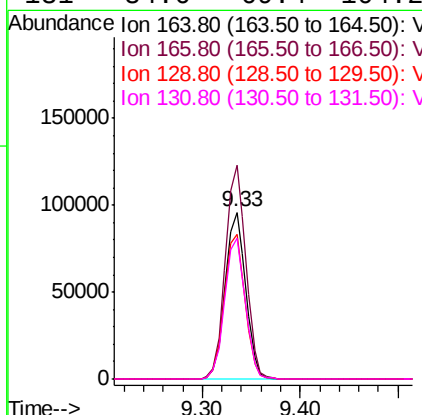
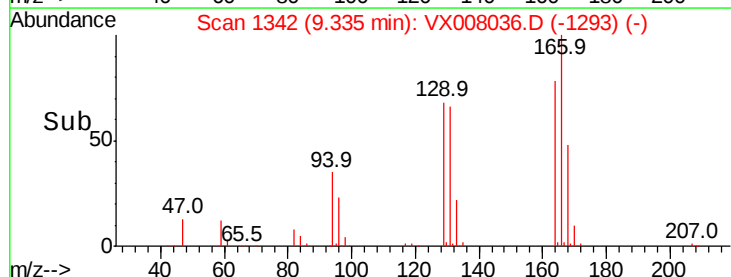
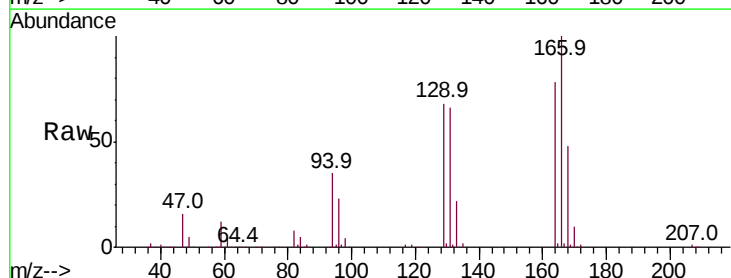
Manual Integrations
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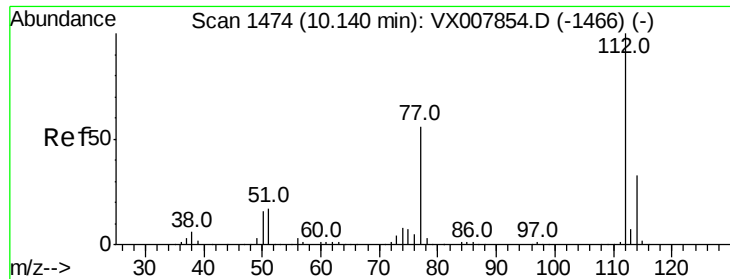
MMDadoda
3/14/2019 10:17:45 AM



#64
Tetrachloroethene
Concen: 53.796 ug/l
RT: 9.33 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.3	103.4	155.0
129	86.9	72.2	108.4
131	84.6	69.4	104.2





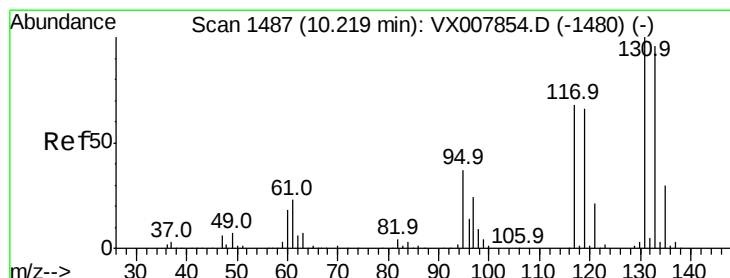
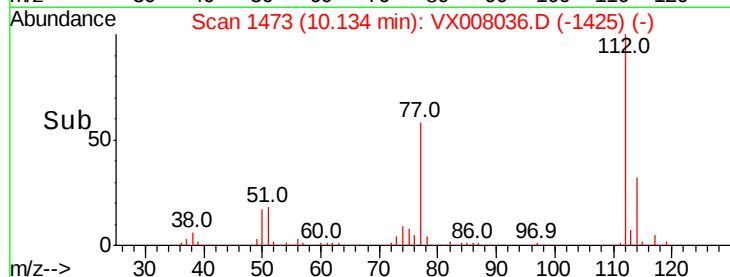
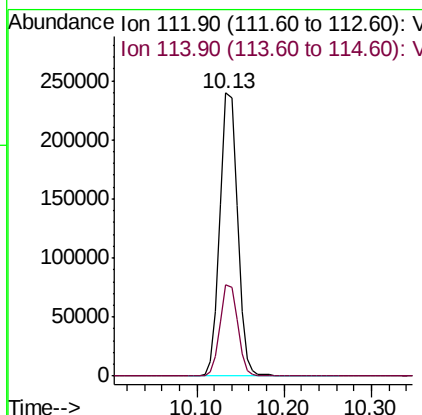
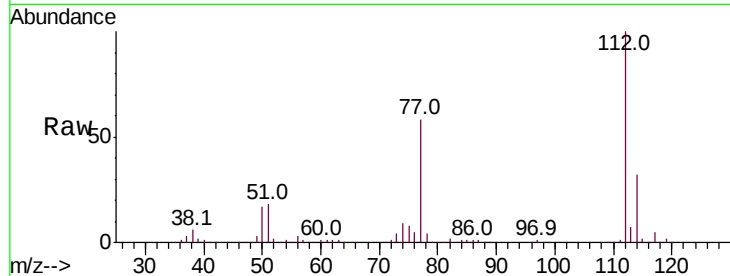
#65
Chlorobenzene
Concen: 51.043 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 334849
Ion Ratio Lower Upper
112 100
114 32.1 26.0 39.0

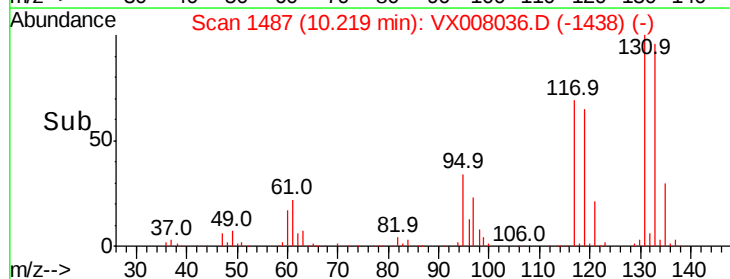
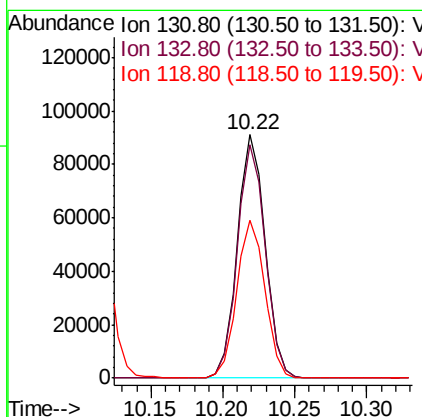
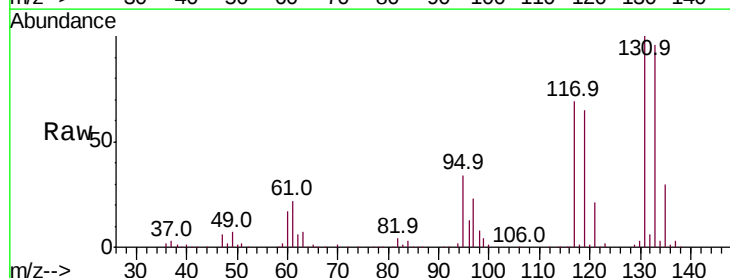
Manual Integrations
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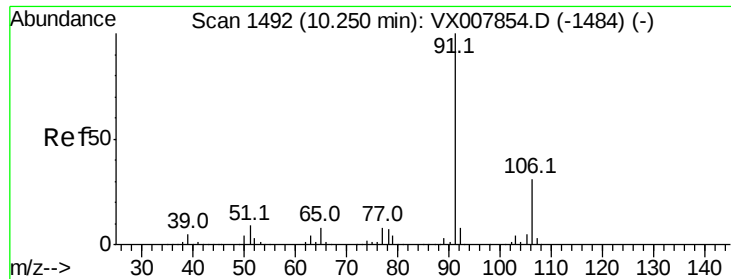
MMDadoda
3/14/2019 10:17:45 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 52.096 ug/l
RT: 10.22 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Tgt Ion:131 Resp: 122486
Ion Ratio Lower Upper
131 100
133 96.1 47.8 143.3
119 65.9 32.5 97.5





#67

Ethyl Benzene

Concen: 52.695 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 569037

Ion Ratio Lower Upper

91 100

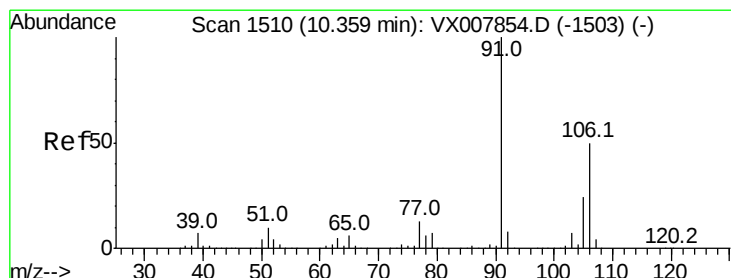
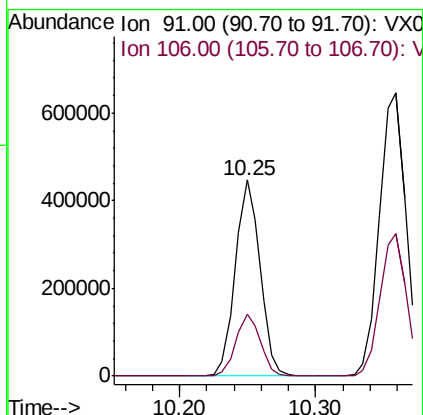
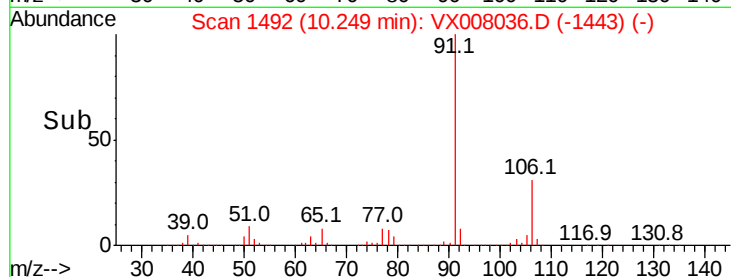
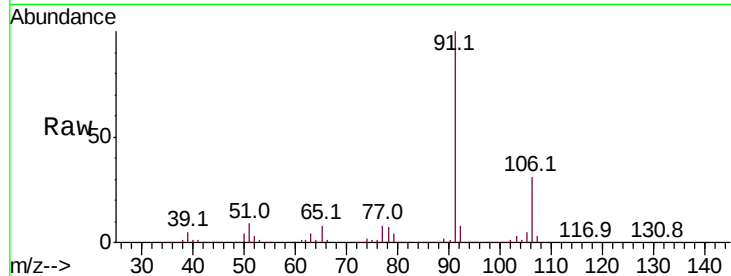
106 31.5 25.2 37.8

Manual Integrations

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3/14/2019 10:17:45 AM



#68

m/p-Xylenes

Concen: 105.667 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX008036.D

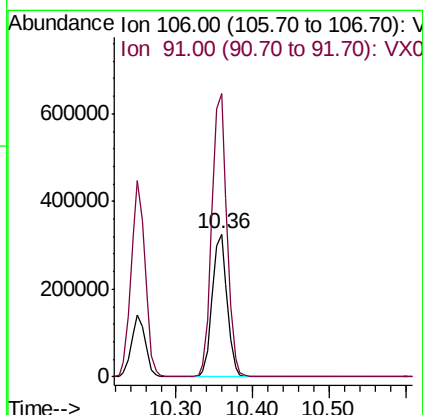
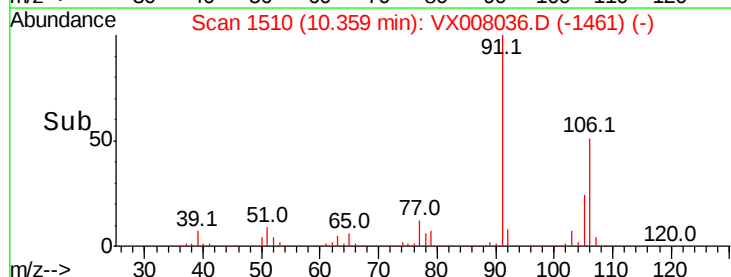
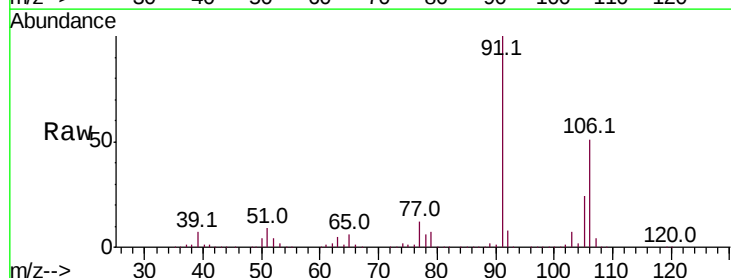
Acq: 13 Mar 2019 09:09

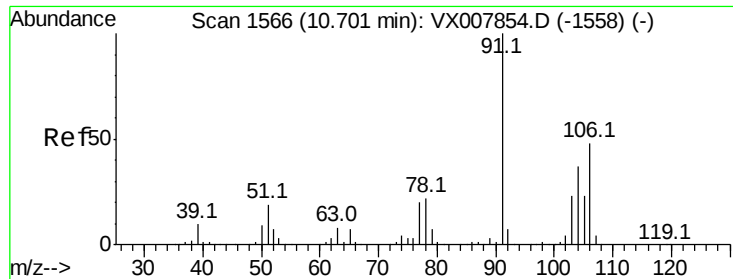
Tgt Ion: 106 Resp: 439823

Ion Ratio Lower Upper

106 100

91 200.9 159.8 239.6





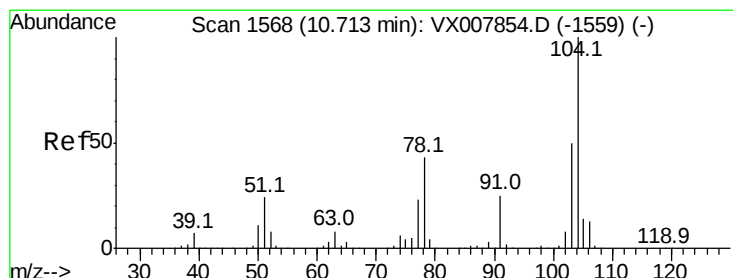
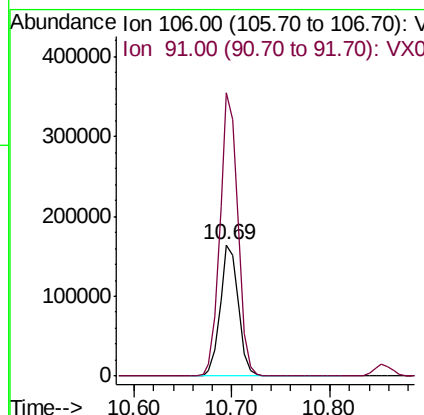
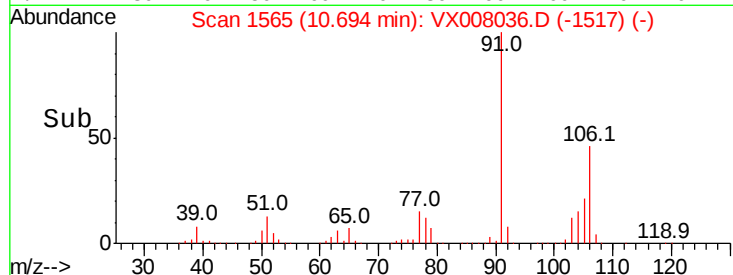
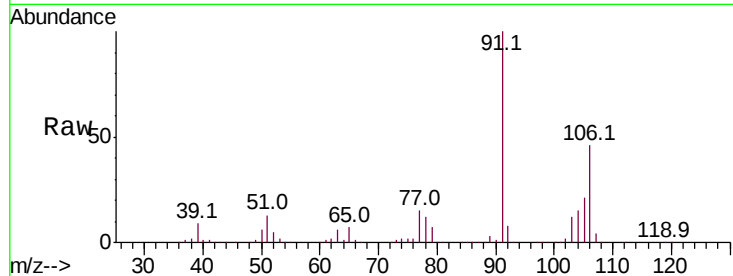
#69
o-Xylene
Concen: 52.409 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	213.1	106.3	318.9

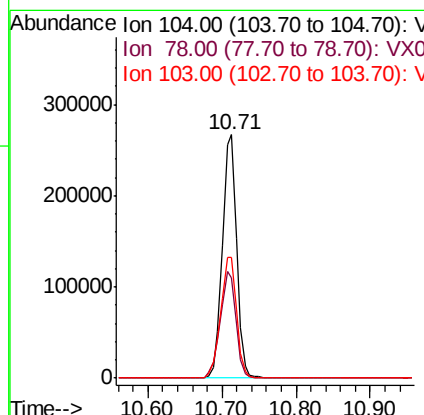
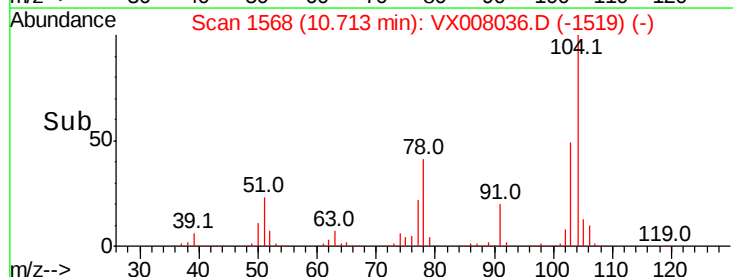
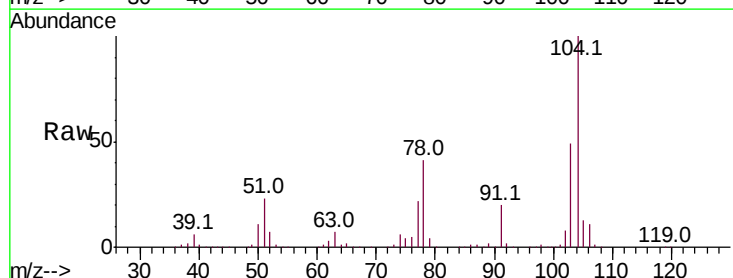
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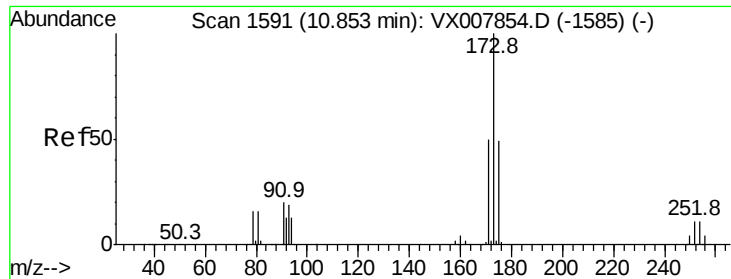
MMDadoda
3/14/2019 10:17:45 AM



#70
Styrene
Concen: 54.027 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.6	38.5	57.7
103	54.8	44.1	66.1





#71

Bromoform

Concen: 51.258 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 103494

Ion Ratio Lower Upper

173 100

175 48.9 24.3 72.9

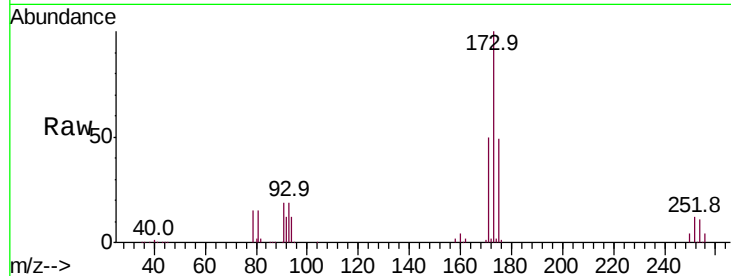
254 0.2 0.1 0.1#

Manual Integrations

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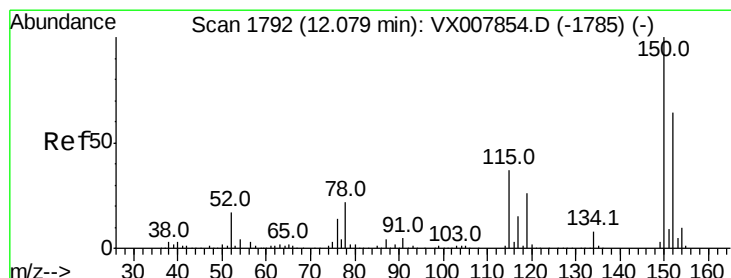
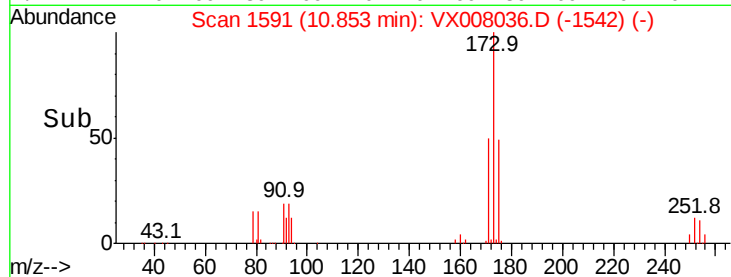
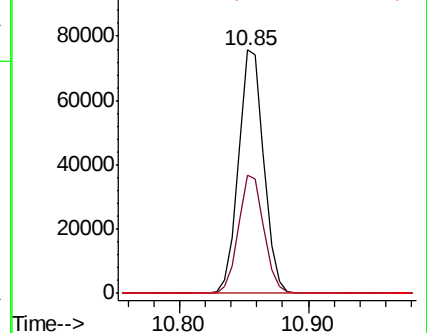
3/14/2019 10:17:45 AM



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: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

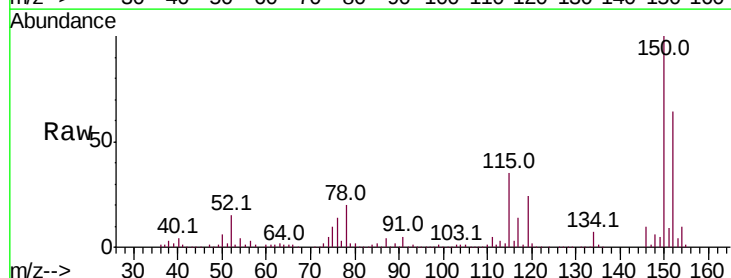
Tgt Ion:152 Resp: 165487

Ion Ratio Lower Upper

152 100

115 77.4 38.6 115.7

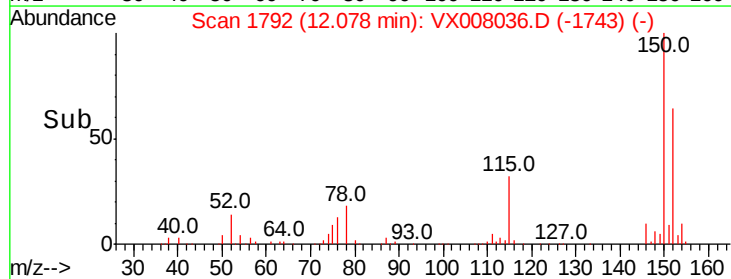
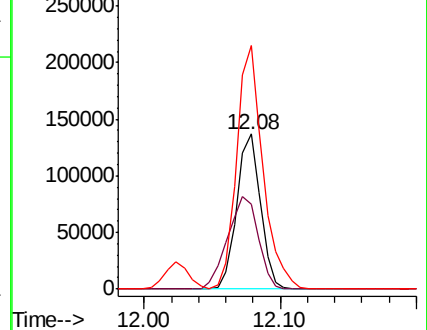
150 174.3 0.0 348.4

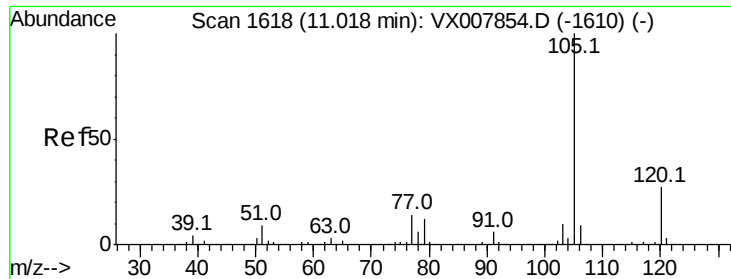


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 51.395 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 575214

Ion Ratio Lower Upper

105 100

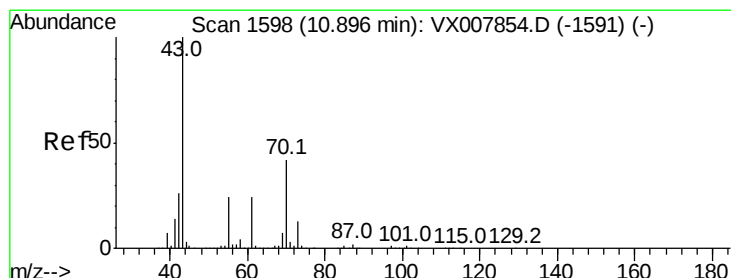
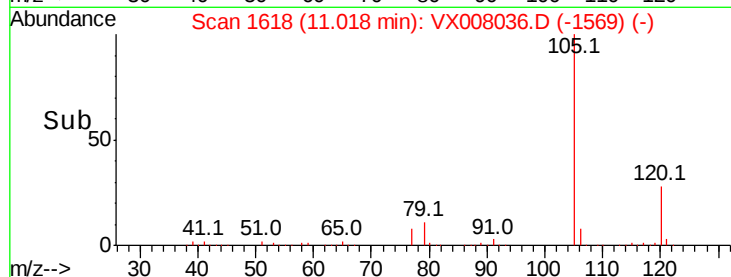
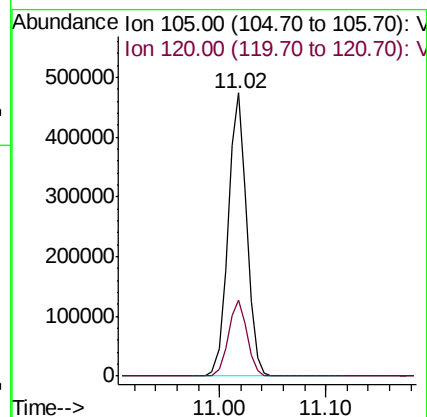
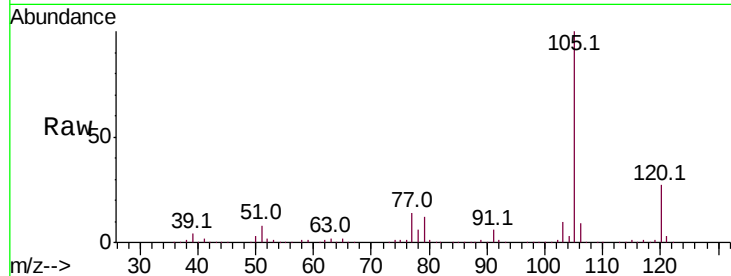
120 26.9 13.4 40.1

Manual Integrations

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3/14/2019 10:17:45 AM



#74

N-ethyl acetate

Concen: 46.343 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Tgt Ion: 43 Resp: 236792

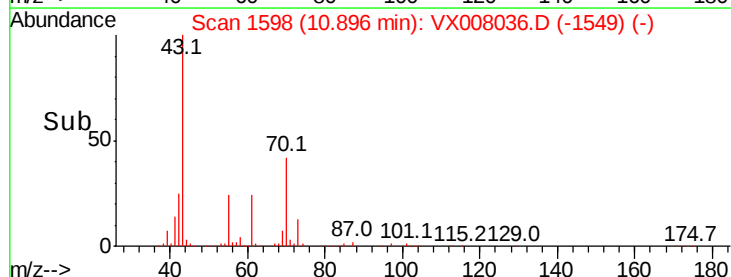
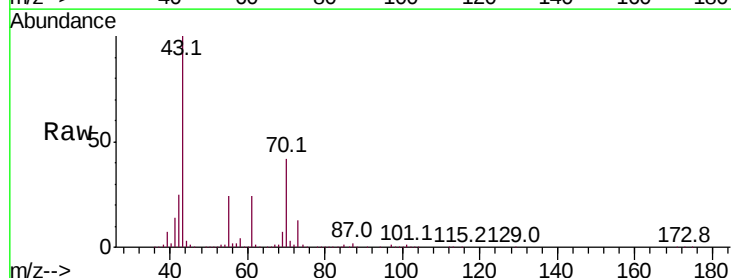
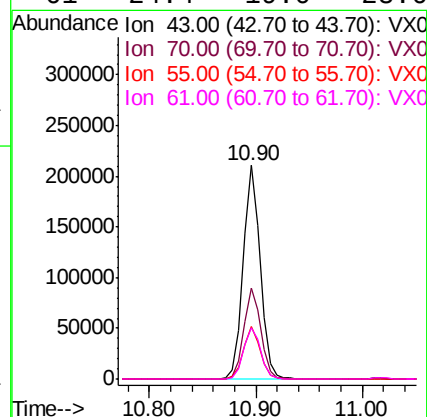
Ion Ratio Lower Upper

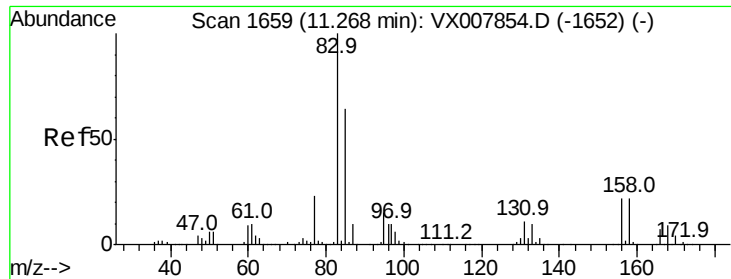
43 100

70 42.6 33.5 50.3

55 24.6 19.2 28.8

61 24.4 19.0 28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 45.429 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

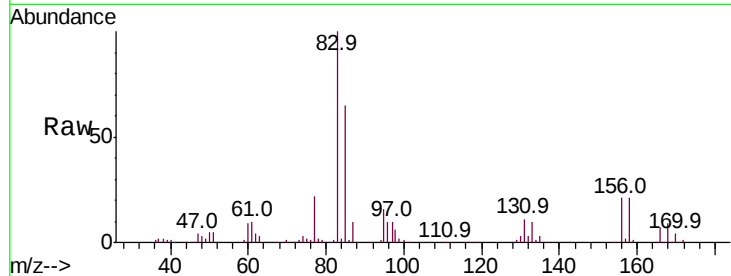
ClientSampleId :

VSTDCCC050

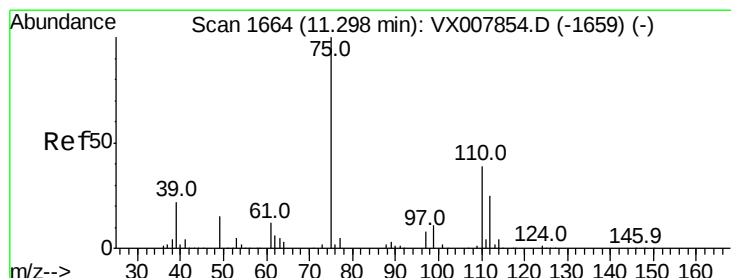
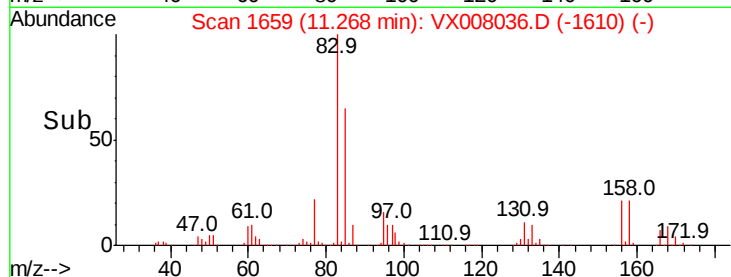
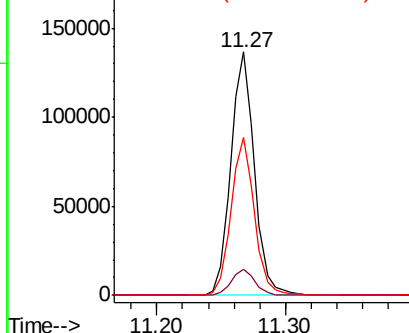
Tot Ion:	83	Resp:	175383
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.4	16.2
85	64.4	32.3	96.8

Manual Integrations
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3/14/2019 10:17:45 AM



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 42.358 ug/l m

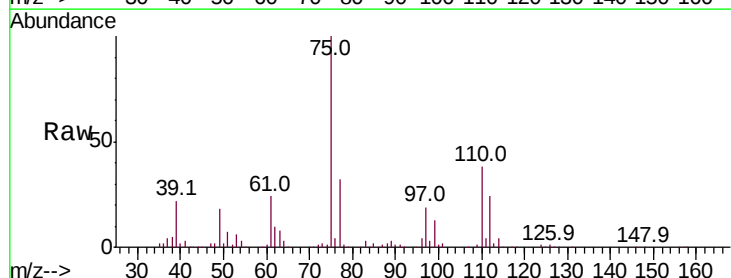
RT: 11.30 min Scan# 1664

Delta R.T. -0.00 min

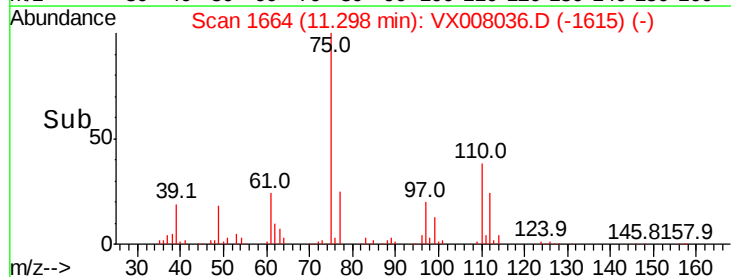
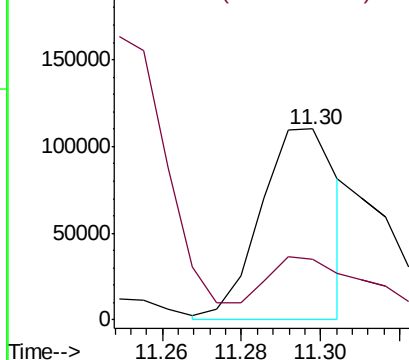
Lab File: VX008036.D

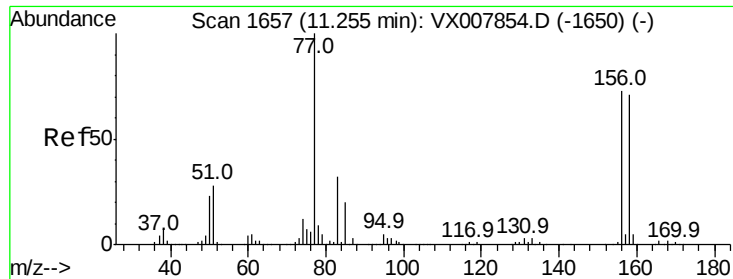
Acq: 13 Mar 2019 09:09

Tgt Ion:	75	Resp:	147092
Ion Ratio	Lower	Upper	
75	100		
77	46.5	18.9	56.7



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#77

Bromobenzene

Concen: 49.442 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

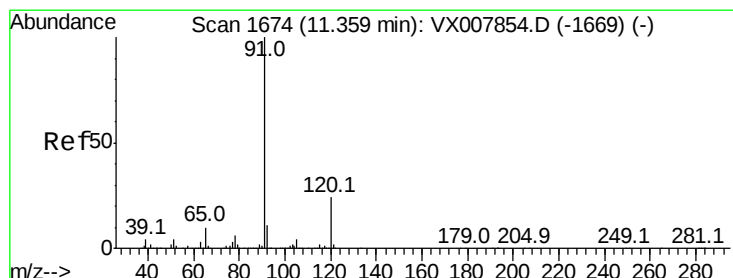
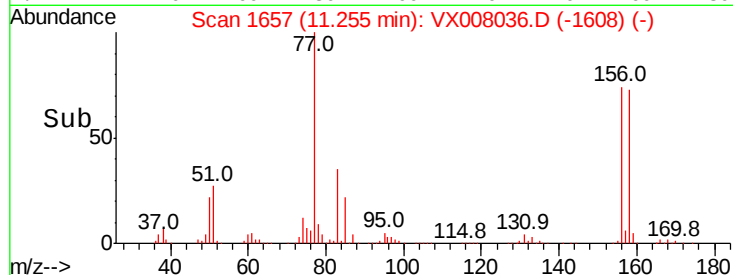
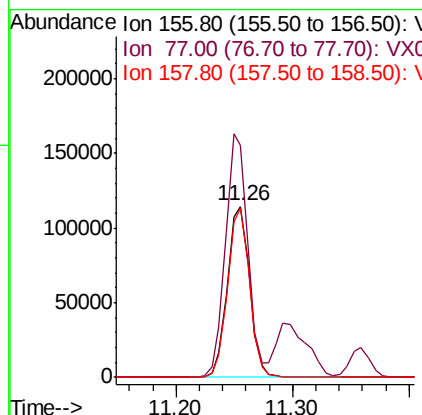
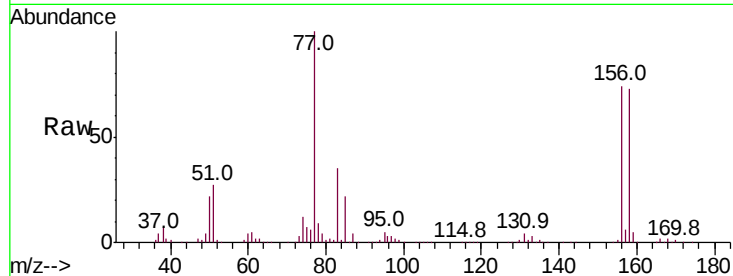
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	141.2	72.0	215.9
158	97.7	48.6	145.9

Manual Integrations
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#78

n-propylbenzene

Concen: 52.835 ug/l

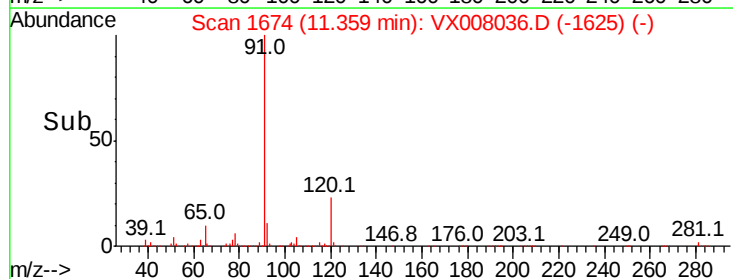
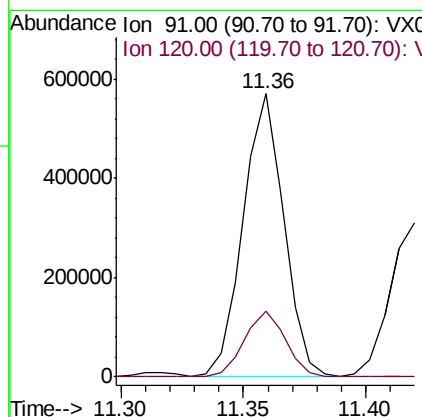
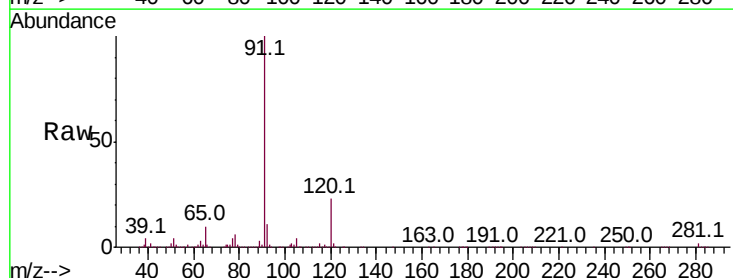
RT: 11.36 min Scan# 1674

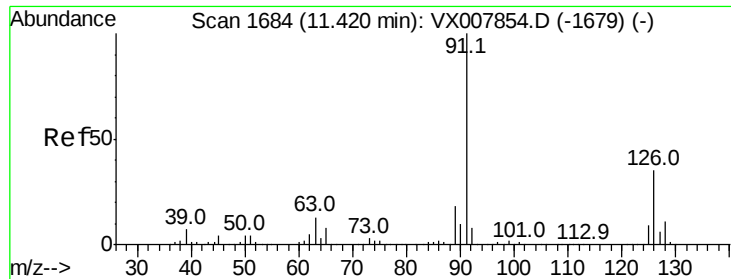
Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.7	12.0	36.0





#79

2-Chlorotoluene

Concen: 50.049 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 379957

Ion Ratio Lower Upper

91 100

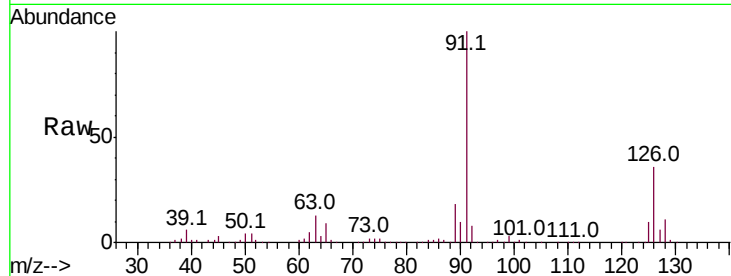
126 35.5 17.5 52.6

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VX007854.D (-1679) (-)

Ion 125.90 (125.60 to 126.60): VX007854.D (-1679) (-)

600000

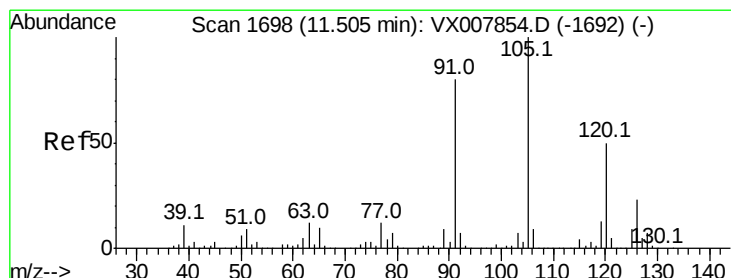
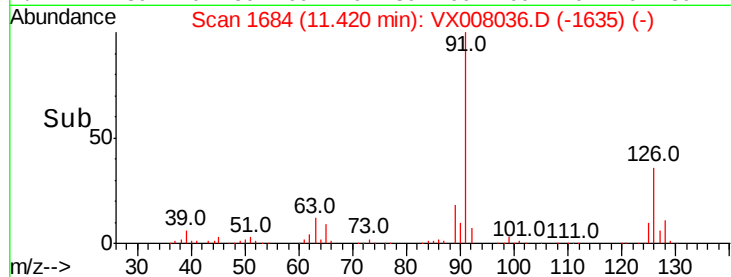
400000

200000

0

11.40 11.42 11.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 52.155 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX008036.D

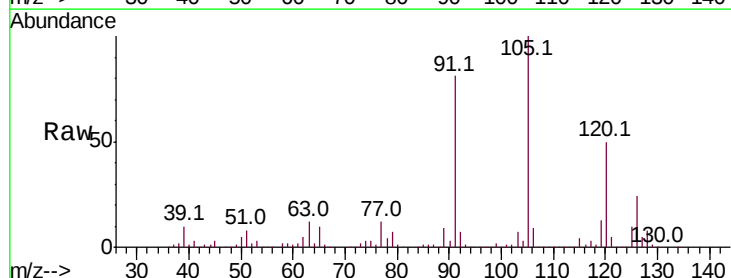
Acq: 13 Mar 2019 09:09

Tgt Ion: 105 Resp: 480436

Ion Ratio Lower Upper

105 100

120 49.7 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VX007854.D (-1692) (-)

Ion 120.00 (119.70 to 120.70): VX007854.D (-1692) (-)

400000

300000

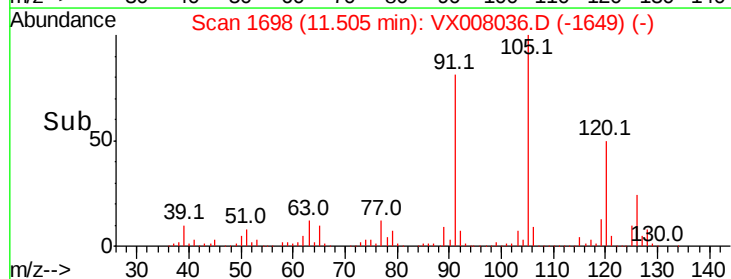
200000

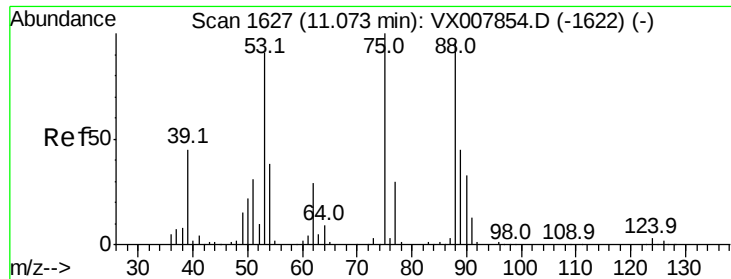
100000

0

11.50 11.51 11.60

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 51.002 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 55408

Ion Ratio Lower Upper

75 100

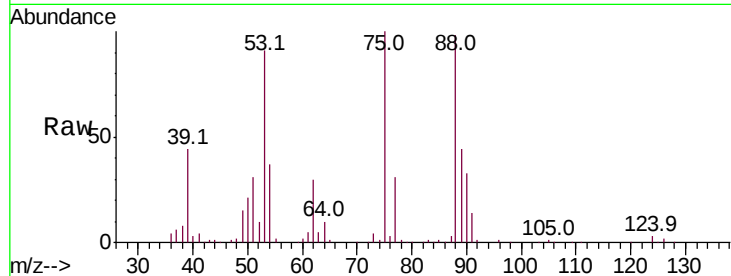
53 92.9 76.1 114.1

89 45.5 36.3 54.5

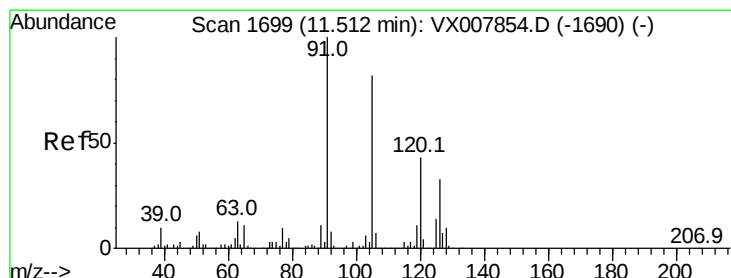
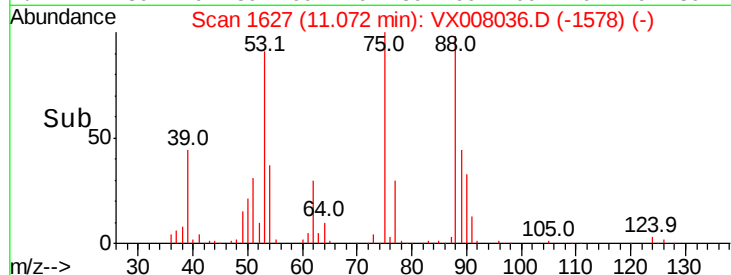
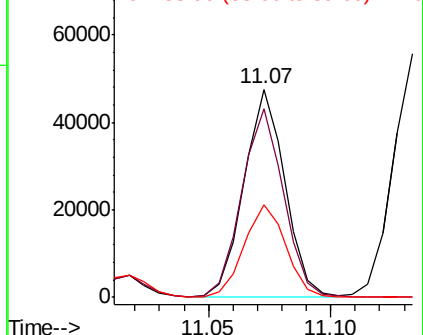
Manual Integrations
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Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#82

4-Chlorotoluene

Concen: 51.233 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VX008036.D

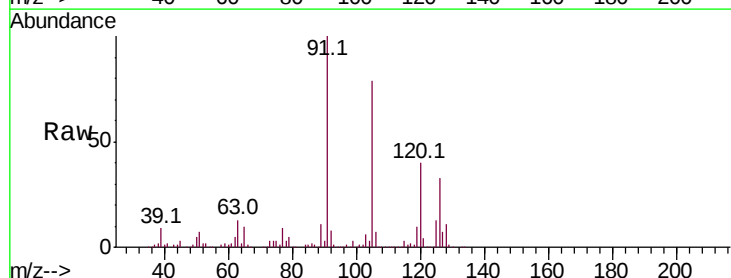
Acq: 13 Mar 2019 09:09

Tgt Ion: 91 Resp: 445725

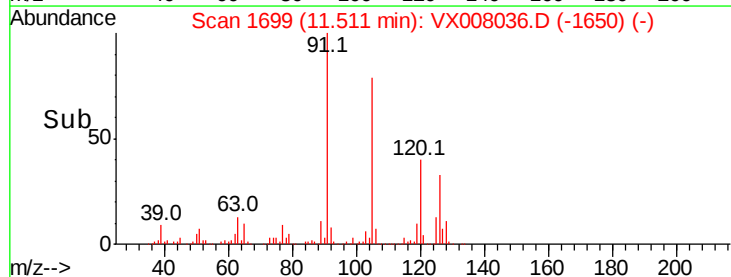
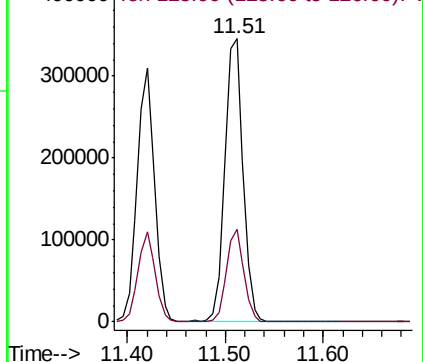
Ion Ratio Lower Upper

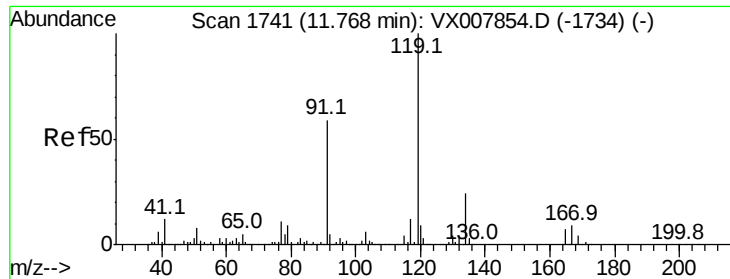
91 100

126 31.4 15.6 46.8



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 50.695 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

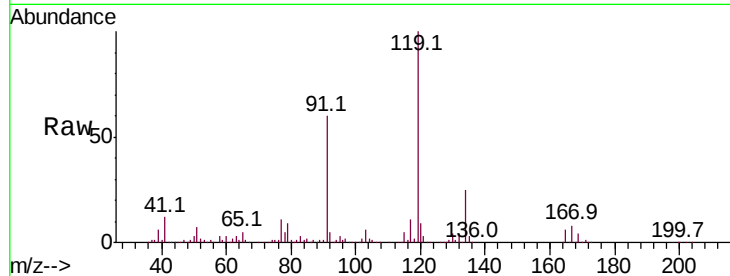
ClientSampleId :

VSTDCCC050

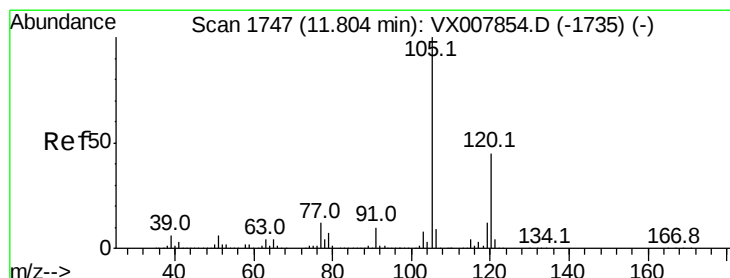
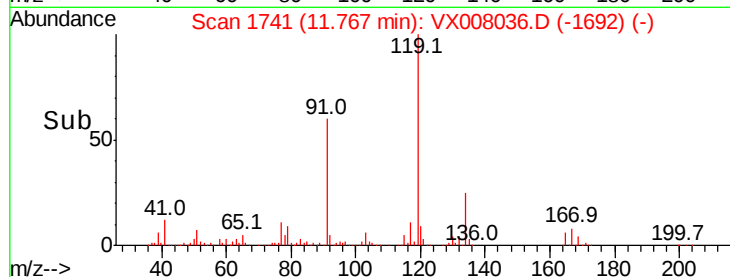
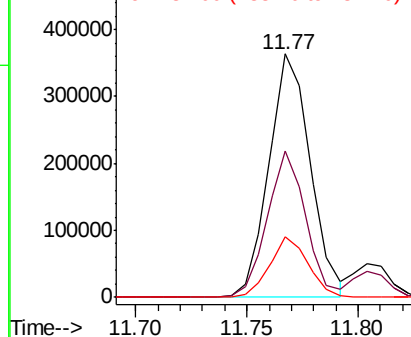
Tot Ion:	119	Resp:	470394
Ion Ratio	Lower	Upper	
119	100		
91	55.6	27.1	81.3
134	23.1	11.4	34.1

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



#84

1,2,4-Trimethylbenzene

Concen: 51.959 ug/l

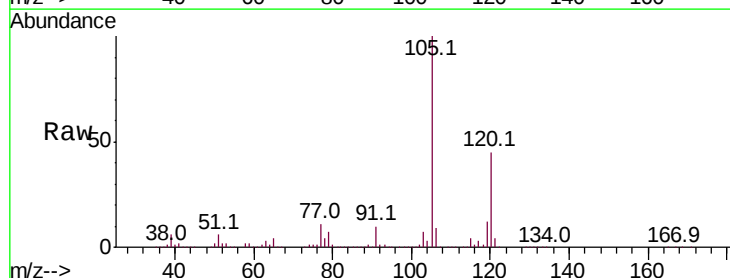
RT: 11.80 min Scan# 1747

Delta R.T. -0.00 min

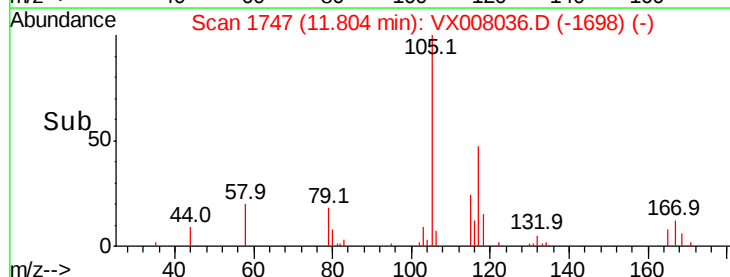
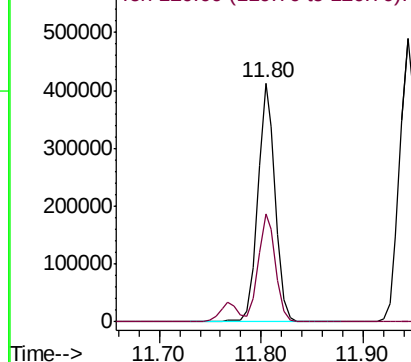
Lab File: VX008036.D

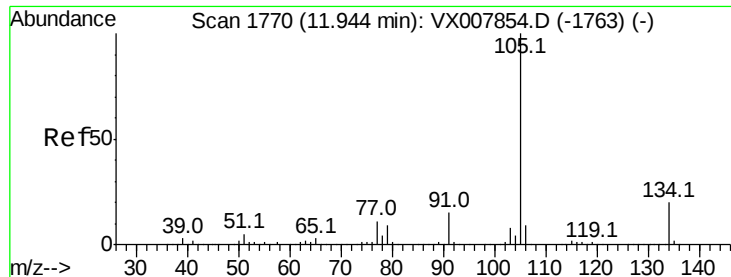
Acq: 13 Mar 2019 09:09

Tgt Ion:	105	Resp:	490663
Ion Ratio	Lower	Upper	
105	100		
120	45.0	22.6	67.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 53.577 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

ClientSampleID :

VSTDCCC050

Tot Ion:105 Resp: 585504

Ion Ratio Lower Upper

105 100

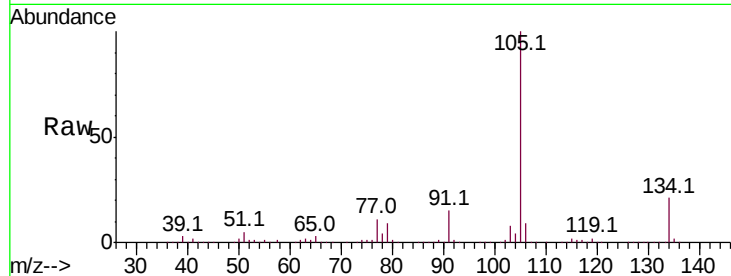
134 20.5 10.4 31.2

Manual Integrations

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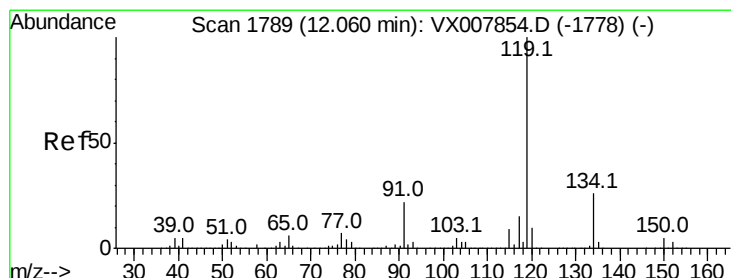
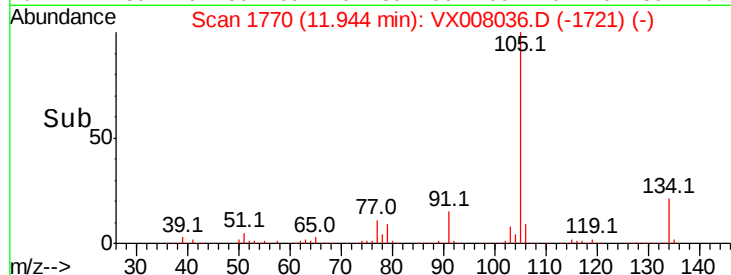
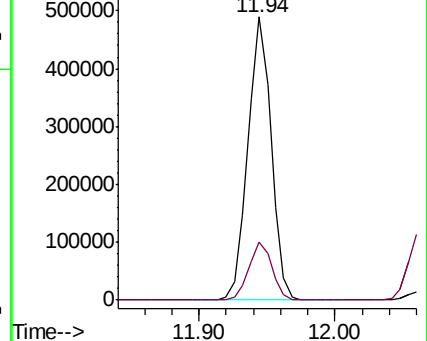
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 54.540 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

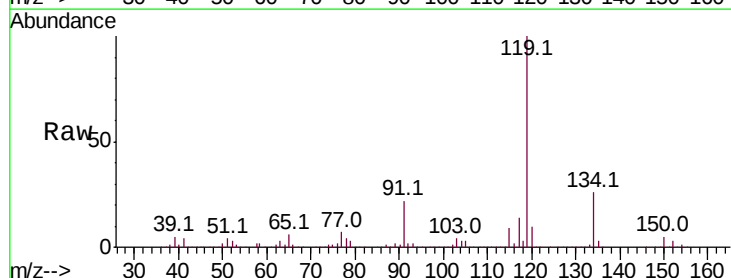
Tgt Ion:119 Resp: 533791

Ion Ratio Lower Upper

119 100

134 26.2 13.3 39.9

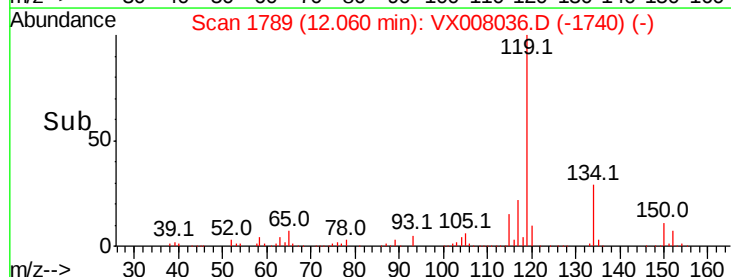
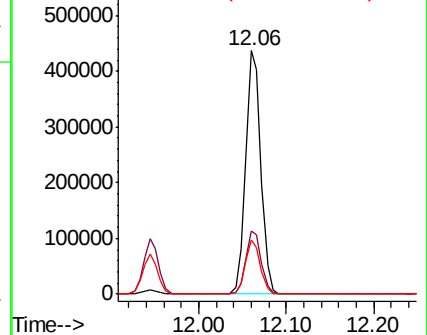
91 21.9 10.9 32.7

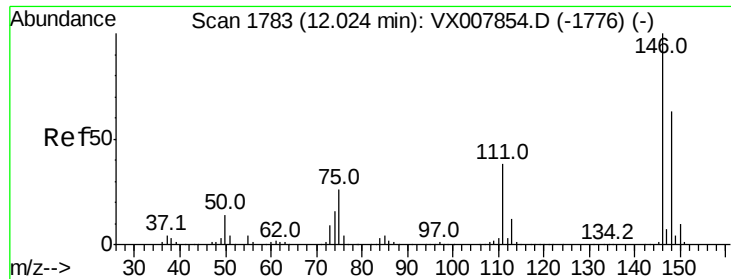


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0





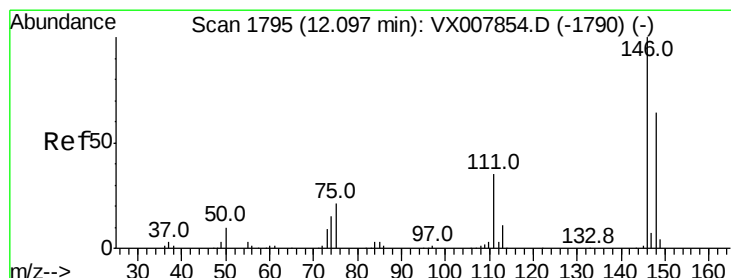
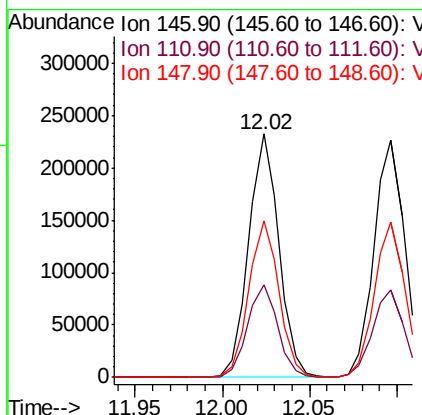
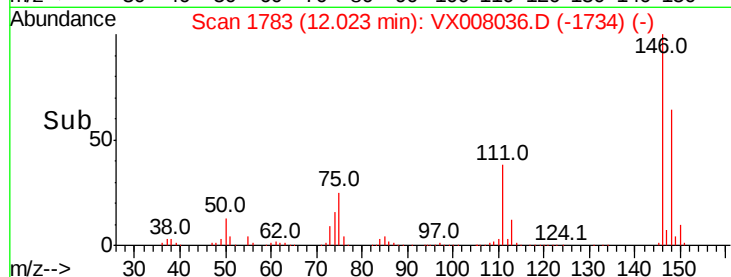
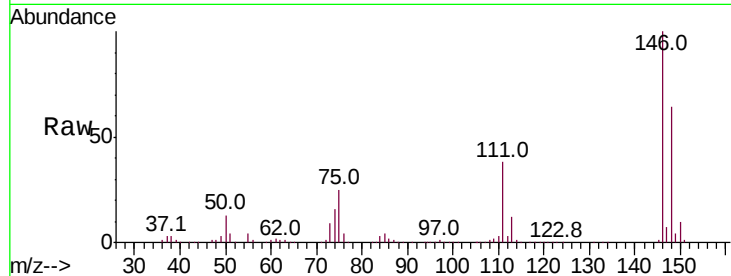
#87
 1,3-Dichlorobenzene
 Concen: 51.285 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX008036.D
 Acq: 13 Mar 2019 09:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	18.9	56.7
148	64.3	31.7	95.1

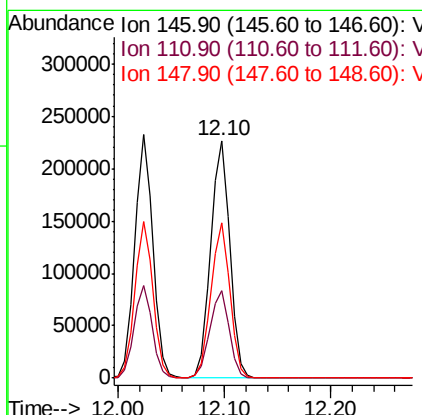
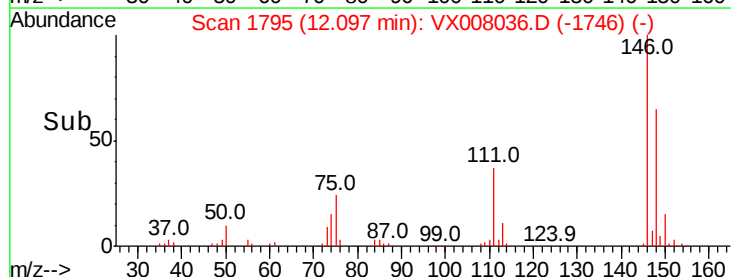
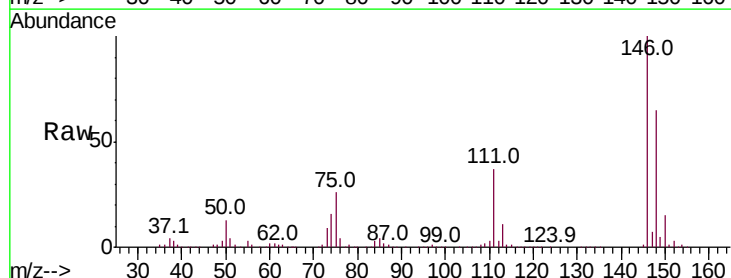
Manual Integrations
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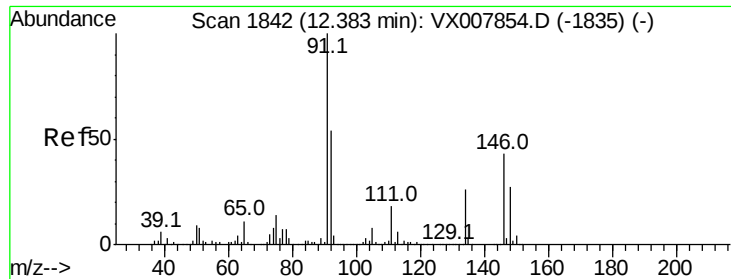
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#88
 1,4-Dichlorobenzene
 Concen: 49.994 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX008036.D
 Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.4	55.0
148	64.9	32.2	96.6





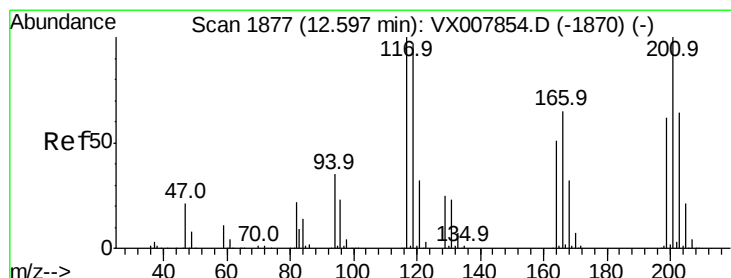
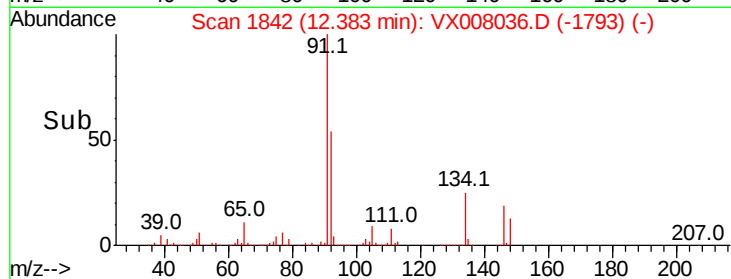
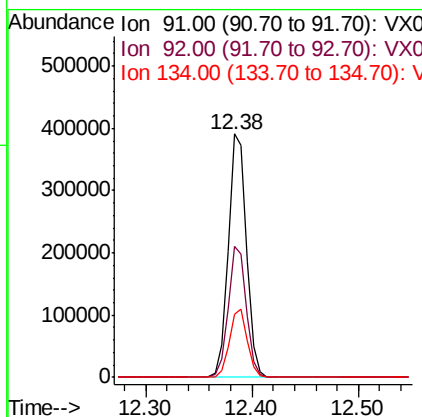
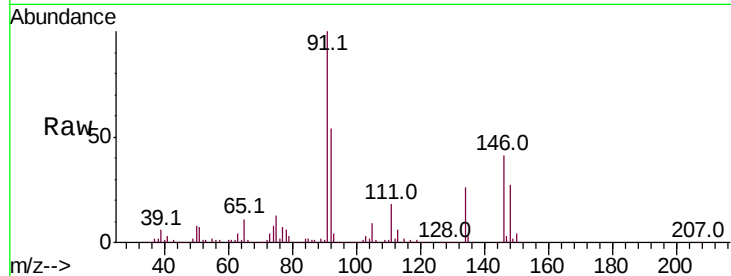
#89
n-Butylbenzene
Concen: 56.285 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.4	27.0	80.8
134	27.6	13.7	41.0

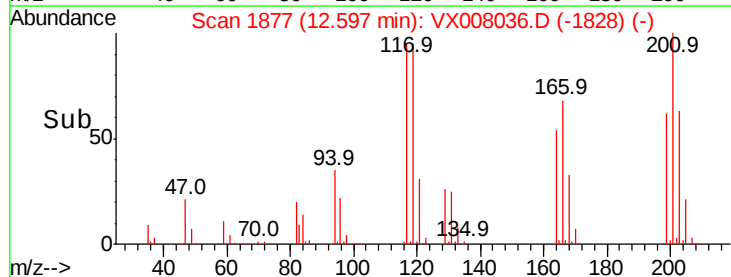
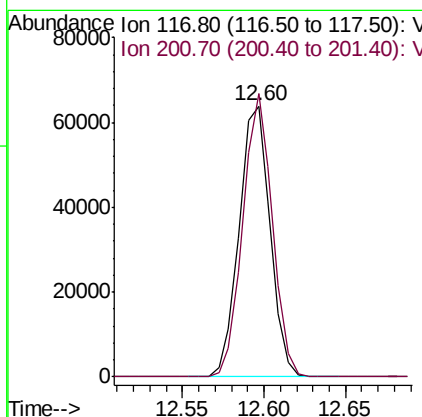
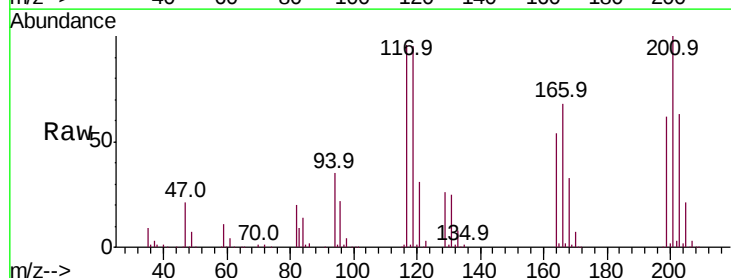
Manual Integrations
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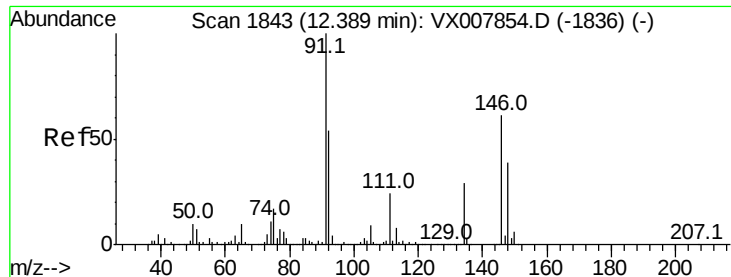
MMDadoda
3/14/2019 10:17:45 AM



#90
Hexachloroethane
Concen: 51.748 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. -0.00 min
Lab File: VX008036.D
Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Lower	Upper
117	100		
201	99.4	48.9	146.7





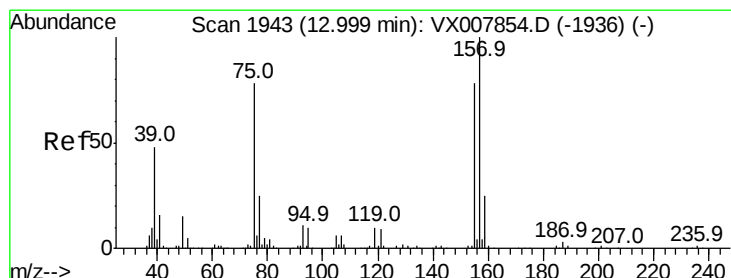
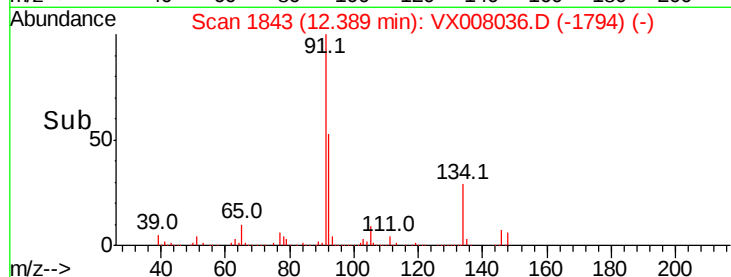
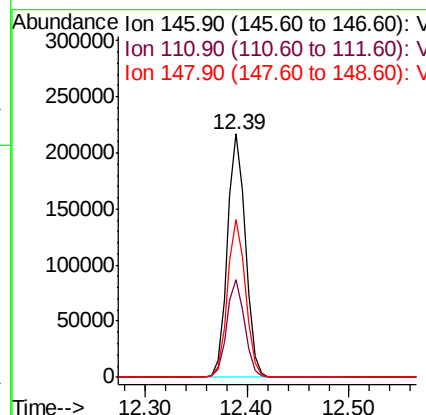
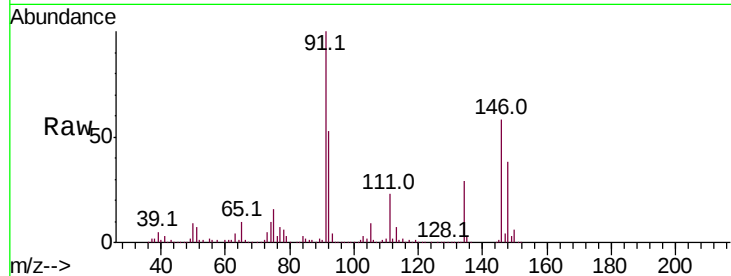
#91
 1,2-Dichlorobenzene
 Concen: 49.624 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX008036.D
 Acq: 13 Mar 2019 09:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	267616		
111	39.5	19.6	58.8	
148	64.5	31.9	95.5	

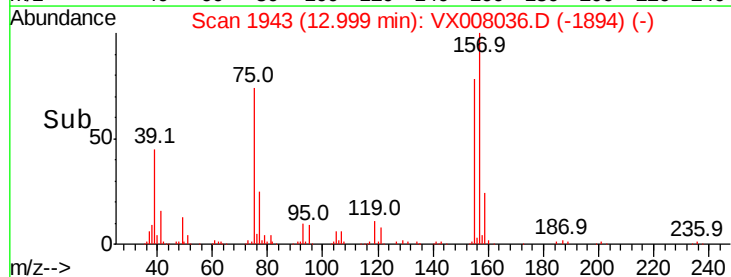
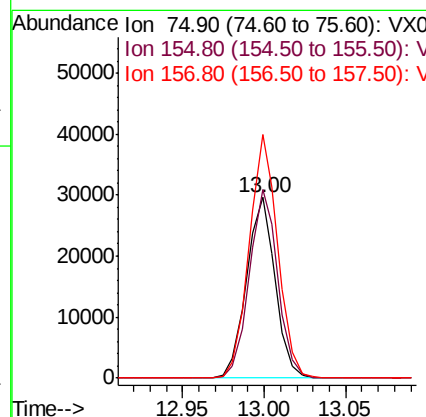
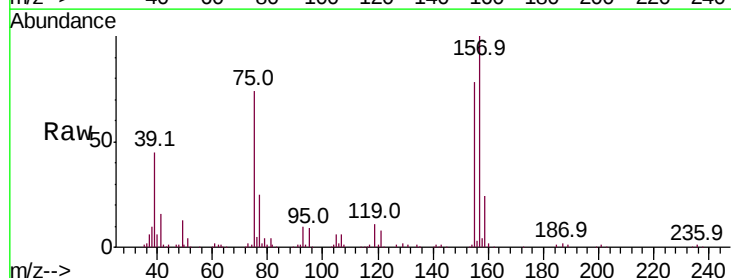
Manual Integrations
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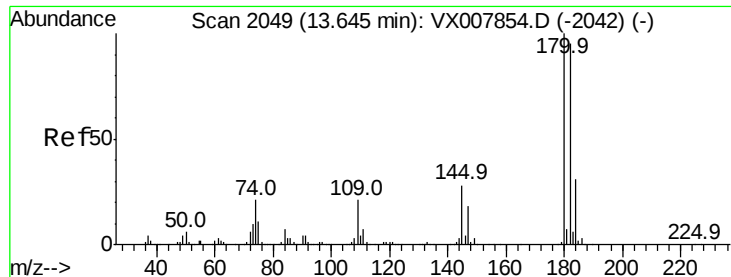
MMDadoda
 3/14/2019 10:17:45 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 44.788 ug/l
 RT: 13.00 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VX008036.D
 Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	36136		
155	103.1	49.7	149.1	
157	134.2	63.8	191.4	





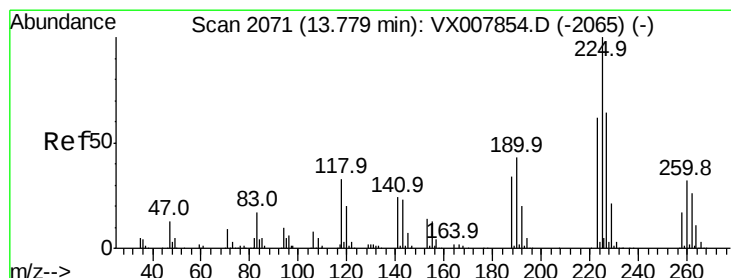
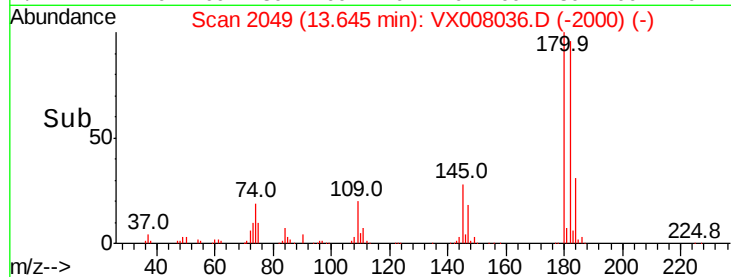
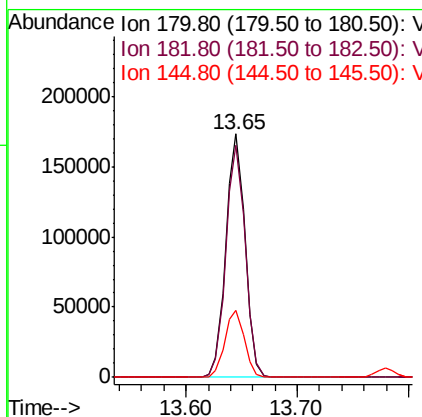
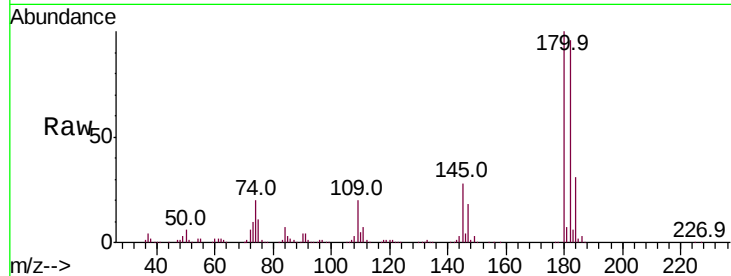
#93
 1,2,4-Trichlorobenzene
 Concen: 54.434 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX008036.D
 Acq: 13 Mar 2019 09:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	206225		
182	96.1	47.9	143.7	
145	28.3	14.1	42.4	

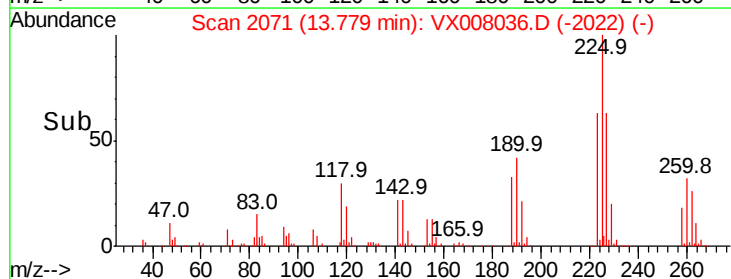
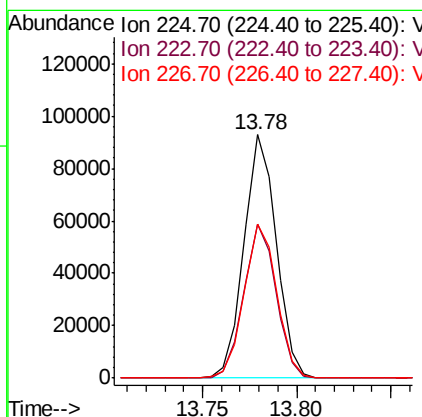
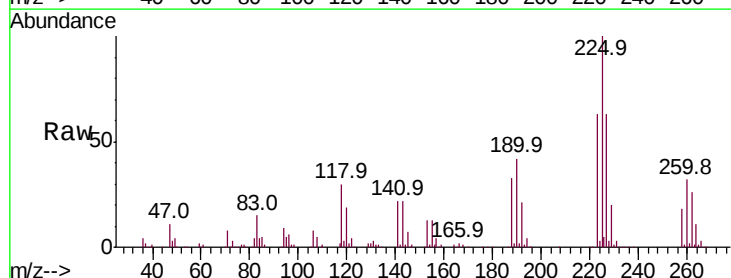
Manual Integrations
 APPROVED

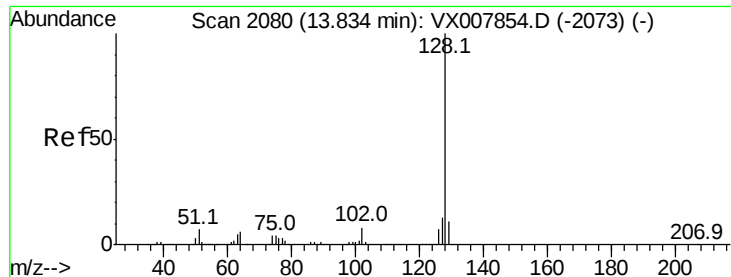
MMDadoda
 3/14/2019 10:17:45 AM



#94
 Hexachlorobutadiene
 Concen: 55.841 ug/l
 RT: 13.78 min Scan# 2071
 Delta R.T. -0.00 min
 Lab File: VX008036.D
 Acq: 13 Mar 2019 09:09

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	110605		
223	63.1	31.1	93.2	
227	64.0	32.0	96.0	





#95

Naphthalene

Concen: 51.416 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Instrument :

MSVOA_X

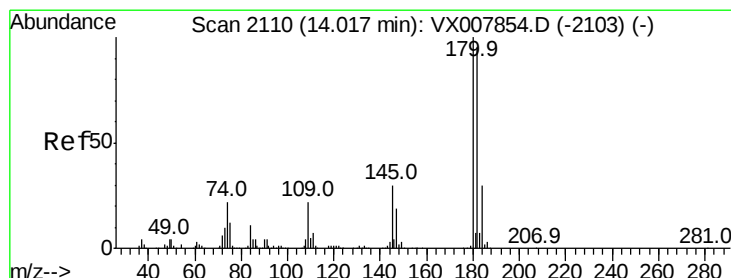
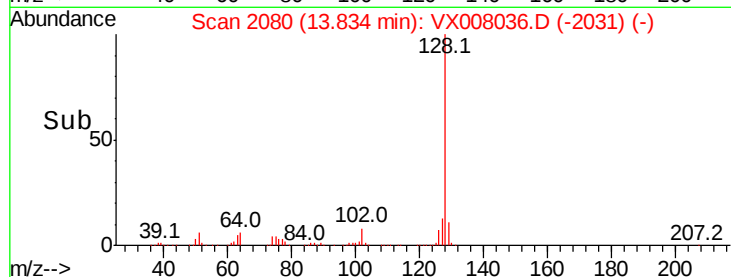
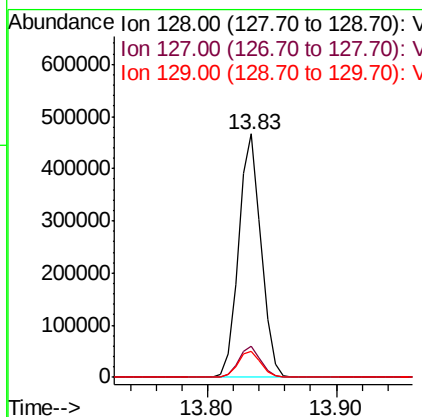
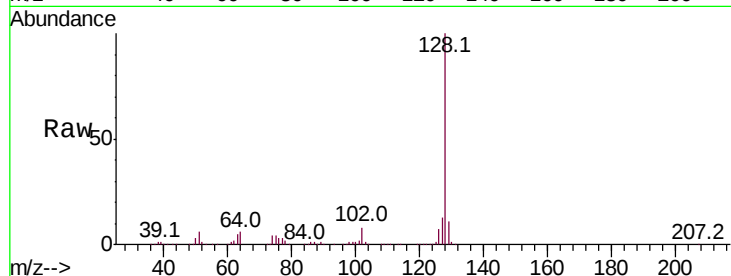
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	561256
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.3	15.5
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:17:45 AM



#96

1,2,3-Trichlorobenzene

Concen: 52.866 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VX008036.D

Acq: 13 Mar 2019 09:09

Tgt Ion:	180	Resp:	199517
Ion Ratio	Lower	Upper	
180	100		
182	96.1	47.5	142.5
145	30.6	14.8	44.3

