

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD011720\
 Data File : VD064857.D
 Acq On : 17 Jan 2020 12:17
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 1/20/2020 11:14:08 AM

Quant Time: Jan 17 23:24:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	383962	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	553117	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	478486	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	243415	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	176544	52.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.28%	
35) Dibromofluoromethane	7.92	113	179707	52.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.92%	
50) Toluene-d8	10.34	98	651991	50.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.34%	
62) 4-Bromofluorobenzene	12.64	95	212471	51.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.40%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	127093	42.592	ug/l	99
3) Chloromethane	2.21	50	191374	45.858	ug/l	99
4) Vinyl Chloride	2.35	62	223057	43.837	ug/l	97
5) Bromomethane	2.77	94	147404	39.842	ug/l	93
6) Chloroethane	2.92	64	153461	45.010	ug/l	94
7) Trichlorofluoromethane	3.27	101	372602	43.490	ug/l	100
8) Diethyl Ether	3.70	74	84012	49.380	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	4.09	101	184979	52.133	ug/l	98
10) Methyl Iodide	4.30	142	187852	49.288	ug/l	98
11) Tert butyl alcohol	5.24	59	53821	277.374	ug/l #	84
12) 1,1-Dichloroethene	4.06	96	167439	49.567	ug/l	96
13) Acrolein	3.93	56	32324	119.532	ug/l	96
14) Allyl chloride	4.71	41	284147	53.950	ug/l	98
15) Acrylonitrile	5.43	53	181500	256.117	ug/l	98
16) Acetone	4.16	43	217930	314.645	ug/l #	88
17) Carbon Disulfide	4.40	76	481161	44.051	ug/l	98
18) Methyl Acetate	4.72	43	95578	50.142	ug/l	97
19) Methyl tert-butyl Ether	5.49	73	391339	52.157	ug/l	99
20) Methylene Chloride	4.96	84	194065	56.700	ug/l	97
21) trans-1,2-Dichloroethene	5.47	96	192316	49.990	ug/l	96
22) Diisopropyl ether	6.37	45	569538	54.216	ug/l	98
23) Vinyl Acetate	6.31	43	1595516	267.744	ug/l	99
24) 1,1-Dichloroethane	6.27	63	345121	54.724	ug/l	100
25) 2-Butanone	7.22	43	252052	270.832	ug/l	98
26) 2,2-Dichloropropane	7.21	77	319438	54.479	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	215686	51.949	ug/l	97
28) Bromochloromethane	7.55	49	134579	54.896	ug/l	99
29) Tetrahydrofuran	7.57	42	145728	251.797	ug/l	95
30) Chloroform	7.71	83	356330	53.854	ug/l	99
31) Cyclohexane	7.99	56	296029	46.893	ug/l	97
32) 1,1,1-Trichloroethane	7.90	97	333217	53.617	ug/l	99
36) 1,1-Dichloropropene	8.11	75	272550	51.195	ug/l	99
37) Ethyl Acetate	7.30	43	103150	49.320	ug/l	96
38) Carbon Tetrachloride	8.10	117	305547	53.825	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD011720\
 Data File : VD064857.D
 Acq On : 17 Jan 2020 12:17
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 1/20/2020 11:14:08 AM

Quant Time: Jan 17 23:24:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	319285	49.517	ug/l	96
40) Benzene	8.35	78	764847	52.628	ug/l	97
41) Methacrylonitrile	7.53	41	64238	52.938	ug/l	98
42) 1,2-Dichloroethane	8.43	62	222724	53.033	ug/l	99
43) Isopropyl Acetate	8.46	43	212183	50.971	ug/l	99
44) Trichloroethene	9.11	130	218563	51.193	ug/l	100
45) 1,2-Dichloropropane	9.39	63	187208	53.951	ug/l	100
46) Dibromomethane	9.48	93	99028	51.187	ug/l	98
47) Bromodichloromethane	9.67	83	274788	53.377	ug/l	96
48) Methyl methacrylate	9.46	41	98787	50.399	ug/l	94
49) 1,4-Dioxane	9.47	88	22195	994.947	ug/l	97
51) 4-Methyl-2-Pentanone	10.23	43	523956	254.645	ug/l	99
52) Toluene	10.41	92	497398	52.166	ug/l	100
53) t-1,3-Dichloropropene	10.63	75	257375	53.624	ug/l	100
54) cis-1,3-Dichloropropene	10.09	75	302247	53.406	ug/l	98
55) 1,1,2-Trichloroethane	10.81	97	133767	51.306	ug/l	96
56) Ethyl methacrylate	10.67	69	168114	51.630	ug/l	97
57) 1,3-Dichloropropane	10.95	76	232719	51.840	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.94	63	298834	240.887	ug/l	100
59) 2-Hexanone	10.99	43	394532	282.508	ug/l	99
60) Dibromochloromethane	11.14	129	184806	51.257	ug/l	100
61) 1,2-Dibromoethane	11.25	107	128601	50.008	ug/l	100
64) Tetrachloroethene	10.88	164	183619	50.021	ug/l	98
65) Chlorobenzene	11.67	112	525977	52.964	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.75	131	202609	54.119	ug/l	99
67) Ethyl Benzene	11.75	91	966504	53.620	ug/l	100
68) m/p-Xylenes	11.86	106	742560	106.730	ug/l	99
69) o-Xylene	12.18	106	327417	52.101	ug/l	97
70) Styrene	12.20	104	597422	54.160	ug/l	99
71) Bromoform	12.37	173	108255	50.705	ug/l #	98
73) Isopropylbenzene	12.48	105	925378	53.198	ug/l	99
74) N-amyl acetate	12.30	43	192443	51.754	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	139185	50.935	ug/l	98
76) 1,2,3-Trichloropropane	12.79	75	90423m	47.043	ug/l	
77) Bromobenzene	12.77	156	216843	50.733	ug/l	98
78) n-propylbenzene	12.83	91	1084714	53.452	ug/l	99
79) 2-Chlorotoluene	12.91	91	586993	52.655	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	751843	52.616	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.53	75	47762	51.969	ug/l	98
82) 4-Chlorotoluene	13.01	91	615071	51.845	ug/l	98
83) tert-Butylbenzene	13.23	119	652331	52.580	ug/l	96
84) 1,2,4-Trimethylbenzene	13.28	105	753845	52.972	ug/l	98
85) sec-Butylbenzene	13.41	105	912430	53.645	ug/l	99
86) p-Isopropyltoluene	13.53	119	862444	53.029	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	422836	51.894	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	404633	50.551	ug/l	98
89) n-Butylbenzene	13.85	91	772710	52.760	ug/l	99
90) Hexachloroethane	14.12	117	164508	52.953	ug/l	93
91) 1,2-Dichlorobenzene	13.90	146	352916	50.795	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.51	75	20621	46.550	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD011720\
Data File : VD064857.D
Acq On : 17 Jan 2020 12:17
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
1/20/2020 11:14:08 AM

Quant Time: Jan 17 23:24:09 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	257750	50.383	ug/l	97
94) Hexachlorobutadiene	15.28	225	159022	49.397	ug/l	99
95) Naphthalene	15.41	128	391912	48.424	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	215828	49.418	ug/l	98

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

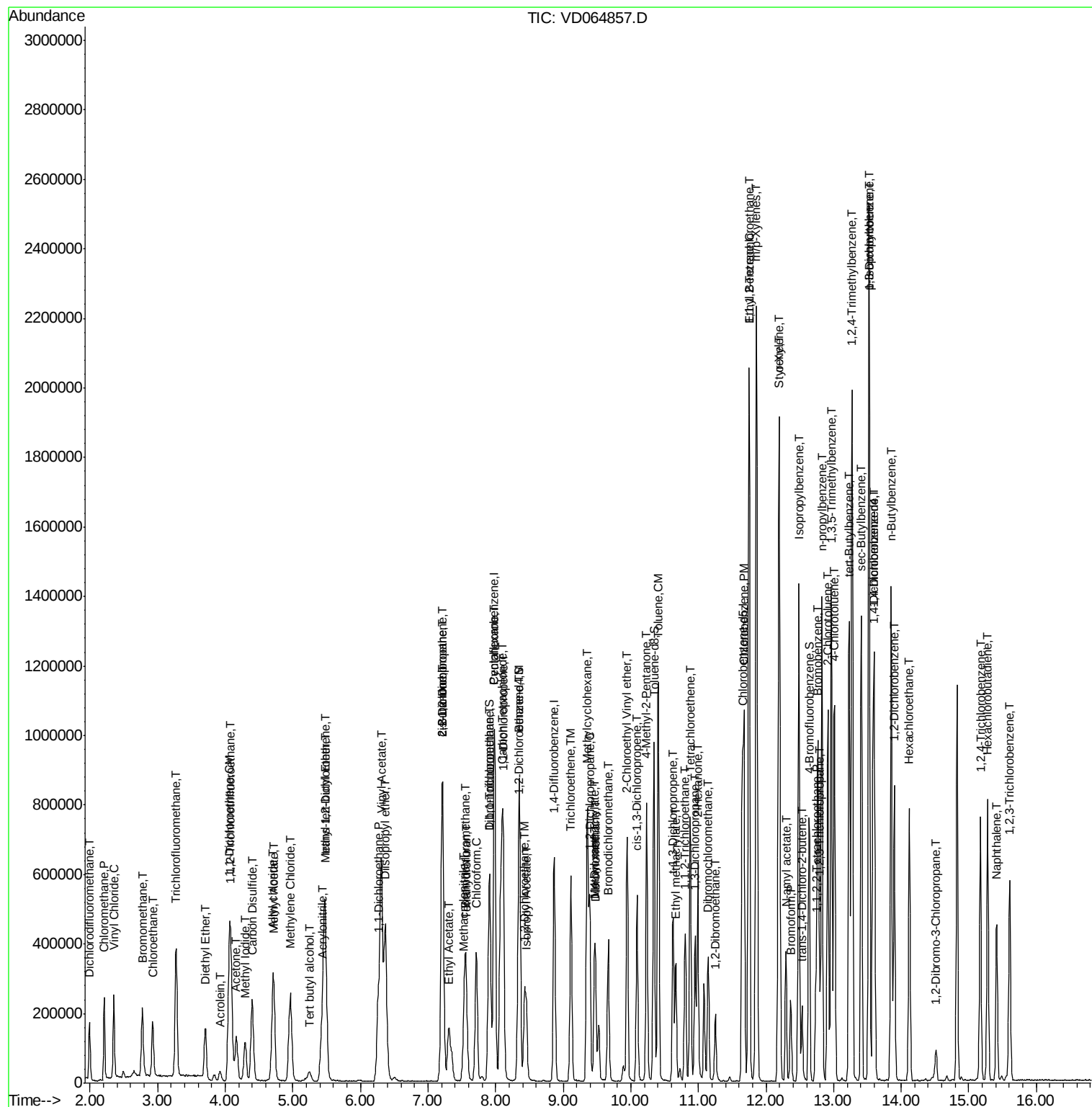
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD011720\
Data File : VD064857.D
Acq On : 17 Jan 2020 12:17
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

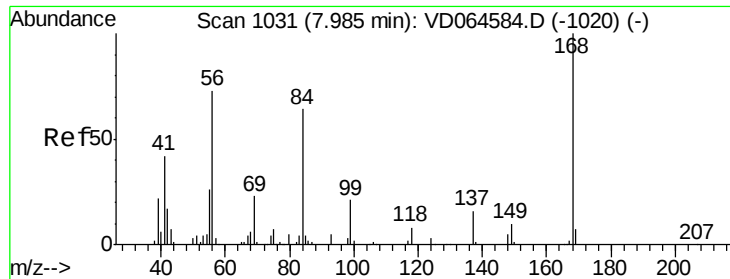
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
1/20/2020 11:14:08 AM

Quant Time: Jan 17 23:24:09 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 383962

Ion Ratio Lower Upper

168 100

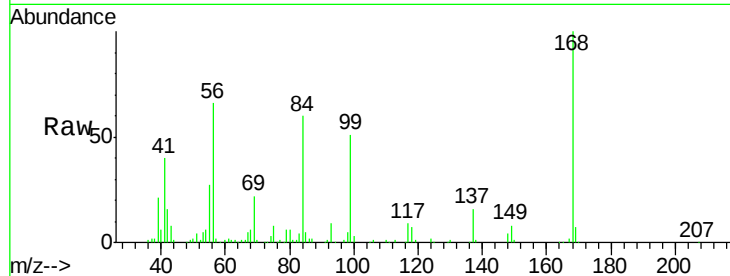
99 50.7 41.8 62.6

Manual Integrations

APPROVED

MMDadoda

1/20/2020 11:14:08 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

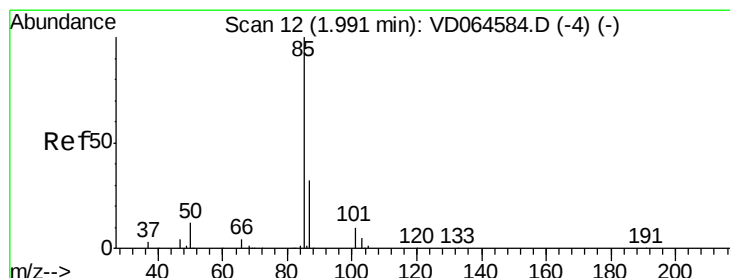
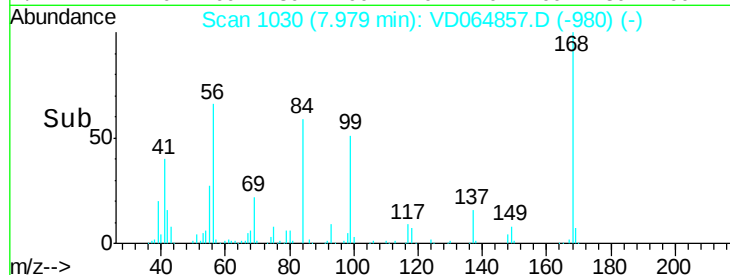
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 42.592 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064857.D

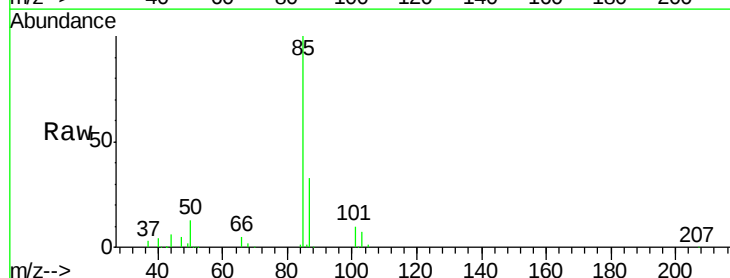
Acq: 17 Jan 2020 12:17

Tgt Ion: 85 Resp: 127093

Ion Ratio Lower Upper

85 100

87 32.7 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

100000

80000

60000

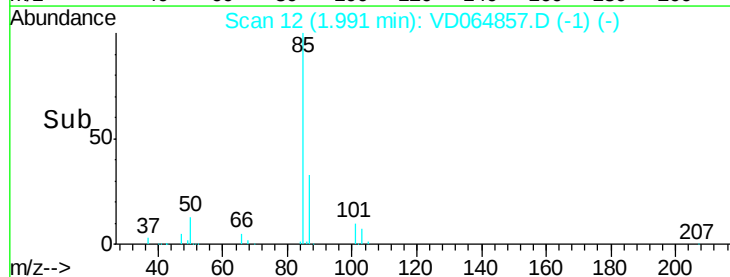
40000

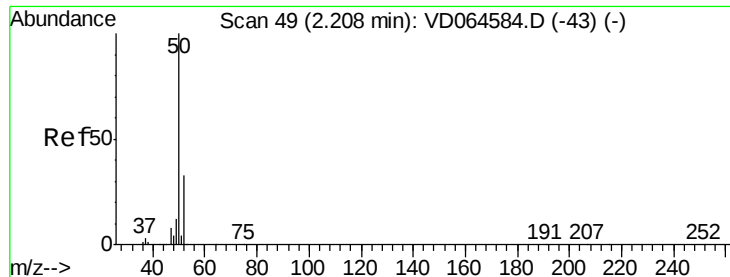
20000

0

1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 45.858 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 191374

Ion Ratio Lower Upper

50 100

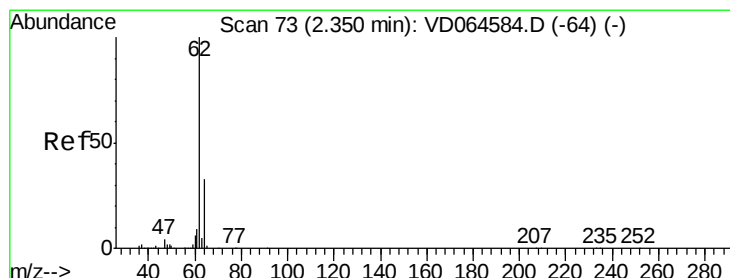
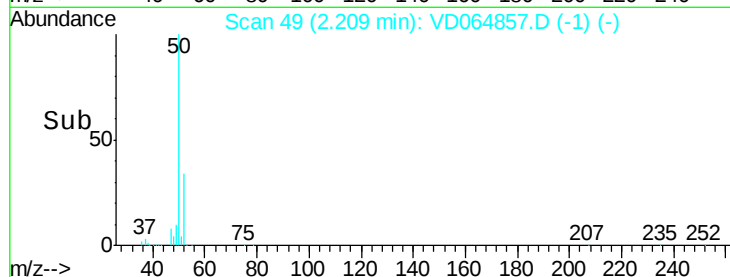
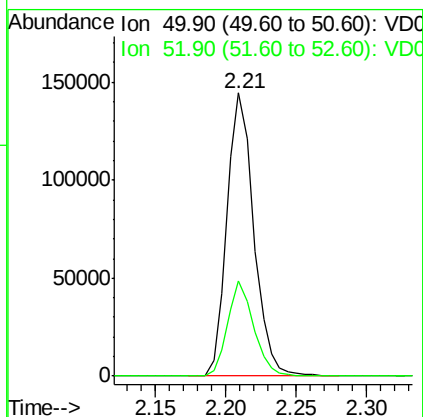
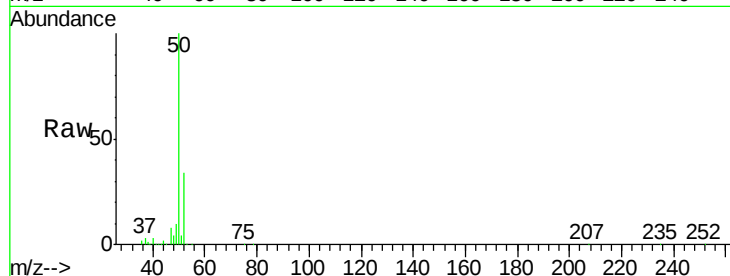
52 33.8 26.5 39.7

Manual Integrations

APPROVED

MMDadoda

1/20/2020 11:14:08 AM



#4

Vinyl Chloride

Concen: 43.837 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064857.D

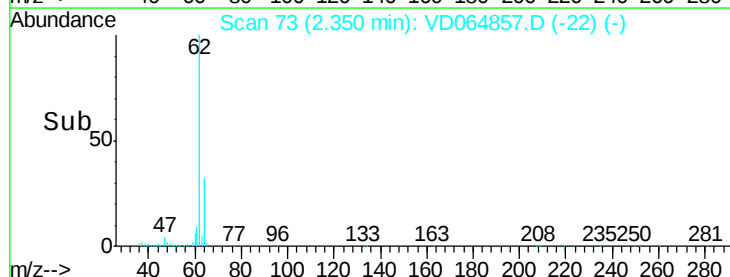
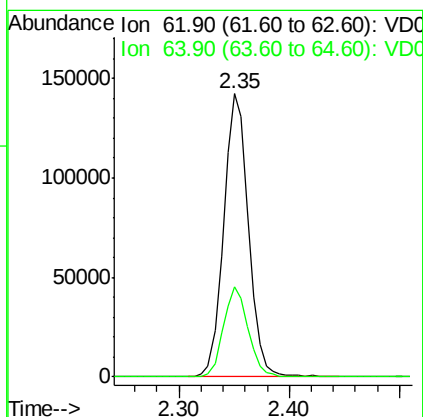
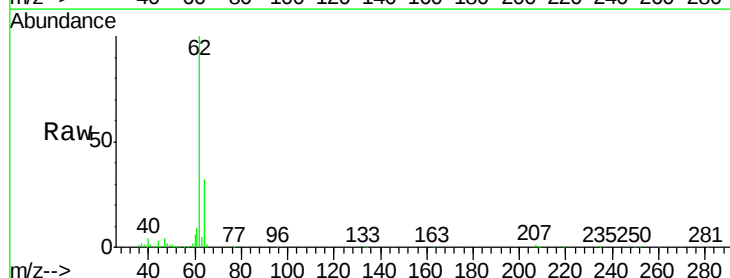
Acq: 17 Jan 2020 12:17

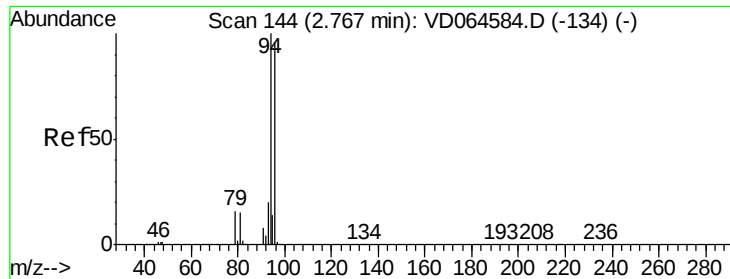
Tgt Ion: 62 Resp: 223057

Ion Ratio Lower Upper

62 100

64 31.8 26.6 40.0





#5

Bromomethane

Concen: 39.842 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 147404

Ion Ratio Lower Upper

94 100

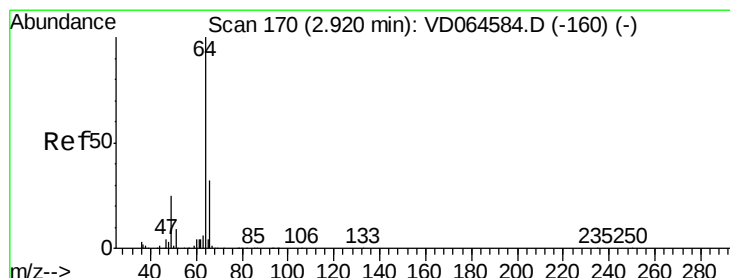
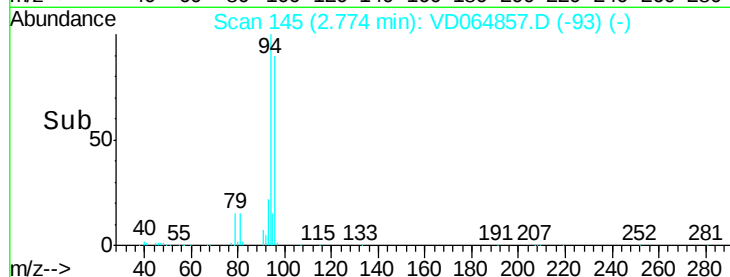
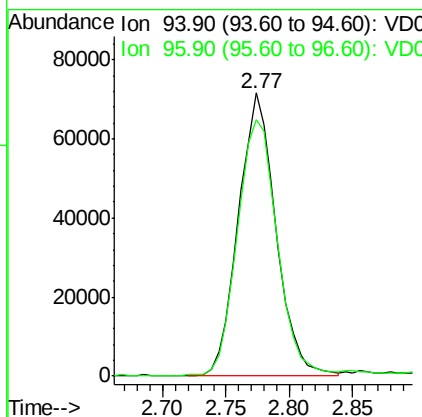
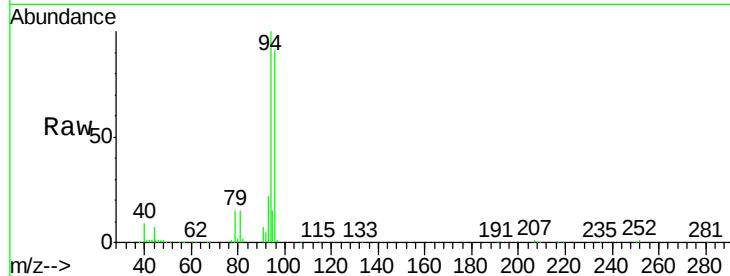
96 90.1 77.2 115.8

Manual Integrations

APPROVED

MMDadoda

1/20/2020 11:14:08 AM



#6

Chloroethane

Concen: 45.010 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD064857.D

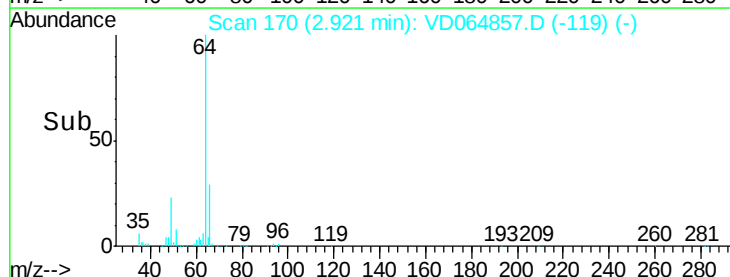
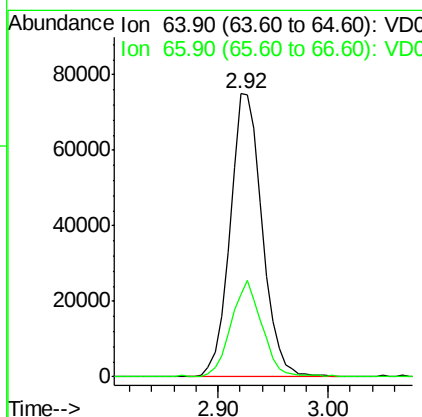
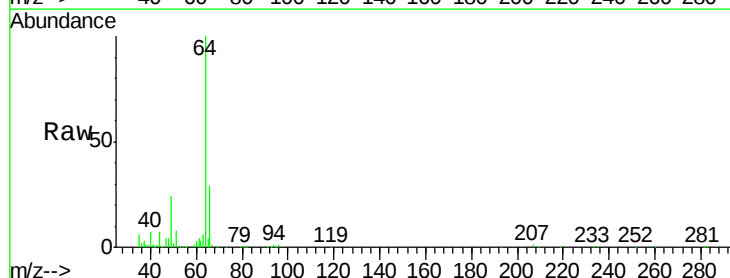
Acq: 17 Jan 2020 12:17

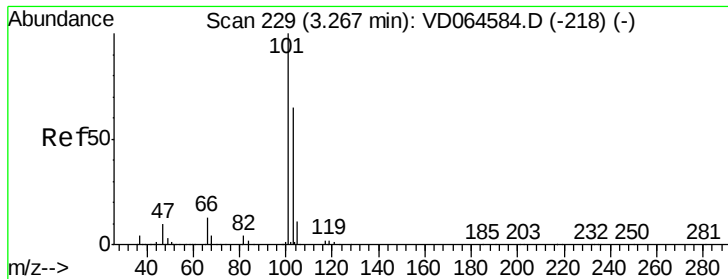
Tgt Ion: 64 Resp: 153461

Ion Ratio Lower Upper

64 100

66 29.1 25.9 38.9





#7

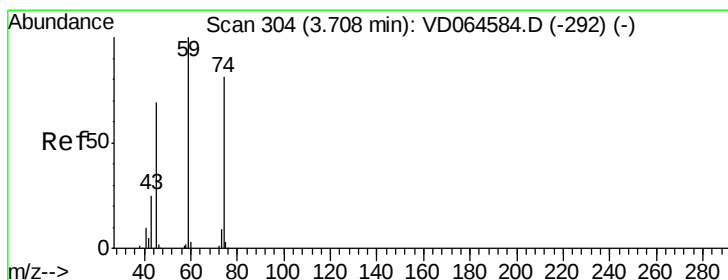
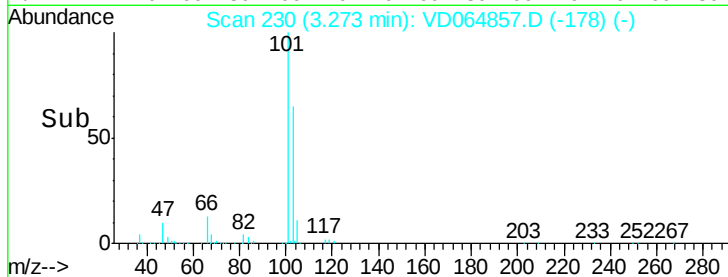
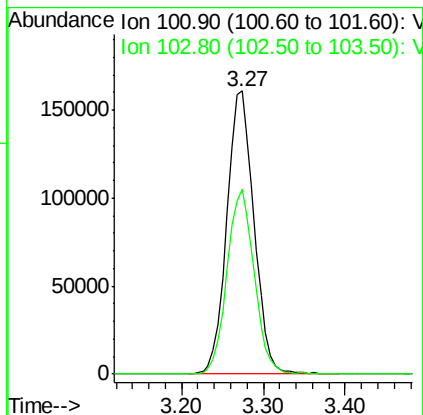
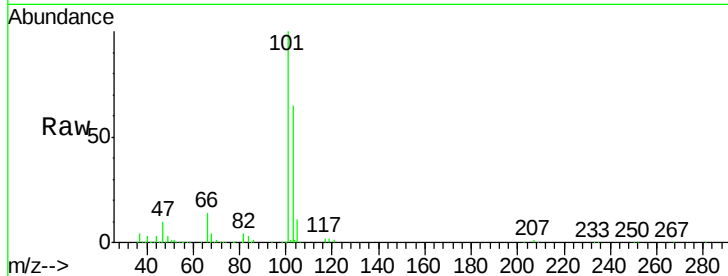
Trichlorofluoromethane
 Concen: 43.490 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.01 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.4	52.2	78.4

Manual Integrations
 APPROVED

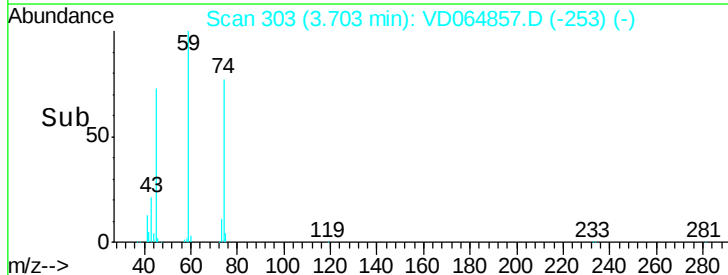
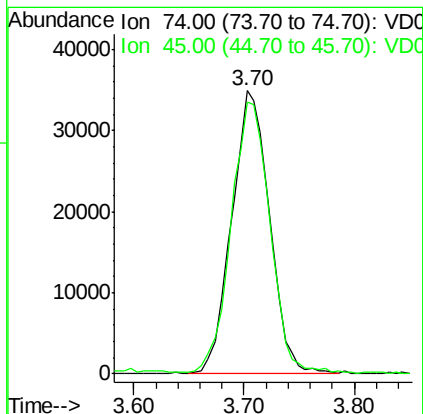
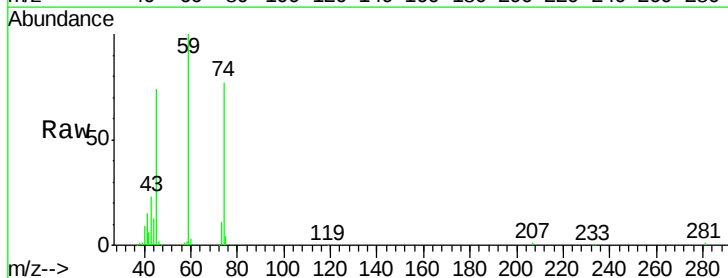
MMDadoda
 1/20/2020 11:14:08 AM

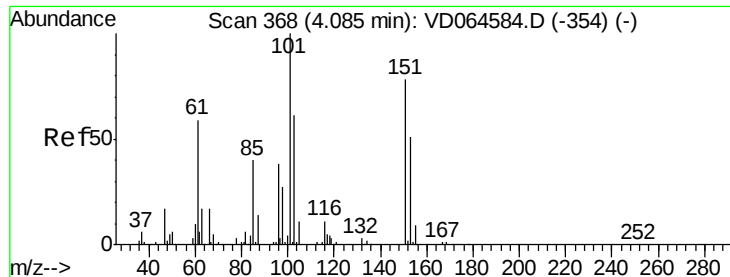


#8

Diethyl Ether
 Concen: 49.380 ug/l
 RT: 3.70 min Scan# 303
 Delta R.T. -0.01 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
74	100		
45	99.2	47.5	142.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.133 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

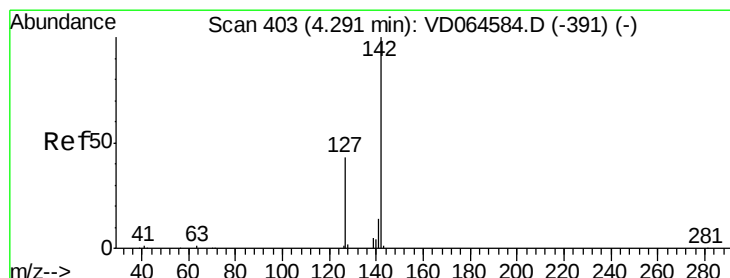
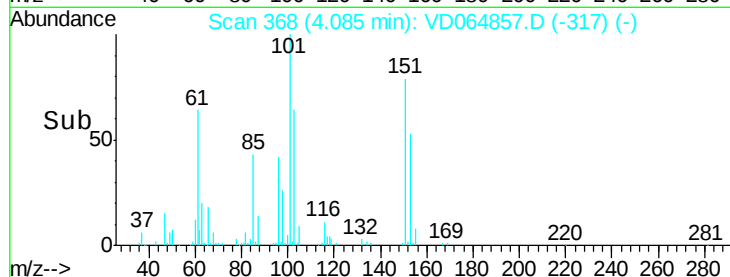
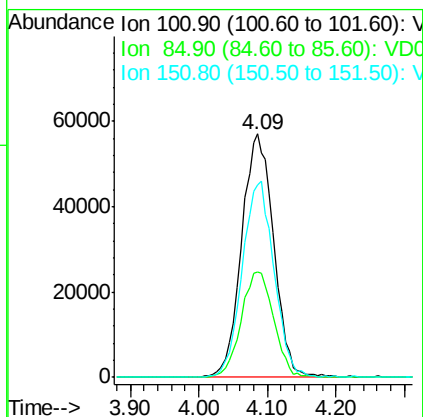
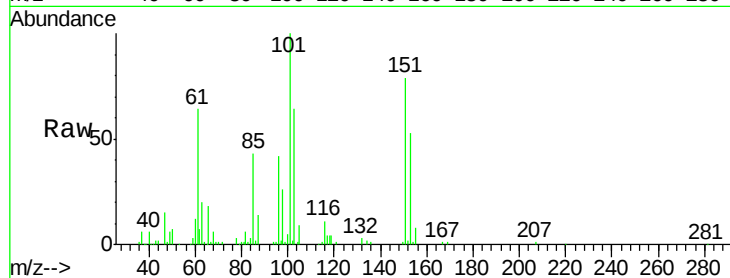
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	184979
Ion Ratio	Lower	Upper	
101	100		
85	43.8	35.2	52.8
151	79.9	66.2	99.4

Manual Integrations
APPROVED

MMDadoda
1/20/2020 11:14:08 AM



#10

Methyl Iodide

Concen: 49.288 ug/l

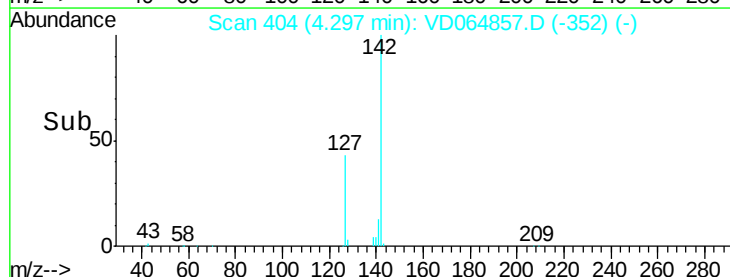
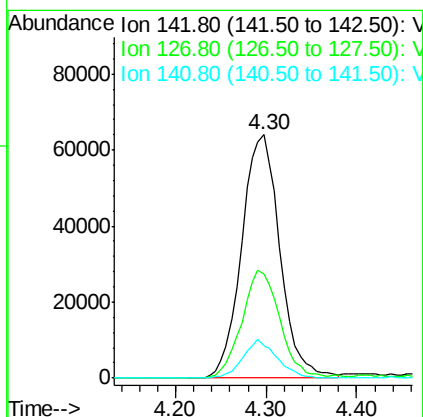
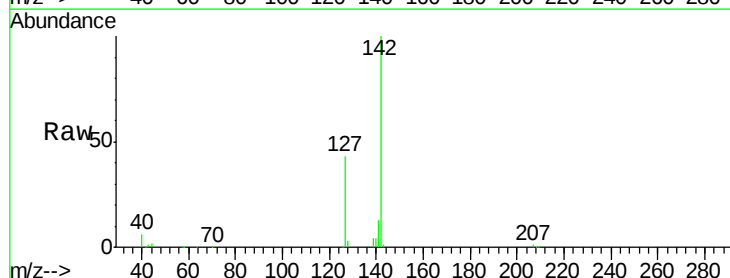
RT: 4.30 min Scan# 404

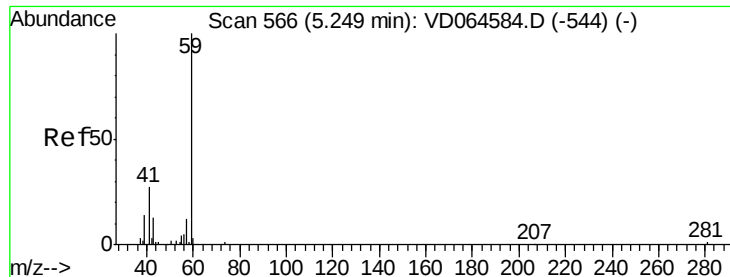
Delta R.T. 0.01 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Tgt Ion:	142	Resp:	187852
Ion Ratio	Lower	Upper	
142	100		
127	43.9	36.2	54.4
141	14.2	11.8	17.8





#11

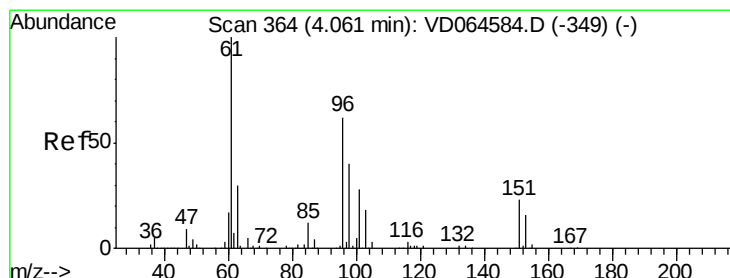
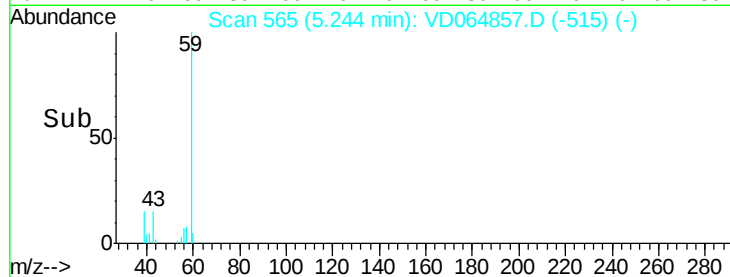
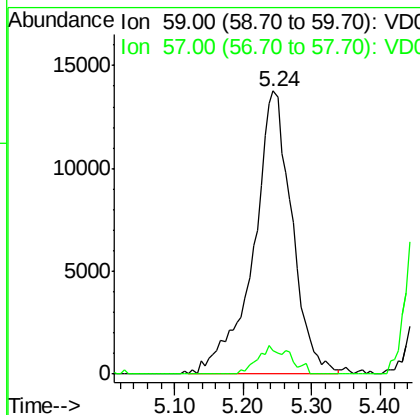
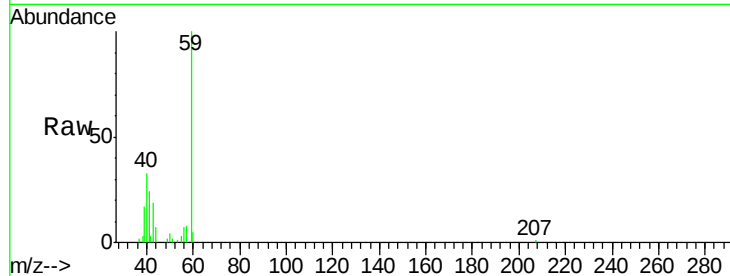
Tert butyl alcohol
 Concen: 277.374 ug/l
 RT: 5.24 min Scan# 565
 Delta R.T. -0.01 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	5.6	9.3	13.9#

Manual Integrations
 APPROVED

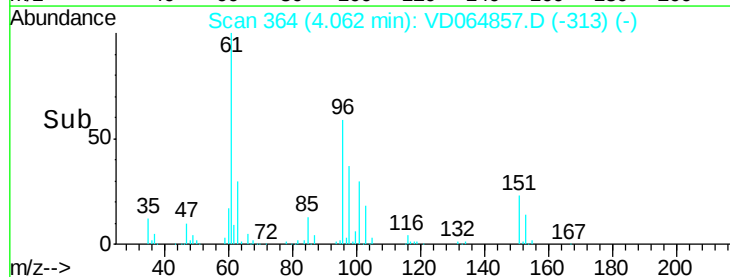
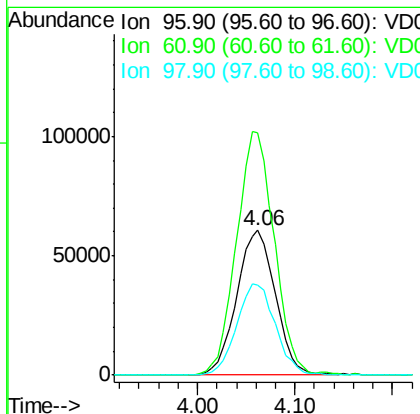
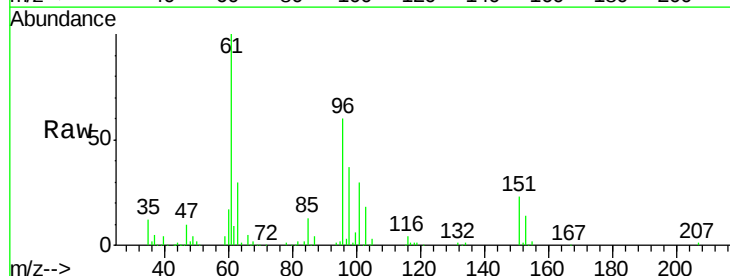
MMDadoda
 1/20/2020 11:14:08 AM

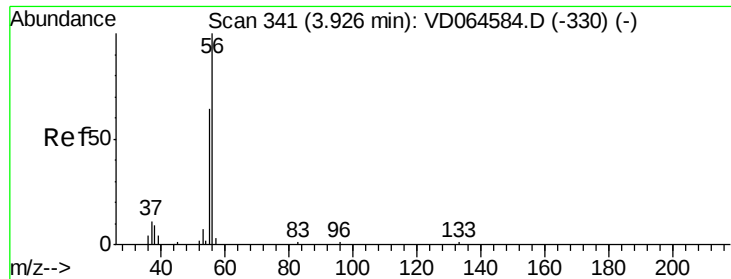


#12

1,1-Dichloroethene
 Concen: 49.567 ug/l
 RT: 4.06 min Scan# 364
 Delta R.T. 0.00 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.5	129.4	194.0
98	62.3	51.4	77.0





#13

Acrolein

Concen: 119.532 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 32324

Ion Ratio Lower Upper

56 100

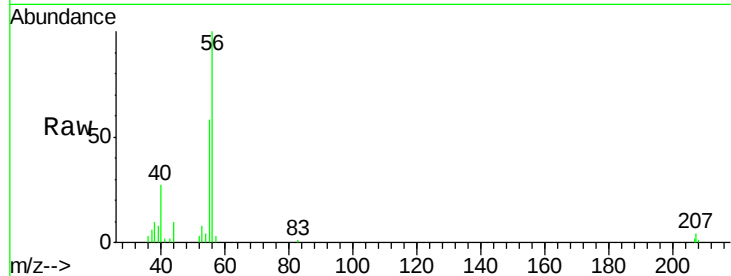
55 67.5 56.7 85.1

Manual Integrations

APPROVED

MMDadoda

1/20/2020 11:14:08 AM



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

15000

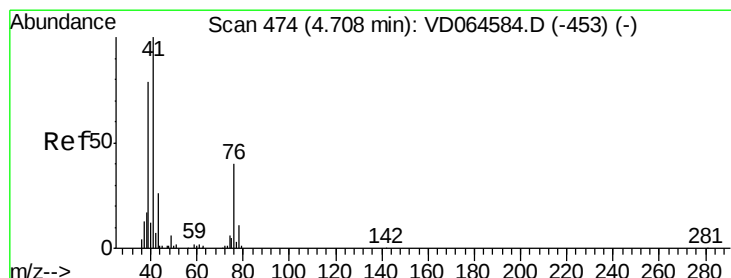
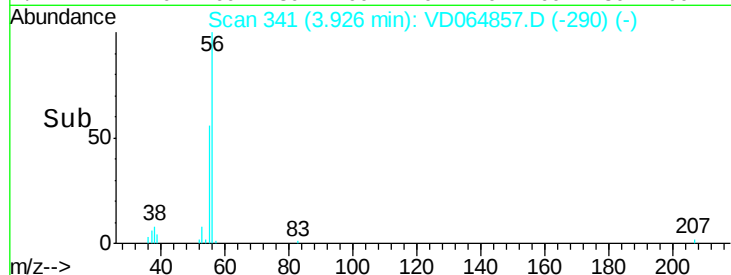
10000

5000

0

Time--> 3.80 3.90 4.00

3.93



#14

Allyl chloride

Concen: 53.950 ug/l

RT: 4.71 min Scan# 474

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

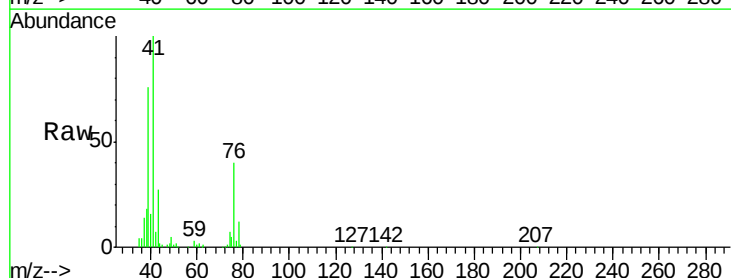
Tgt Ion: 41 Resp: 284147

Ion Ratio Lower Upper

41 100

39 75.1 62.3 93.5

76 36.8 29.7 44.5



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC

120000

100000

80000

60000

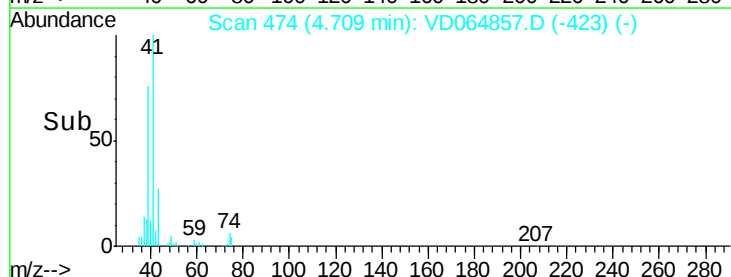
40000

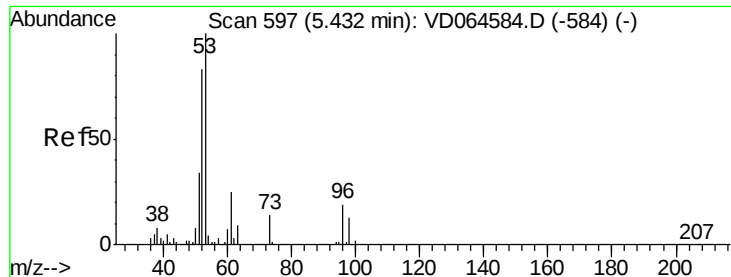
20000

0

Time--> 4.50 4.60 4.70 4.80

4.71





#15

Acrylonitrile

Concen: 256.117 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

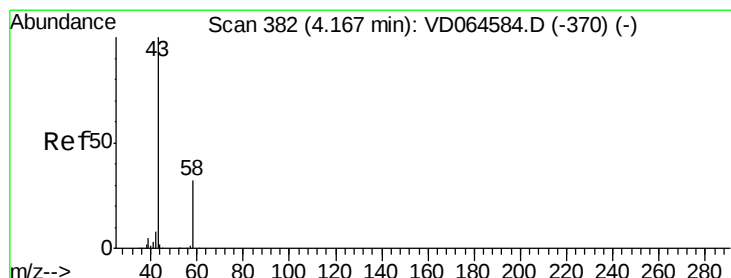
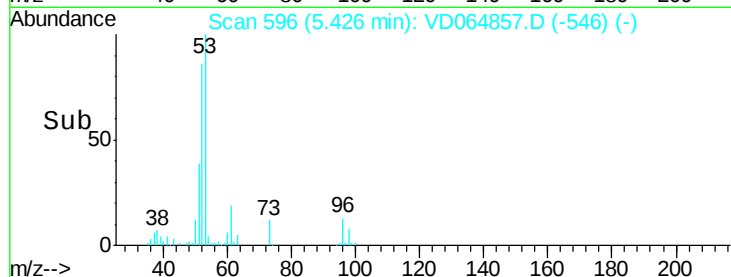
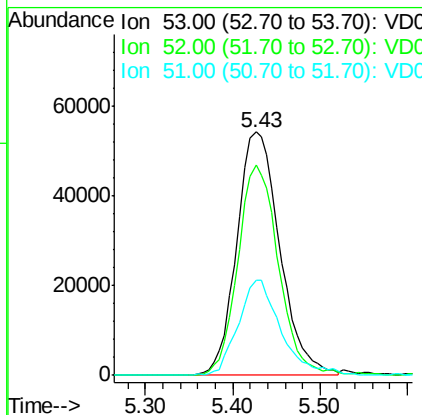
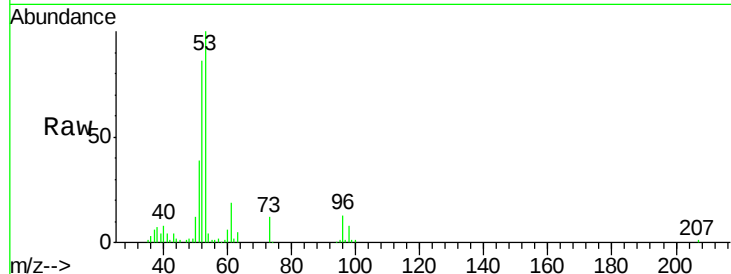
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	181500
Ion Ratio		Lower	Upper
53	100		
52	81.6	66.2	99.2
51	39.0	30.1	45.1

Manual Integrations
APPROVED

MMDadoda
1/20/2020 11:14:08 AM



#16

Acetone

Concen: 314.645 ug/l

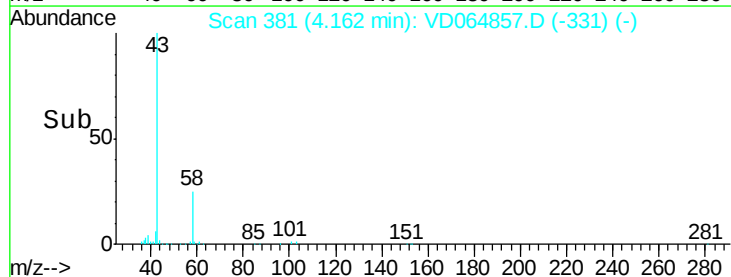
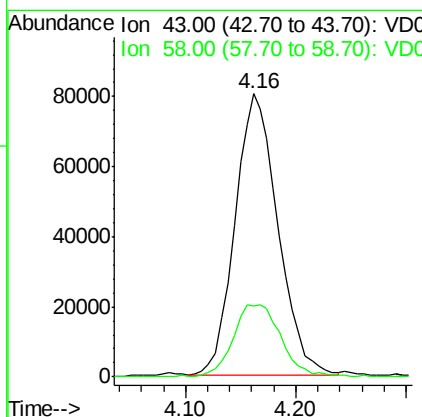
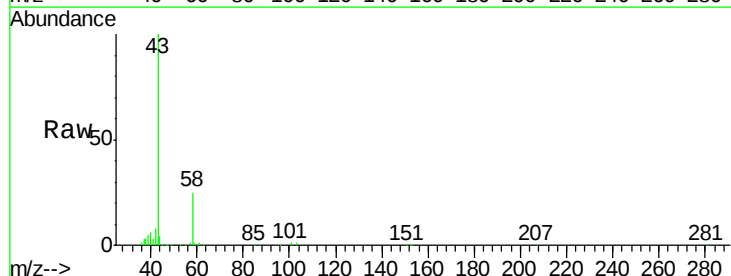
RT: 4.16 min Scan# 381

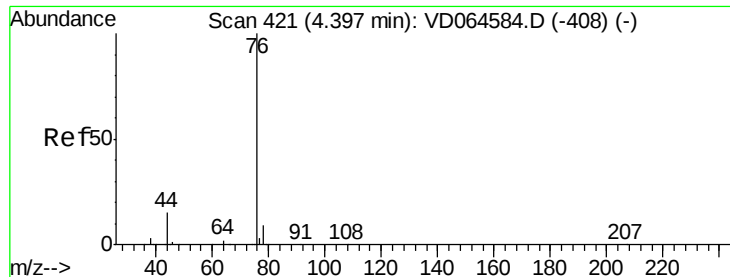
Delta R.T. -0.01 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Tgt Ion:	43	Resp:	217930
Ion Ratio		Lower	Upper
43	100		
58	25.3	25.8	38.6#





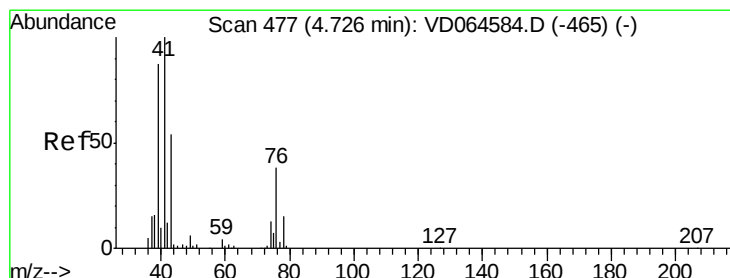
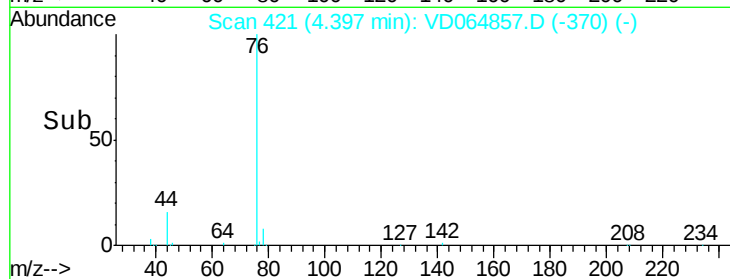
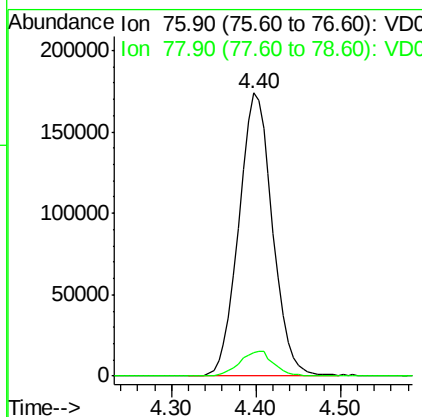
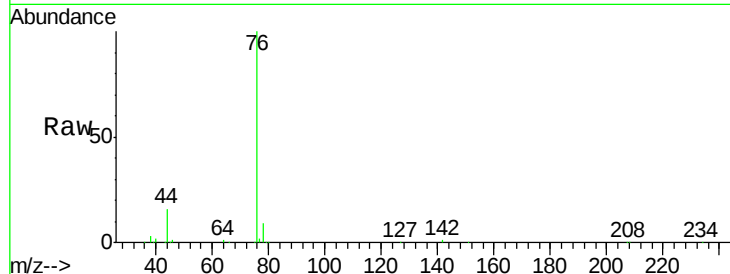
#17
Carbon Disulfide
Concen: 44.051 ug/l
RT: 4.40 min Scan# 421
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.3	10.9

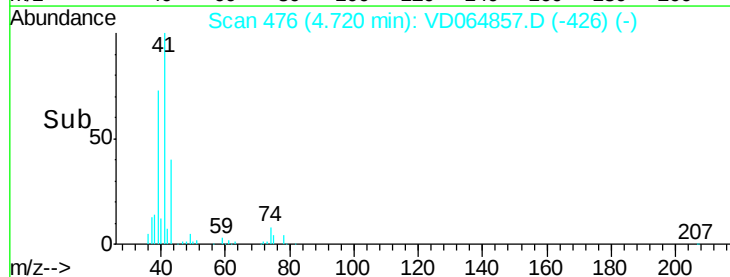
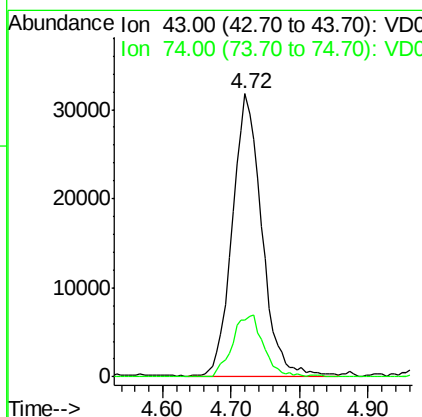
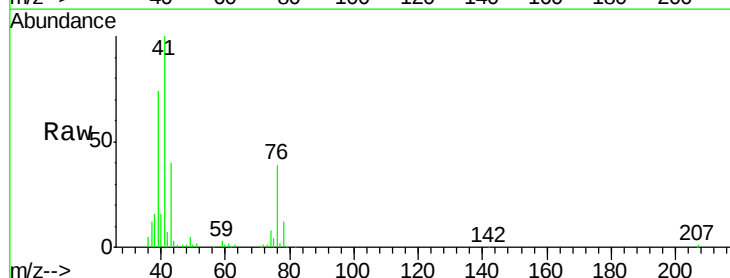
Manual Integrations
APPROVED

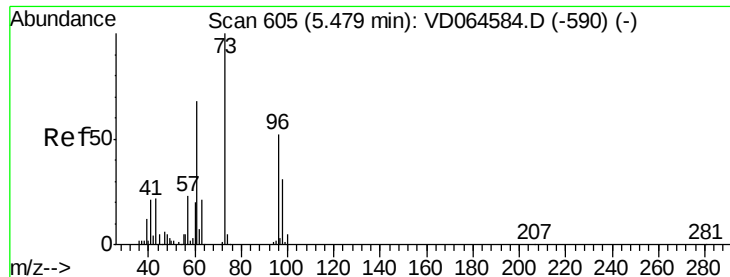
MMDadoda
1/20/2020 11:14:08 AM



#18
Methyl Acetate
Concen: 50.142 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.01 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.7	19.2	28.8





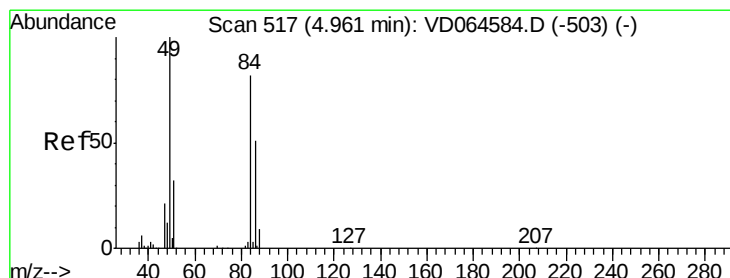
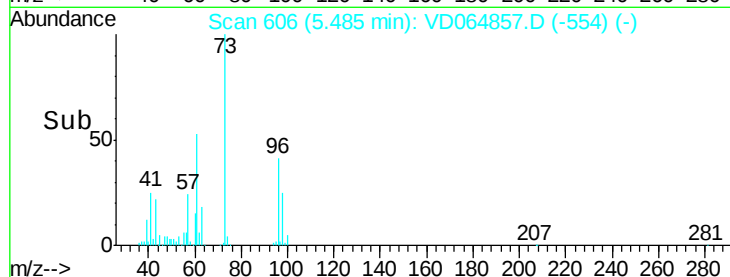
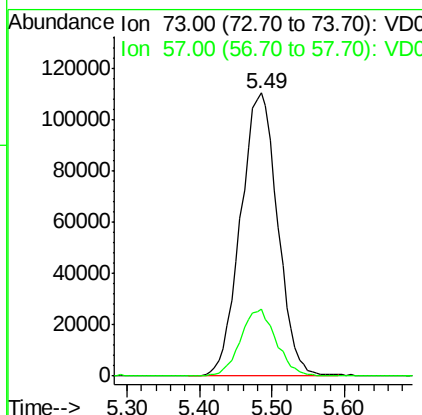
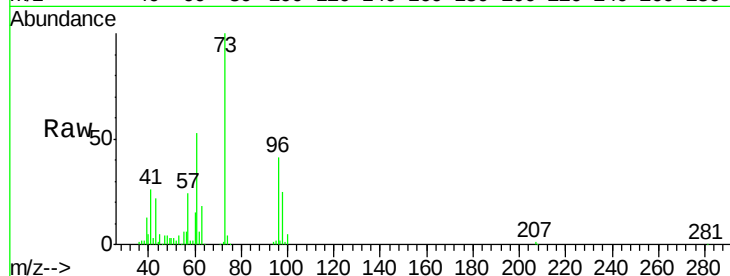
#19
Methyl tert-butyl Ether
Concen: 52.157 ug/l
RT: 5.49 min Scan# 606
Delta R.T. 0.01 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 391339
Ion Ratio Lower Upper
73 100
57 23.6 18.6 27.8

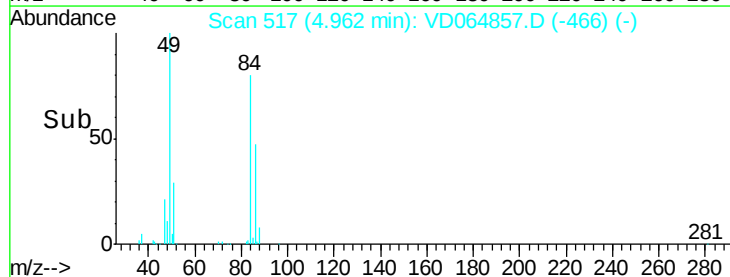
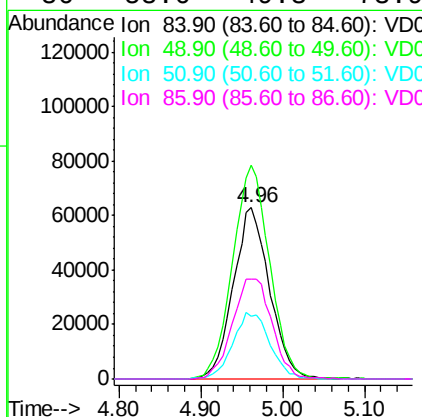
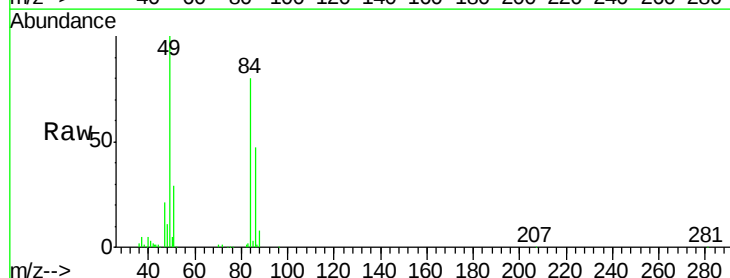
Manual Integrations
APPROVED

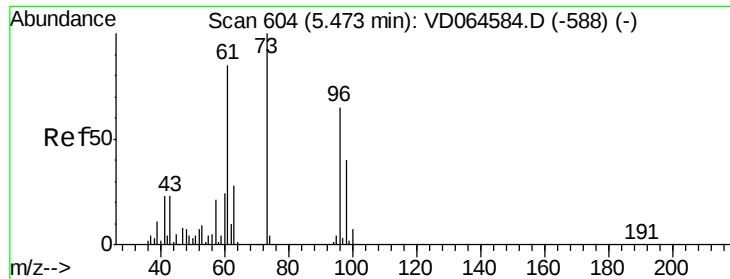
MMDadoda
1/20/2020 11:14:08 AM



#20
Methylene Chloride
Concen: 56.700 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion: 84 Resp: 194065
Ion Ratio Lower Upper
84 100
49 124.9 97.2 145.8
51 36.6 31.4 47.0
86 58.6 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 49.990 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

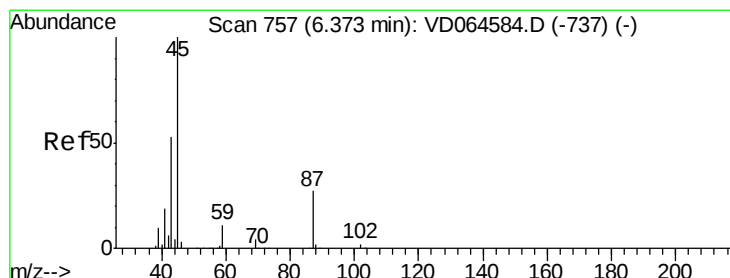
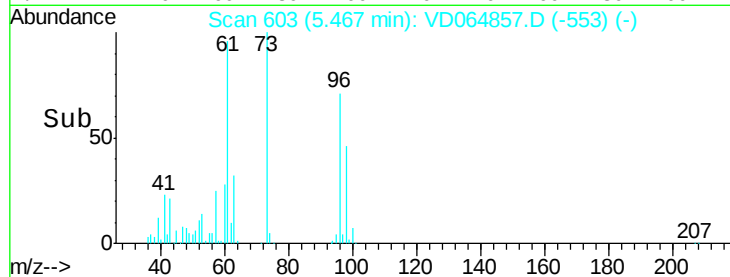
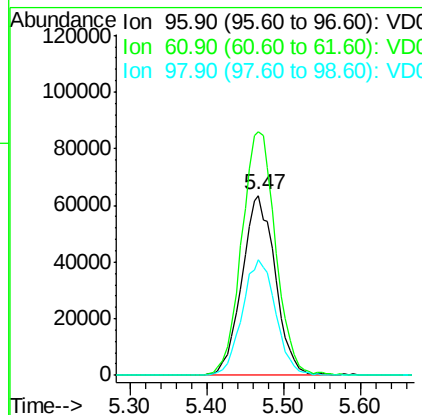
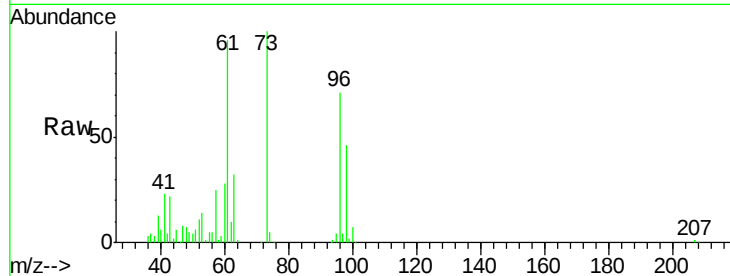
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	192316
Ion	Ratio	Lower	Upper
96	100		
61	135.5	104.7	157.1
98	64.0	49.4	74.2

Manual Integrations
APPROVED

MMDadoda
1/20/2020 11:14:08 AM



#22

Diisopropyl ether

Concen: 54.216 ug/l

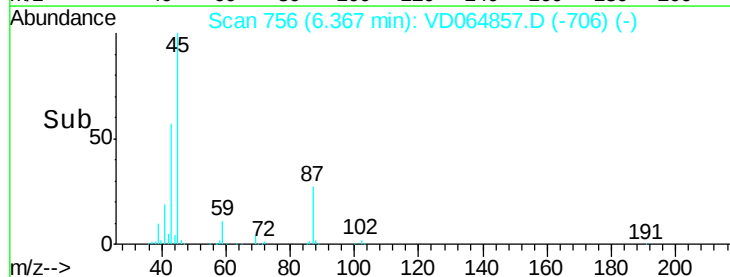
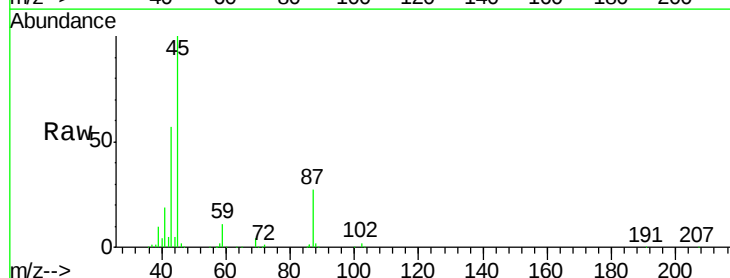
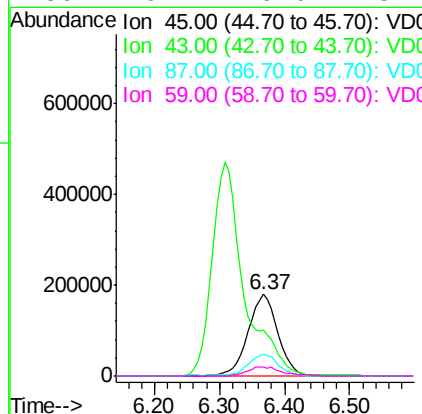
RT: 6.37 min Scan# 756

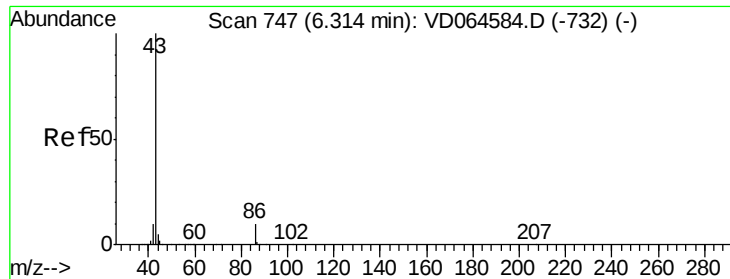
Delta R.T. -0.01 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Tgt Ion:	45	Resp:	569538
Ion	Ratio	Lower	Upper
45	100		
43	55.8	43.2	64.8
87	27.0	21.9	32.9
59	10.7	9.0	13.4





#23

Vinyl Acetate

Concen: 267.744 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1595516

Ion Ratio Lower Upper

43 100

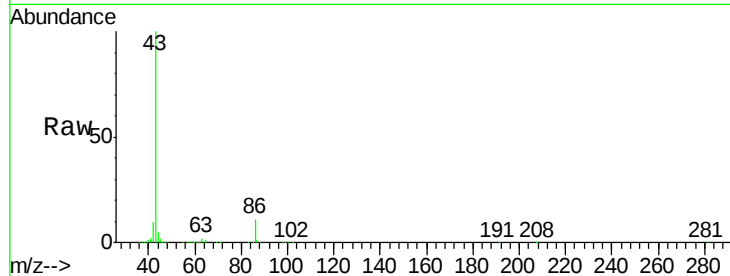
86 10.6 8.3 12.5

Manual Integrations

APPROVED

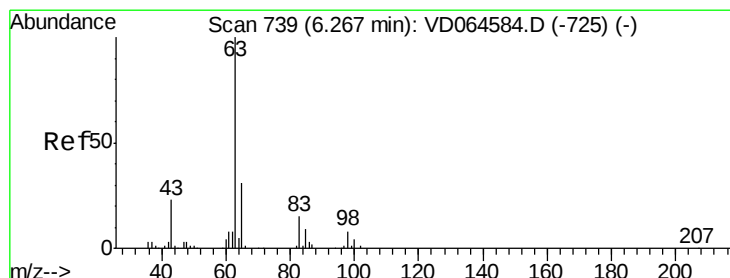
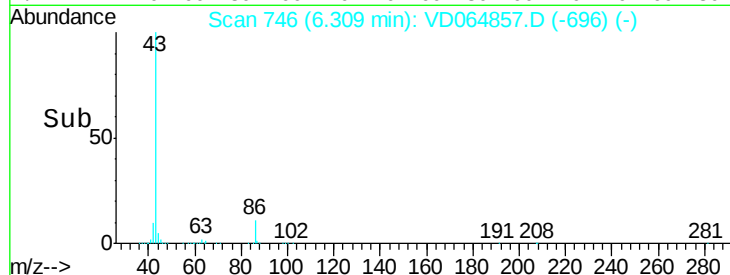
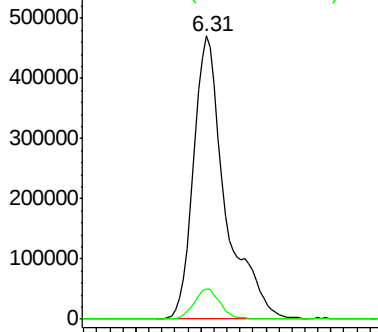
MMDadoda

1/20/2020 11:14:08 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 54.724 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

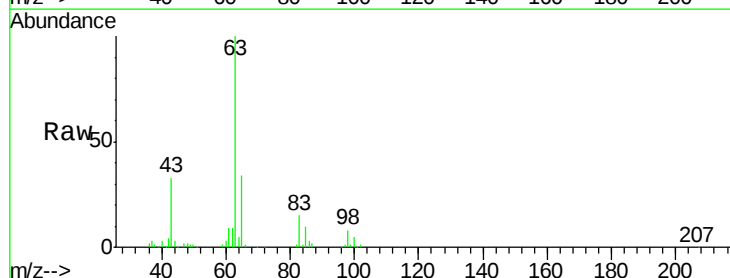
Tgt Ion: 63 Resp: 345121

Ion Ratio Lower Upper

63 100

98 8.3 4.1 12.3

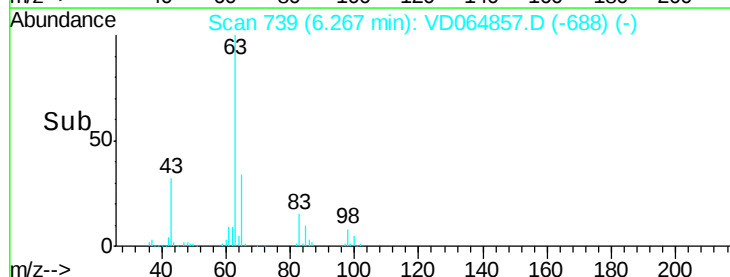
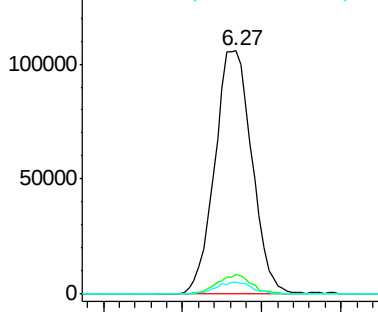
100 4.7 2.2 6.6

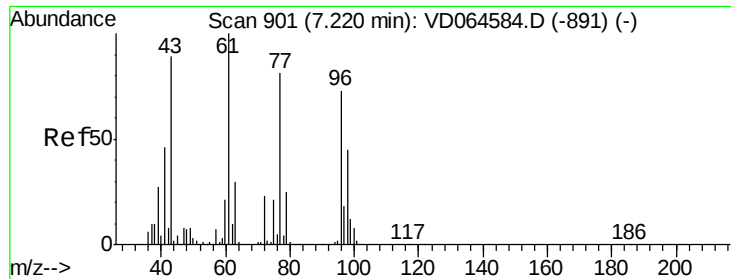


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 270.832 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 252052

Ion Ratio Lower Upper

43 100

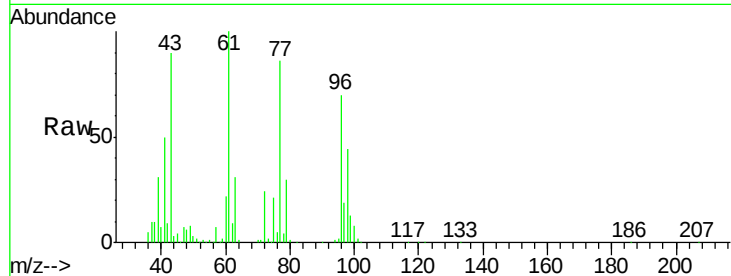
72 27.1 20.7 31.1

Manual Integrations

APPROVED

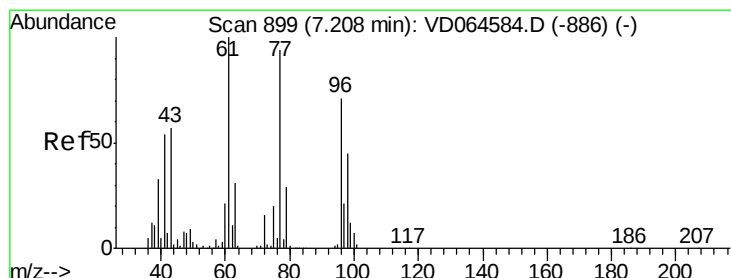
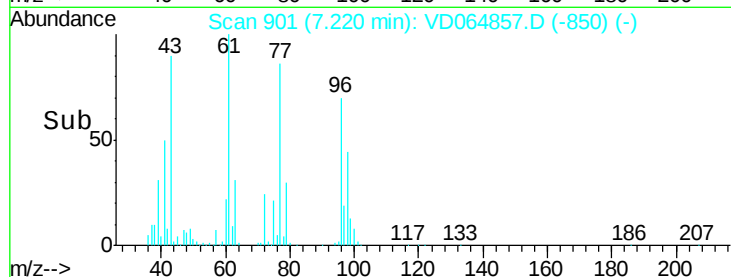
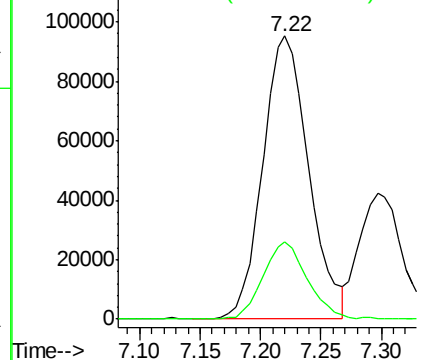
MMDadoda

1/20/2020 11:14:08 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 54.479 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD064857.D

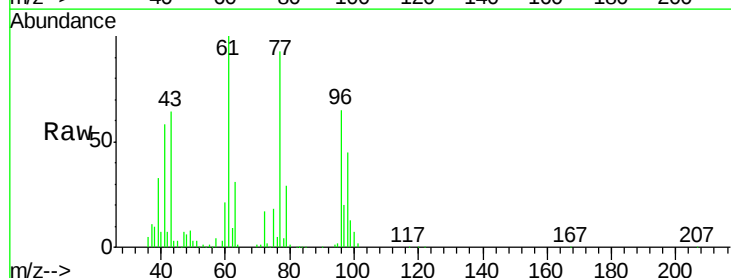
Acq: 17 Jan 2020 12:17

Tgt Ion: 77 Resp: 319438

Ion Ratio Lower Upper

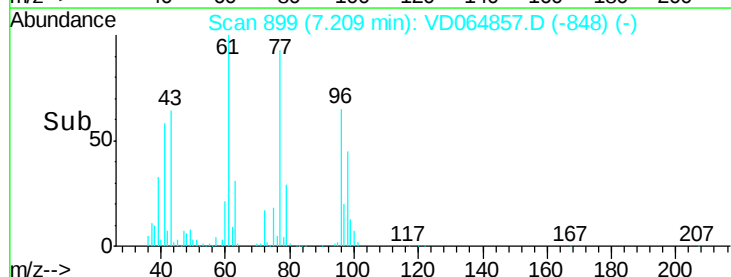
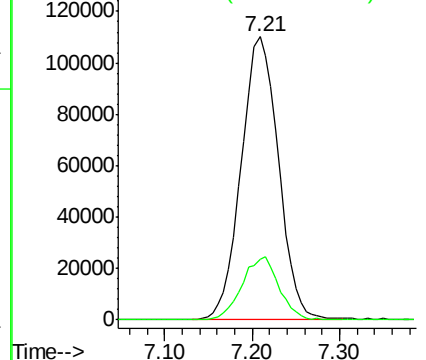
77 100

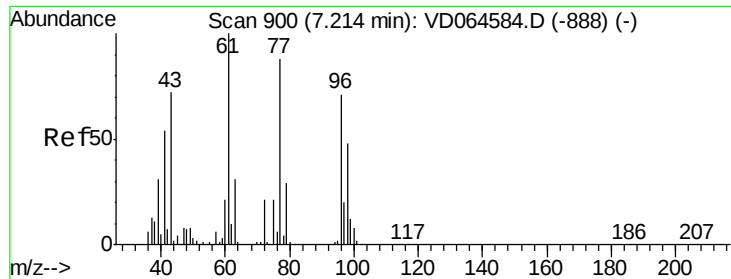
97 22.1 11.2 33.6



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





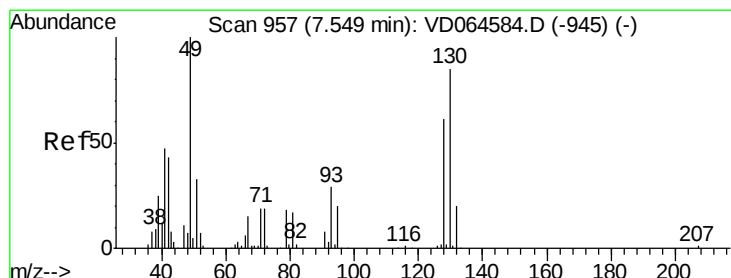
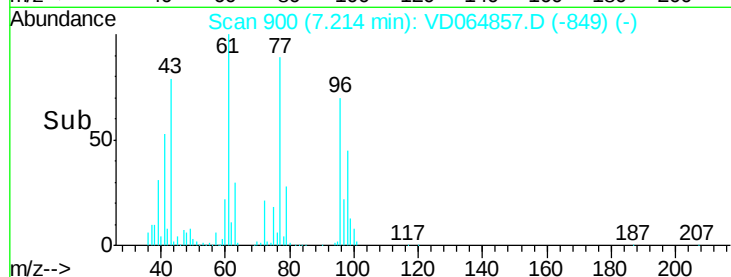
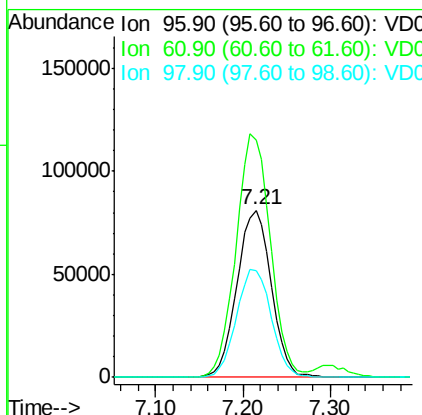
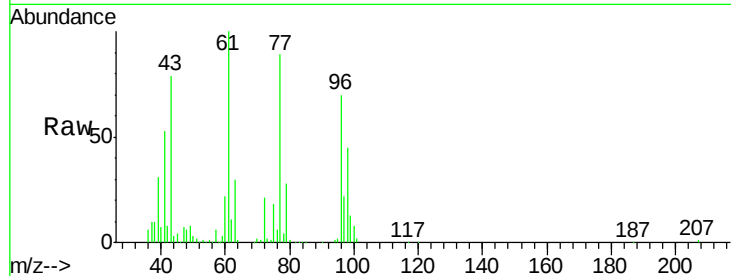
#27
 cis-1,2-Dichloroethene
 Concen: 51.949 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	215686		
61	146.0	0.0	282.6	
98	65.6	0.0	130.8	

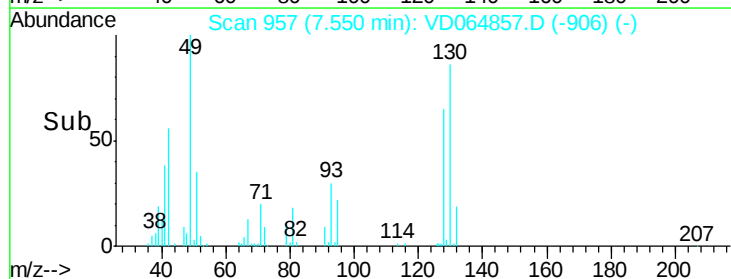
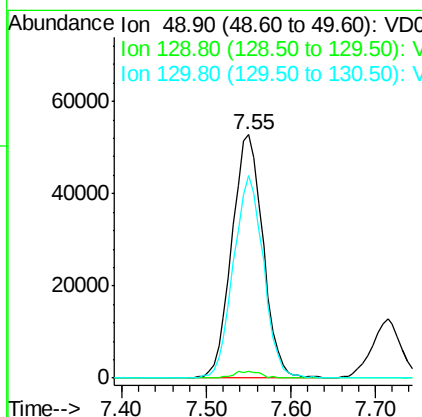
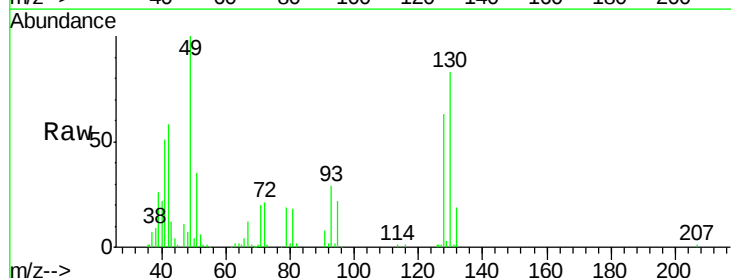
Manual Integrations
 APPROVED

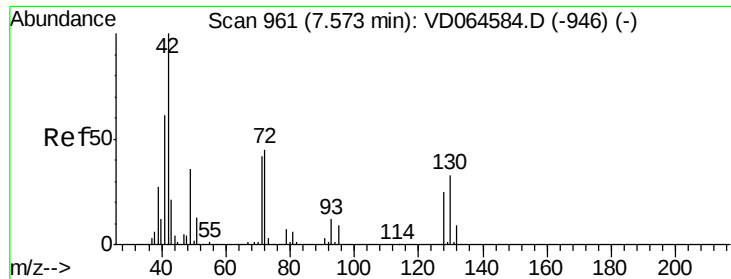
MMDadoda
 1/20/2020 11:14:08 AM



#28
 Bromochloromethane
 Concen: 54.896 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. 0.00 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	134579		
129	2.3	0.0	4.8	
130	80.1	65.0	97.6	





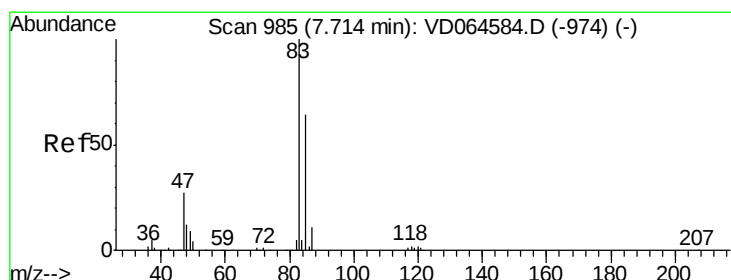
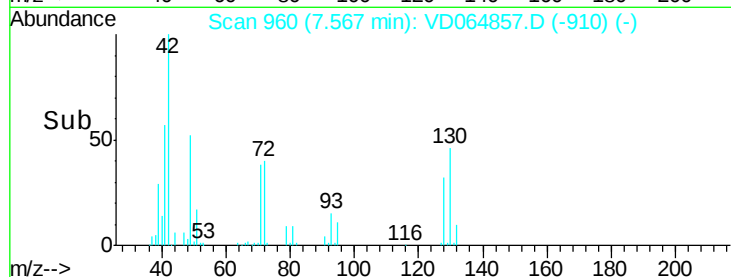
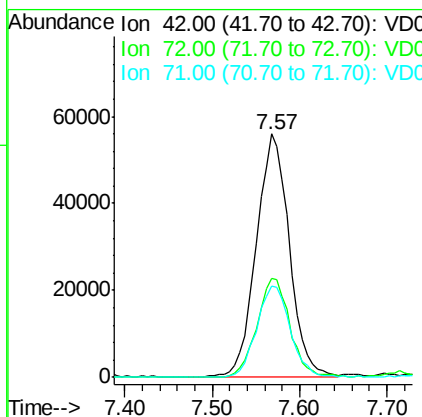
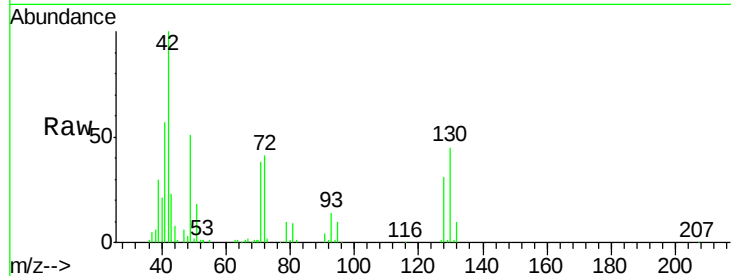
#29
Tetrahydrofuran
Concen: 251.797 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.7	35.0	52.4
71	38.0	32.9	49.3

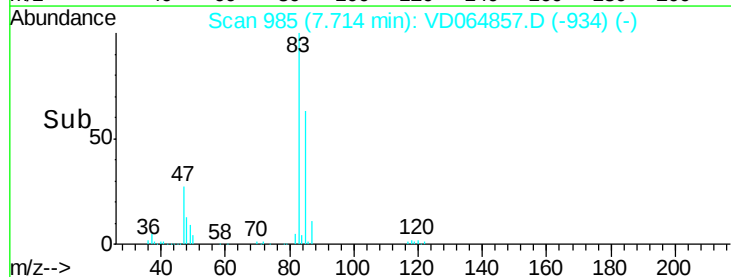
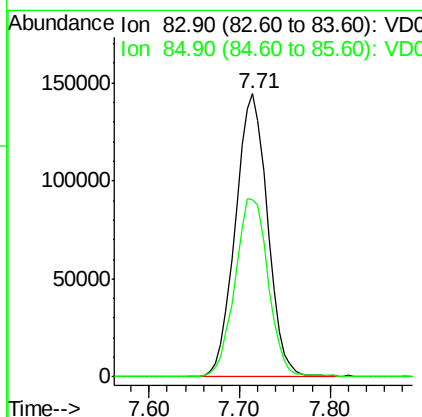
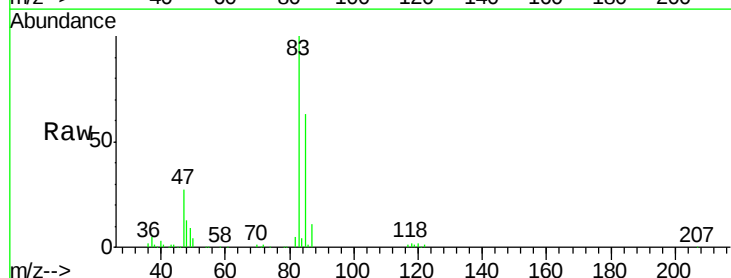
Manual Integrations
APPROVED

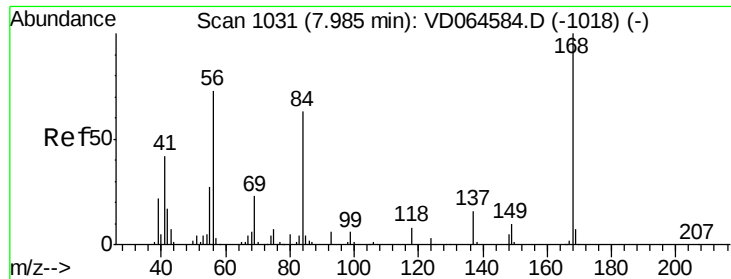
MMDadoda
1/20/2020 11:14:08 AM



#30
Chloroform
Concen: 53.854 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.8	51.1	76.7





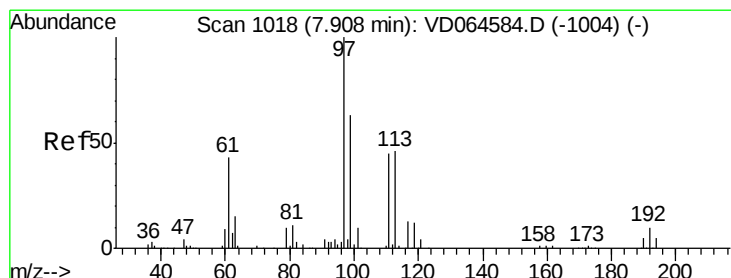
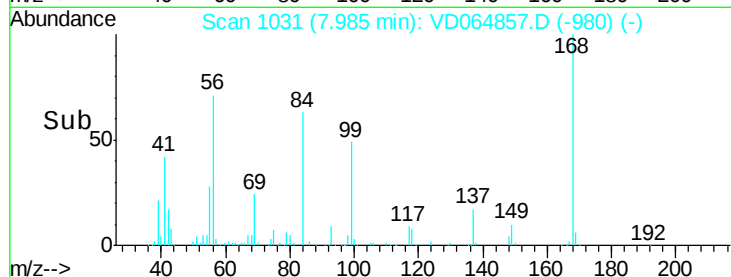
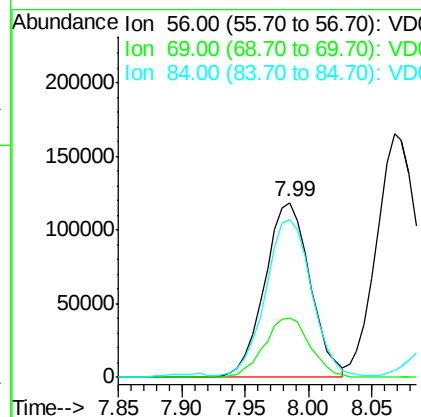
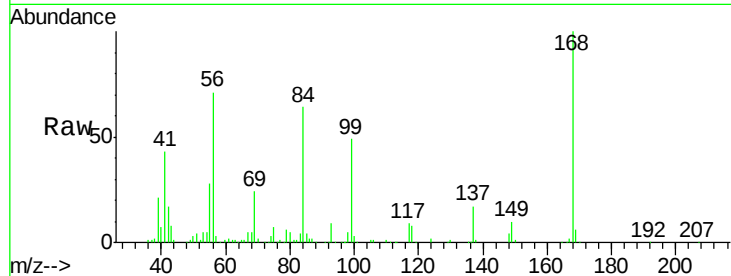
#31
Cyclohexane
Concen: 46.893 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.2	24.7	37.1
84	88.8	69.4	104.2

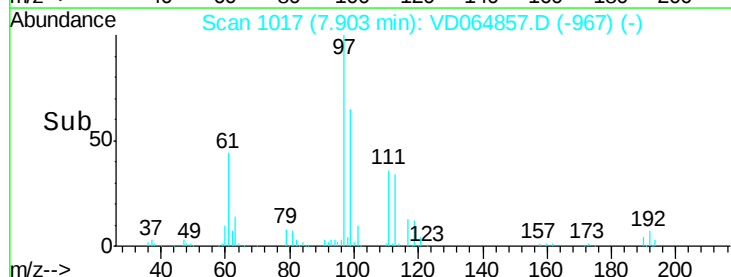
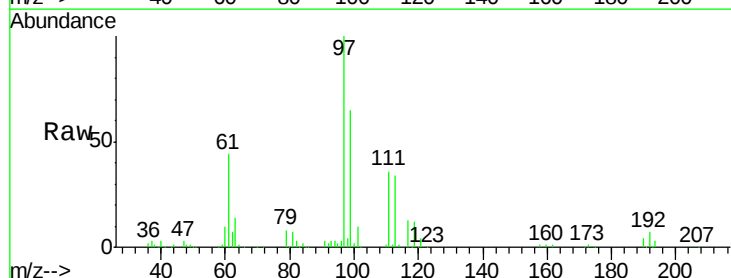
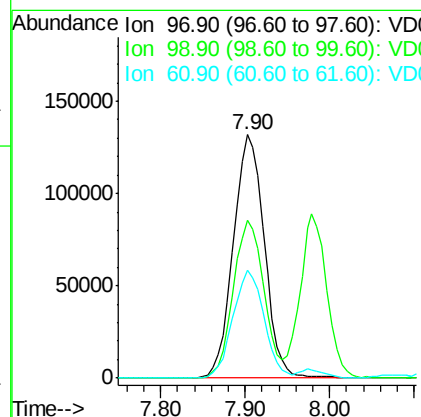
Manual Integrations
APPROVED

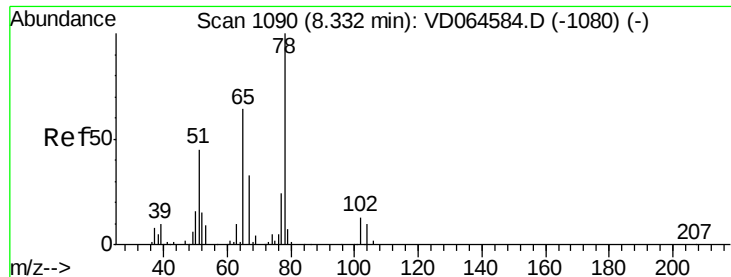
MMDadoda
1/20/2020 11:14:08 AM



#32
1,1,1-Trichloroethane
Concen: 53.617 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.0	76.6
61	44.5	35.4	53.0





#33

1,2-Dichloroethane-d4

Concen: 52.144 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 176544

Ion Ratio Lower Upper

65 100

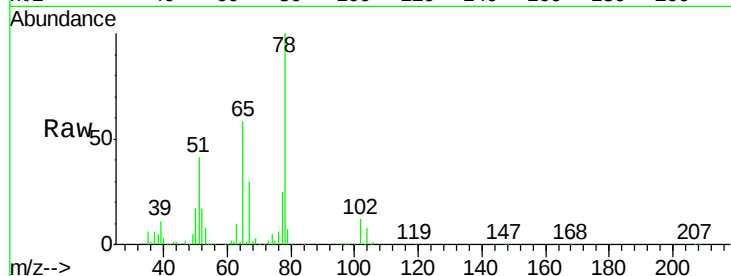
67 52.6 0.0 106.2

Manual Integrations

APPROVED

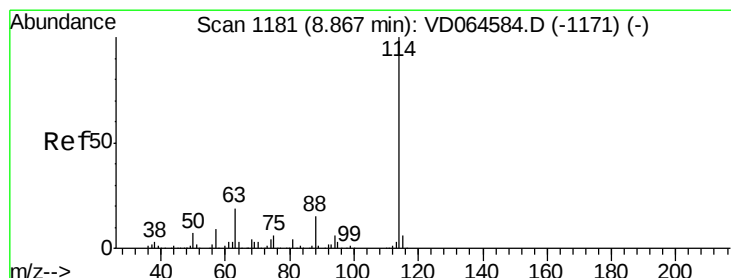
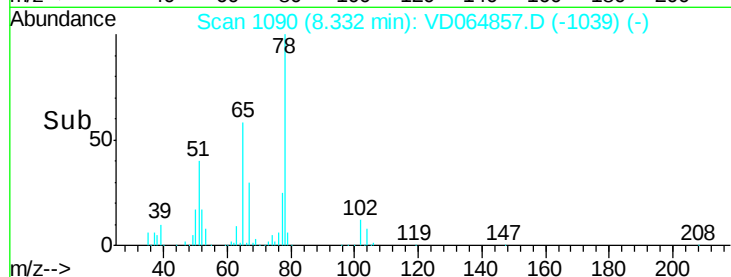
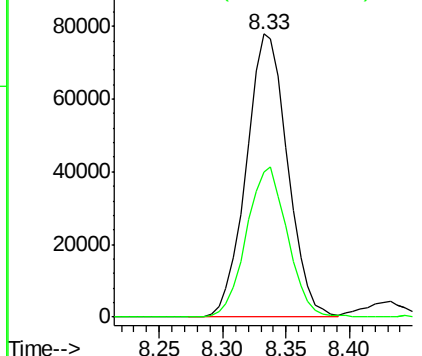
MMDadoda

1/20/2020 11:14:08 AM



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

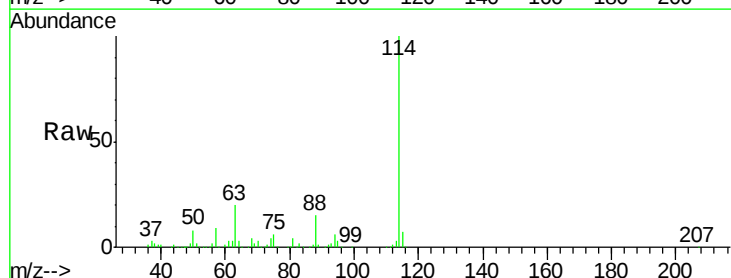
Tgt Ion: 114 Resp: 553117

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.0

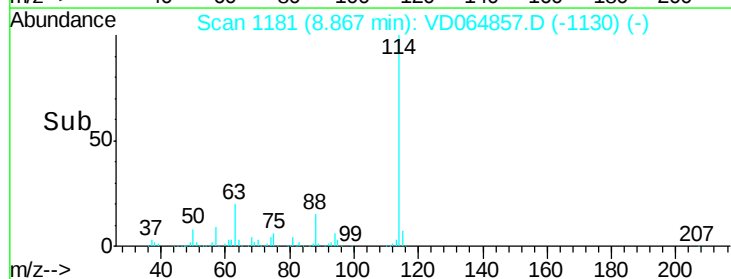
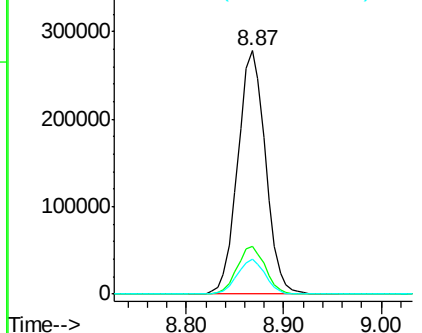
88 14.6 0.0 29.2

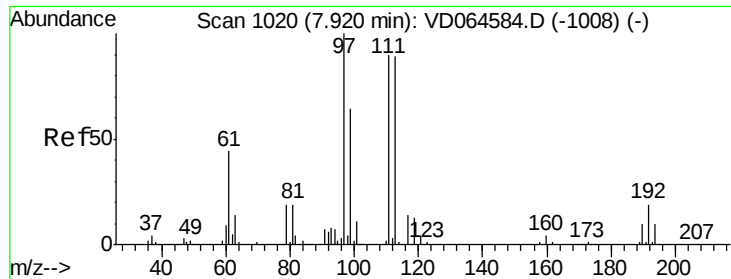


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 52.957 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

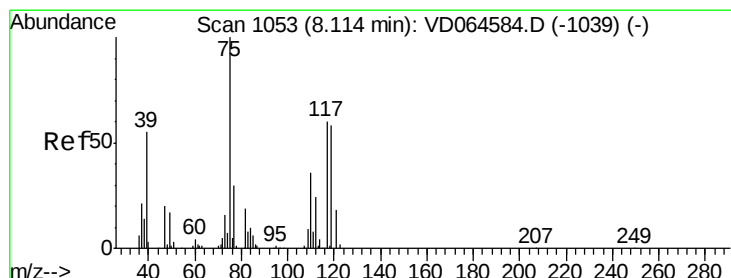
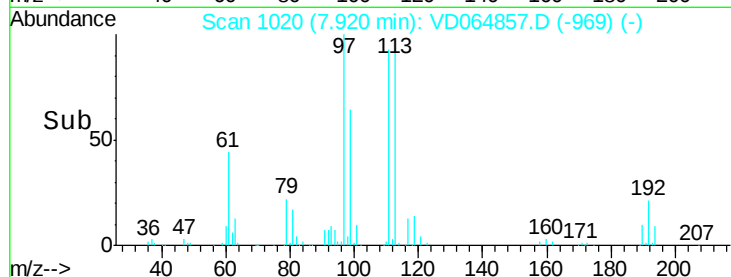
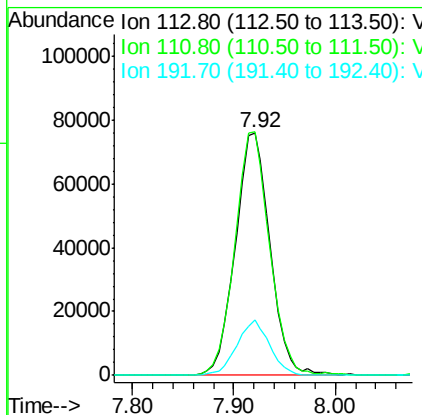
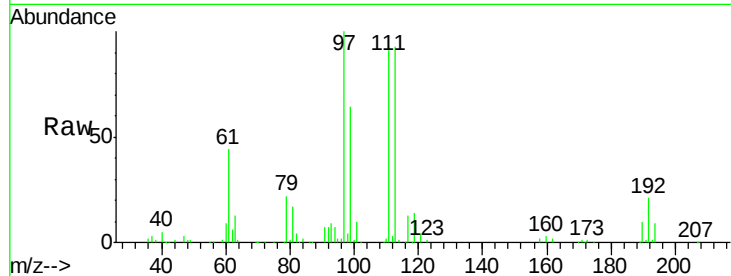
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	179707		
111	101.0	80.6	121.0	
192	21.7	17.9	26.9	

Manual Integrations
APPROVED

MMDadoda
1/20/2020 11:14:08 AM



#36

1,1-Dichloropropene

Concen: 51.195 ug/l

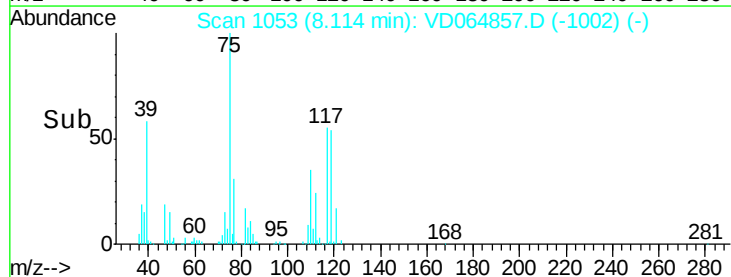
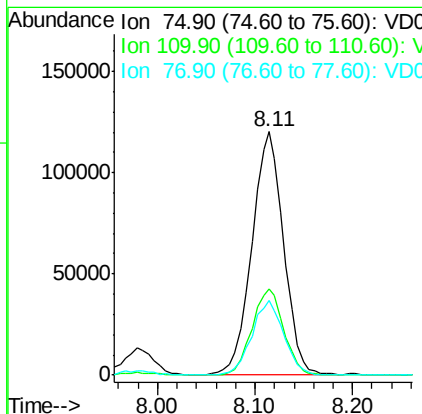
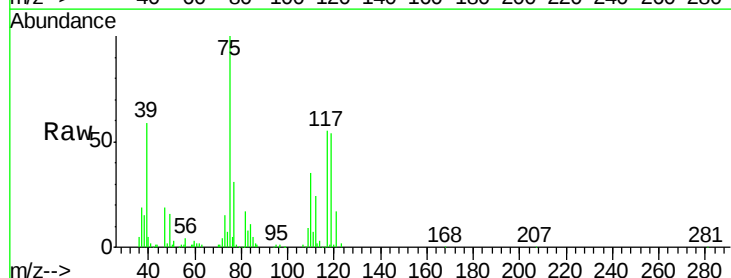
RT: 8.11 min Scan# 1053

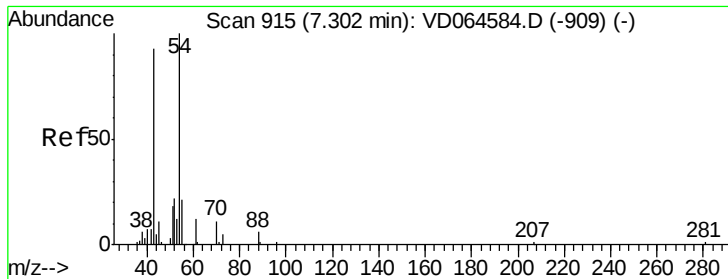
Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	272550		
110	35.8	18.1	54.1	
77	31.2	24.2	36.4	





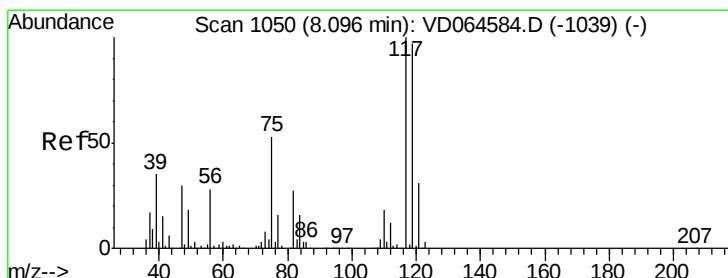
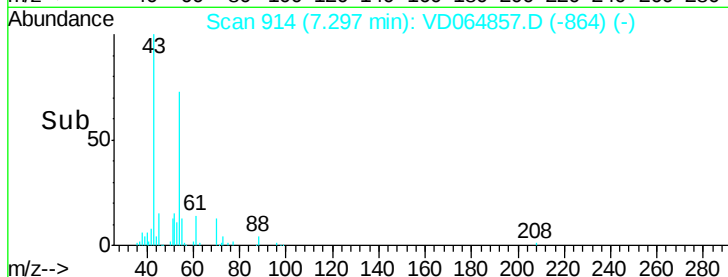
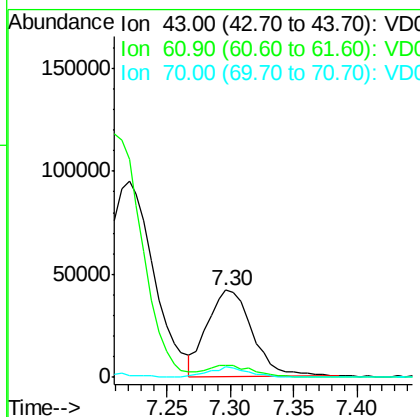
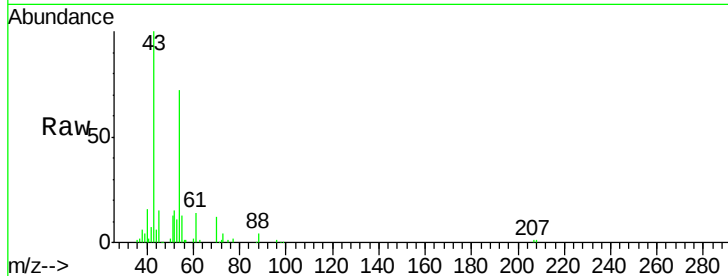
#37
Ethyl Acetate
Concen: 49.320 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	10.3	15.5
70	10.4	7.6	11.4

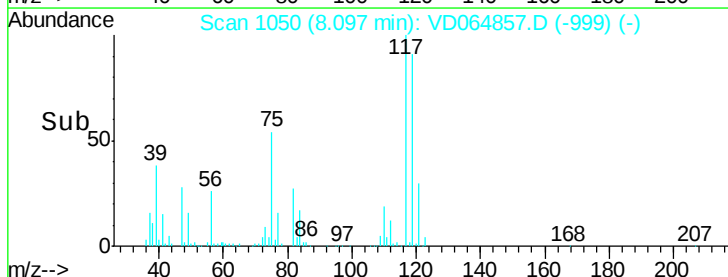
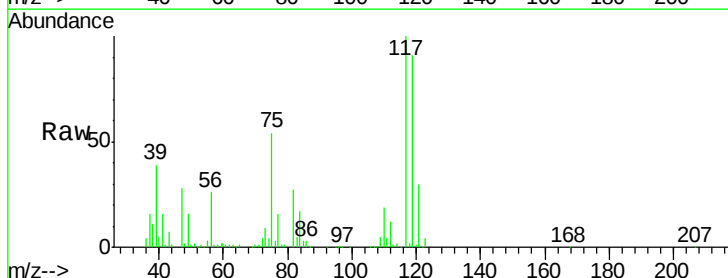
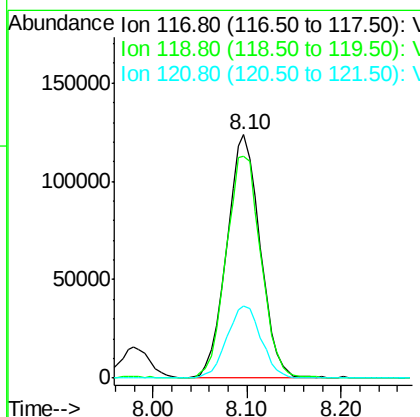
Manual Integrations
APPROVED

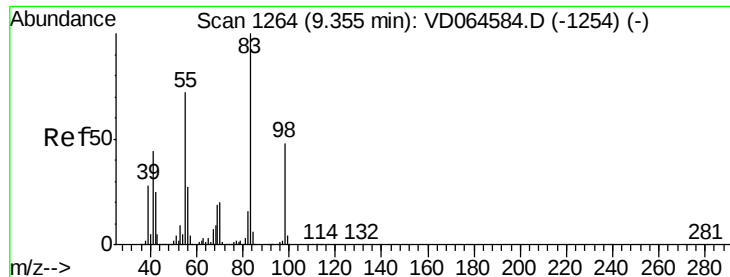
MMDadoda
1/20/2020 11:14:08 AM



#38
Carbon Tetrachloride
Concen: 53.825 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	90.9	77.3	115.9
121	29.6	25.0	37.6





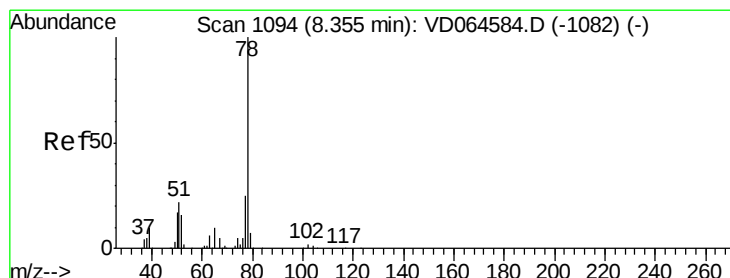
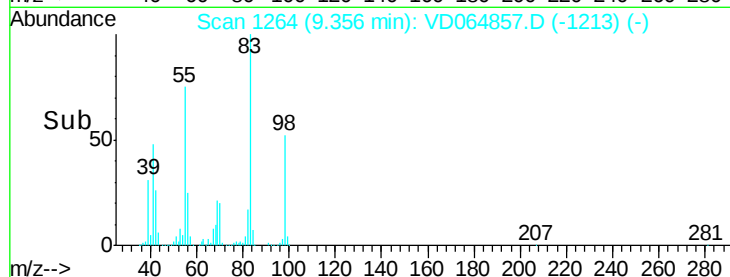
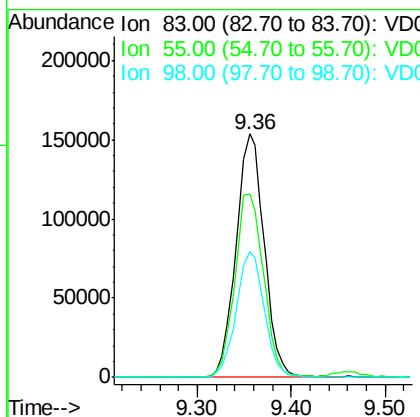
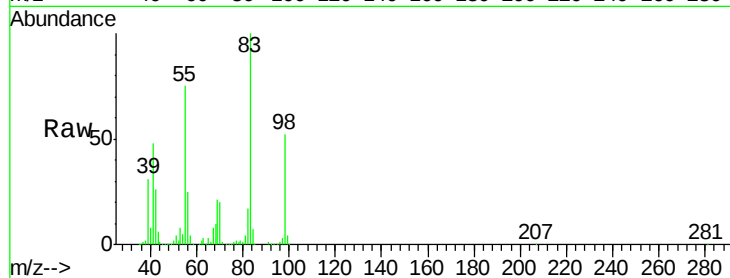
#39
Methvlcvclohexane
Concen: 49.517 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.2	57.8	86.6
98	51.8	38.7	58.1

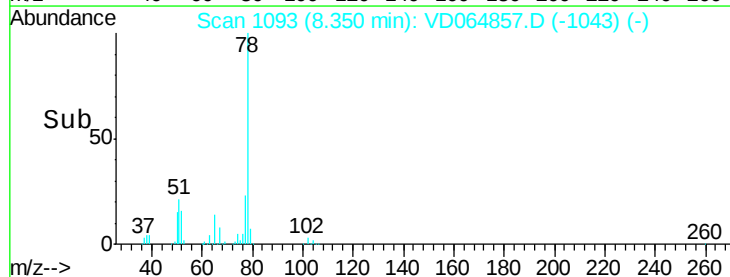
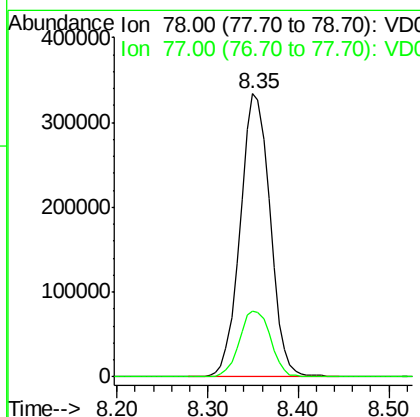
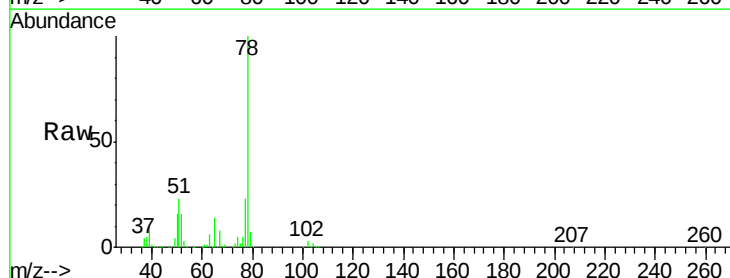
Manual Integrations
APPROVED

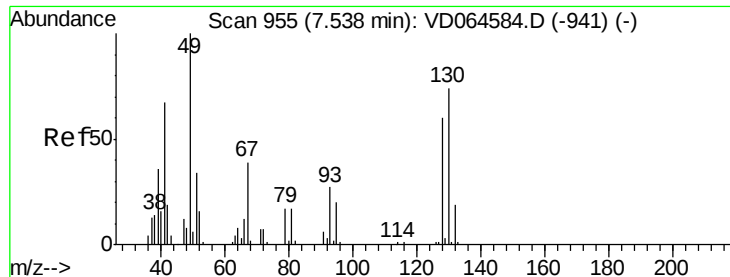
MMDadoda
1/20/2020 11:14:08 AM



#40
Benzene
Concen: 52.628 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.9	29.9





#41

Methacrylonitrile

Concen: 52.938 ug/l

RT: 7.53 min Scan# 953

Delta R.T. -0.01 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 64238

Ion Ratio Lower Upper

41 100

39 55.9 46.7 70.1

67 67.3 52.5 78.7

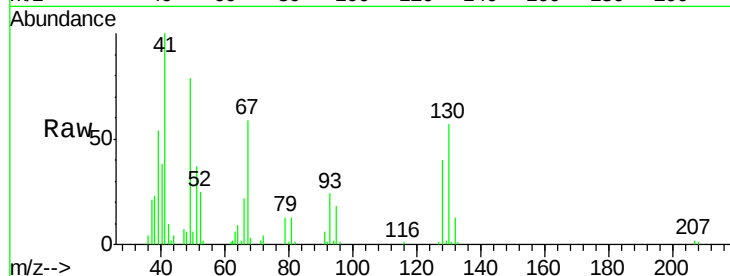
52 30.2 24.1 36.1

Manual Integrations

APPROVED

MMDadoda

1/20/2020 11:14:08 AM

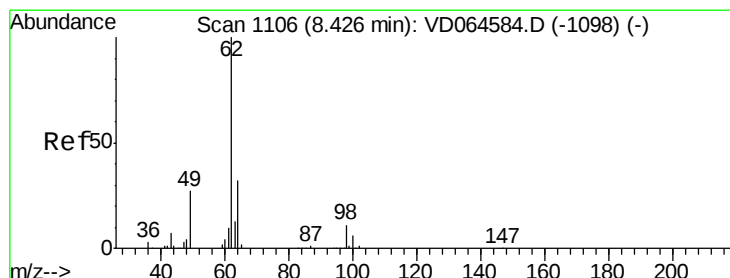
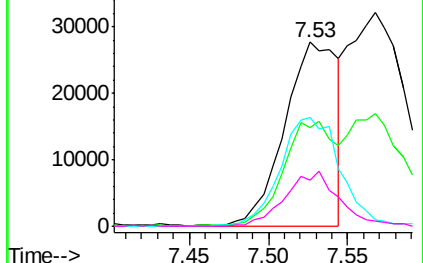
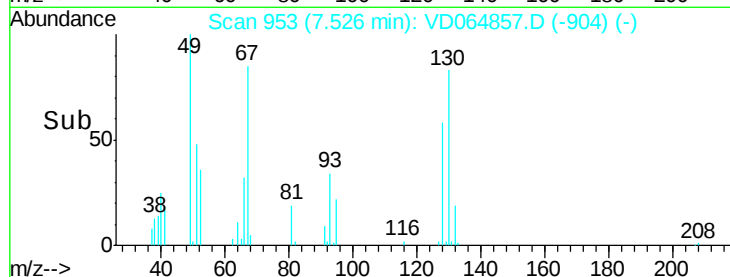


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 53.033 ug/l

RT: 8.43 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VD064857.D

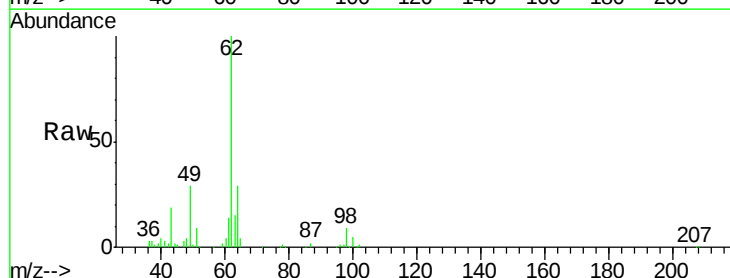
Acq: 17 Jan 2020 12:17

Tgt Ion: 62 Resp: 222724

Ion Ratio Lower Upper

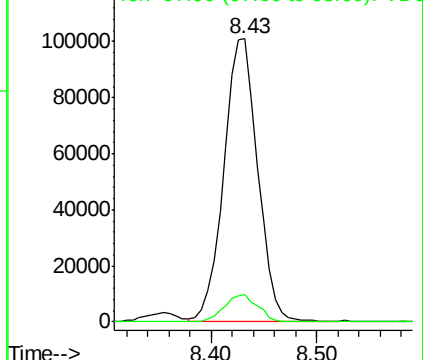
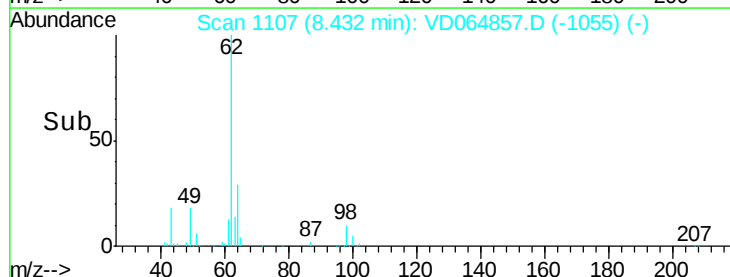
62 100

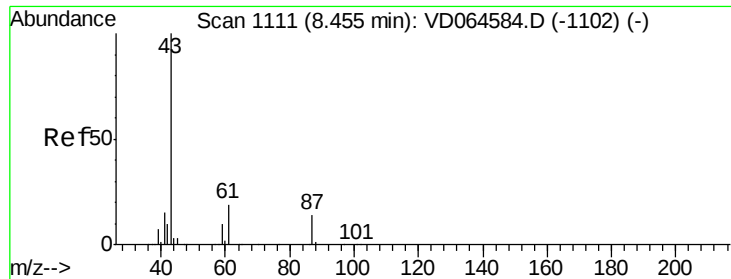
98 9.6 0.0 20.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





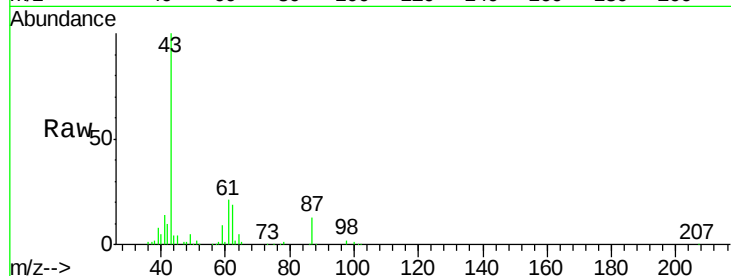
#43
Isopropyl Acetate
Concen: 50.971 ug/l
RT: 8.46 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

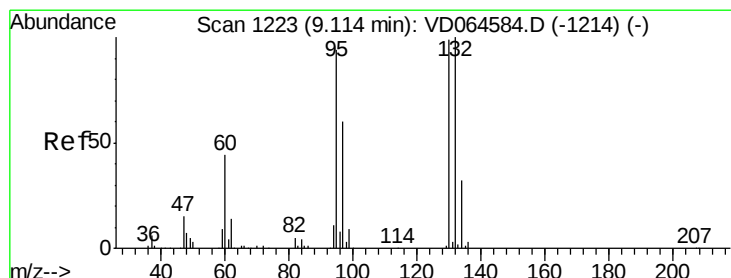
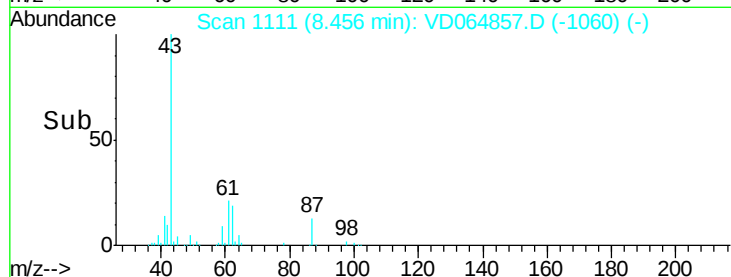
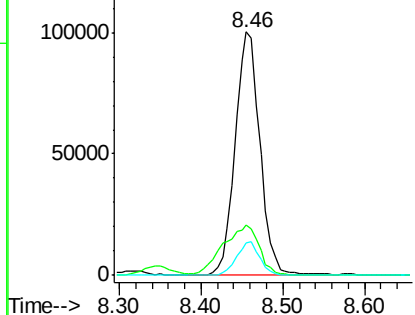
Tot Ion	Ratio	Lower	Upper
43	100		
61	29.9	23.7	35.5
87	12.8	10.5	15.7

Manual Integrations
APPROVED

MMDadoda
1/20/2020 11:14:08 AM

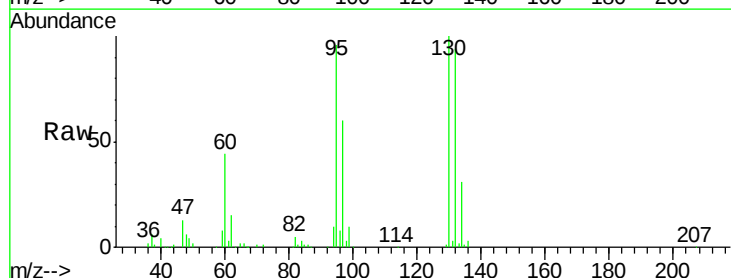


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 61.00 (60.70 to 61.70): VDC
Ion 87.00 (86.70 to 87.70): VDC

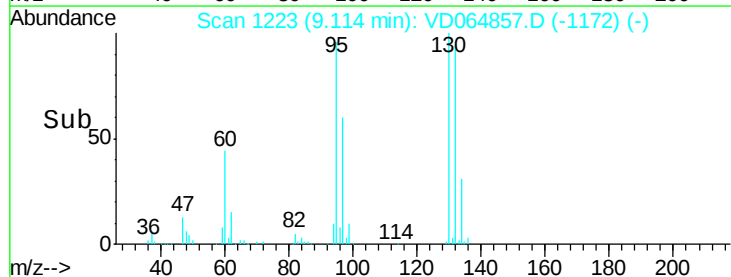
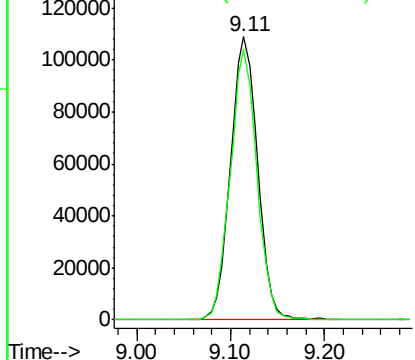


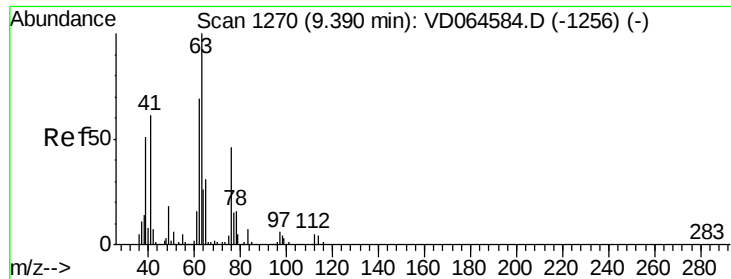
#44
Trichloroethene
Concen: 51.193 ug/l
RT: 9.11 min Scan# 1223
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.5	0.0	190.2



Abundance Ion 129.80 (129.50 to 130.50): VDC
Ion 94.90 (94.60 to 95.60): VDC





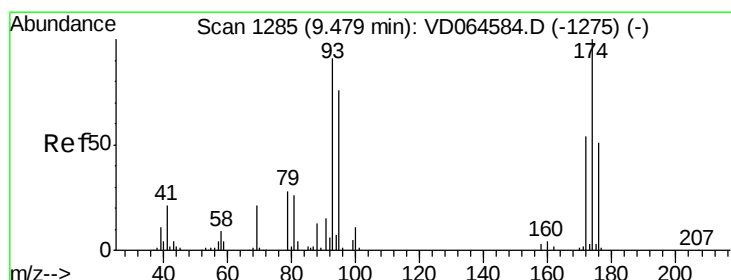
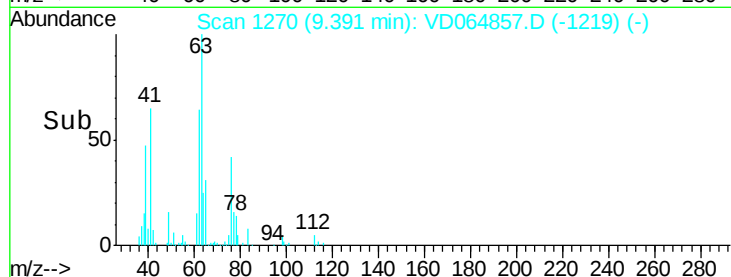
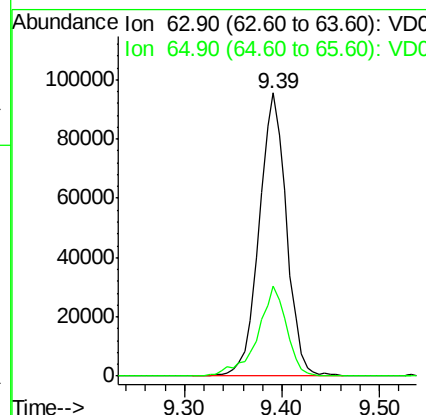
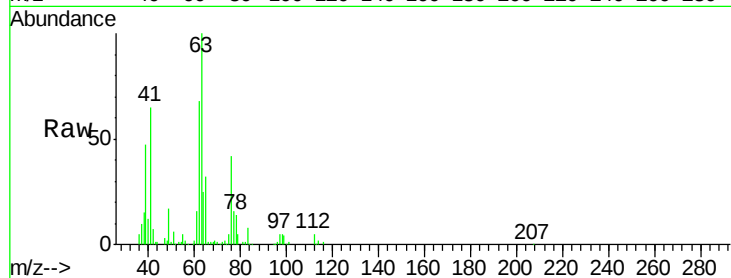
#45
 1,2-Dichloropropane
 Concen: 53.951 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.6	25.2	37.8

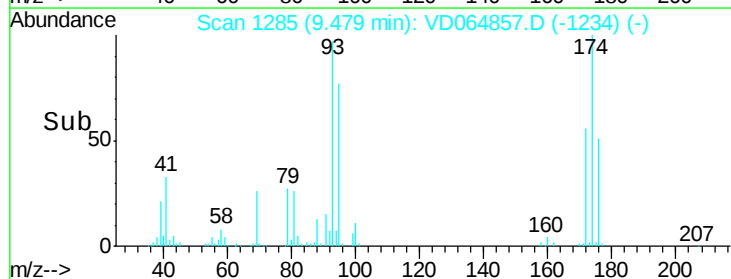
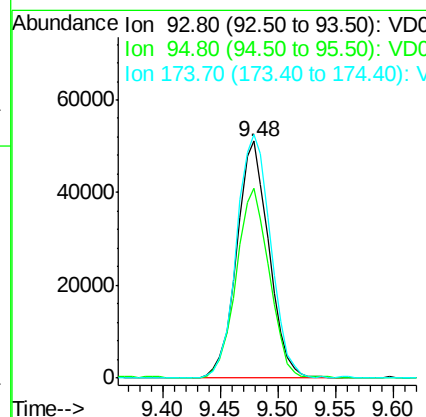
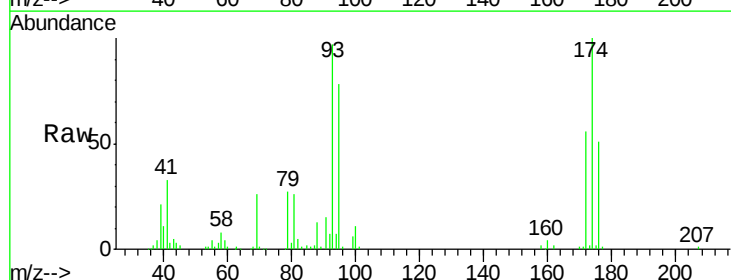
Manual Integrations
 APPROVED

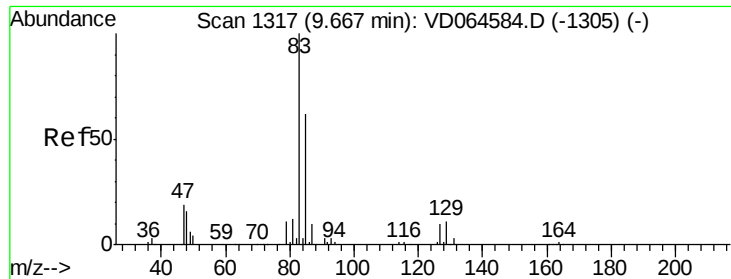
MMDadoda
 1/20/2020 11:14:08 AM



#46
 Dibromomethane
 Concen: 51.187 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.0	64.6	97.0
174	108.3	88.1	132.1





#47

Bromodichloromethane

Concen: 53.377 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

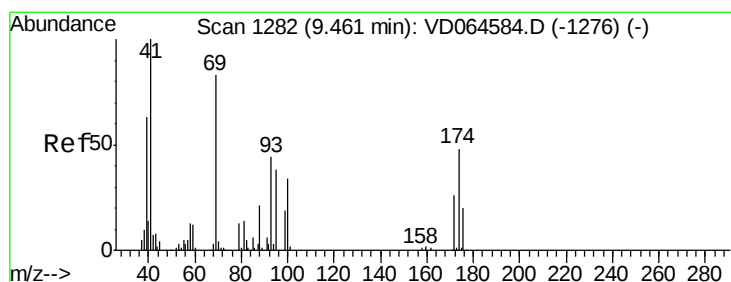
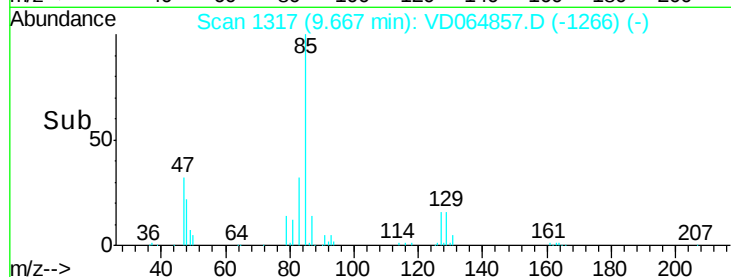
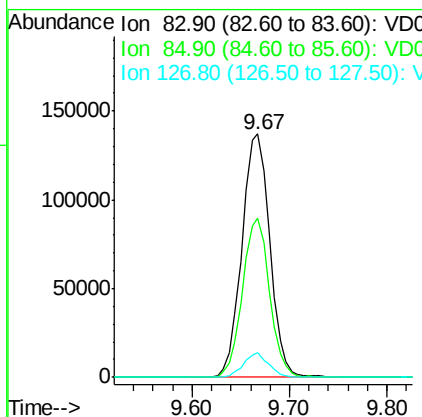
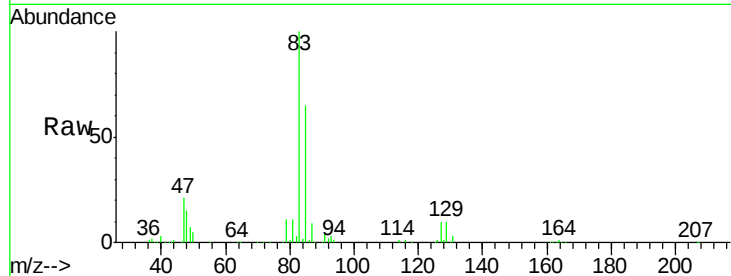
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	274788
Ion	Ratio	Lower	Upper
83	100		
85	65.1	49.5	74.3
127	10.2	7.8	11.6

Manual Integrations
APPROVED

MMDadoda
1/20/2020 11:14:08 AM



#48

Methyl methacrylate

Concen: 50.399 ug/l

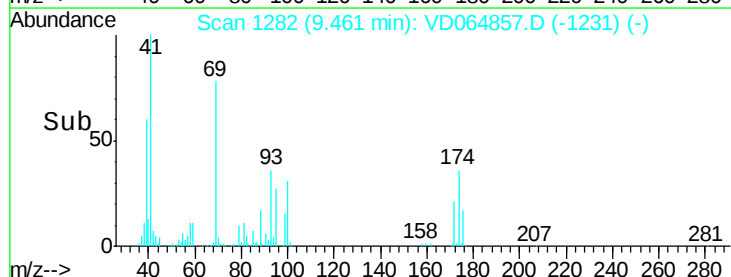
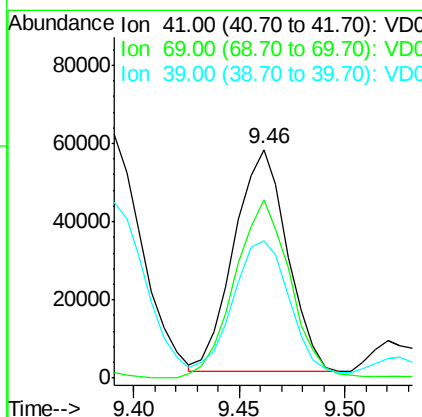
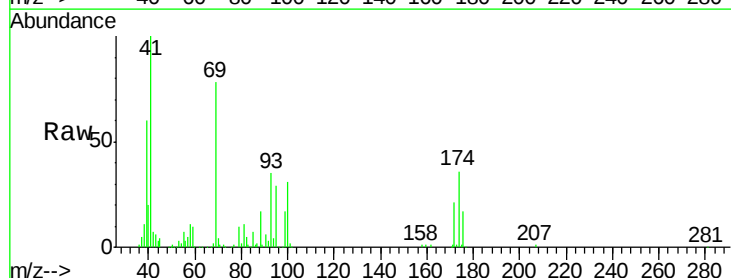
RT: 9.46 min Scan# 1282

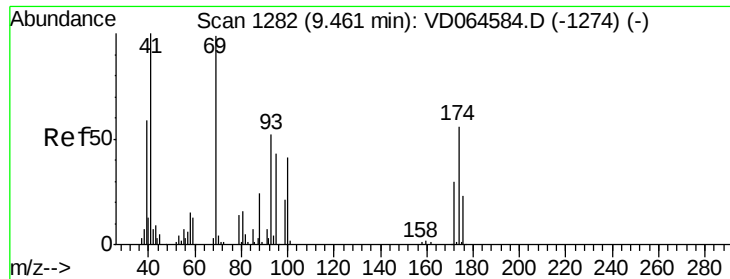
Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Tgt Ion:	41	Resp:	98787
Ion	Ratio	Lower	Upper
41	100		
69	84.8	63.0	94.6
39	62.2	47.4	71.2





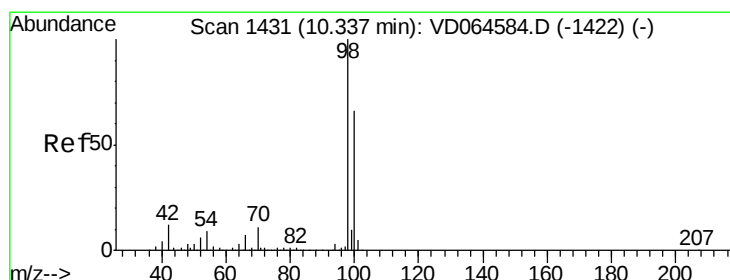
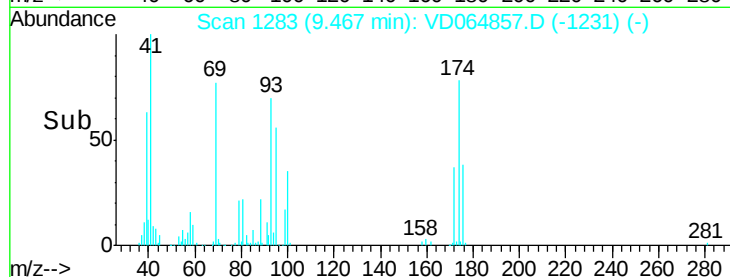
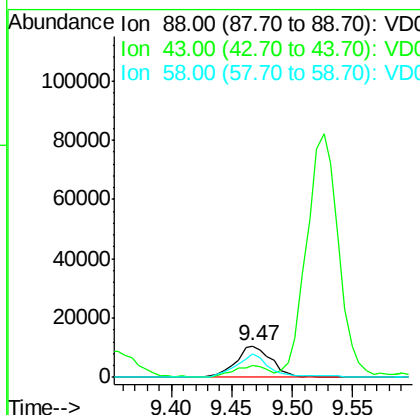
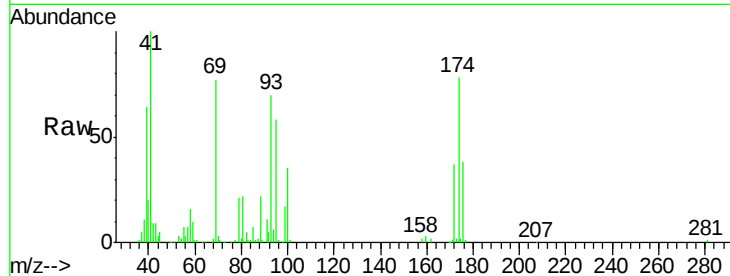
#49
1,4-Dioxane
Concen: 994.947 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. 0.01 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	88	Resp	22195
Ion Ratio	Lower	Upper	
88	100		
43	37.0	27.7	41.5
58	65.5	53.8	80.6

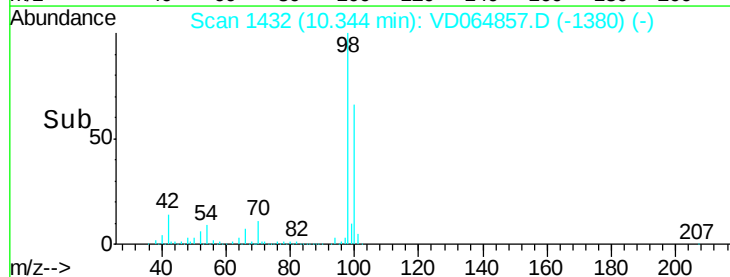
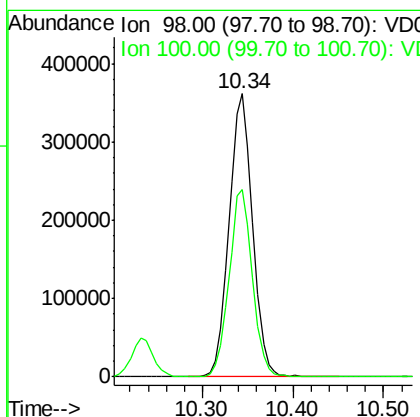
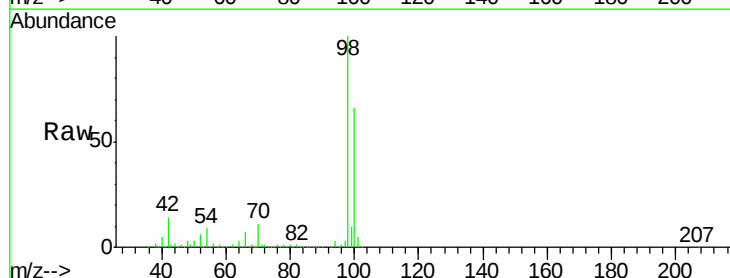
Manual Integrations
APPROVED

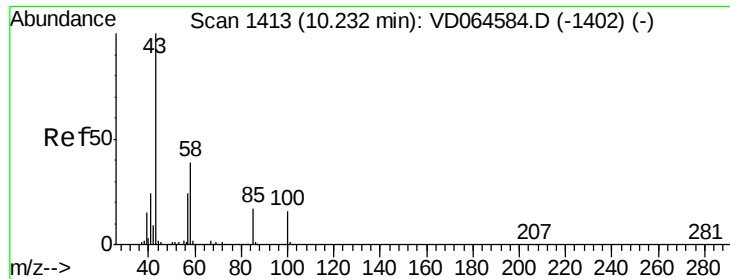
MMDadoda
1/20/2020 11:14:08 AM



#50
Toluene-d8
Concen: 50.166 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion	98	Resp	651991
Ion Ratio	Lower	Upper	
98	100		
100	65.5	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 254.645 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 523956

Ion Ratio Lower Upper

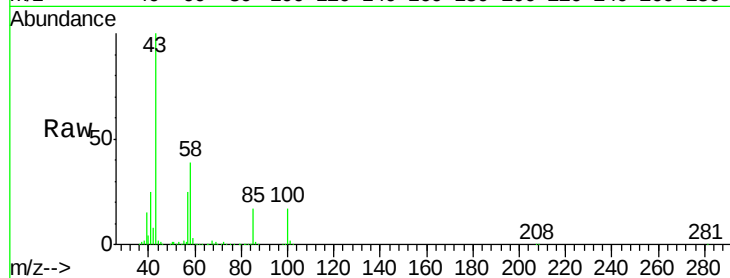
43 100

58 38.0 30.2 45.2

Manual Integrations
APPROVED

MMDadoda

1/20/2020 11:14:08 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.23

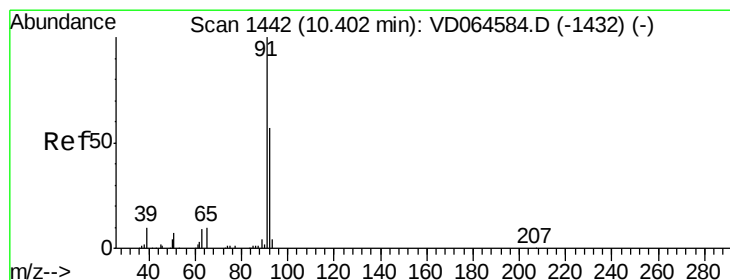
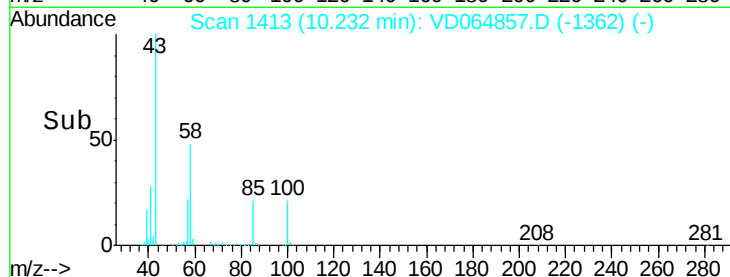
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 52.166 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.01 min

Lab File: VD064857.D

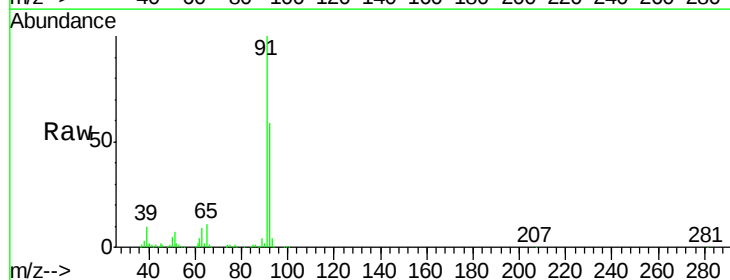
Acq: 17 Jan 2020 12:17

Tgt Ion: 92 Resp: 497398

Ion Ratio Lower Upper

92 100

91 173.3 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.41

500000

400000

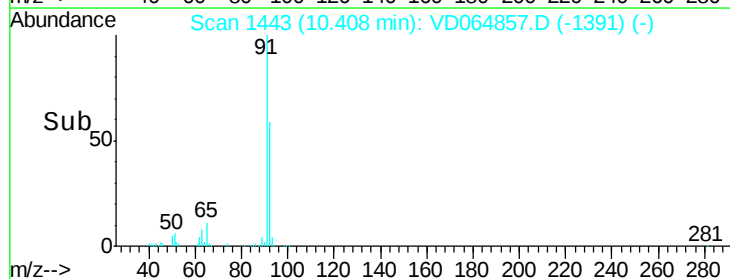
300000

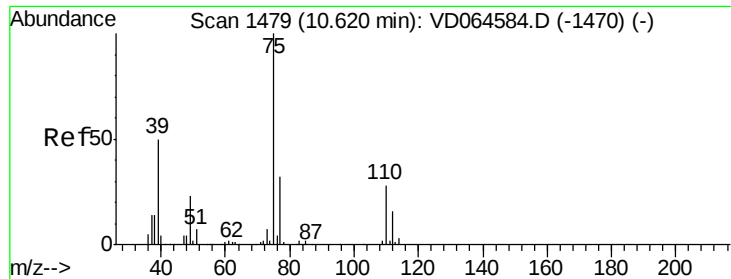
200000

100000

0

Time-->





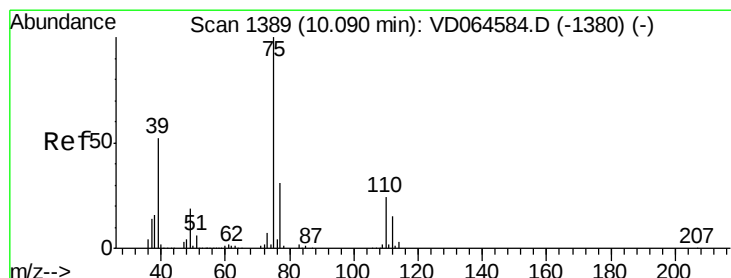
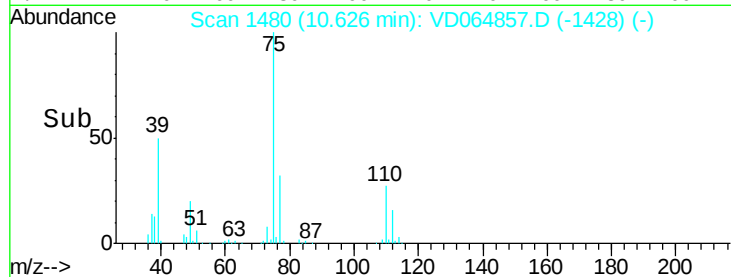
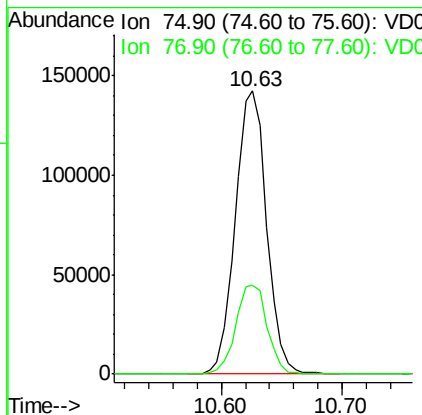
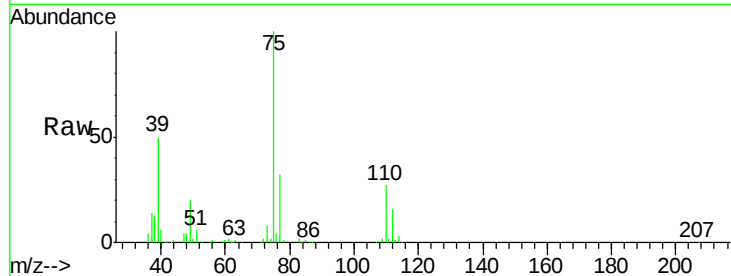
#53
 t-1,3-Dichloropropene
 Concen: 53.624 ug/l
 RT: 10.63 min Scan# 1480
 Delta R.T. 0.01 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 75 Resp: 257375
 Ion Ratio Lower Upper
 75 100
 77 31.6 25.4 38.2

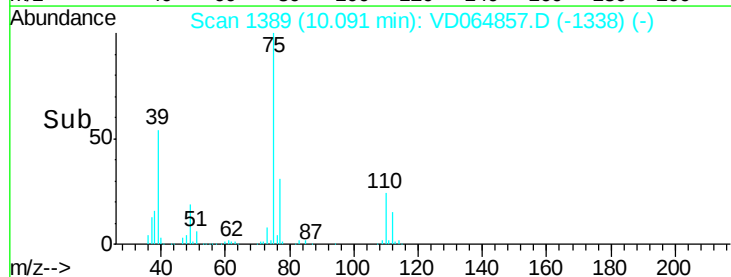
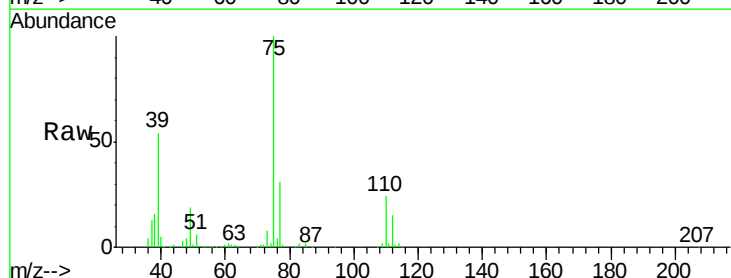
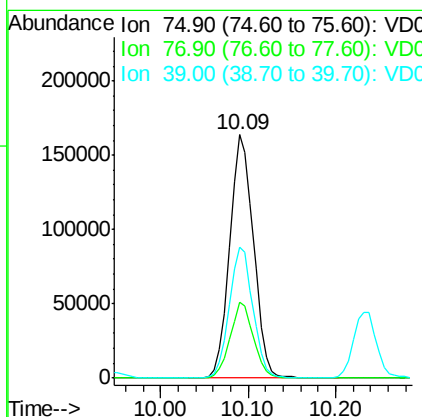
Manual Integrations
 APPROVED

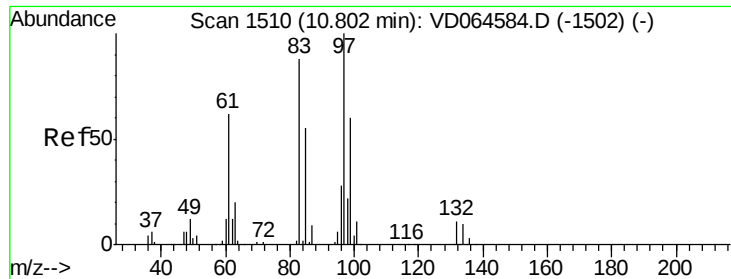
MMDadoda
 1/20/2020 11:14:08 AM



#54
 cis-1,3-Dichloropropene
 Concen: 53.406 ug/l
 RT: 10.09 min Scan# 1389
 Delta R.T. 0.00 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Tgt Ion: 75 Resp: 302247
 Ion Ratio Lower Upper
 75 100
 77 31.3 24.6 36.8
 39 53.9 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 51.306 ug/l

RT: 10.81 min Scan# 1511

Delta R.T. 0.01 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 133767

Ion Ratio Lower Upper

97 100

83 82.3 70.2 105.4

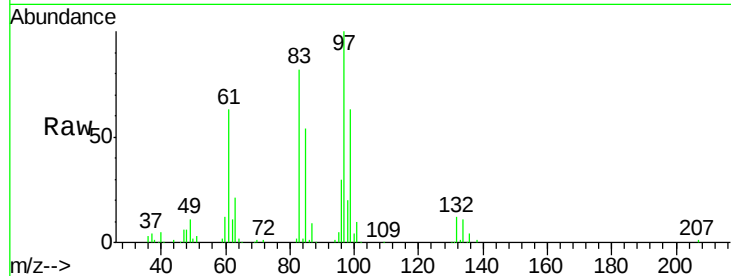
85 53.8 44.0 66.0

99 62.6 47.8 71.6

Manual Integrations
APPROVED

MMDadoda

1/20/2020 11:14:08 AM

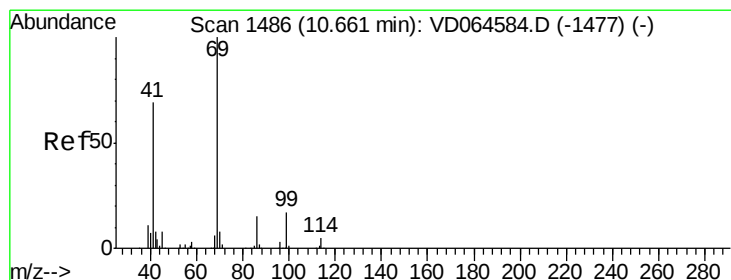
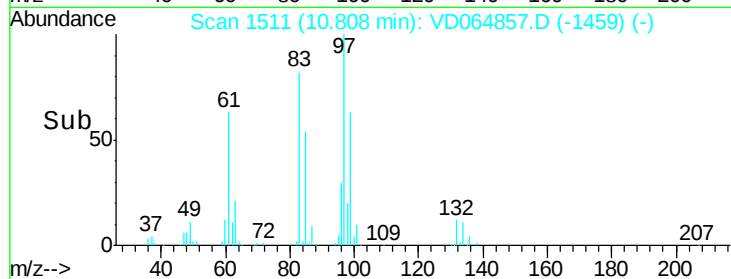
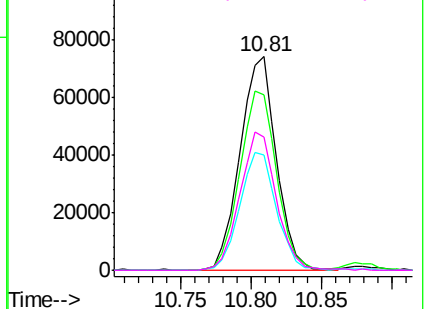


Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#56

Ethyl methacrylate

Concen: 51.630 ug/l

RT: 10.67 min Scan# 1487

Delta R.T. 0.01 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

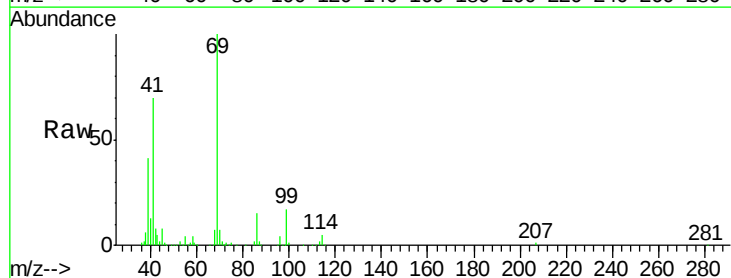
Tgt Ion: 69 Resp: 168114

Ion Ratio Lower Upper

69 100

41 69.8 55.3 82.9

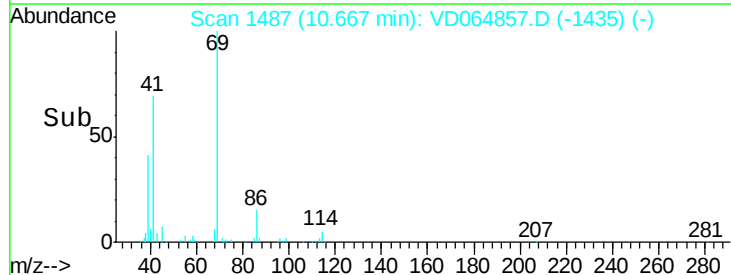
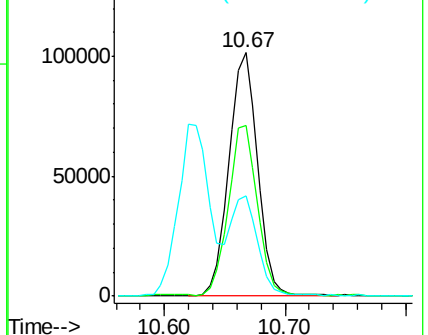
39 37.4 33.8 50.8

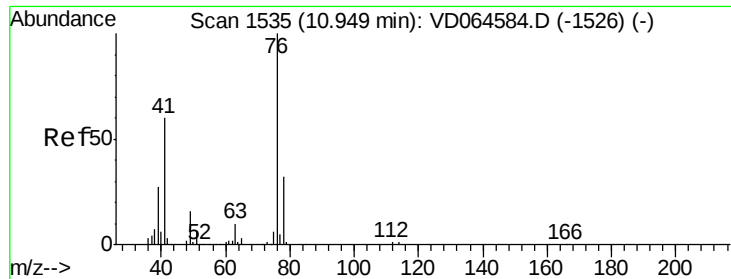


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC





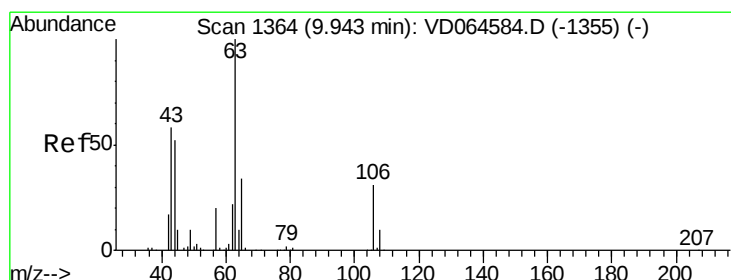
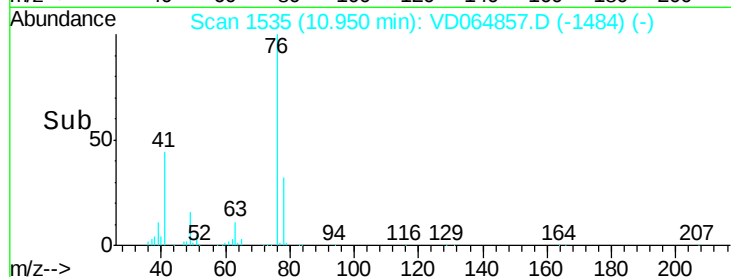
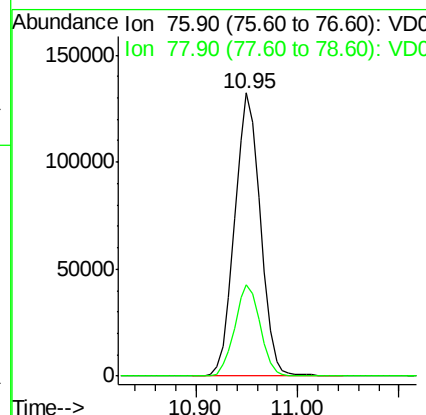
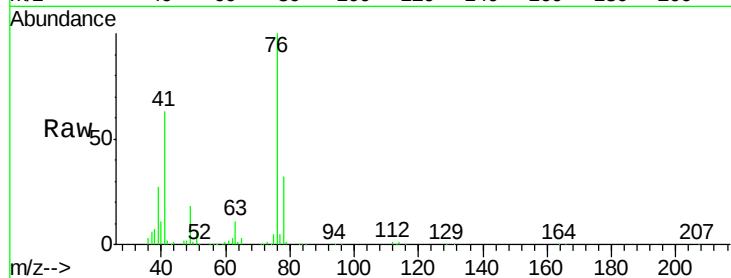
#57
 1,3-Dichloropropane
 Concen: 51.840 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 232719
 Ion Ratio Lower Upper
 76 100
 78 31.9 26.2 39.4

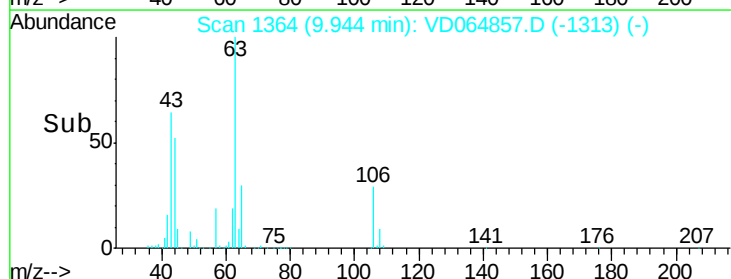
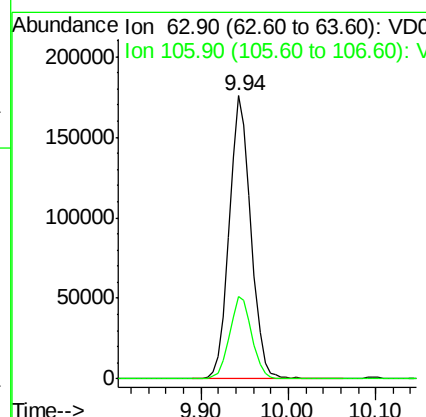
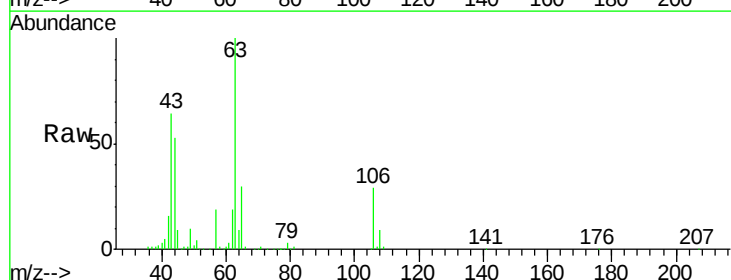
Manual Integrations
 APPROVED

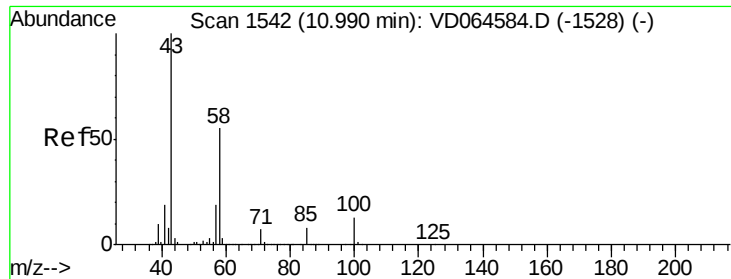
MMDadoda
 1/20/2020 11:14:08 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 240.887 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Tgt Ion: 63 Resp: 298834
 Ion Ratio Lower Upper
 63 100
 106 29.8 23.8 35.8





#59

2-Hexanone

Concen: 282.508 ug/l

RT: 10.99 min Scan# 1542

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 394532

Ion Ratio Lower Upper

43 100

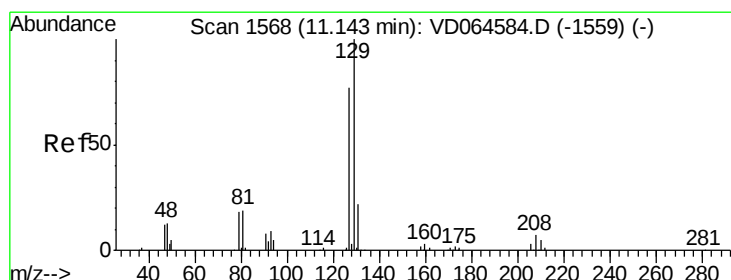
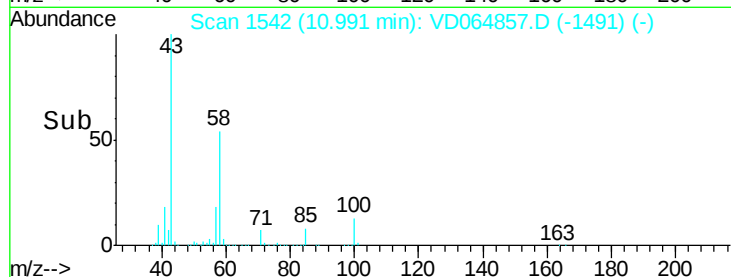
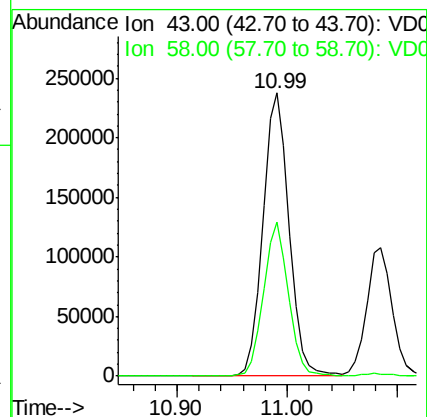
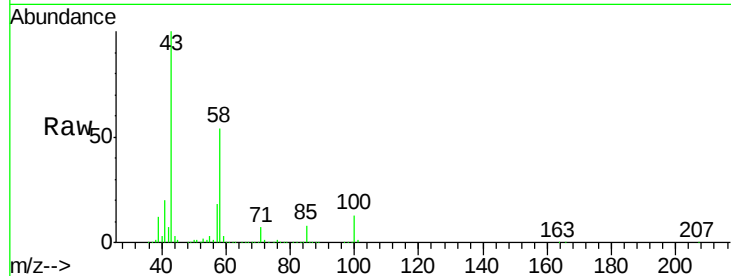
58 52.0 26.4 79.0

Manual Integrations

APPROVED

MMDadoda

1/20/2020 11:14:08 AM



#60

Dibromochloromethane

Concen: 51.257 ug/l

RT: 11.14 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VD064857.D

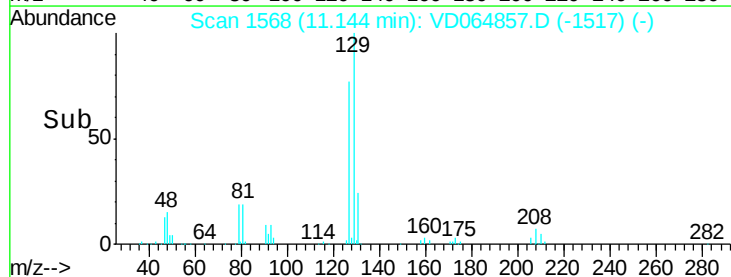
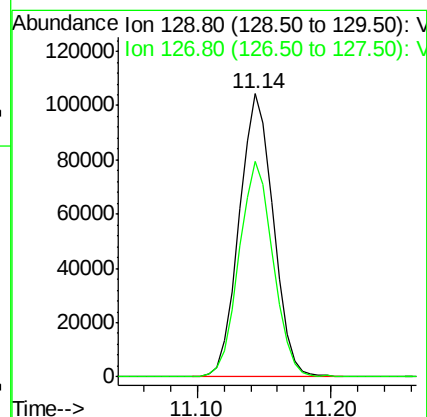
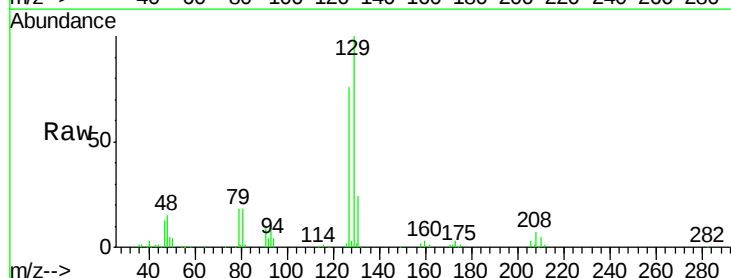
Acq: 17 Jan 2020 12:17

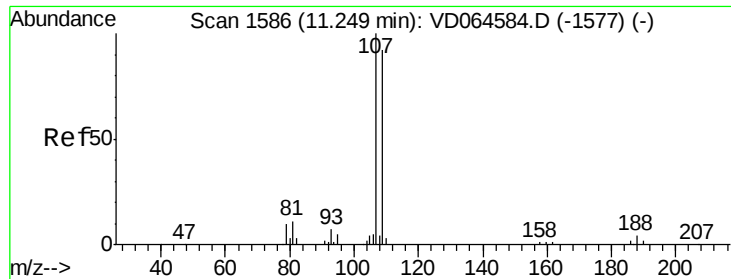
Tgt Ion: 129 Resp: 184806

Ion Ratio Lower Upper

129 100

127 76.4 38.4 115.2





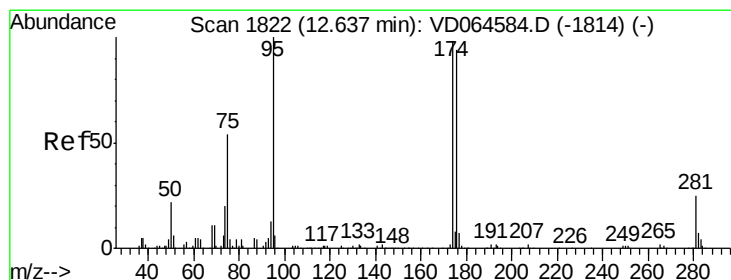
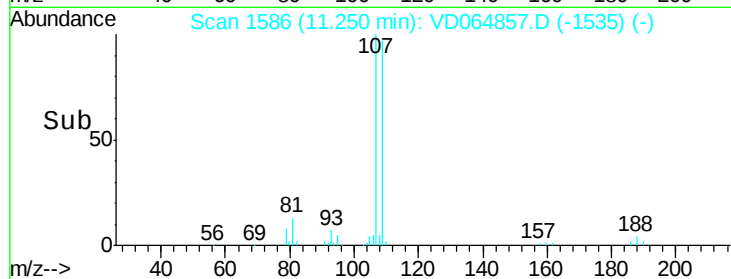
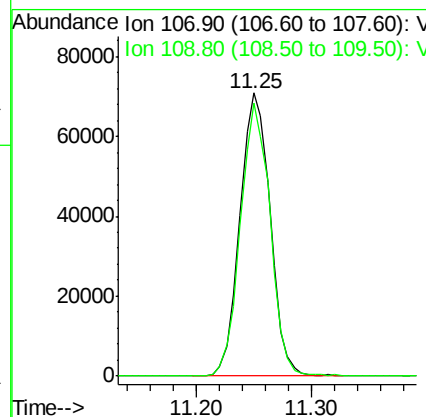
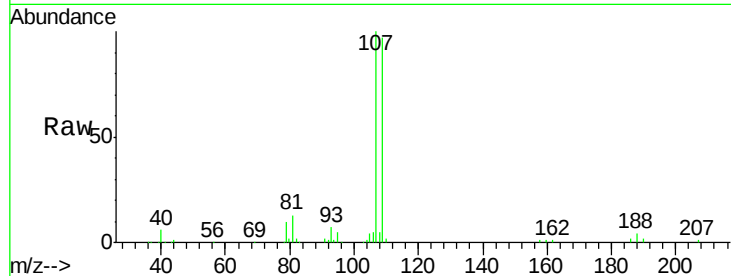
#61
 1,2-Dibromoethane
 Concen: 50.008 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.6	113.4

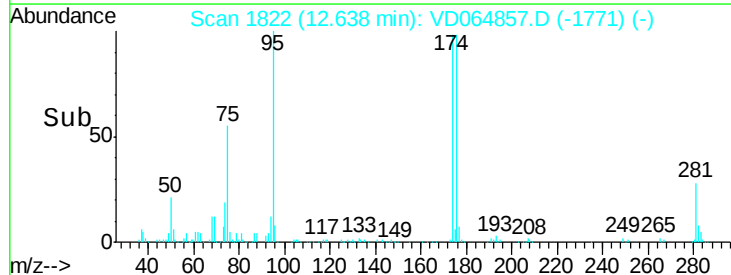
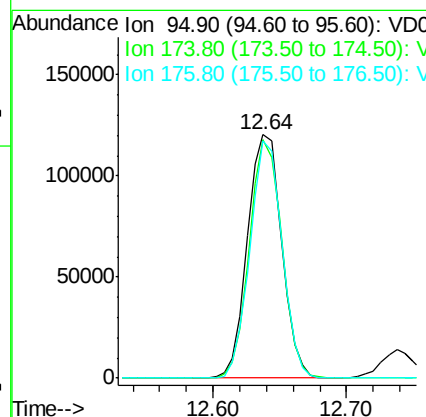
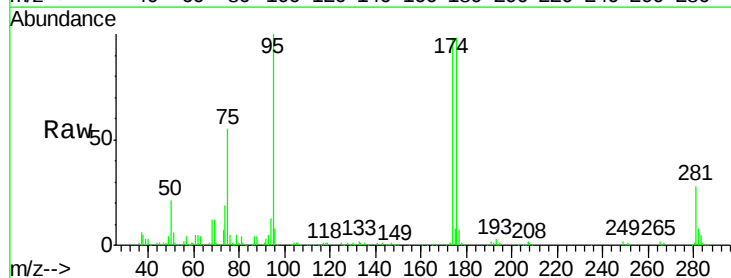
Manual Integrations
 APPROVED

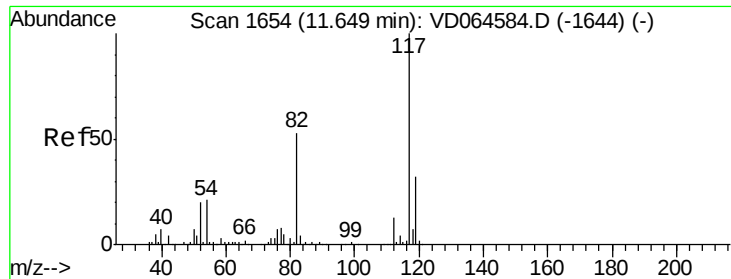
MMDadoda
 1/20/2020 11:14:08 AM



#62
 4-Bromofluorobenzene
 Concen: 51.700 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
95	100		
174	93.2	0.0	193.2
176	91.5	0.0	184.2





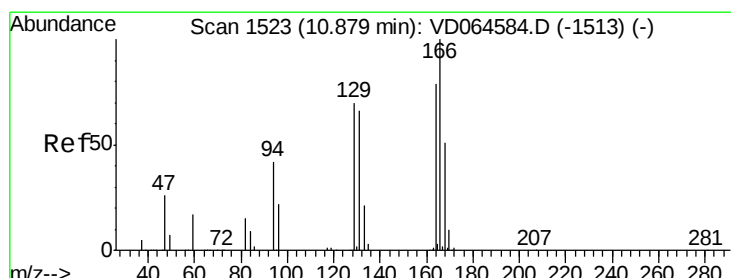
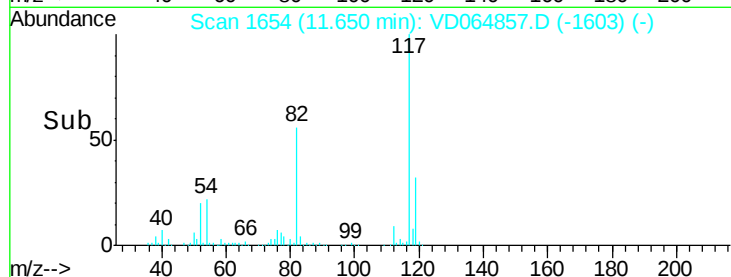
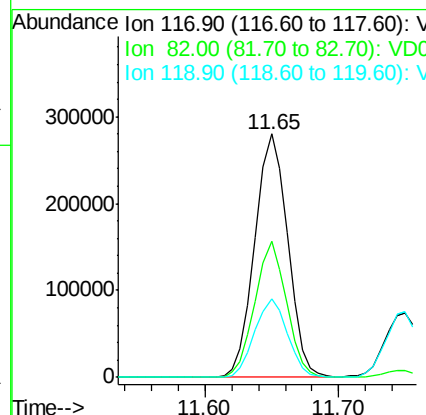
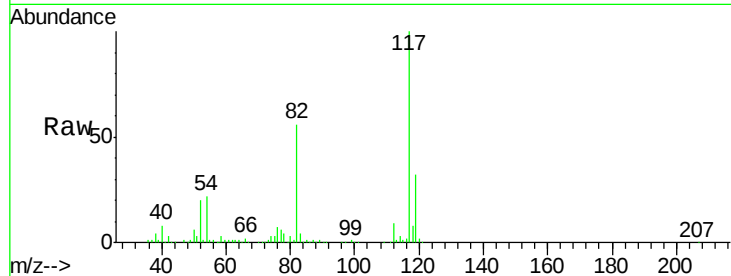
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	478486		
82	55.8	42.2	63.4	
119	32.3	26.0	39.0	

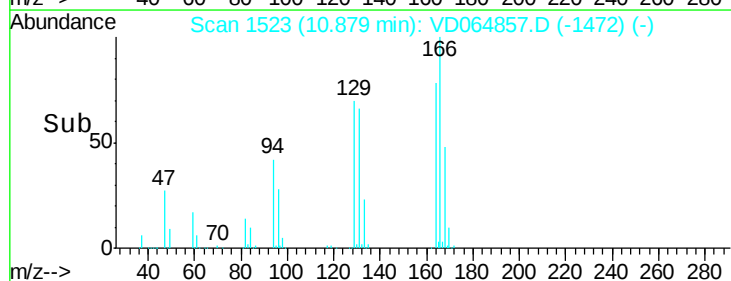
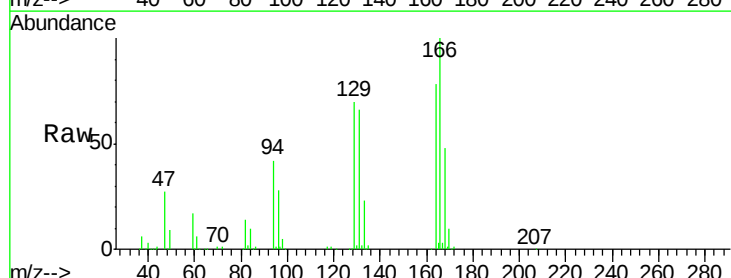
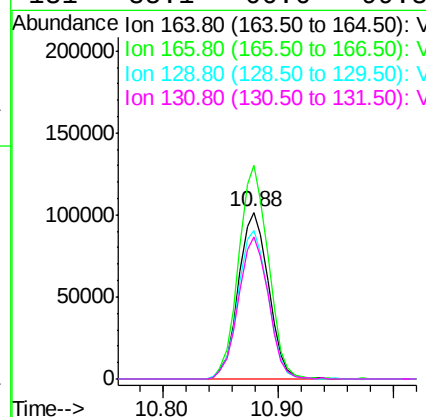
Manual Integrations
APPROVED

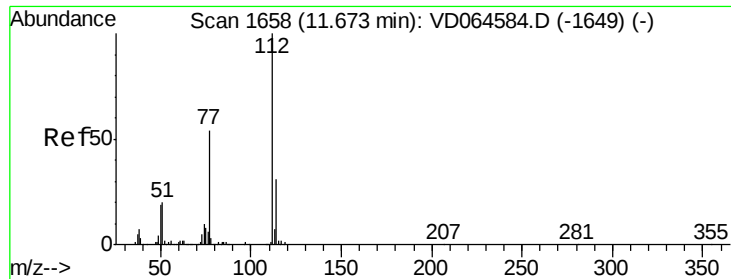
MMDadoda
1/20/2020 11:14:08 AM



#64
Tetrachloroethene
Concen: 50.021 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	183619		
166	128.2	101.3	151.9	
129	89.2	70.5	105.7	
131	85.1	66.6	99.8	





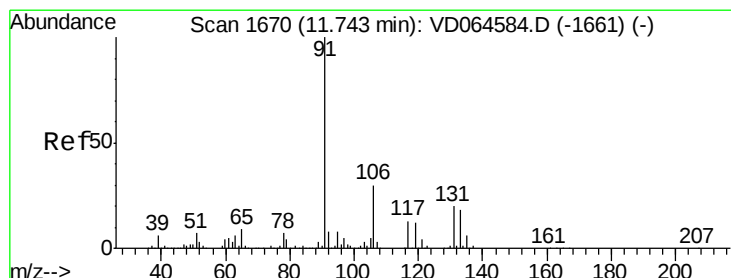
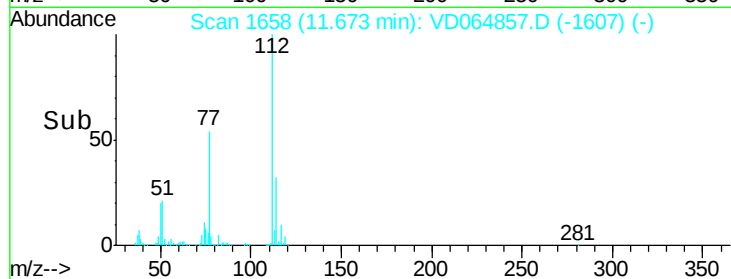
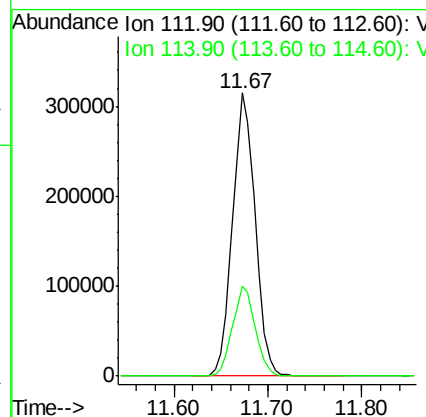
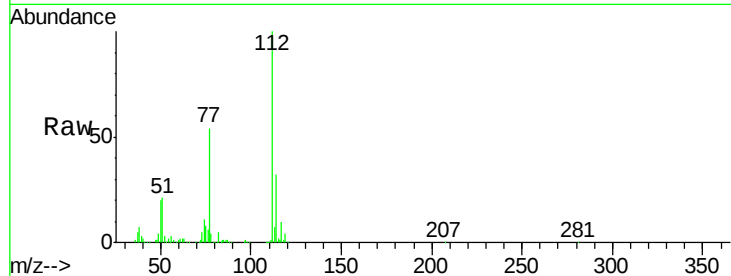
#65
Chlorobenzene
Concen: 52.964 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.7	24.8	37.2

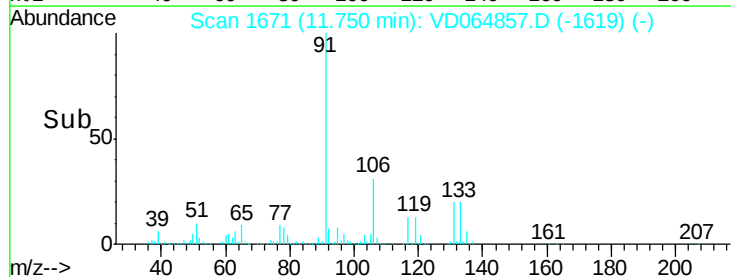
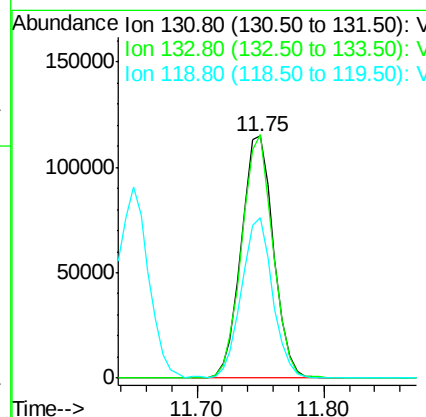
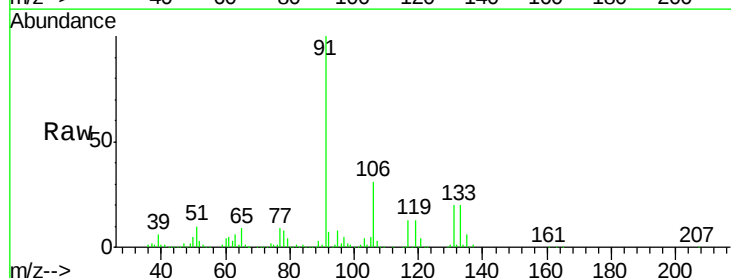
Manual Integrations
APPROVED

MMDadoda
1/20/2020 11:14:08 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 54.119 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.01 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.2	48.3	144.8
119	63.9	32.1	96.3





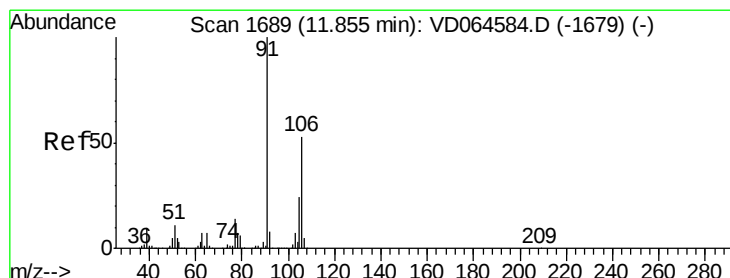
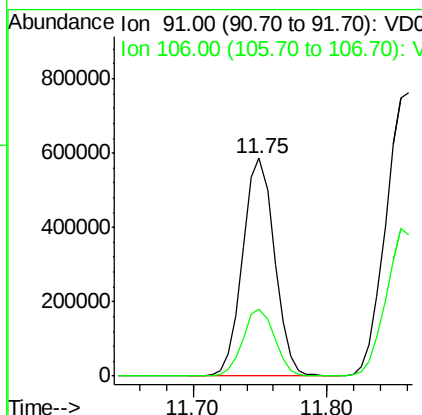
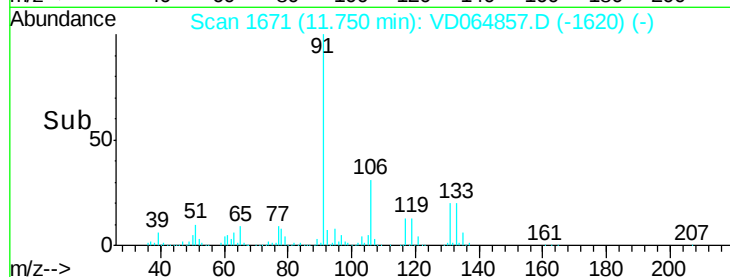
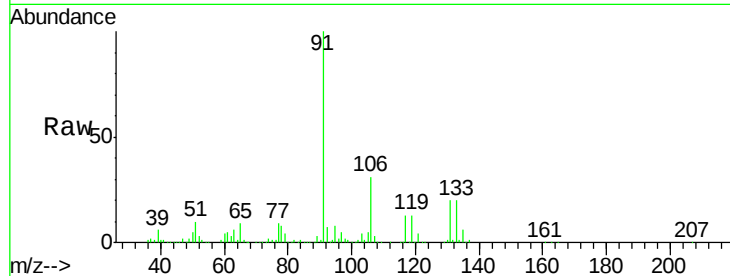
#67
Ethyl Benzene
Concen: 53.620 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 966504
Ion Ratio Lower Upper
91 100
106 31.0 24.6 36.8

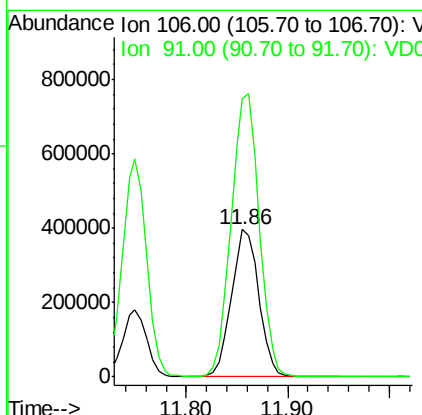
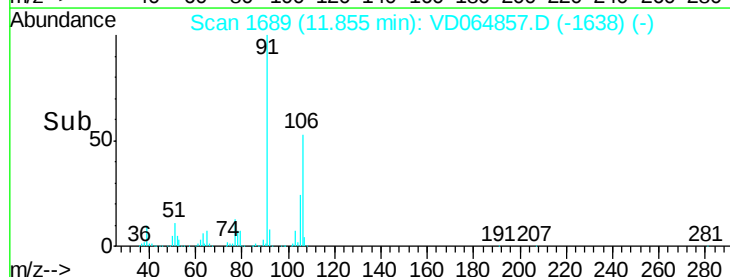
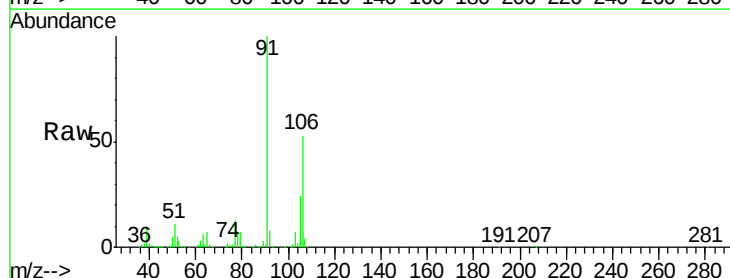
Manual Integrations
APPROVED

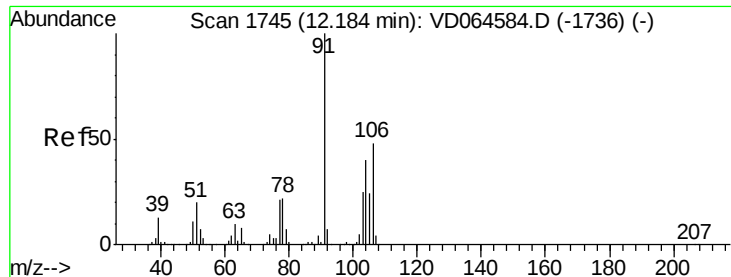
MMDadoda
1/20/2020 11:14:08 AM



#68
m/p-Xylenes
Concen: 106.730 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion: 106 Resp: 742560
Ion Ratio Lower Upper
106 100
91 196.8 156.3 234.5





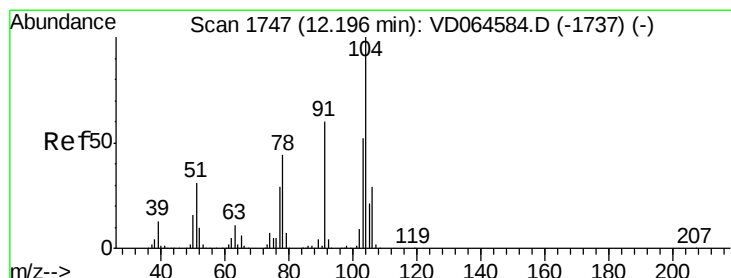
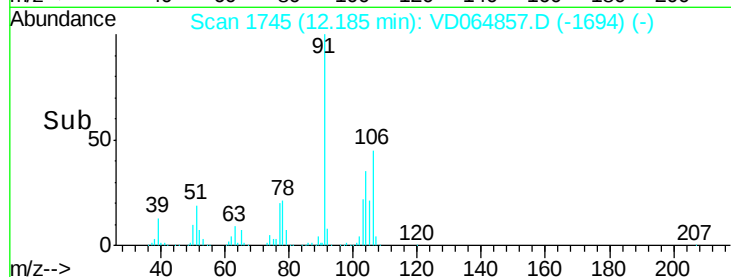
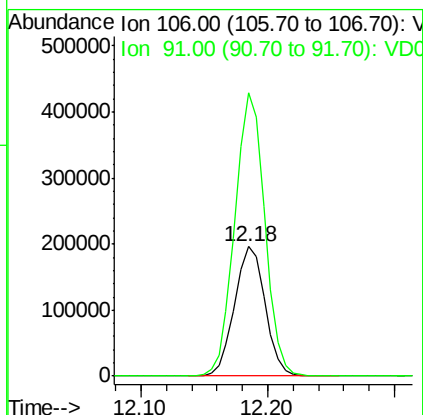
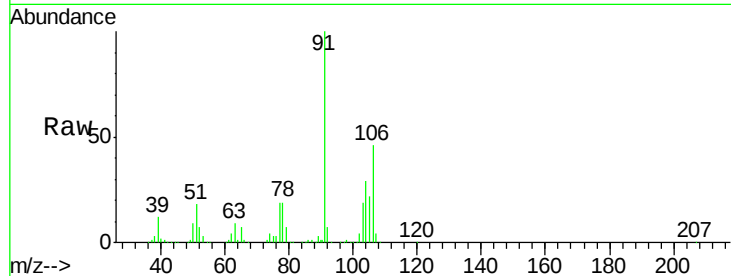
#69
o-Xylene
Concen: 52.101 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	213.8	104.8	314.4

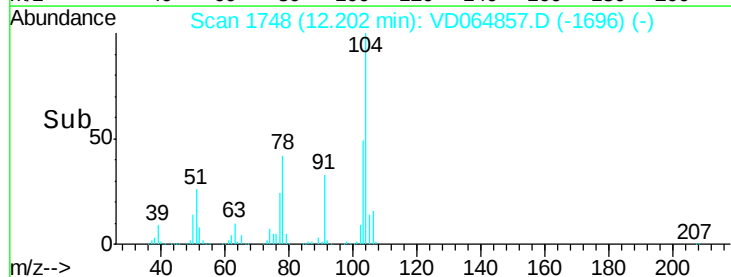
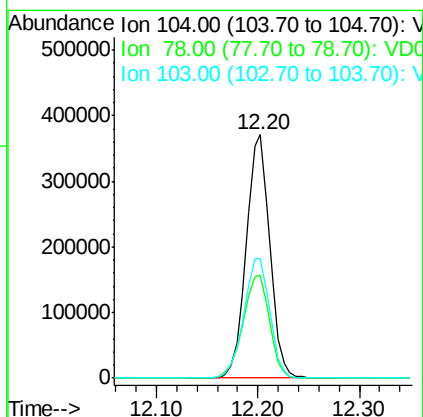
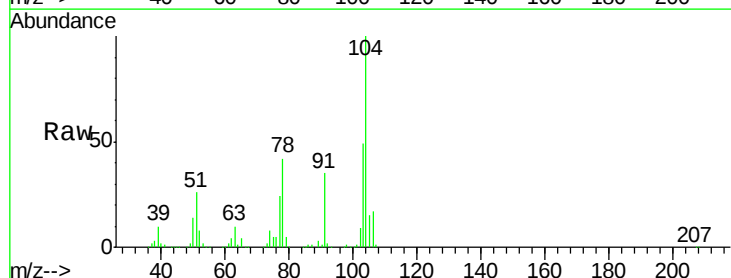
Manual Integrations
APPROVED

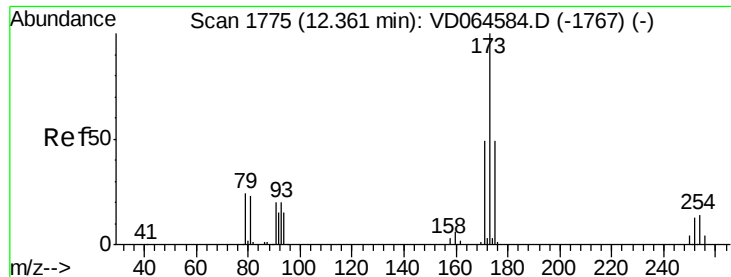
MMDadoda
1/20/2020 11:14:08 AM



#70
Styrene
Concen: 54.160 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.01 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.6	38.2	57.2
103	54.4	44.6	67.0





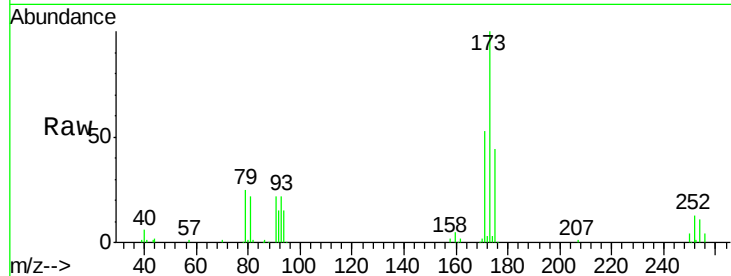
#71
Bromoform
Concen: 50.705 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. 0.01 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.6	73.8
254	0.1	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
1/20/2020 11:14:08 AM

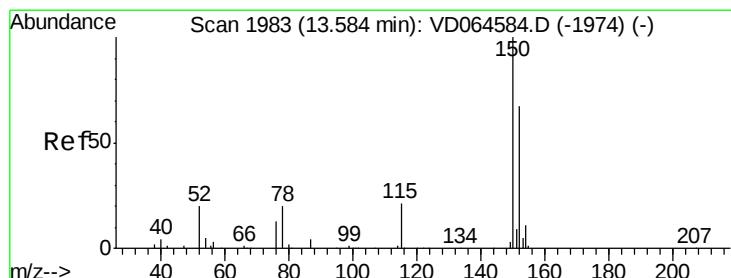
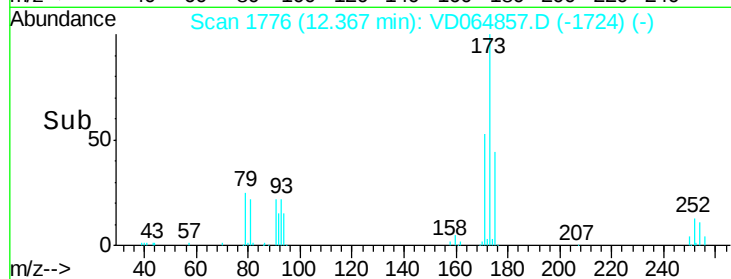
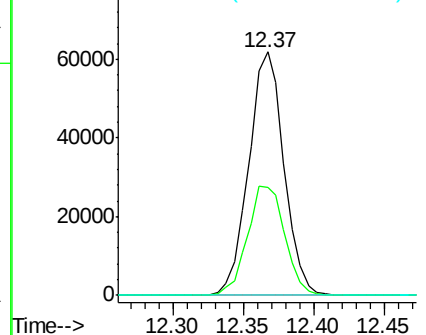


Abundance

Ion 172.70 (172.40 to 173.40): V

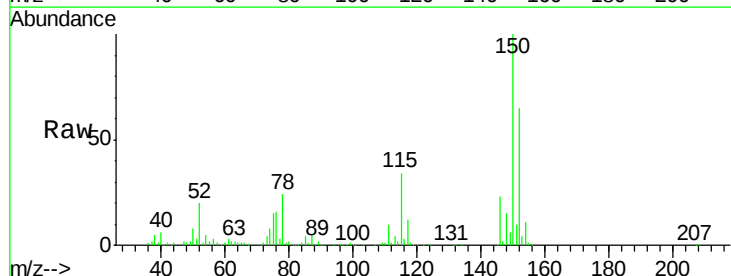
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.9	27.8	83.4
150	173.2	0.0	351.4

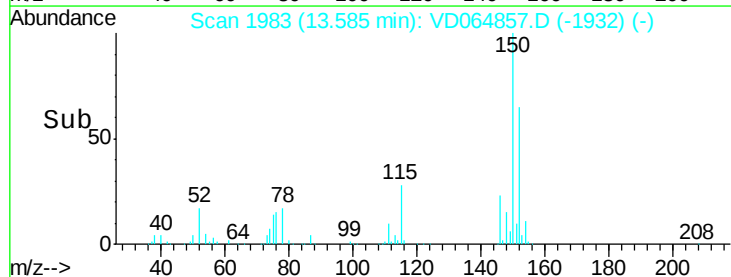
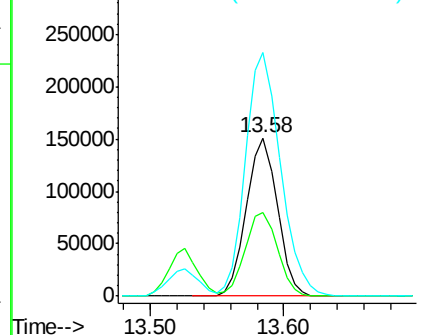


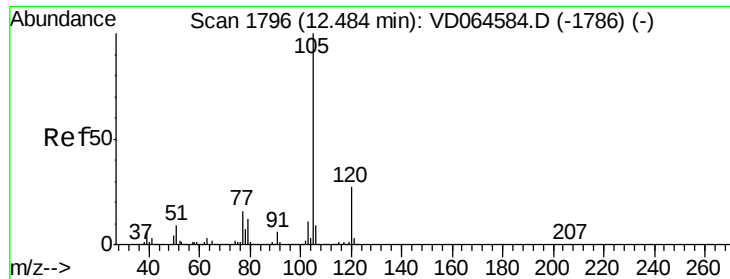
Abundance

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: 53.198 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 105 Resp: 925378

Ion Ratio Lower Upper

105 100

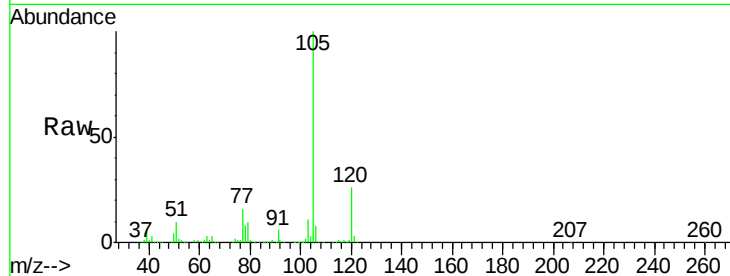
120 26.3 13.5 40.5

Manual Integrations

APPROVED

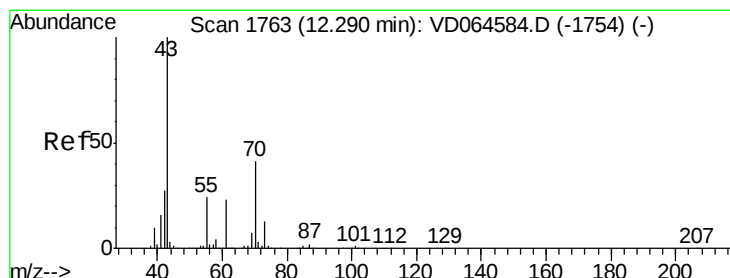
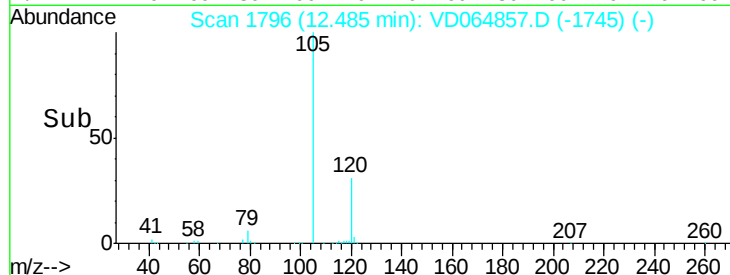
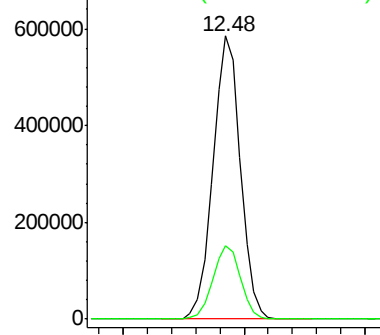
MMDadoda

1/20/2020 11:14:08 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 51.754 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Tgt Ion: 43 Resp: 192443

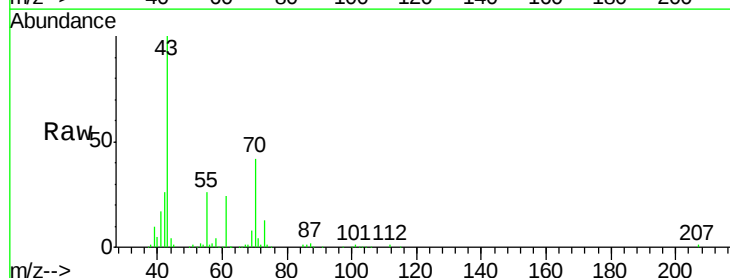
Ion Ratio Lower Upper

43 100

70 40.9 33.4 50.0

55 25.1 19.4 29.0

61 22.6 18.3 27.5

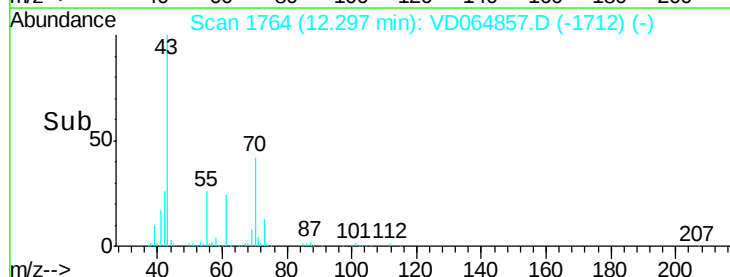
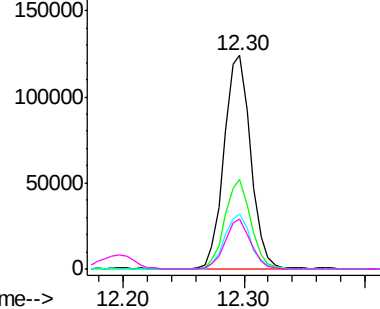


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 50.935 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

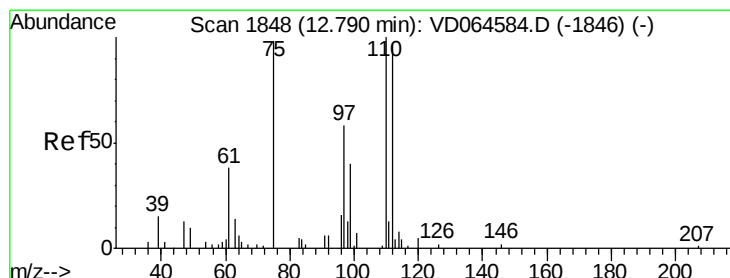
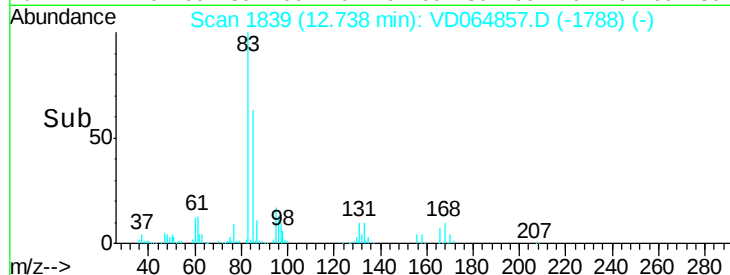
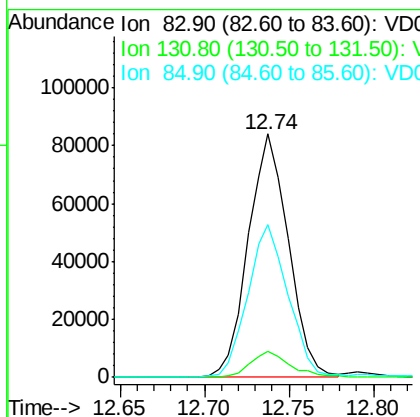
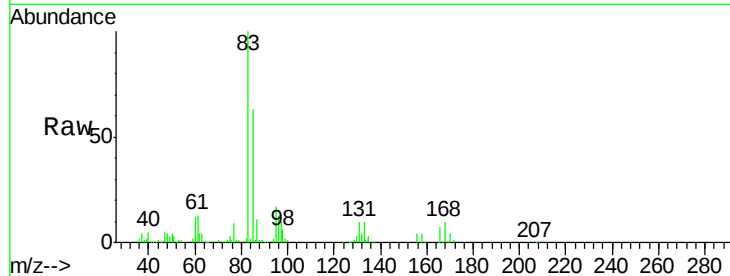
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	139185
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.8	17.4
85	63.3	32.3	96.9

Manual Integrations
APPROVED

MMDadoda
1/20/2020 11:14:08 AM



#76

1,2,3-Trichloropropane

Concen: 47.043 ug/l m

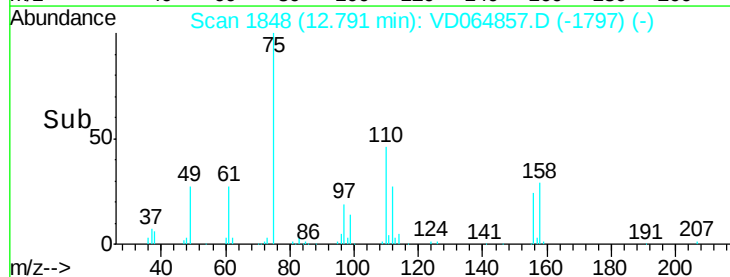
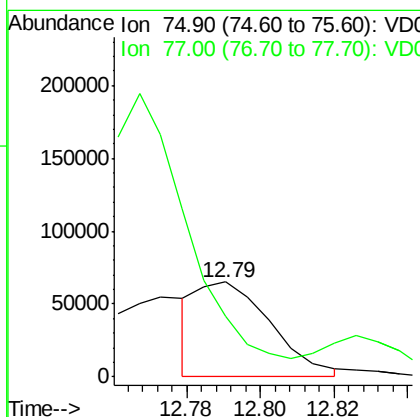
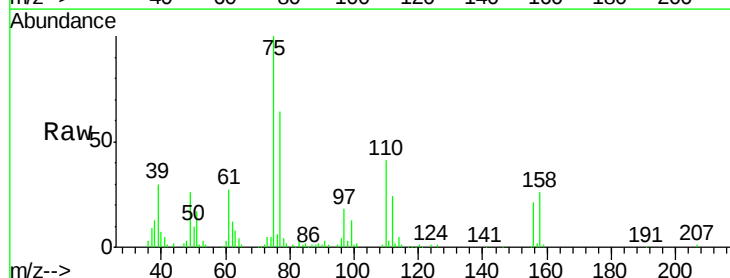
RT: 12.79 min Scan# 1848

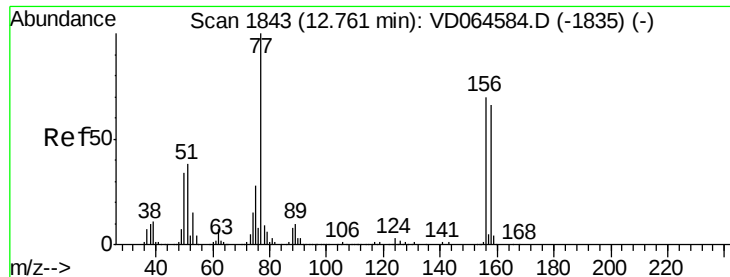
Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Tgt Ion:	75	Resp:	90423
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 50.733 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 216843

Ion Ratio Lower Upper

156 100

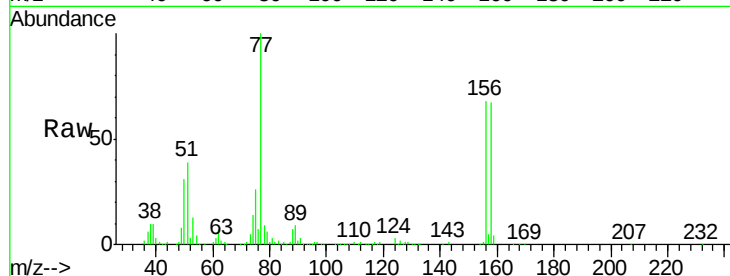
77 164.1 80.9 242.7

158 99.0 48.0 144.2

Manual Integrations
APPROVED

MMDadoda

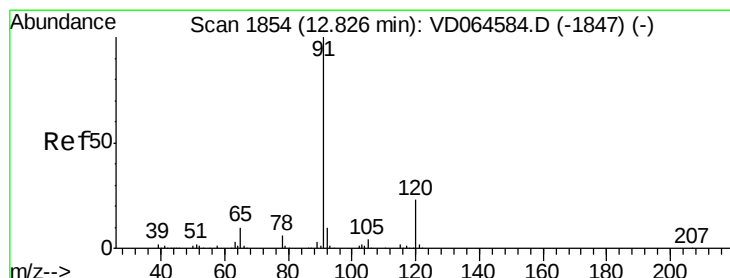
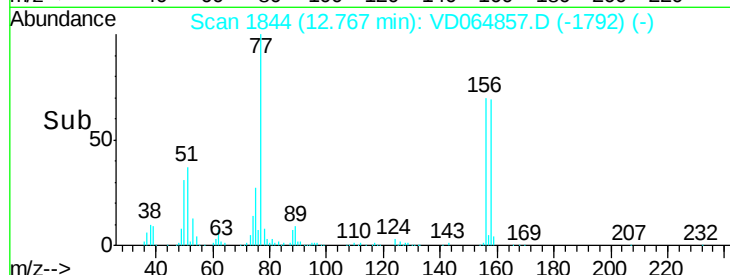
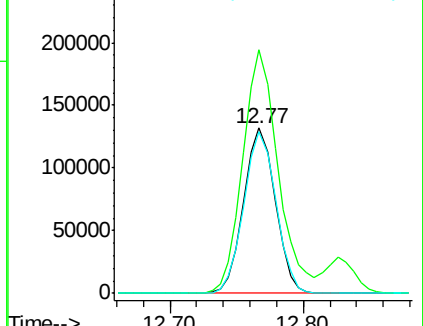
1/20/2020 11:14:08 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 53.452 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD064857.D

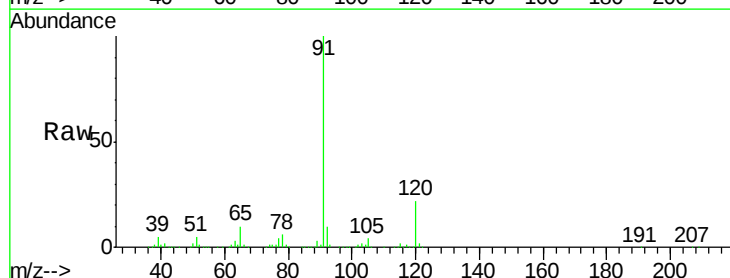
Acq: 17 Jan 2020 12:17

Tgt Ion: 91 Resp: 1084714

Ion Ratio Lower Upper

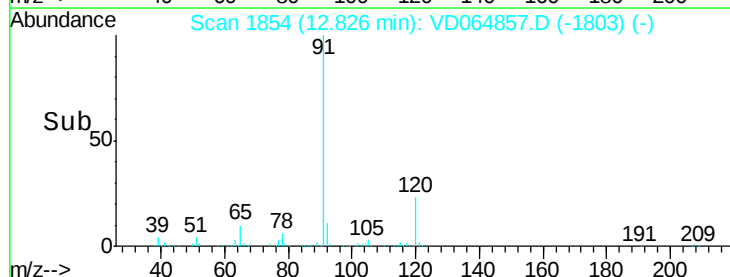
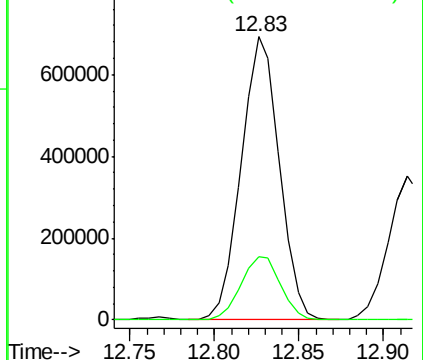
91 100

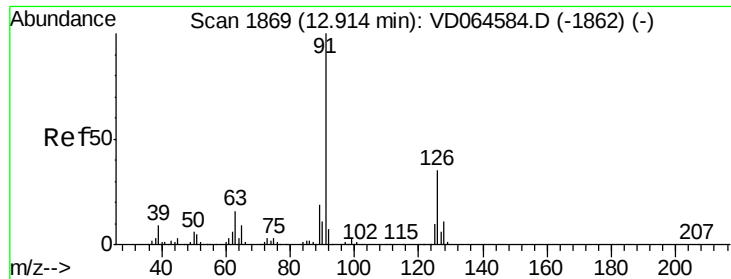
120 23.4 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





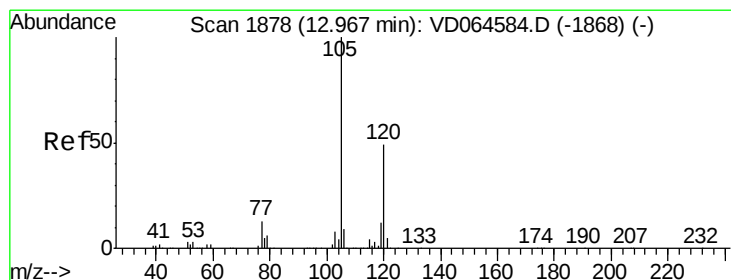
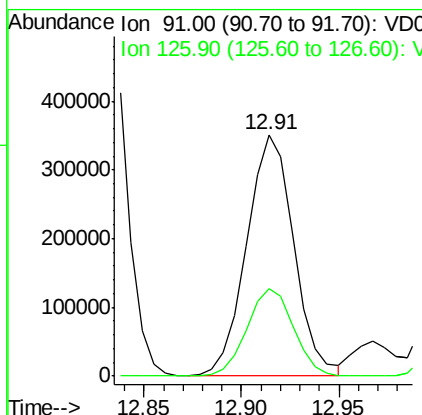
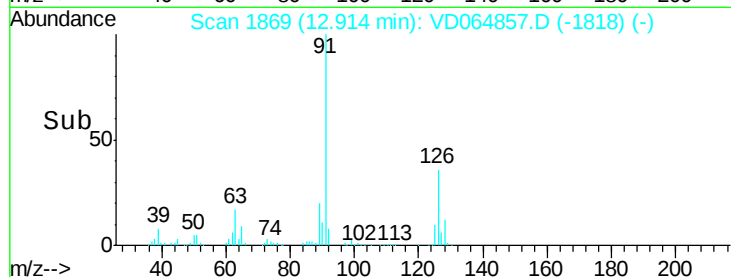
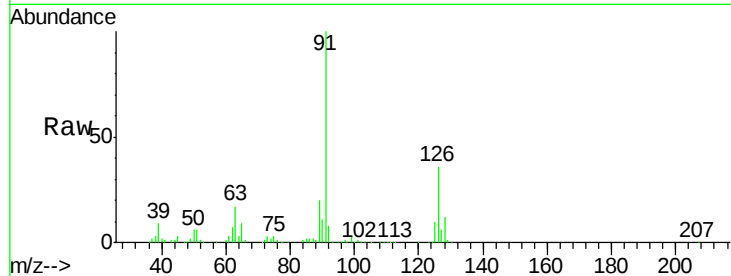
#79
2-Chlorotoluene
Concen: 52.655 ug/l
RT: 12.91 min Scan# 1869
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 586993
Ion Ratio Lower Upper
91 100
126 36.0 17.8 53.5

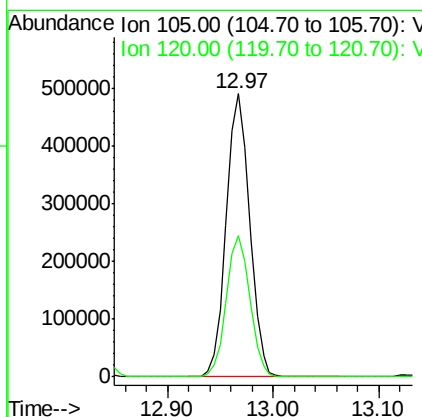
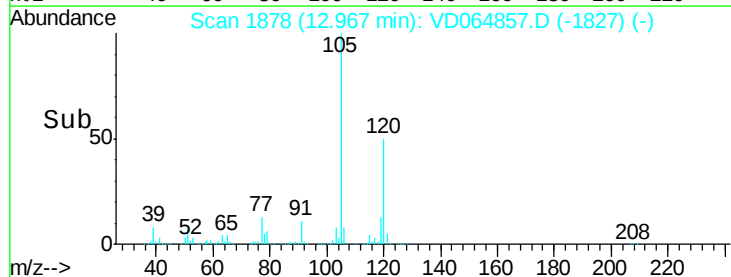
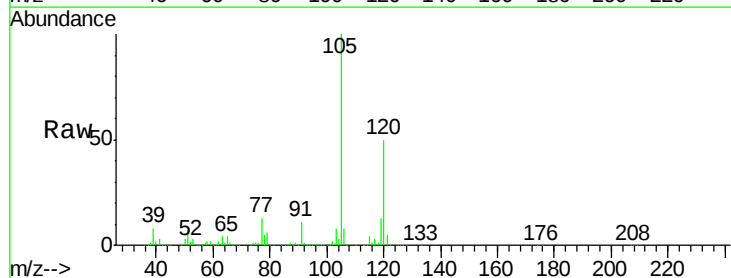
Manual Integrations
APPROVED

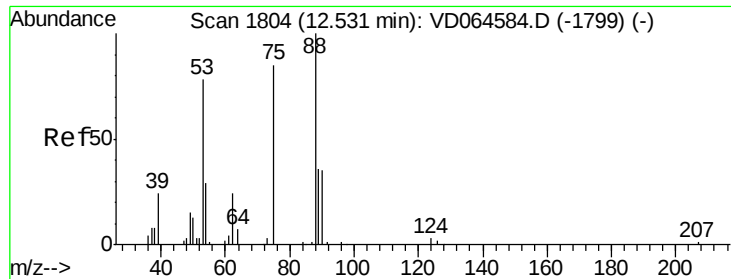
MMDadoda
1/20/2020 11:14:08 AM



#80
1,3,5-Trimethylbenzene
Concen: 52.616 ug/l
RT: 12.97 min Scan# 1878
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion: 105 Resp: 751843
Ion Ratio Lower Upper
105 100
120 50.0 25.0 75.0





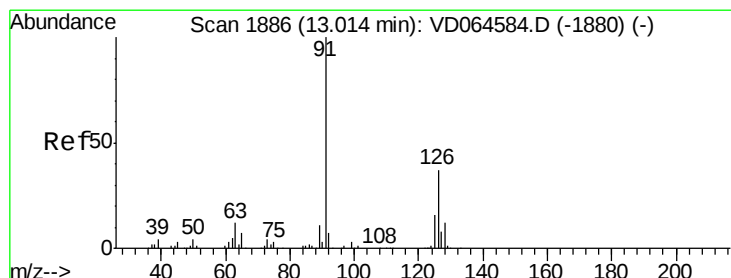
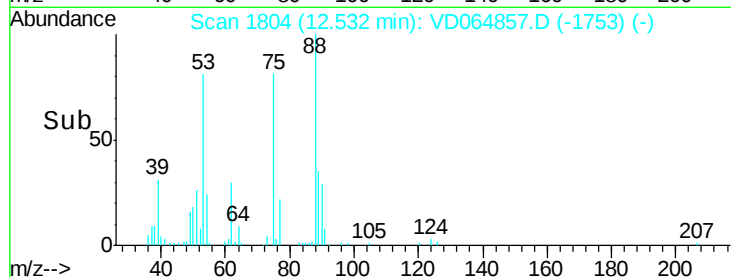
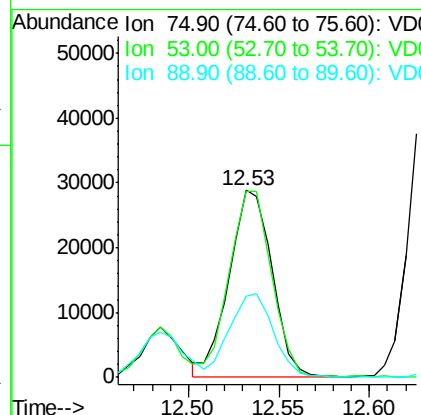
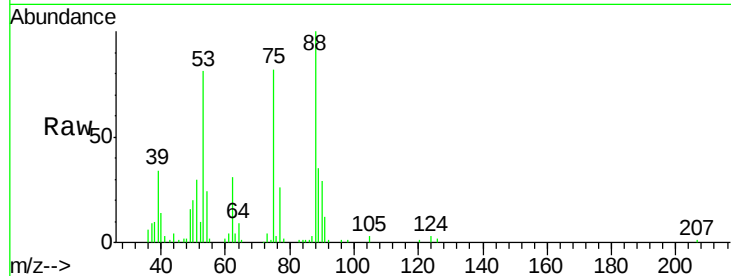
#81
trans-1,4-Dichloro-2-butene
Concen: 51.969 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	98.9	78.8	118.2
89	45.3	38.3	57.5

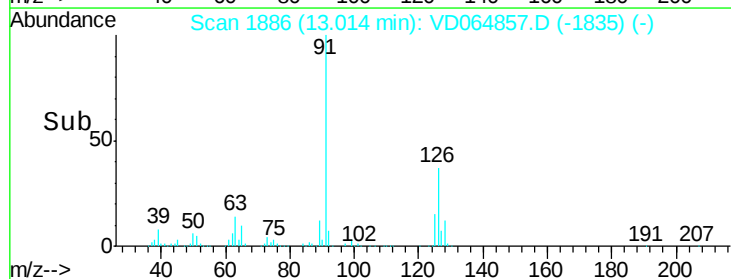
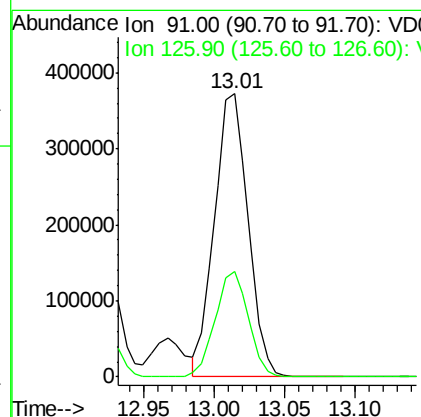
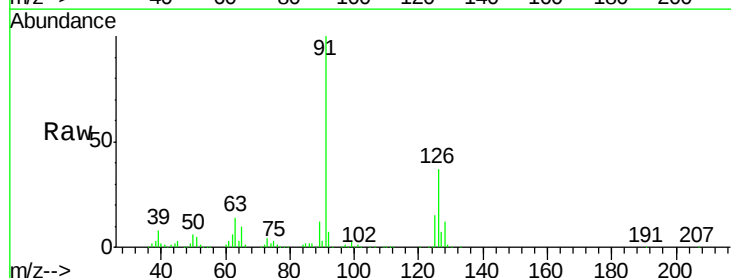
Manual Integrations
APPROVED

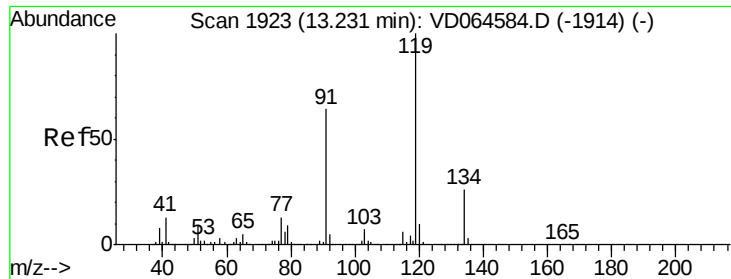
MMDadoda
1/20/2020 11:14:08 AM



#82
4-Chlorotoluene
Concen: 51.845 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.7	17.8	53.5





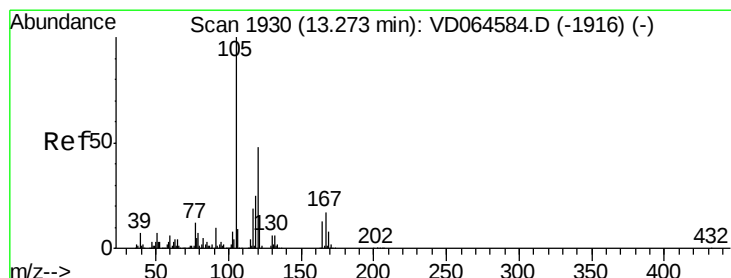
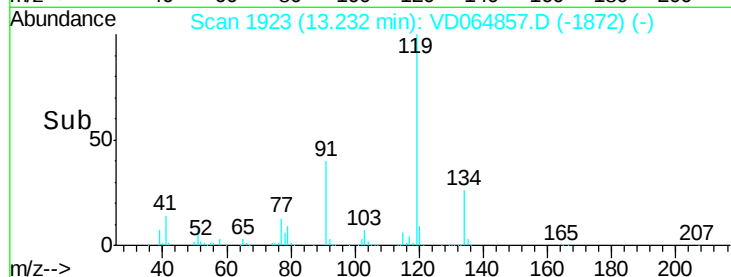
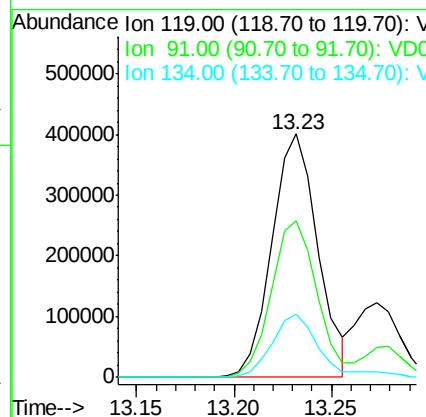
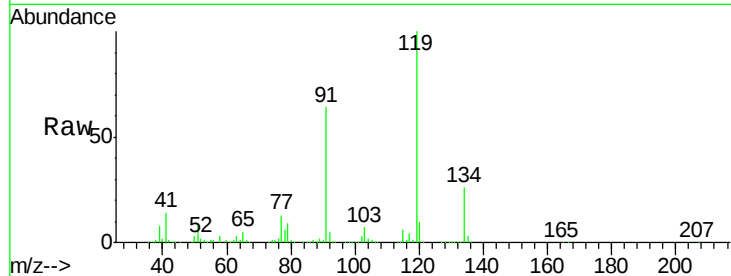
#83
tert-Butylbenzene
Concen: 52.580 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.5	30.8	92.4
134	27.3	12.8	38.3

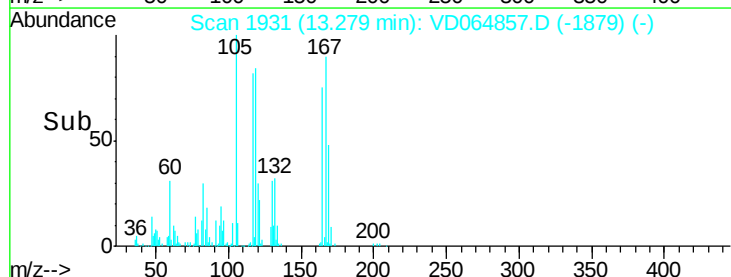
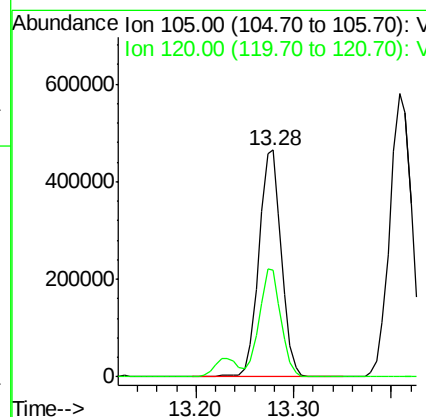
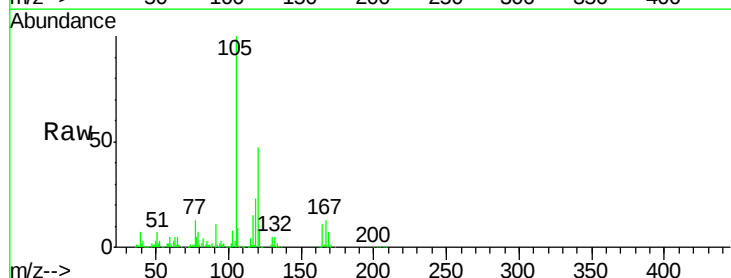
Manual Integrations
APPROVED

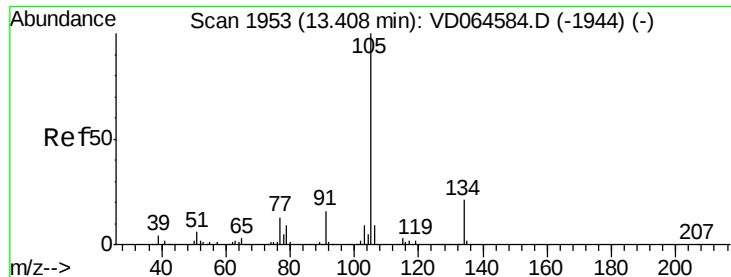
MMDadoda
1/20/2020 11:14:08 AM



#84
1,2,4-Trimethylbenzene
Concen: 52.972 ug/l
RT: 13.28 min Scan# 1931
Delta R.T. 0.01 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.8	71.2





#85

sec-Butylbenzene

Concen: 53.645 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 912430

Ion Ratio Lower Upper

105 100

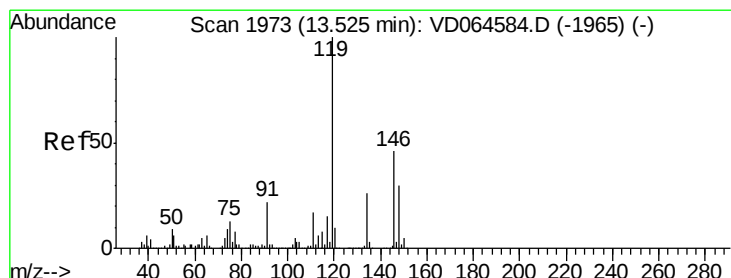
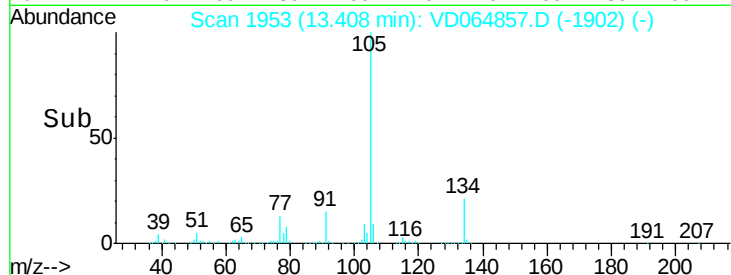
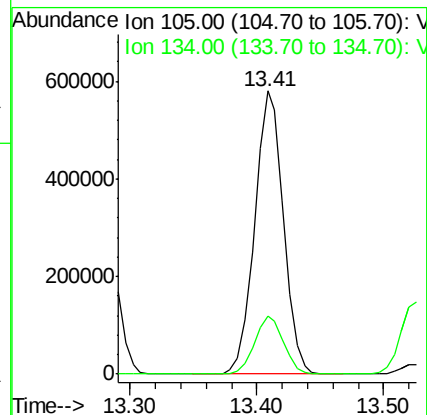
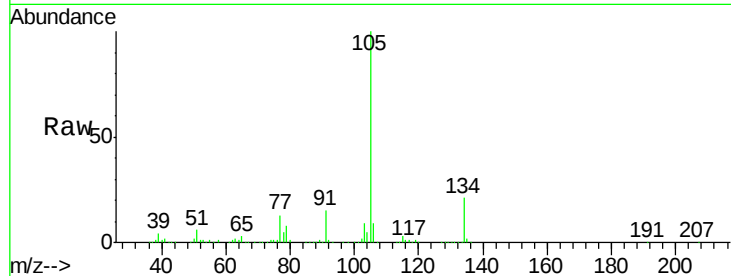
134 20.6 10.6 31.8

Manual Integrations

APPROVED

MMDadoda

1/20/2020 11:14:08 AM



#86

p-Isopropyltoluene

Concen: 53.029 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064857.D

Acq: 17 Jan 2020 12:17

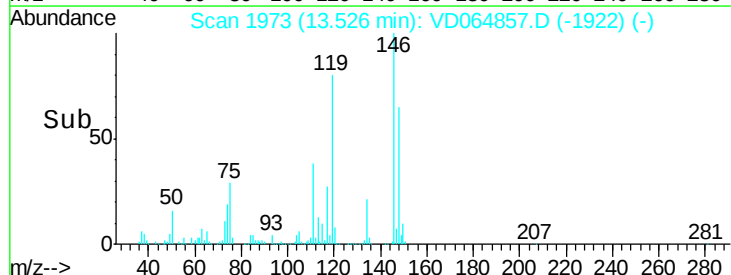
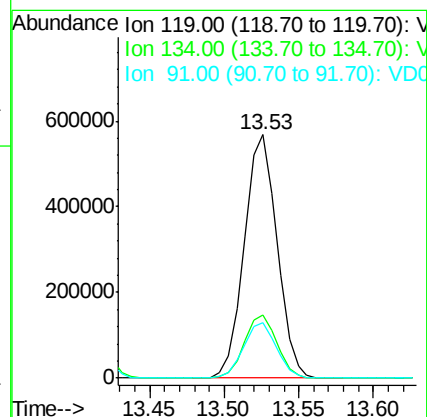
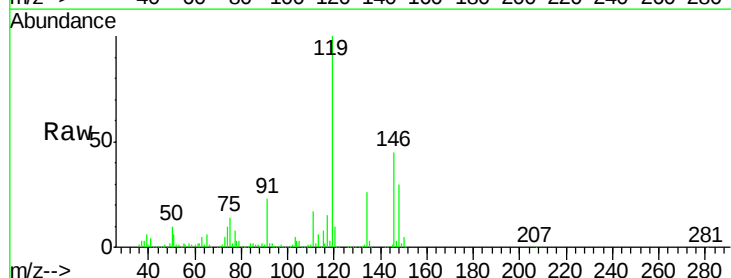
Tgt Ion:119 Resp: 862444

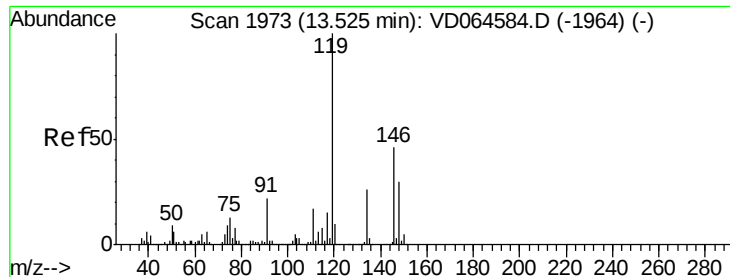
Ion Ratio Lower Upper

119 100

134 26.1 13.4 40.1

91 22.8 11.2 33.6





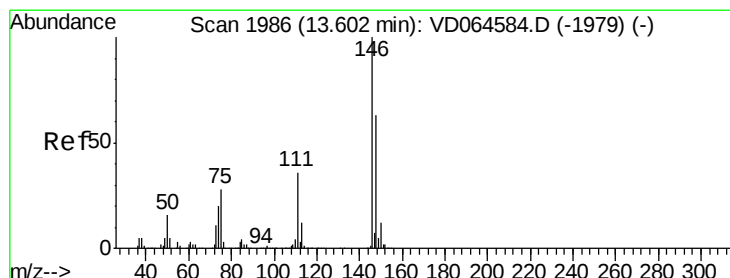
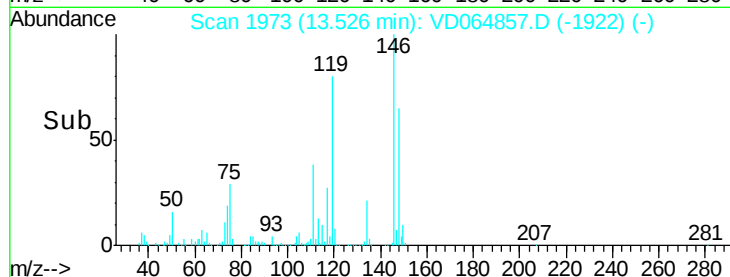
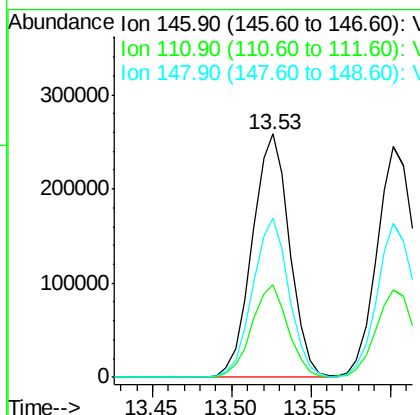
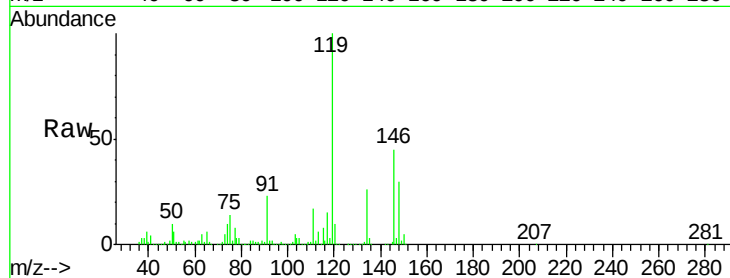
#87
 1,3-Dichlorobenzene
 Concen: 51.894 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.9	18.8	56.4
148	63.6	32.5	97.5

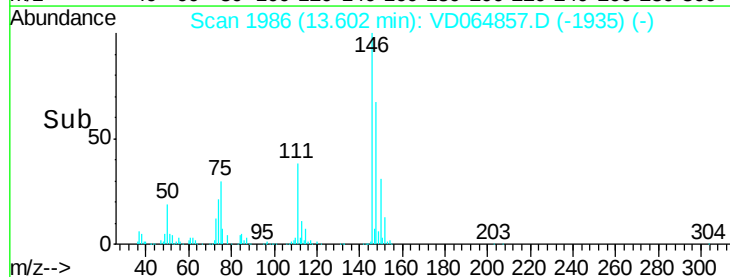
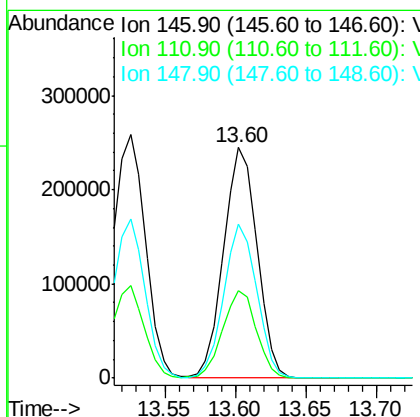
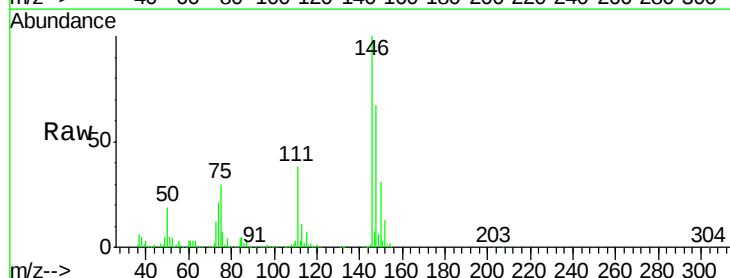
Manual Integrations
 APPROVED

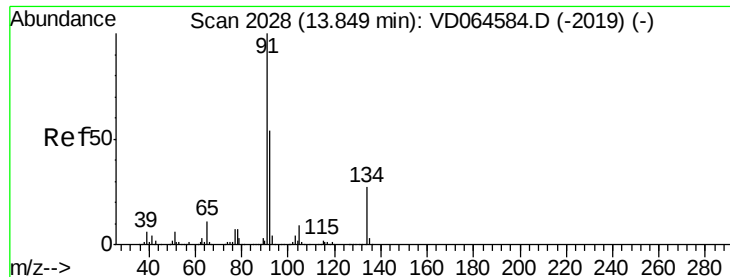
MMDadoda
 1/20/2020 11:14:08 AM



#88
 1,4-Dichlorobenzene
 Concen: 50.551 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	18.1	54.1
148	65.6	32.3	96.9





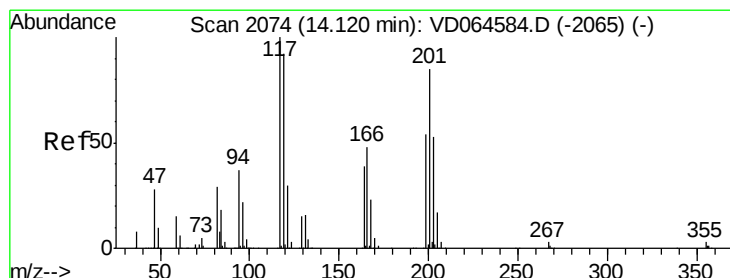
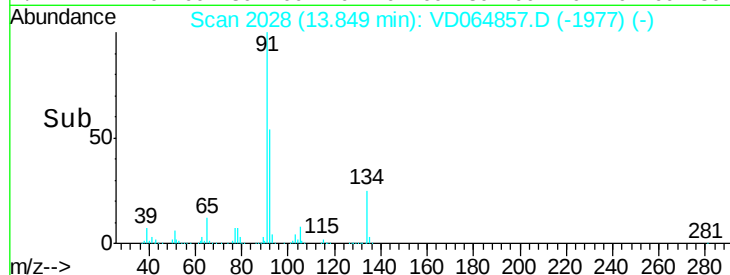
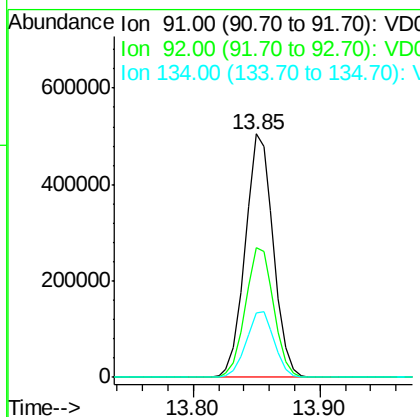
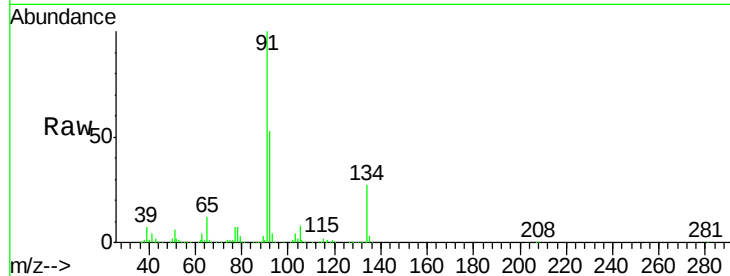
#89
n-Butylbenzene
Concen: 52.760 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.8	80.4
134	27.1	14.0	41.9

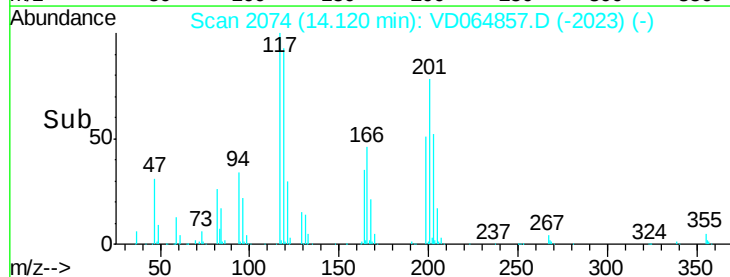
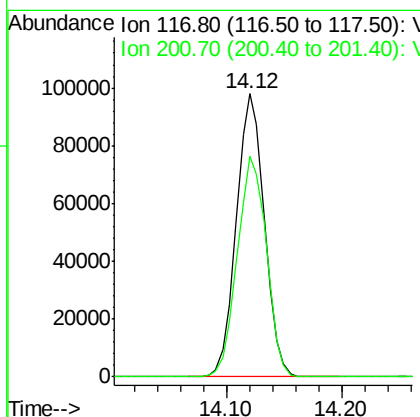
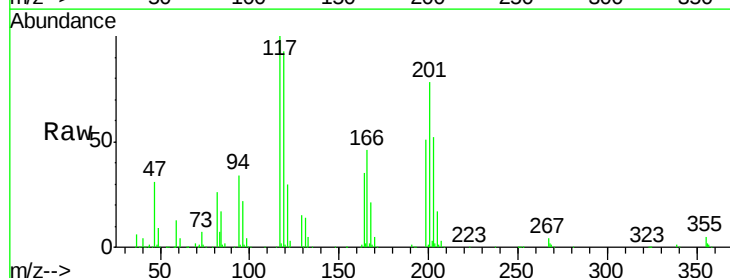
Manual Integrations
APPROVED

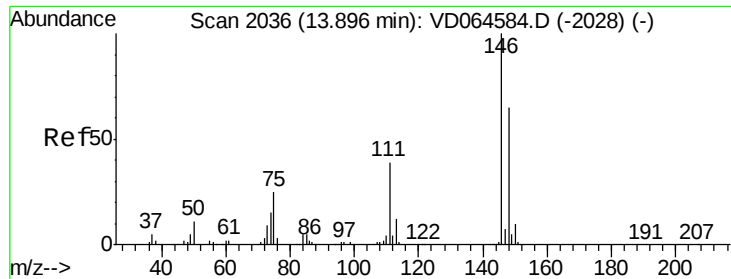
MMDadoda
1/20/2020 11:14:08 AM



#90
Hexachloroethane
Concen: 52.953 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.2	44.0	131.8





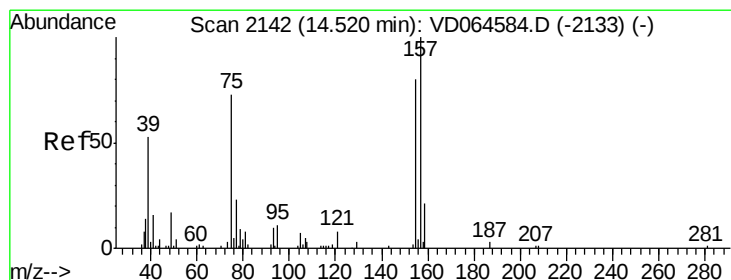
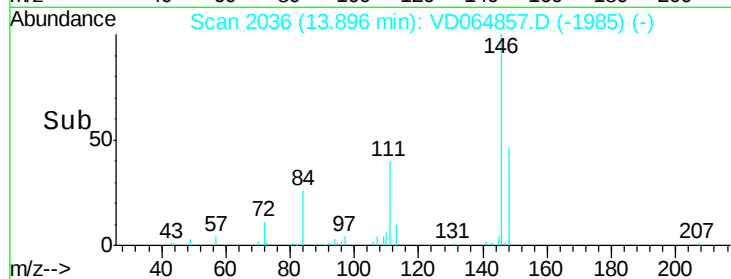
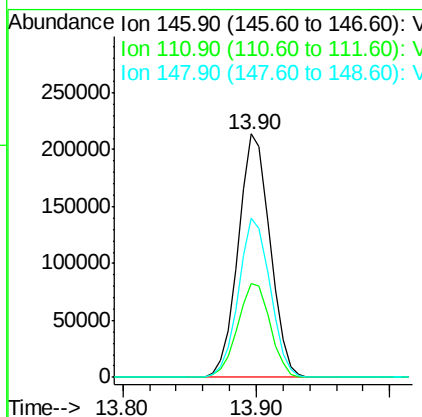
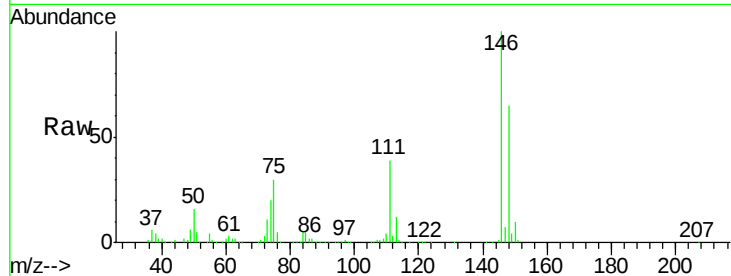
#91
 1,2-Dichlorobenzene
 Concen: 50.795 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	352916		
111	39.5	19.3	57.9	
148	65.0	31.9	95.5	

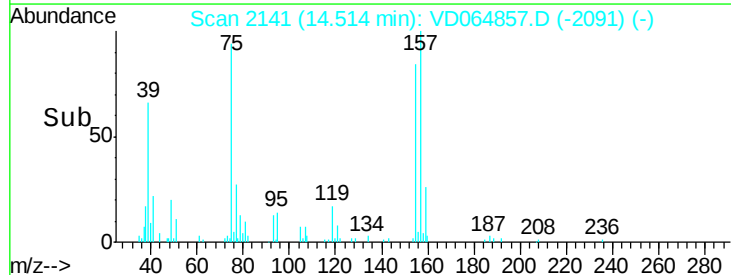
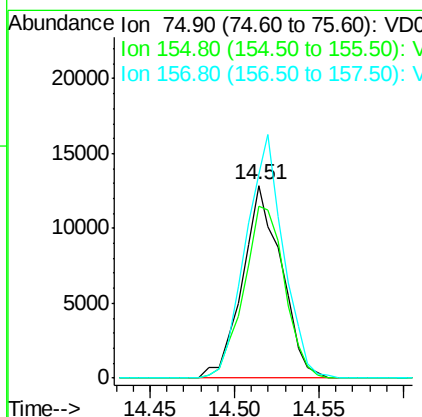
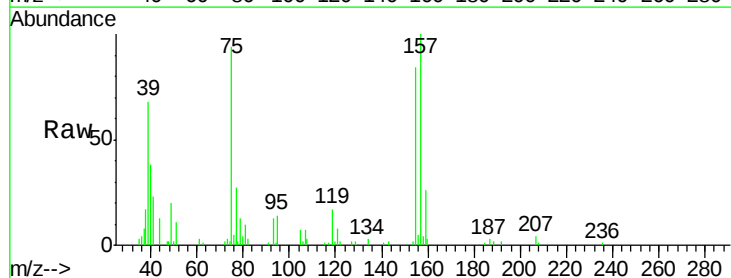
Manual Integrations
 APPROVED

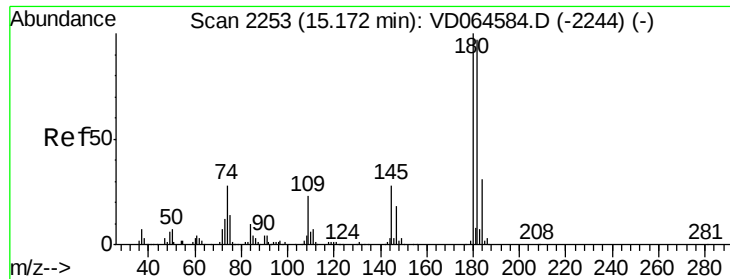
MMDadoda
 1/20/2020 11:14:08 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 46.550 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. -0.01 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	20621		
155	93.6	48.0	144.0	
157	122.5	64.1	192.3	





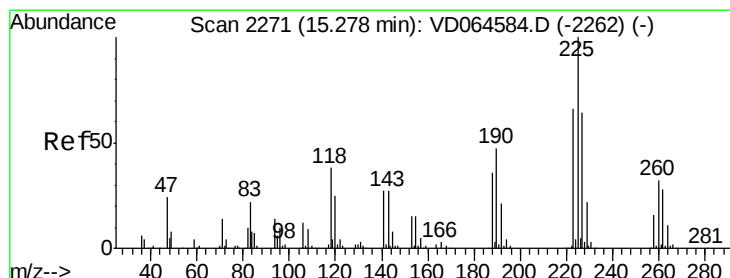
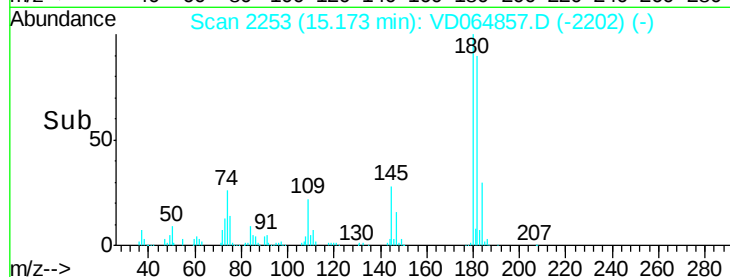
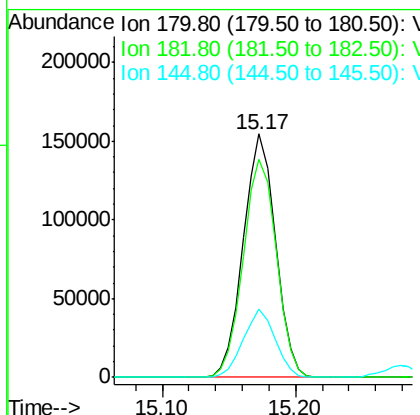
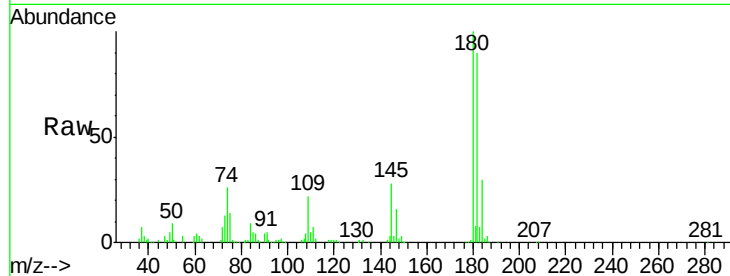
#93
 1,2,4-Trichlorobenzene
 Concen: 50.383 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	257750		
182	92.4	48.0	144.2	
145	27.6	13.8	41.4	

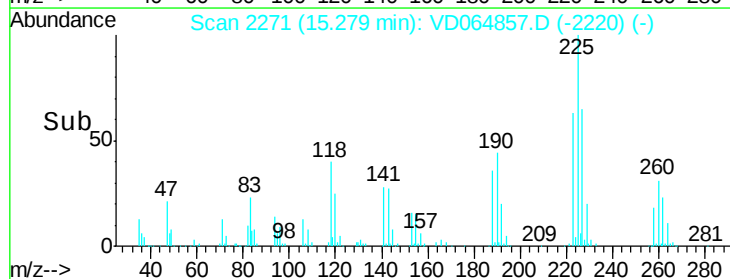
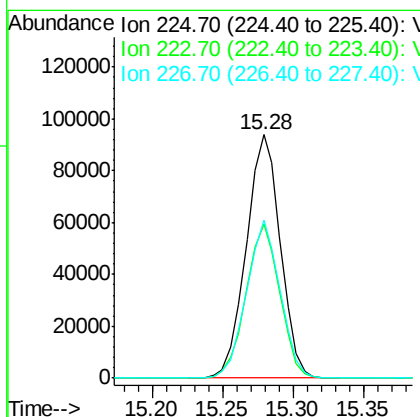
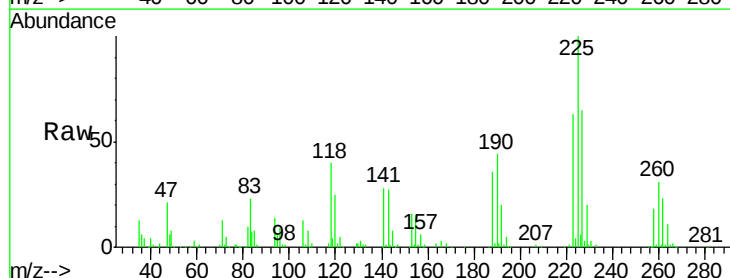
Manual Integrations
 APPROVED

MMDadoda
 1/20/2020 11:14:08 AM



#94
 Hexachlorobutadiene
 Concen: 49.397 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD064857.D
 Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	159022		
223	62.3	31.1	93.2	
227	63.6	30.9	92.7	





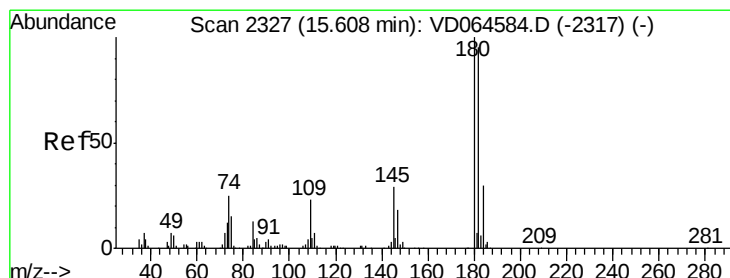
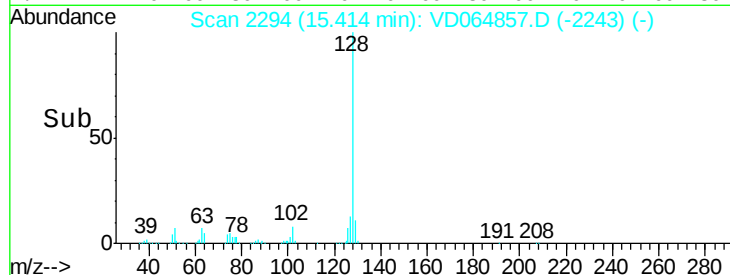
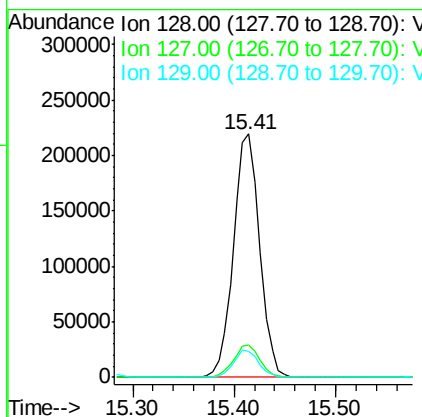
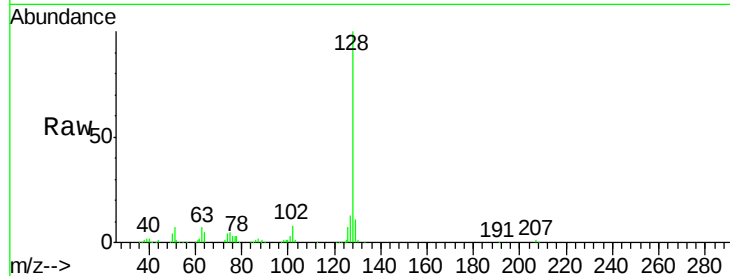
#95
Naphthalene
Concen: 48.424 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.3	15.5
129	10.7	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
1/20/2020 11:14:08 AM



#96
1,2,3-Trichlorobenzene
Concen: 49.418 ug/l
RT: 15.60 min Scan# 2326
Delta R.T. -0.01 min
Lab File: VD064857.D
Acq: 17 Jan 2020 12:17

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.9	47.9	143.7
145	29.4	14.9	44.7

