

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122719\
 Data File : VD064660.D
 Acq On : 28 Dec 2019 00:21
 Operator : VA/SY
 Sample : VD1227SBS02
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1227SBS02

Manual Integrations
 APPROVED

apatel
 12/30/2019 11:03:28 AM

Quant Time: Dec 30 04:13:02 2019
 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	370916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	569515	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	507676	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	257421	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	188459	57.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.24%	
35) Dibromofluoromethane	7.92	113	186054	53.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.50%	
50) Toluene-d8	10.34	98	703822	52.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.18%	
62) 4-Bromofluorobenzene	12.64	95	227878	53.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.70%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	57030	19.784	ug/l	98
3) Chloromethane	2.21	50	89012	22.080	ug/l	94
4) Vinyl Chloride	2.35	62	102004	20.752	ug/l	96
5) Bromomethane	2.76	94	80527	22.531	ug/l	97
6) Chloroethane	2.92	64	72688	22.069	ug/l	97
7) Trichlorofluoromethane	3.27	101	172861	20.886	ug/l	100
8) Diethyl Ether	3.71	74	38617	23.496	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	4.09	101	68137	19.879	ug/l	100
10) Methyl Iodide	4.30	142	75435	20.489	ug/l	99
11) Tert butyl alcohol	5.26	59	21723	115.890	ug/l #	87
12) 1,1-Dichloroethene	4.06	96	68212	20.903	ug/l	92
13) Acrolein	3.92	56	25765	98.629	ug/l	92
14) Allyl chloride	4.71	41	110114	21.643	ug/l	99
15) Acrylonitrile	5.44	53	78600	114.815	ug/l	97
16) Acetone	4.16	43	68931	95.673	ug/l	92
17) Carbon Disulfide	4.40	76	216899	20.556	ug/l	99
18) Methyl Acetate	4.73	43	45940	24.949	ug/l	100
19) Methyl tert-butyl Ether	5.48	73	165843	22.881	ug/l	99
20) Methylene Chloride	4.96	84	88620	23.946	ug/l	98
21) trans-1,2-Dichloroethene	5.47	96	82011	22.068	ug/l	97
22) Diisopropyl ether	6.37	45	235561	23.212	ug/l	99
23) Vinyl Acetate	6.31	43	635819	110.450	ug/l	99
24) 1,1-Dichloroethane	6.26	63	137183	22.518	ug/l	98
25) 2-Butanone	7.23	43	98978	110.094	ug/l	95
26) 2,2-Dichloropropane	7.21	77	106909	18.874	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	90080	22.459	ug/l	98
28) Bromochloromethane	7.55	49	49196	20.773	ug/l	98
29) Tetrahydrofuran	7.57	42	62734	112.208	ug/l	99
30) Chloroform	7.71	83	148151	23.178	ug/l	99
31) Cyclohexane	7.98	56	118998	19.513	ug/l #	88
32) 1,1,1-Trichloroethane	7.91	97	128086	21.335	ug/l	99
36) 1,1-Dichloropropene	8.11	75	108433	19.781	ug/l	99
37) Ethyl Acetate	7.30	43	46786	21.726	ug/l	97
38) Carbon Tetrachloride	8.10	117	115365	19.737	ug/l	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122719\
 Data File : VD064660.D
 Acq On : 28 Dec 2019 00:21
 Operator : VA/SY
 Sample : VD1227SBSD02
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VD1227SBSD02

Manual Integrations
 APPROVED

apatel
 12/30/2019 11:03:28 AM

Quant Time: Dec 30 04:13:02 2019
 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	121751	18.338	ug/l	97
40) Benzene	8.36	78	310401	20.743	ug/l	100
41) Methacrylonitrile	7.54	41	26084	20.877	ug/l	90
42) 1,2-Dichloroethane	8.43	62	93571	21.639	ug/l	99
43) Isopropyl Acetate	8.46	43	91149	21.265	ug/l	100
44) Trichloroethene	9.11	130	90598	20.609	ug/l	95
45) 1,2-Dichloropropane	9.39	63	78145	21.872	ug/l	99
46) Dibromomethane	9.48	93	43647	21.911	ug/l	98
47) Bromodichloromethane	9.66	83	114046	21.516	ug/l	98
48) Methyl methacrylate	9.46	41	43476	21.542	ug/l	94
49) 1,4-Dioxane	9.46	88	10006	435.629	ug/l	98
51) 4-Methyl-2-Pentanone	10.23	43	230650	108.869	ug/l	99
52) Toluene	10.40	92	204257	20.805	ug/l	99
53) t-1,3-Dichloropropene	10.62	75	103769	20.998	ug/l	98
54) cis-1,3-Dichloropropene	10.09	75	125378	21.516	ug/l	95
55) 1,1,2-Trichloroethane	10.80	97	60202	22.425	ug/l	97
56) Ethyl methacrylate	10.66	69	71018	21.182	ug/l	100
57) 1,3-Dichloropropane	10.95	76	100135	21.664	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.94	63	138213	108.204	ug/l	100
59) 2-Hexanone	10.99	43	151635	105.453	ug/l	100
60) Dibromochloromethane	11.14	129	78918	21.258	ug/l	96
61) 1,2-Dibromoethane	11.25	107	54871	20.723	ug/l	96
64) Tetrachloroethene	10.88	164	78912	20.261	ug/l	97
65) Chlorobenzene	11.67	112	219455	20.828	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.74	131	85493	21.523	ug/l	97
67) Ethyl Benzene	11.75	91	381573	19.952	ug/l	100
68) m/p-Xylenes	11.86	106	297174	40.258	ug/l	100
69) o-Xylene	12.18	106	135893	20.381	ug/l	100
70) Styrene	12.20	104	245582	20.984	ug/l	98
71) Bromoform	12.36	173	48557	21.436	ug/l #	94
73) Isopropylbenzene	12.48	105	362038	19.680	ug/l	98
74) N-amyl acetate	12.29	43	77320	19.662	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.74	83	61443	21.262	ug/l	97
76) 1,2,3-Trichloropropane	12.79	75	38164m	18.775	ug/l	
77) Bromobenzene	12.77	156	92578	20.481	ug/l	98
78) n-propylbenzene	12.83	91	421856	19.657	ug/l	100
79) 2-Chlorotoluene	12.91	91	238766	20.253	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	300851	19.909	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.54	75	19996	20.574	ug/l	95
82) 4-Chlorotoluene	13.01	91	254132	20.256	ug/l	98
83) tert-Butylbenzene	13.23	119	255474	19.471	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	300526	19.969	ug/l	97
85) sec-Butylbenzene	13.41	105	345286	19.196	ug/l	99
86) p-Isopropyltoluene	13.53	119	332576	19.337	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	176682	20.504	ug/l	100
88) 1,4-Dichlorobenzene	13.60	146	168407	19.895	ug/l	96
89) n-Butylbenzene	13.85	91	295305	19.066	ug/l	100
90) Hexachloroethane	14.12	117	65952	20.074	ug/l	96
91) 1,2-Dichlorobenzene	13.90	146	151256	20.586	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	10288	21.961	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122719\
Data File : VD064660.D
Acq On : 28 Dec 2019 00:21
Operator : VA/SY
Sample : VD1227SBSD02
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBSD02

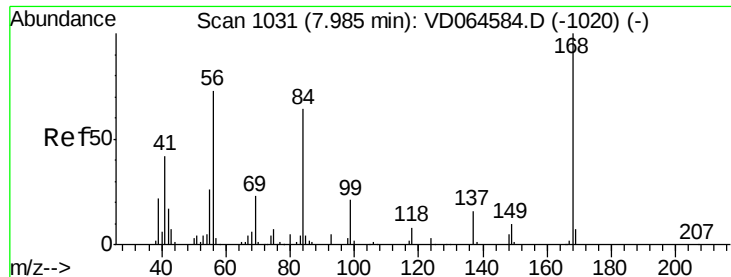
Manual Integrations
APPROVED

apatel
12/30/2019 11:03:28 AM

Quant Time: Dec 30 04:13:02 2019
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	106283	19.645	ug/l	98
94) Hexachlorobutadiene	15.28	225	63005	18.507	ug/l	96
95) Naphthalene	15.41	128	174891	20.434	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	94682	20.500	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

ClientSampleId :

VD1227SBS02

Tot Ion:168 Resp: 370916

Ion Ratio Lower Upper

168 100

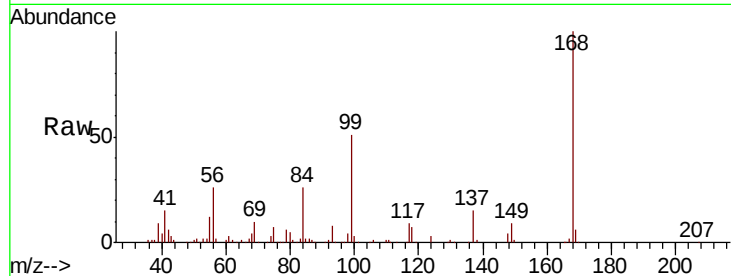
99 50.8 41.8 62.6

Manual Integrations

APPROVED

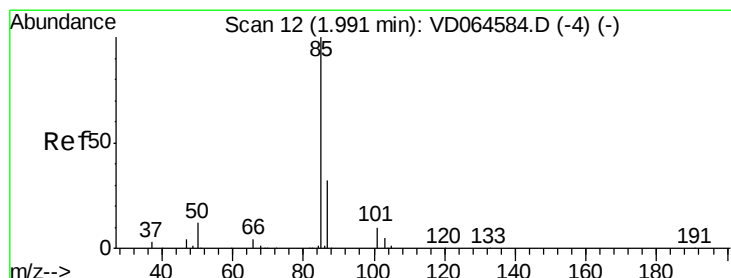
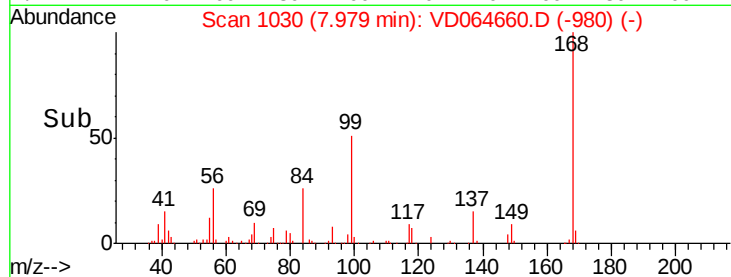
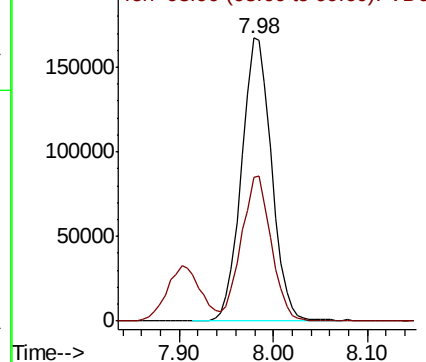
apatel

12/30/2019 11:03:28 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 19.784 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064660.D

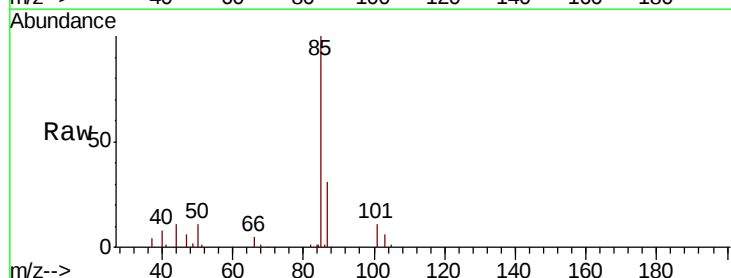
Acq: 28 Dec 2019 00:21

Tgt Ion: 85 Resp: 57030

Ion Ratio Lower Upper

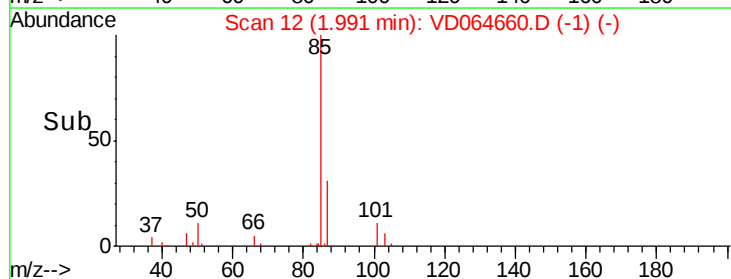
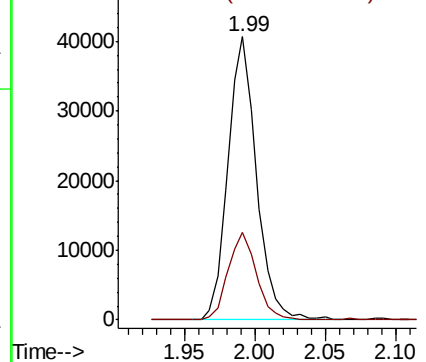
85 100

87 31.1 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 22.080 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

ClientSampleId :

VD1227SBS02

Tot Ion: 50 Resp: 89012

Ion Ratio Lower Upper

50 100

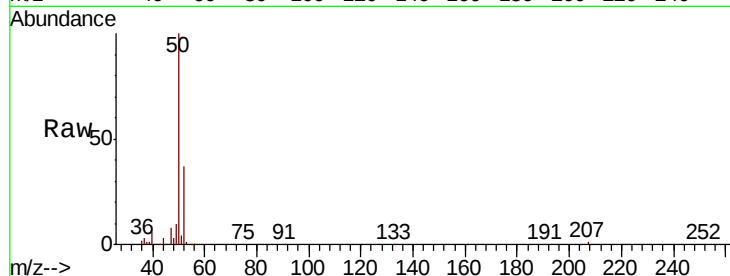
52 36.6 26.5 39.7

Manual Integrations

APPROVED

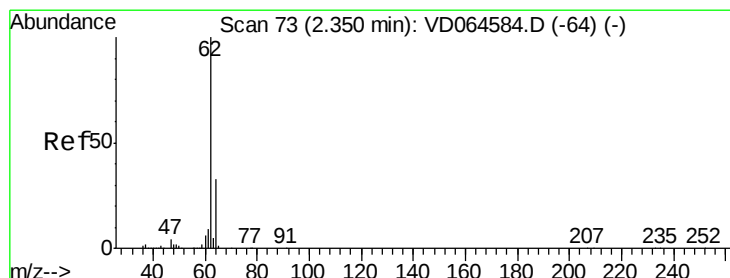
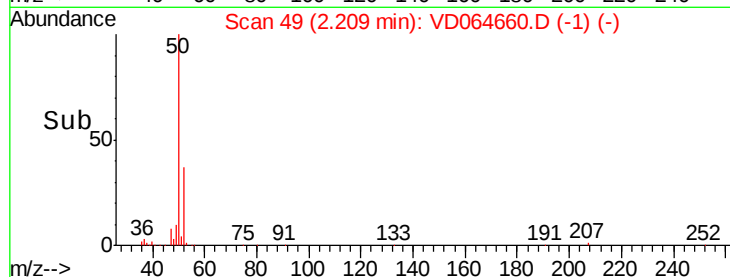
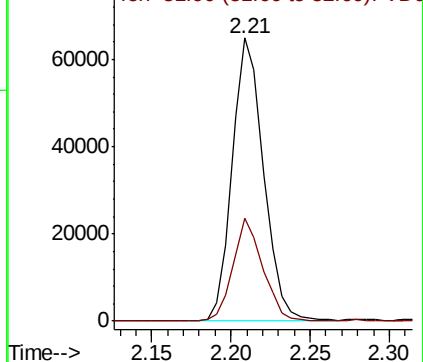
apatel

12/30/2019 11:03:28 AM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 20.752 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064660.D

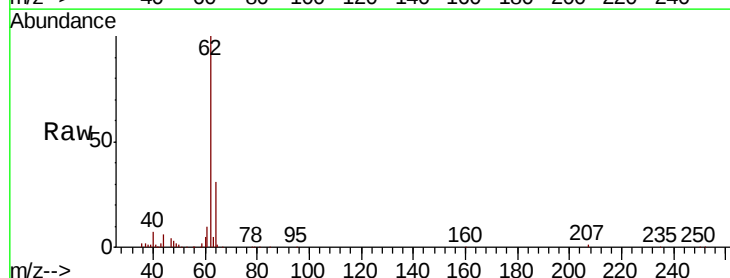
Acq: 28 Dec 2019 00:21

Tgt Ion: 62 Resp: 102004

Ion Ratio Lower Upper

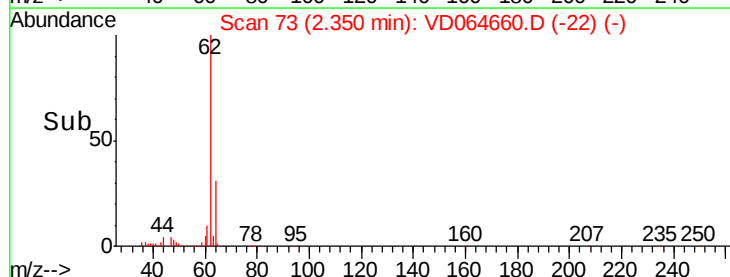
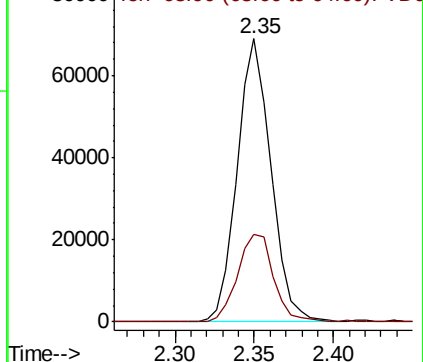
62 100

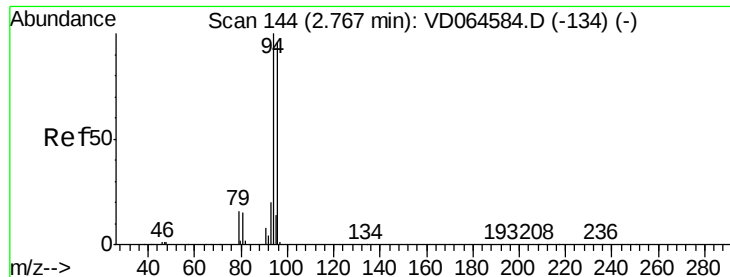
64 31.1 26.6 40.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 22.531 ug/l

RT: 2.76 min Scan# 142

Delta R.T. -0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

ClientSampleId :

VD1227SBSD02

Tot Ion: 94 Resp: 80527

Ion Ratio Lower Upper

94 100

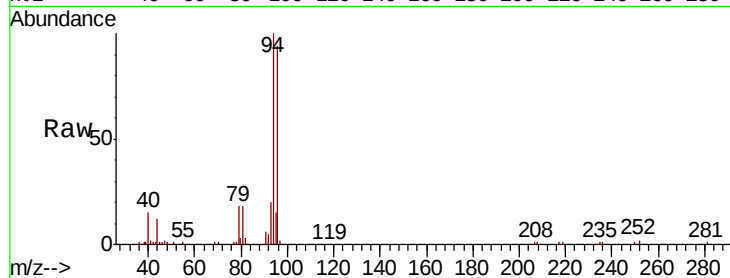
96 93.2 77.2 115.8

Manual Integrations

APPROVED

apatel

12/30/2019 11:03:28 AM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.76

40000

30000

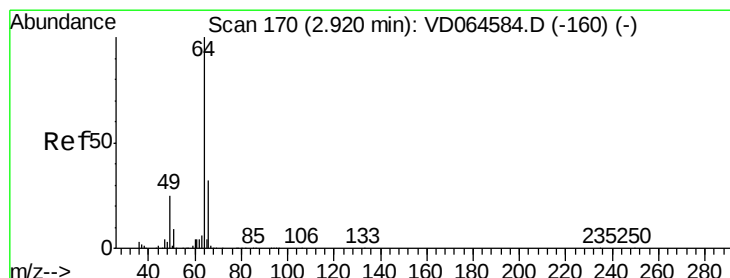
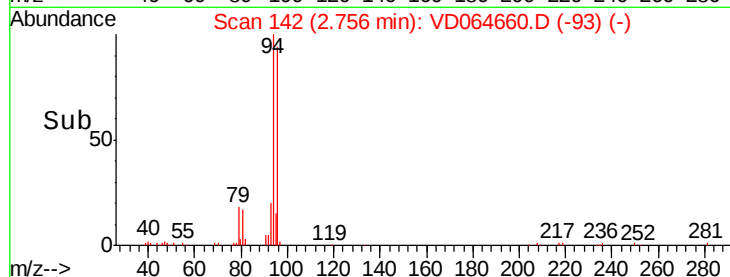
20000

10000

0

Time-->

2.70 2.80 2.90



#6

Chloroethane

Concen: 22.069 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD064660.D

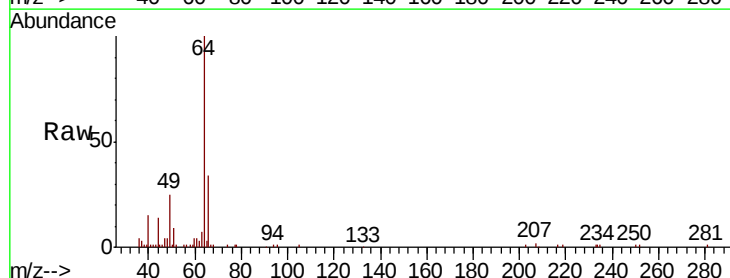
Acq: 28 Dec 2019 00:21

Tgt Ion: 64 Resp: 72688

Ion Ratio Lower Upper

64 100

66 33.8 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.92

40000

30000

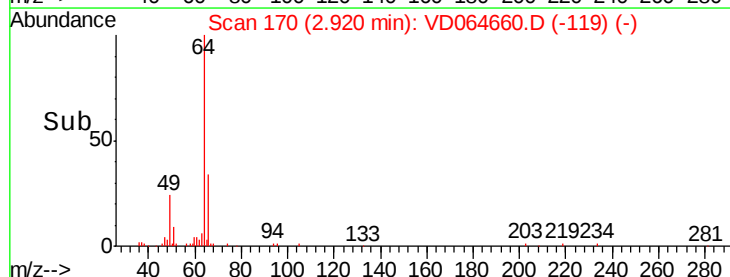
20000

10000

0

Time-->

2.85 2.90 2.95 3.00





#7

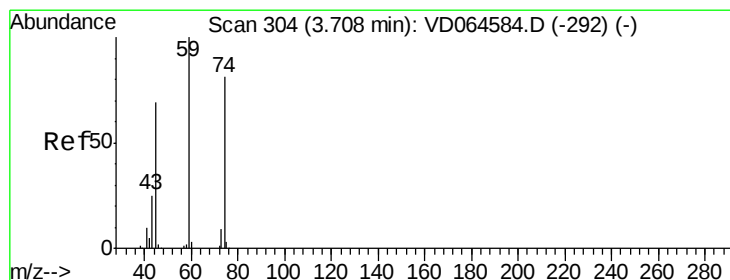
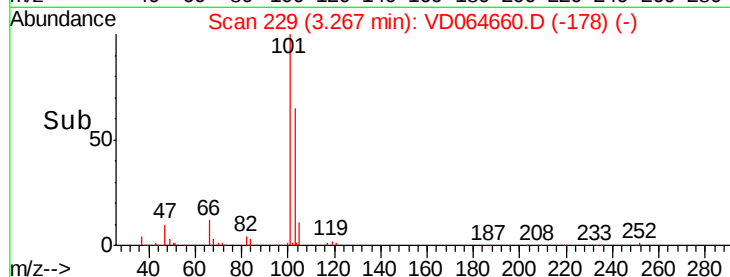
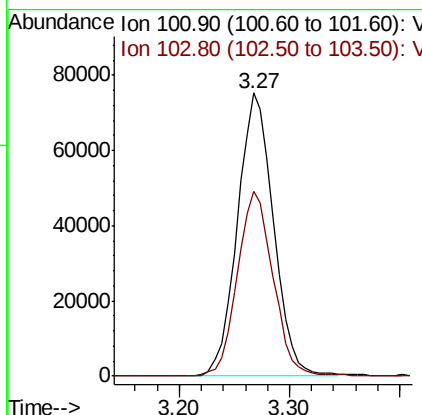
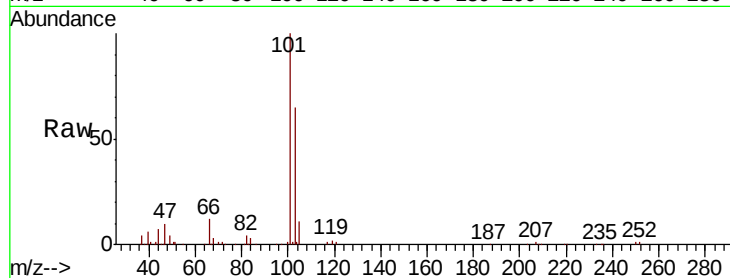
Trichlorofluoromethane
Concen: 20.886 ug/l
RT: 3.27 min Scan# 229
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.2	78.4

Manual Integrations
APPROVED

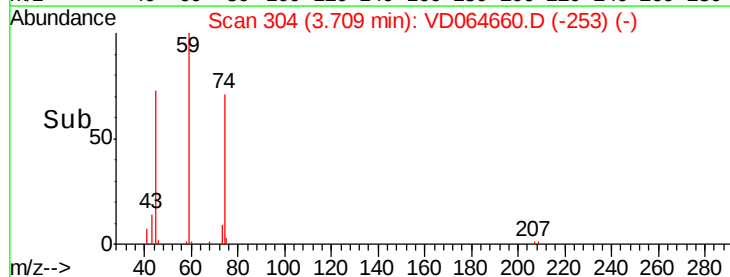
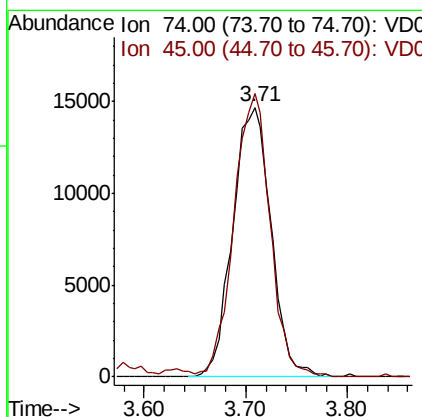
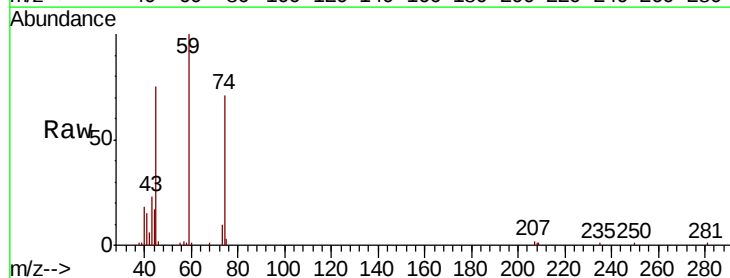
apatel
12/30/2019 11:03:28 AM



#8

Diethyl Ether
Concen: 23.496 ug/l
RT: 3.71 min Scan# 304
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Lower	Upper
74	100		
45	99.6	47.5	142.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.879 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

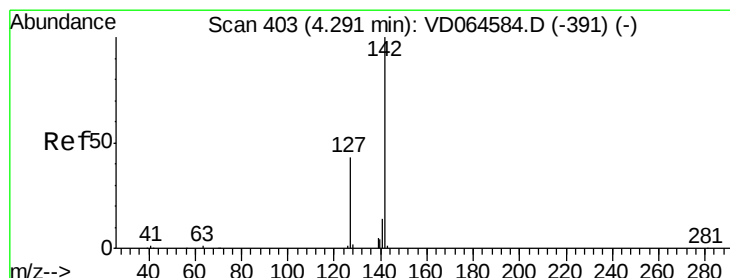
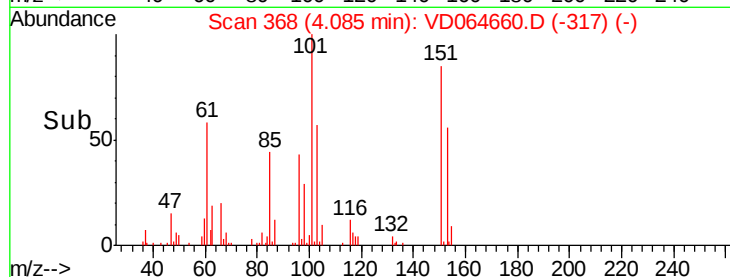
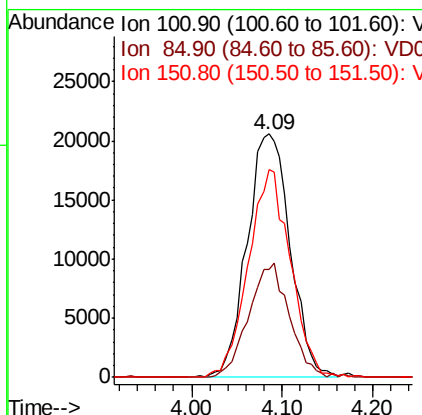
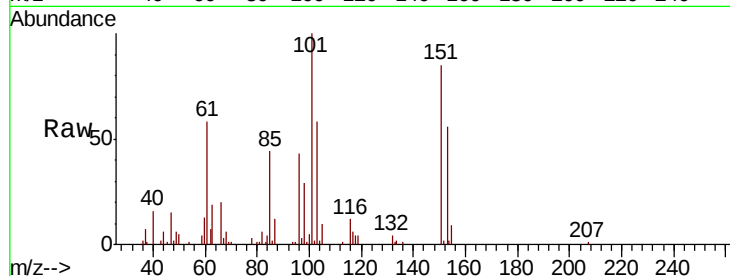
ClientSampleId :

VD1227SBSD02

Tot Ion:	101	Resp:	68137
Ion Ratio	Lower	Upper	
101	100		
85	43.8	35.2	52.8
151	83.1	66.2	99.4

Manual Integrations
APPROVED

apatel
12/30/2019 11:03:28 AM



#10

Methyl Iodide

Concen: 20.489 ug/l

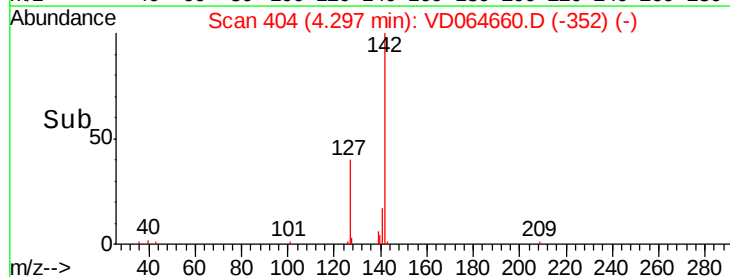
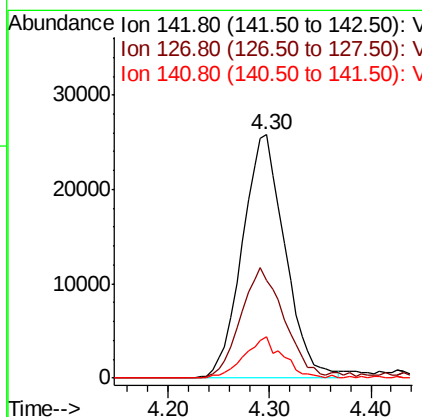
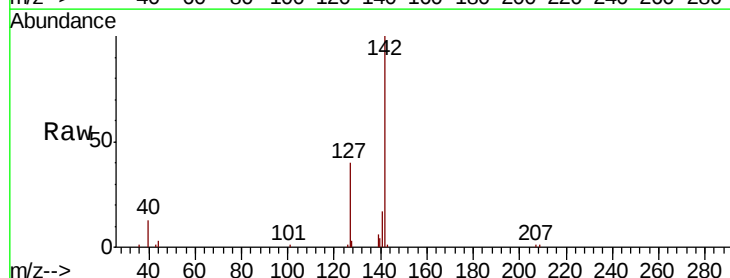
RT: 4.30 min Scan# 404

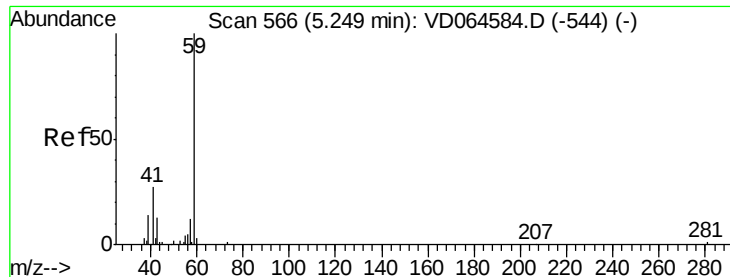
Delta R.T. 0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Tgt Ion:	142	Resp:	75435
Ion Ratio	Lower	Upper	
142	100		
127	45.9	36.2	54.4
141	15.2	11.8	17.8





#11

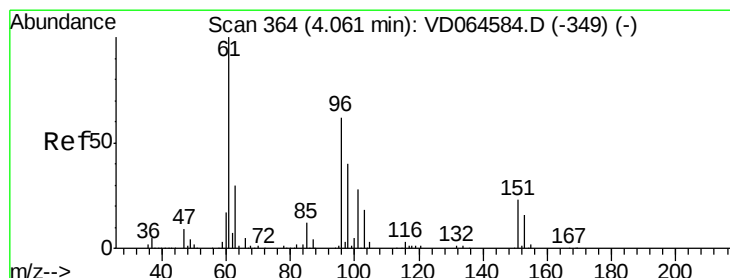
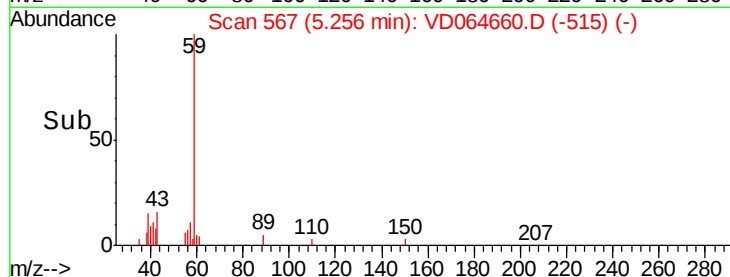
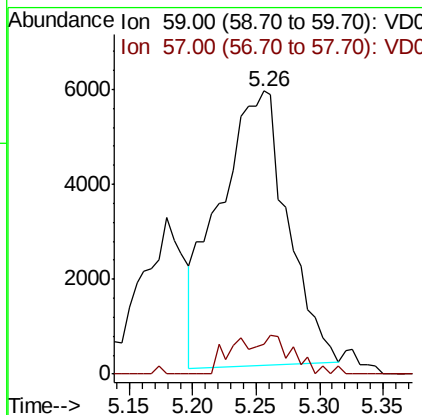
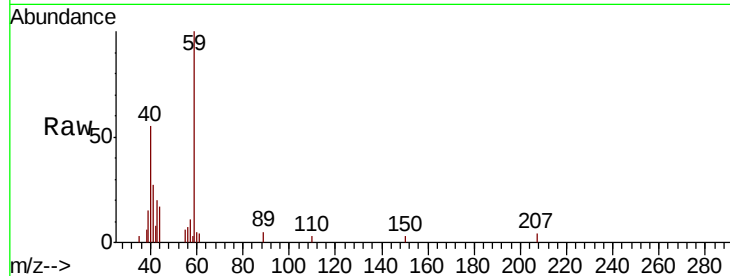
Tert butyl alcohol
Concen: 115.890 ug/l
RT: 5.26 min Scan# 567
Delta R.T. 0.01 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBSD02

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.7	9.3	13.9#

Manual Integrations
APPROVED

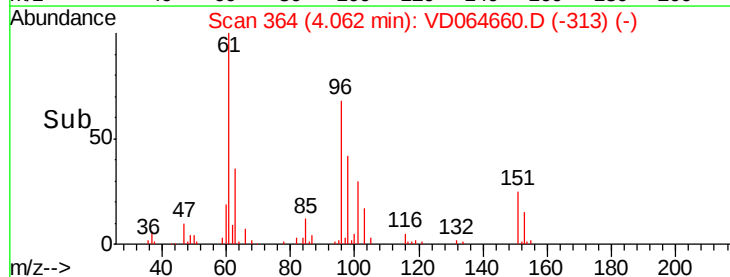
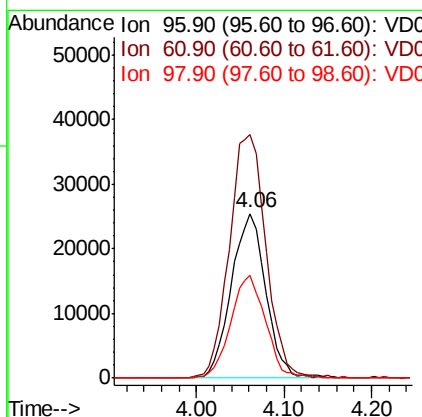
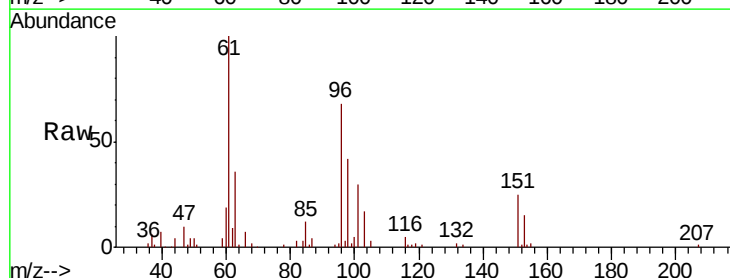
apatel
12/30/2019 11:03:28 AM

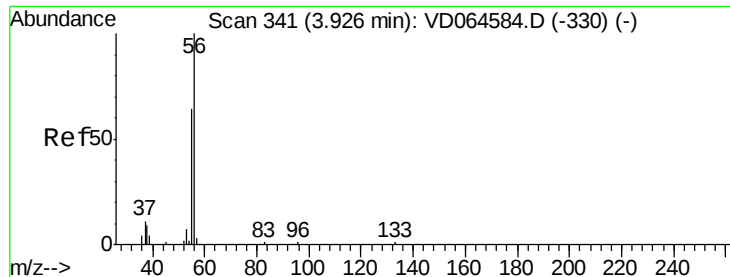


#12

1,1-Dichloroethene
Concen: 20.903 ug/l
RT: 4.06 min Scan# 364
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Lower	Upper
96	100		
61	147.8	129.4	194.0
98	62.7	51.4	77.0





#13

Acrolein

Concen: 98.629 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

ClientSampleId :

VD1227SBSD02

Tot Ion: 56 Resp: 25765

Ion Ratio Lower Upper

56 100

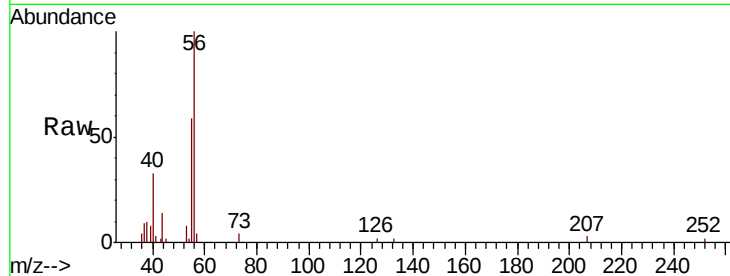
55 64.0 56.7 85.1

Manual Integrations

APPROVED

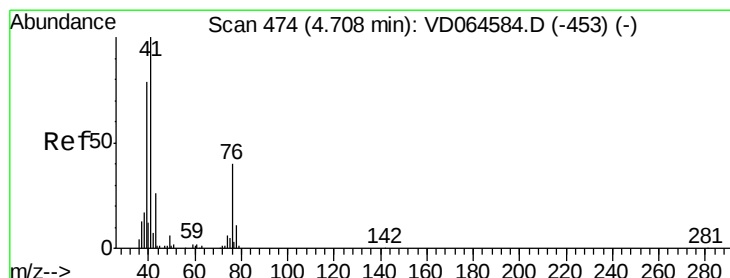
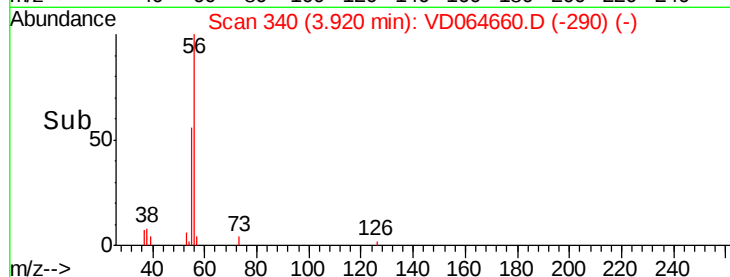
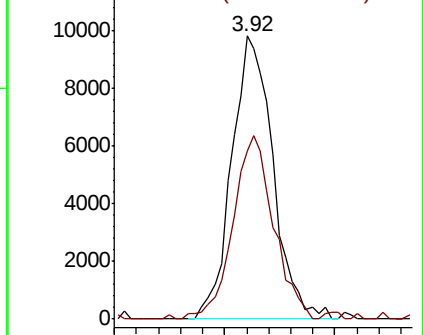
apatel

12/30/2019 11:03:28 AM



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 21.643 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

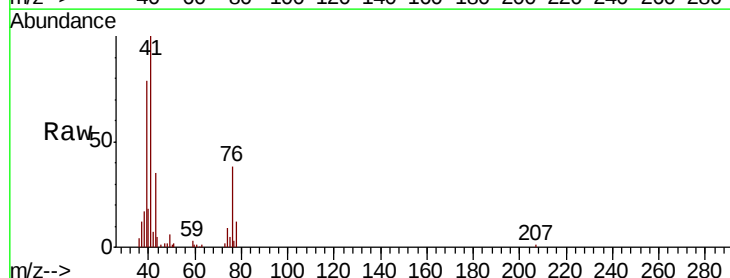
Tgt Ion: 41 Resp: 110114

Ion Ratio Lower Upper

41 100

39 76.2 62.3 93.5

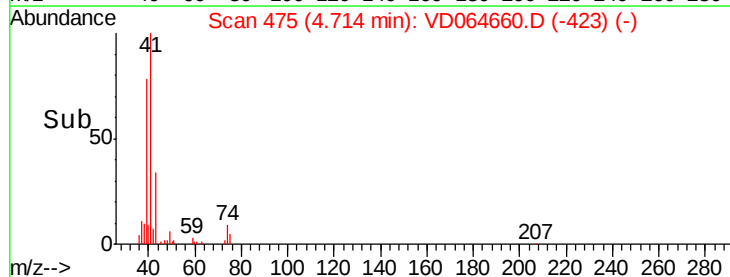
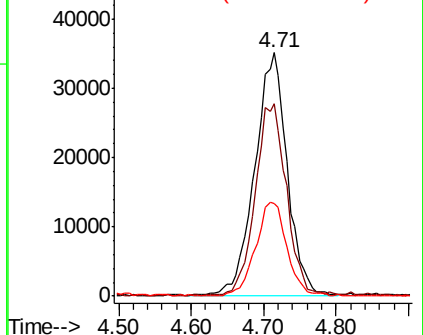
76 37.1 29.7 44.5

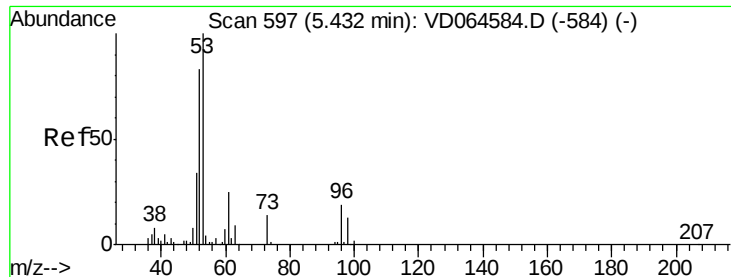


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 114.815 ug/l

RT: 5.44 min Scan# 598

Delta R.T. 0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

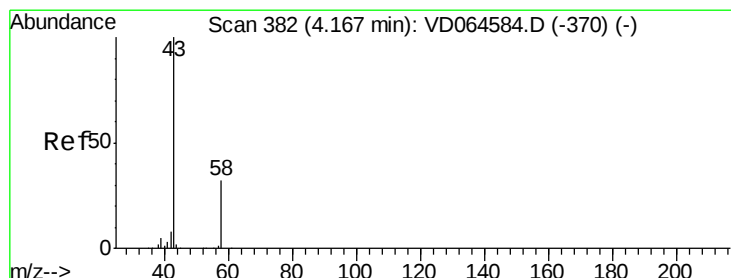
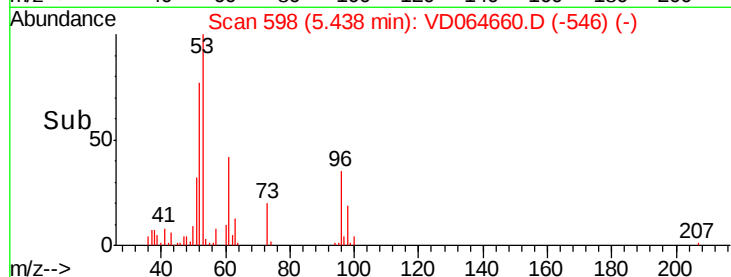
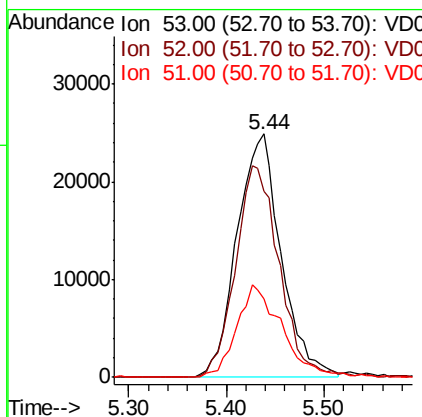
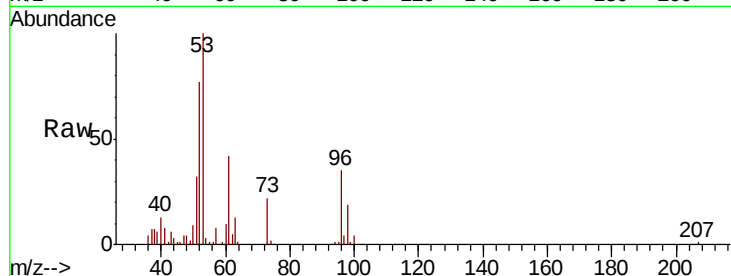
ClientSampleId :

VD1227SBS02

Tot Ion:	53	Resp:	78600
Ion Ratio	Lower	Upper	
53	100		
52	86.0	66.2	99.2
51	39.1	30.1	45.1

Manual Integrations
APPROVED

apatel
12/30/2019 11:03:28 AM



#16

Acetone

Concen: 95.673 ug/l

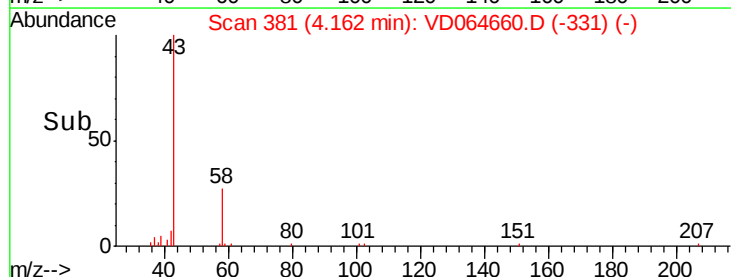
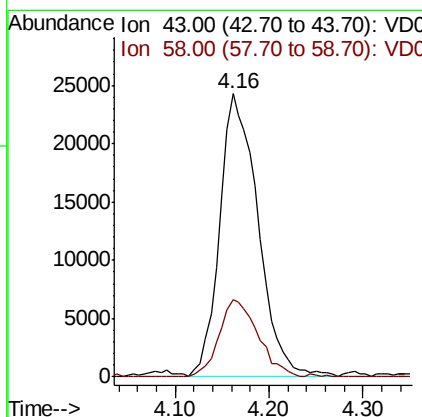
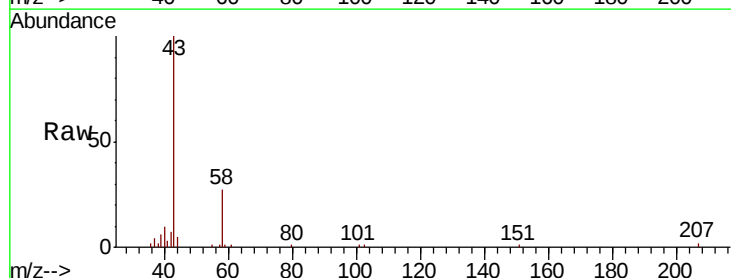
RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Tgt Ion:	43	Resp:	68931
Ion Ratio	Lower	Upper	
43	100		
58	27.5	25.8	38.6





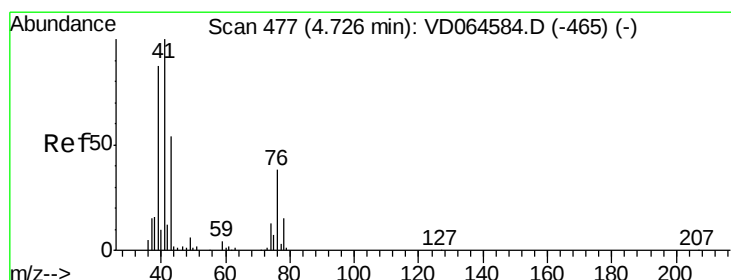
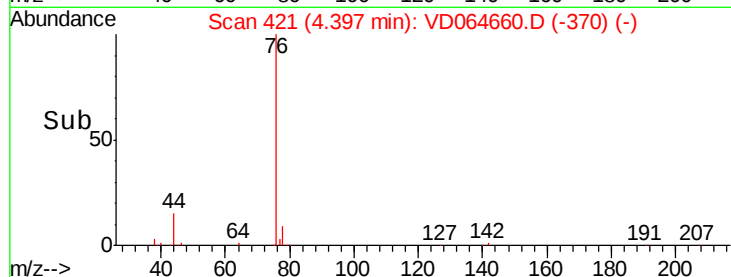
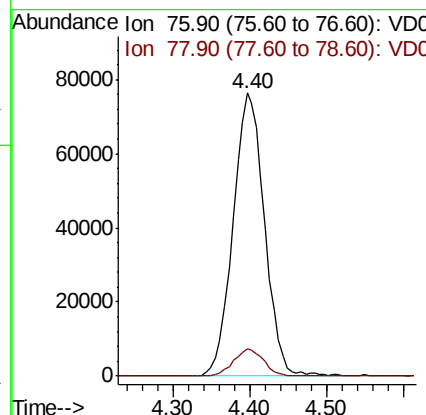
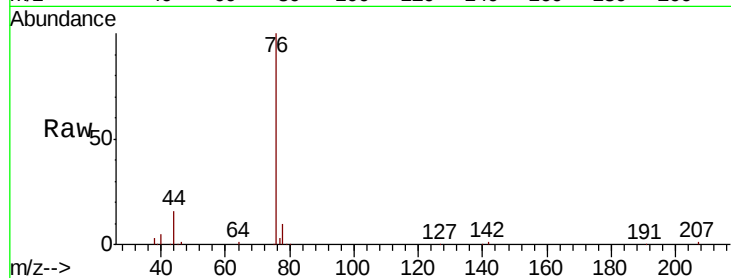
#17
Carbon Disulfide
Concen: 20.556 ug/l
RT: 4.40 min Scan# 421
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.3	10.9

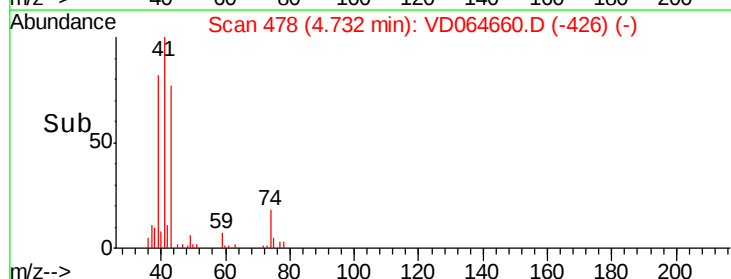
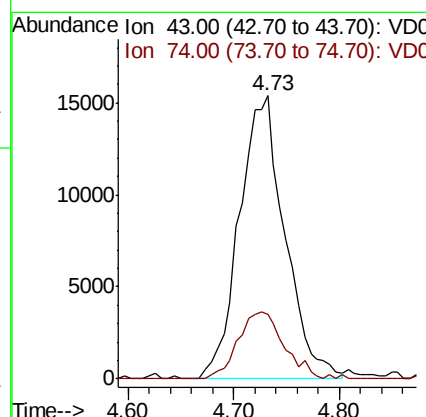
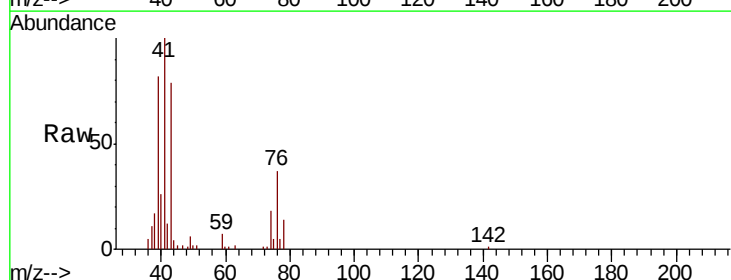
Manual Integrations
APPROVED

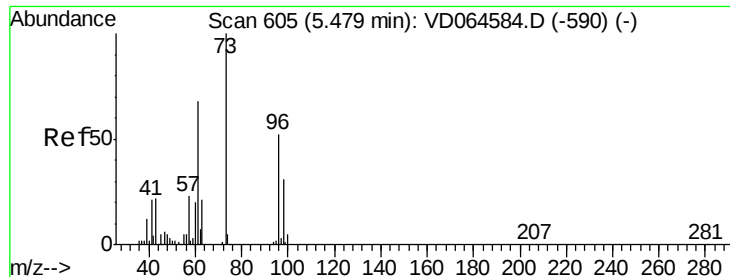
apatel
12/30/2019 11:03:28 AM



#18
Methyl Acetate
Concen: 24.949 ug/l
RT: 4.73 min Scan# 478
Delta R.T. 0.01 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.8	19.2	28.8





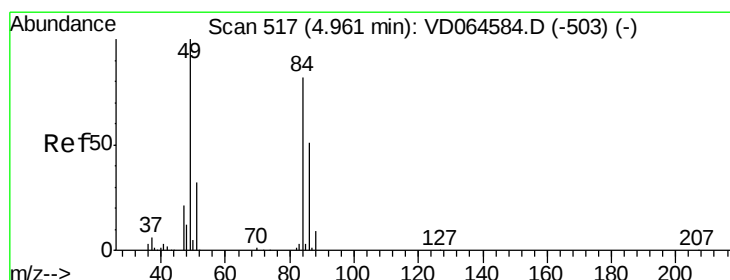
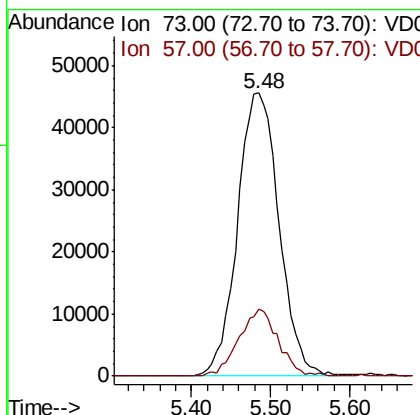
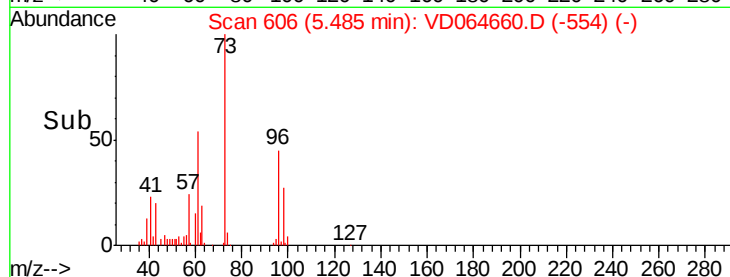
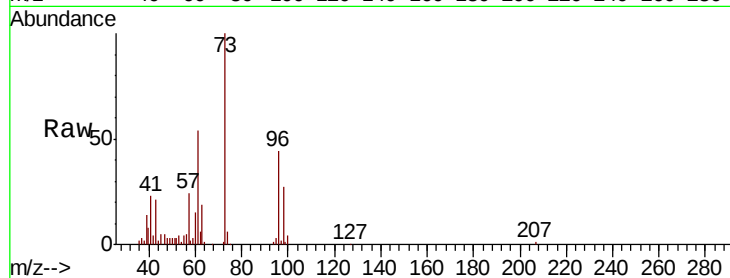
#19
Methvl tert-butvl Ether
Concen: 22.881 ug/l
RT: 5.48 min Scan# 606
Delta R.T. 0.01 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBS02

Tot Ion: 73 Resp: 165843
Ion Ratio Lower Upper
73 100
57 23.6 18.6 27.8

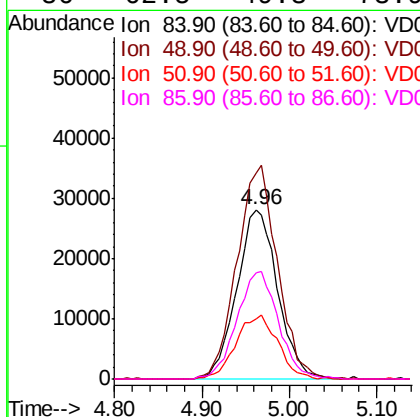
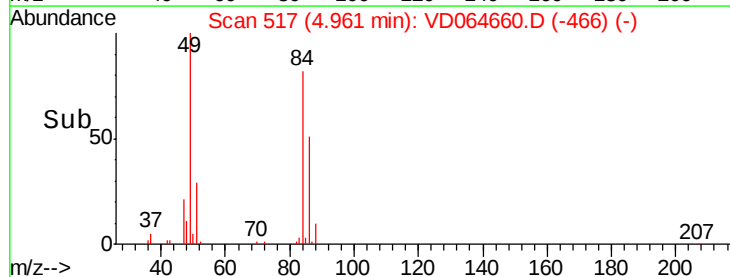
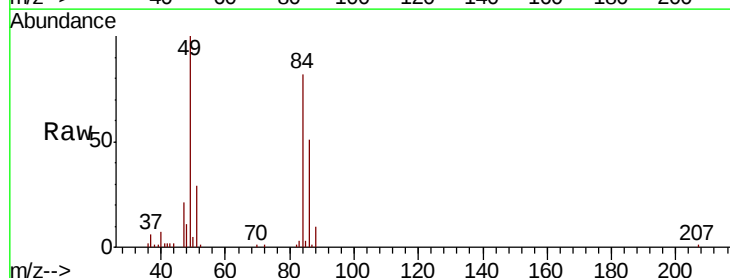
Manual Integrations
APPROVED

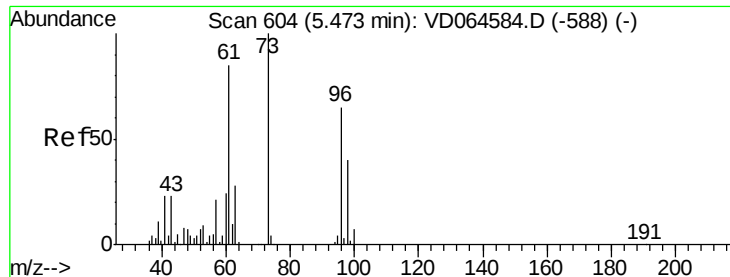
apatel
12/30/2019 11:03:28 AM



#20
Methylene Chloride
Concen: 23.946 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion: 84 Resp: 88620
Ion Ratio Lower Upper
84 100
49 122.0 97.2 145.8
51 35.5 31.4 47.0
86 62.5 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 22.068 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

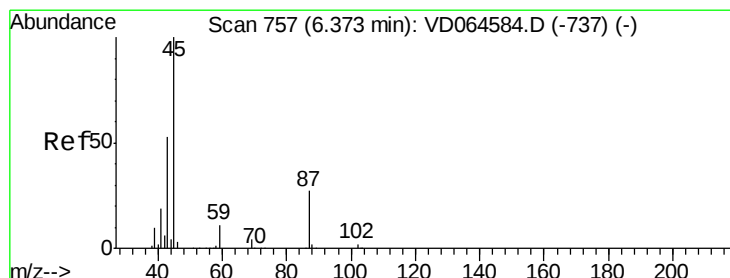
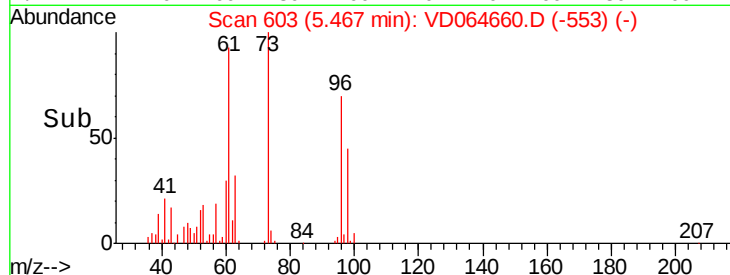
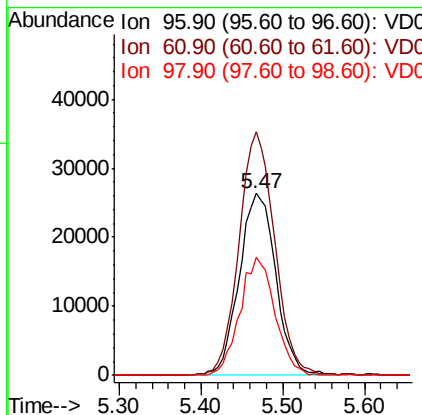
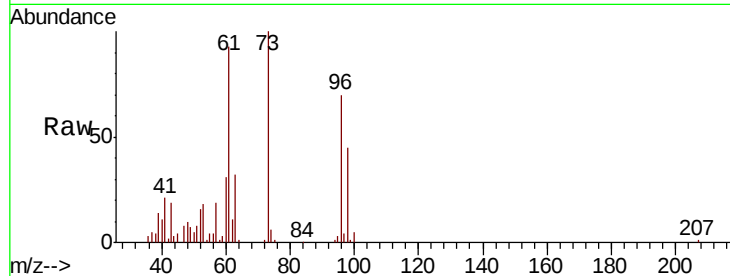
ClientSampleId :

VD1227SBS02

Tot Ion:	96	Resp:	82011
Ion	Ratio	Lower	Upper
96	100		
61	134.1	104.7	157.1
98	65.1	49.4	74.2

Manual Integrations
APPROVED

apatel
12/30/2019 11:03:28 AM



#22

Diisopropyl ether

Concen: 23.212 ug/l

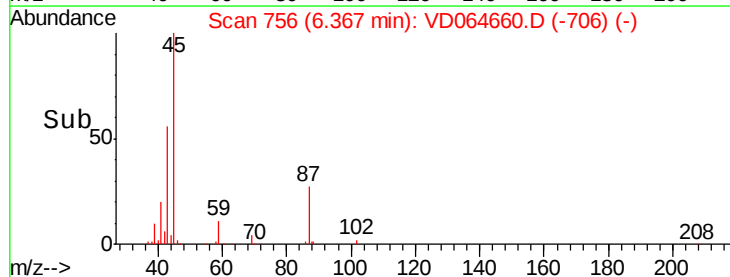
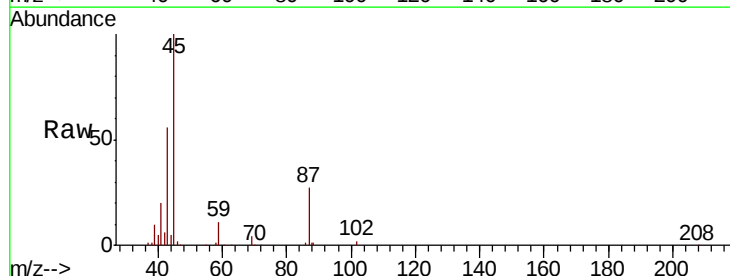
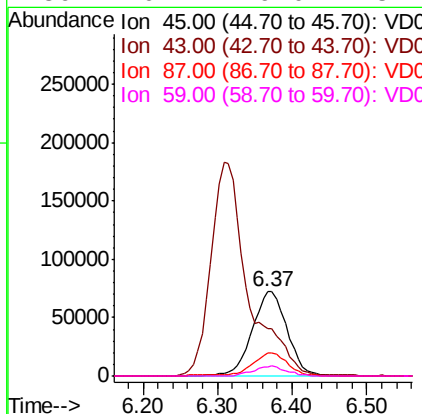
RT: 6.37 min Scan# 756

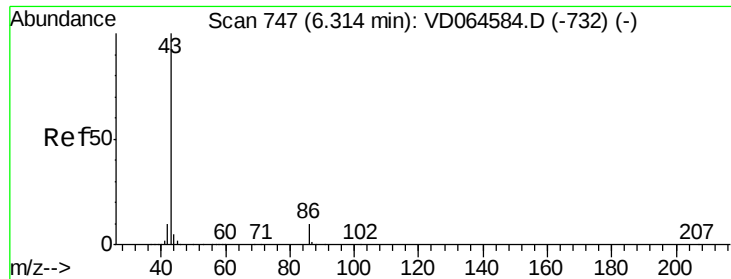
Delta R.T. -0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Tgt Ion:	45	Resp:	235561
Ion	Ratio	Lower	Upper
45	100		
43	55.5	43.2	64.8
87	27.4	21.9	32.9
59	10.7	9.0	13.4





#23

Vinyl Acetate

Concen: 110.450 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

ClientSampleId :

VD1227SBS02

Tot Ion: 43 Resp: 635819

Ion Ratio Lower Upper

43 100

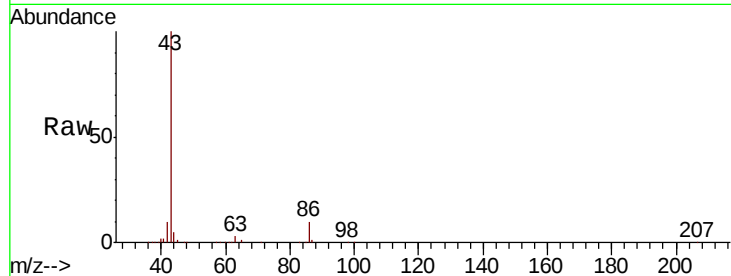
86 10.2 8.3 12.5

Manual Integrations

APPROVED

apatel

12/30/2019 11:03:28 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

200000

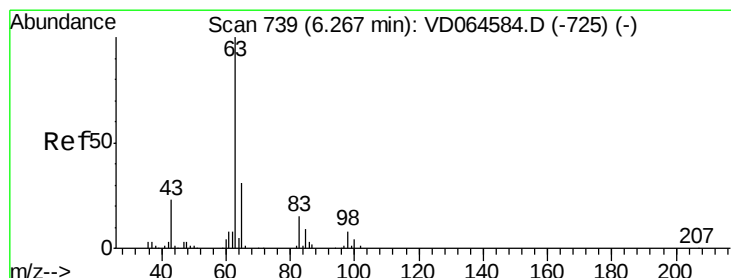
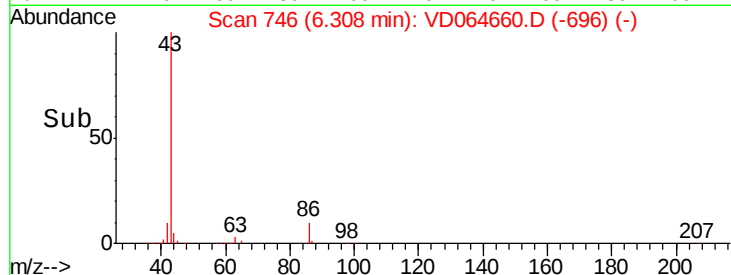
150000

100000

50000

0

Time--> 6.10 6.20 6.30 6.40 6.50



#24

1,1-Dichloroethane

Concen: 22.518 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

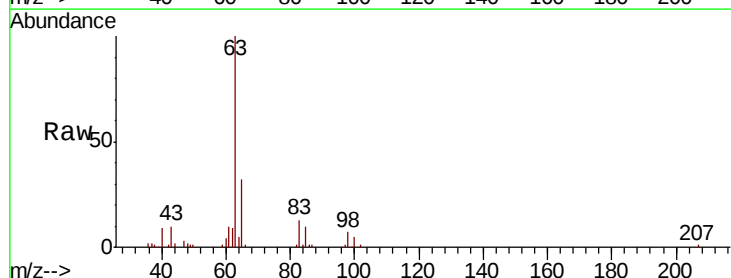
Tgt Ion: 63 Resp: 137183

Ion Ratio Lower Upper

63 100

98 7.5 4.1 12.3

100 4.9 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

6.26

60000

50000

40000

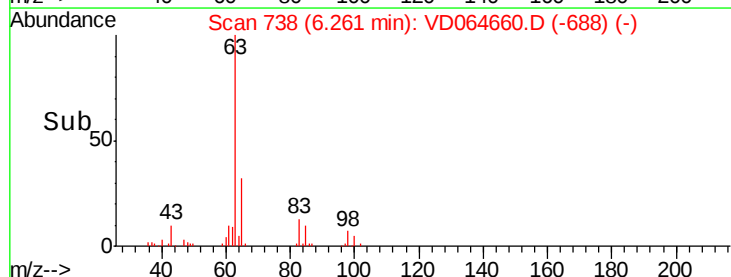
30000

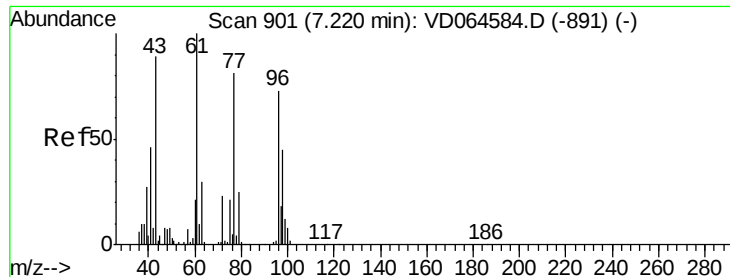
20000

10000

0

Time--> 6.20 6.30 6.40





#25

2-Butanone

Concen: 110.094 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

ClientSampleId :

VD1227SBS02

Tot Ion: 43 Resp: 98978

Ion Ratio Lower Upper

43 100

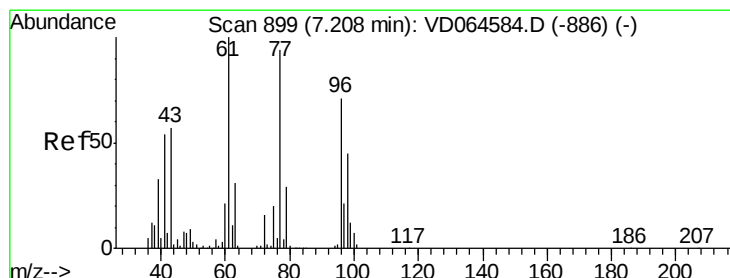
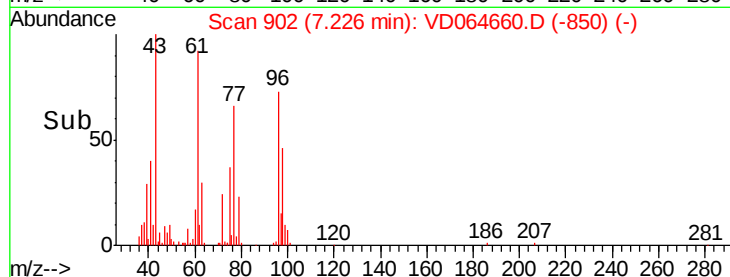
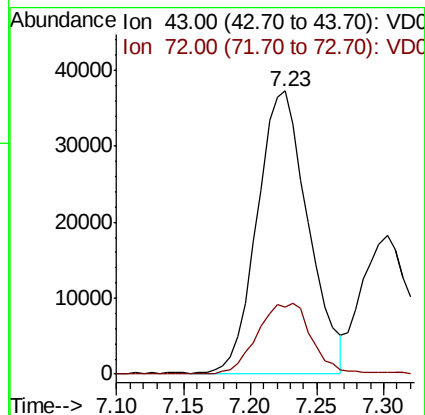
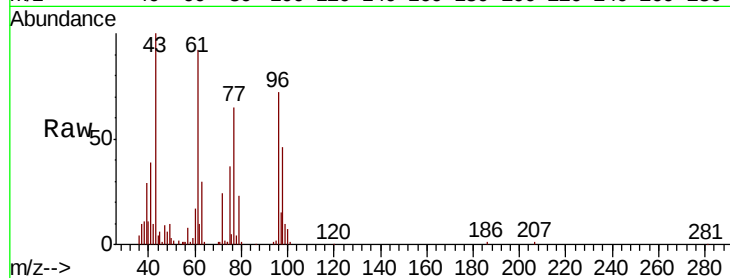
72 23.5 20.7 31.1

Manual Integrations

APPROVED

apatel

12/30/2019 11:03:28 AM



#26

2,2-Dichloropropane

Concen: 18.874 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.01 min

Lab File: VD064660.D

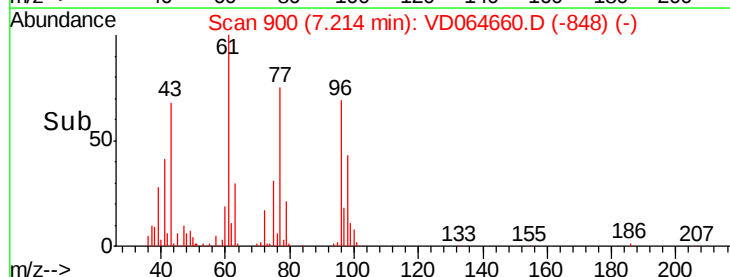
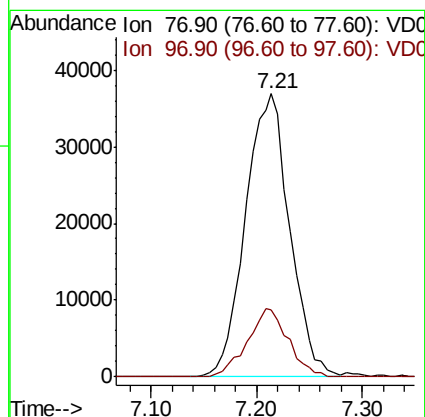
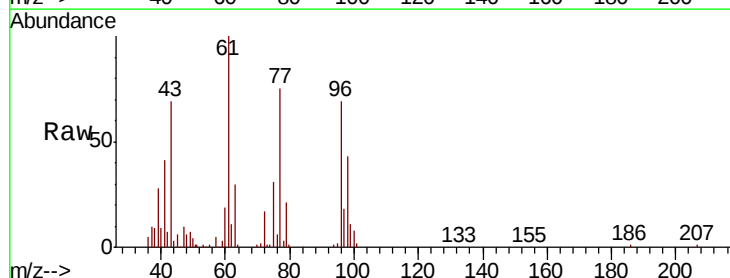
Acq: 28 Dec 2019 00:21

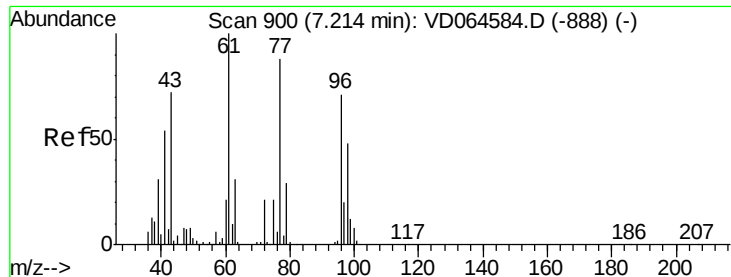
Tgt Ion: 77 Resp: 106909

Ion Ratio Lower Upper

77 100

97 22.3 11.2 33.6





#27

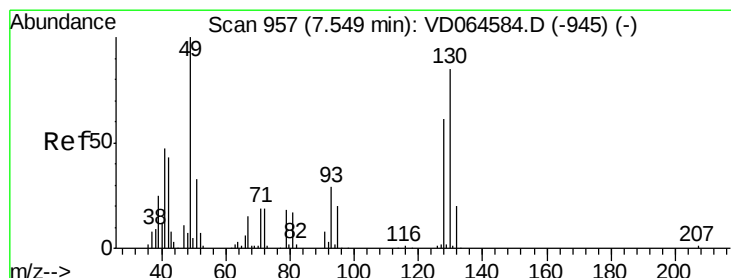
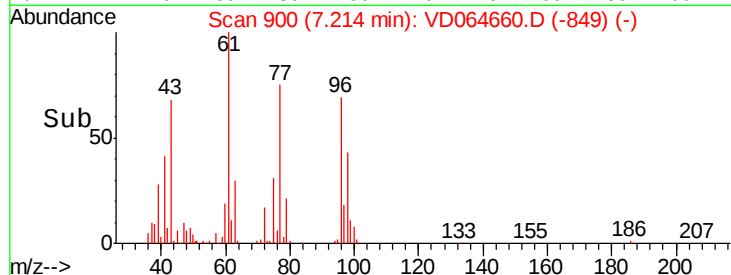
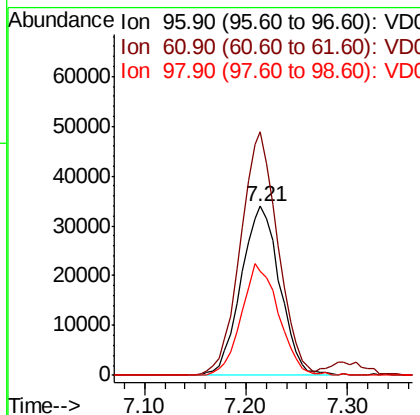
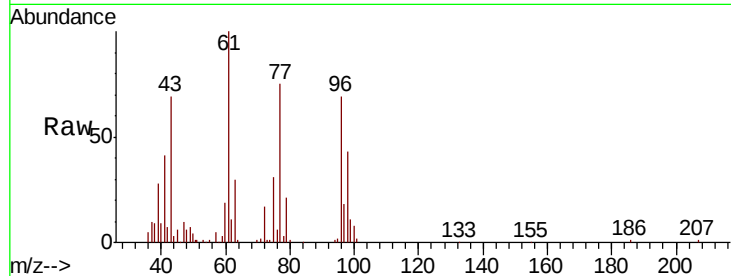
cis-1,2-Dichloroethene
Concen: 22.459 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	138.6	0.0	282.6
98	63.3	0.0	130.8

Manual Integrations
APPROVED

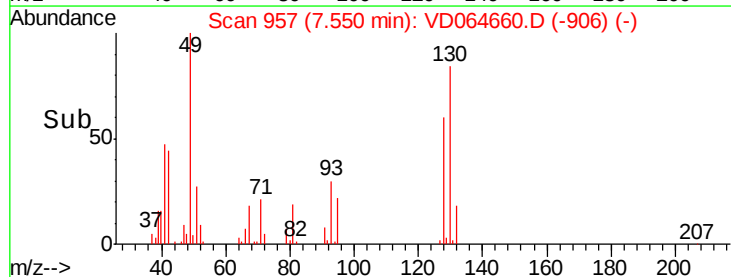
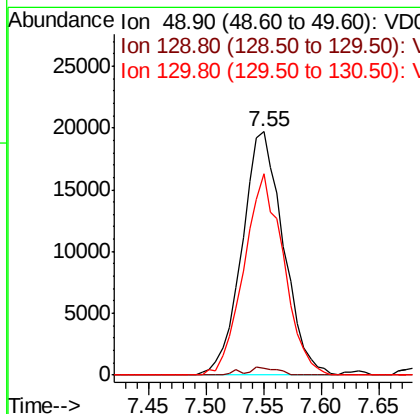
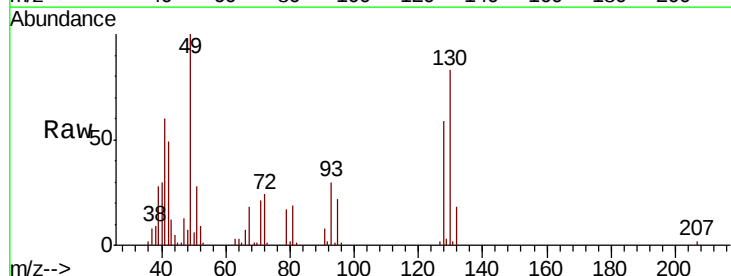
apatel
12/30/2019 11:03:28 AM

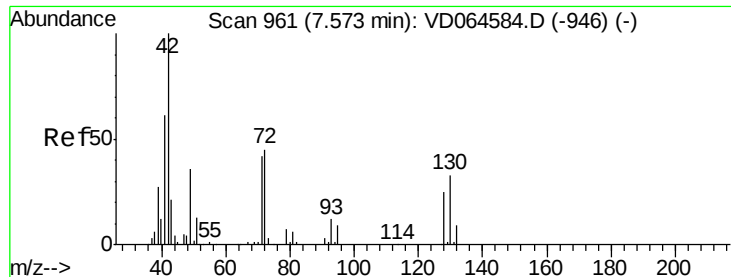


#28

Bromochloromethane
Concen: 20.773 ug/l
RT: 7.55 min Scan# 957
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.8
130	79.2	65.0	97.6





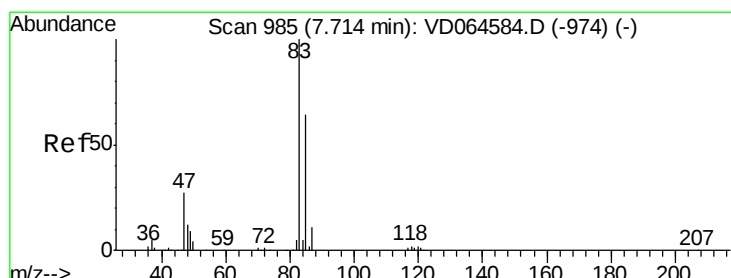
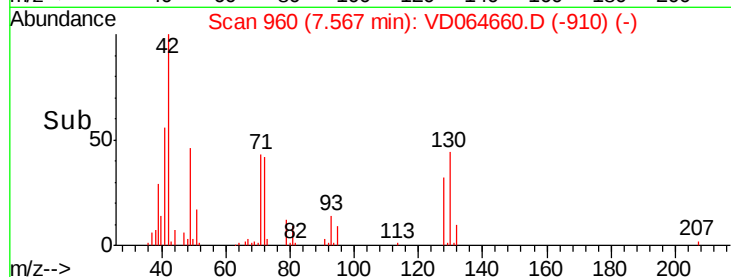
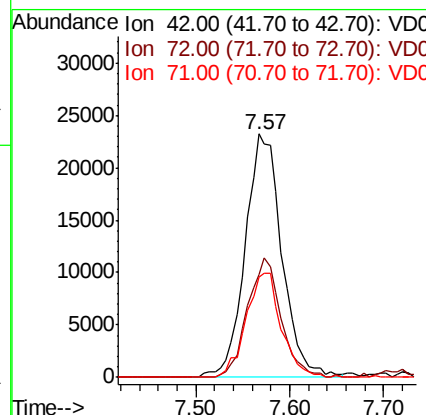
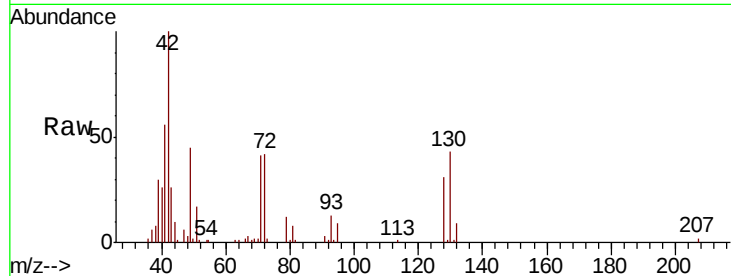
#29
Tetrahydrofuran
Concen: 112.208 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.7	35.0	52.4
71	40.9	32.9	49.3

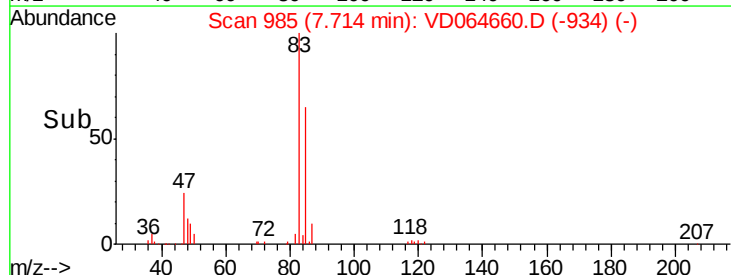
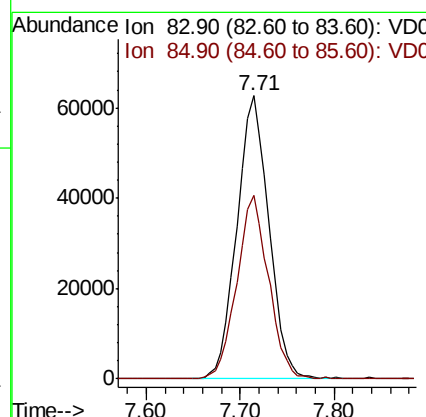
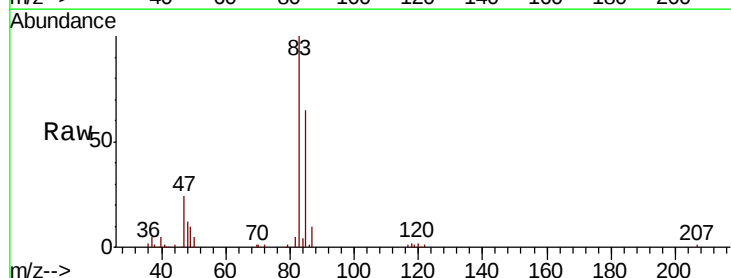
Manual Integrations
APPROVED

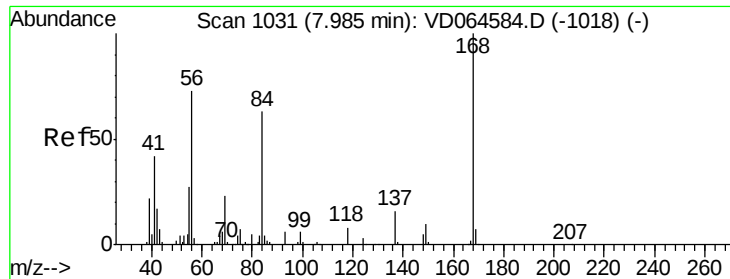
apatel
12/30/2019 11:03:28 AM



#30
Chloroform
Concen: 23.178 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.1	76.7





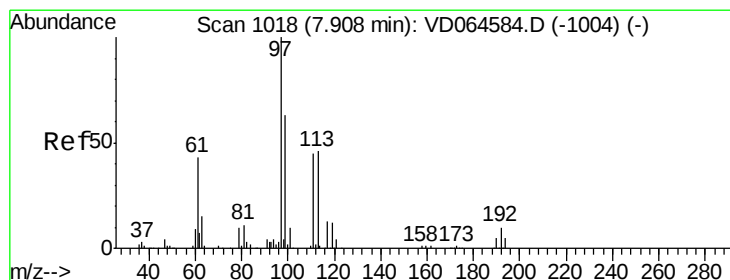
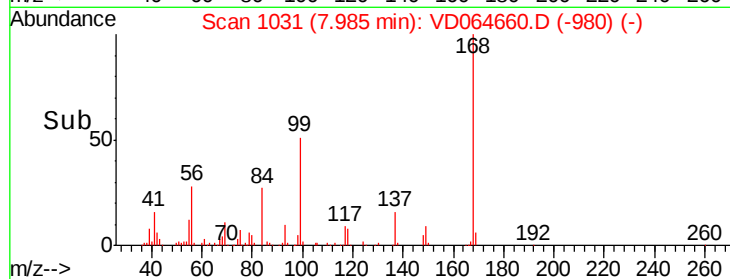
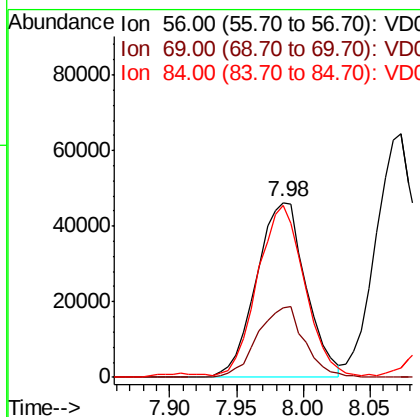
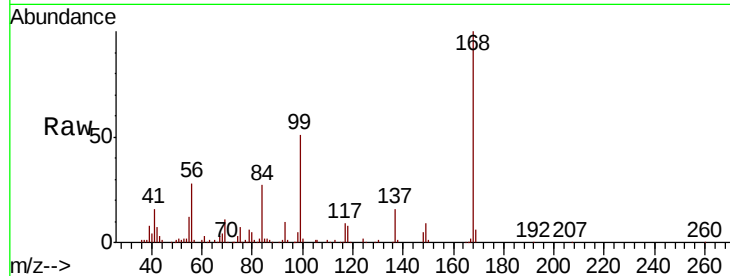
#31
Cyclohexane
Concen: 19.513 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBS02

Tot Ion	56	Resp	118998
Ion Ratio	100	Lower	Upper
56	100		
69	40.0	24.7	37.1#
84	96.5	69.4	104.2

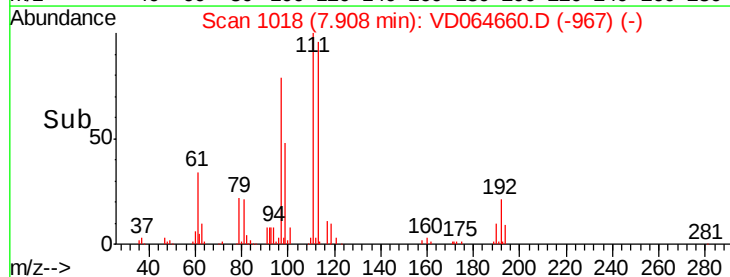
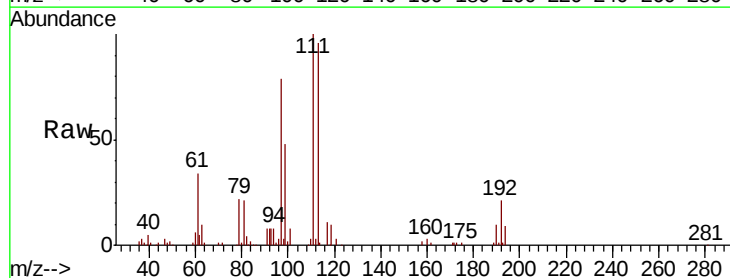
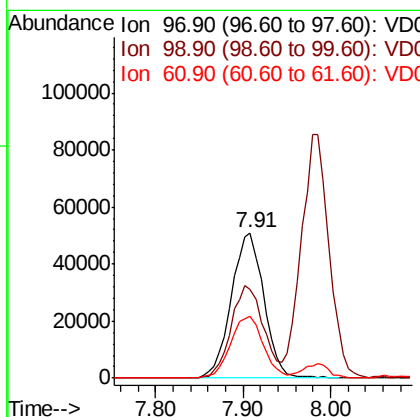
Manual Integrations
APPROVED

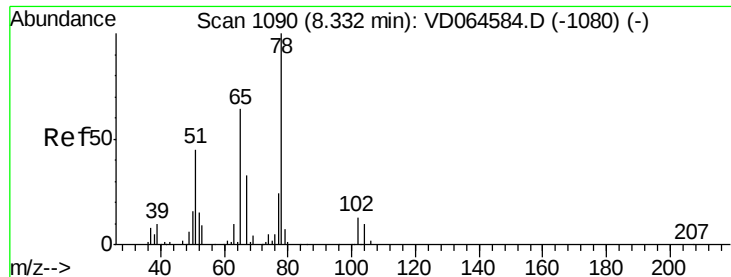
apatel
12/30/2019 11:03:28 AM



#32
1,1,1-Trichloroethane
Concen: 21.335 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion	97	Resp	128086
Ion Ratio	100	Lower	Upper
97	100		
99	64.2	51.0	76.6
61	42.9	35.4	53.0





#33

1,2-Dichloroethane-d4

Concen: 57.621 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

ClientSampleId :

VD1227SBS02

Tot Ion: 65 Resp: 188459

Ion Ratio Lower Upper

65 100

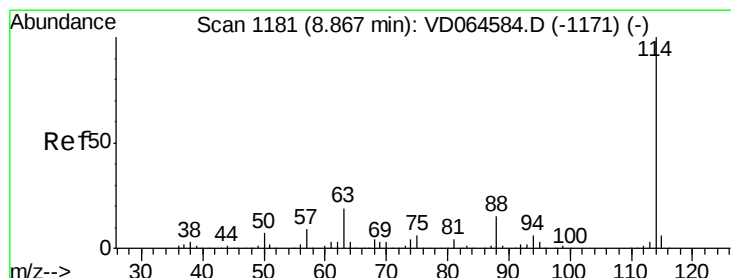
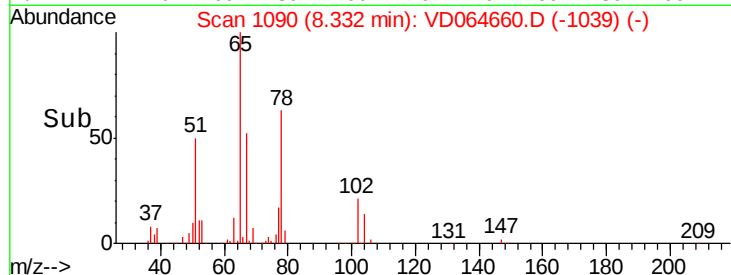
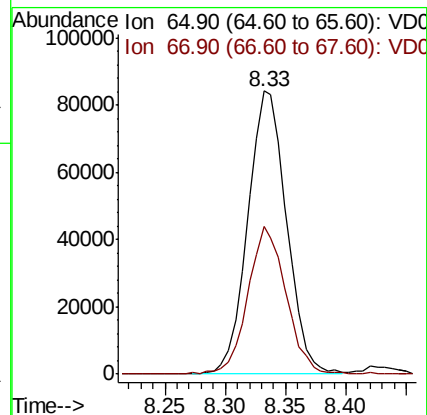
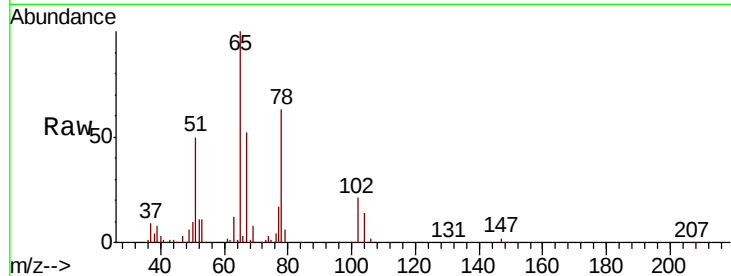
67 51.4 0.0 106.2

Manual Integrations

APPROVED

apatel

12/30/2019 11:03:28 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

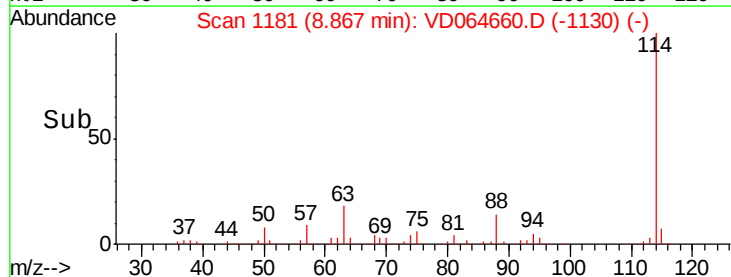
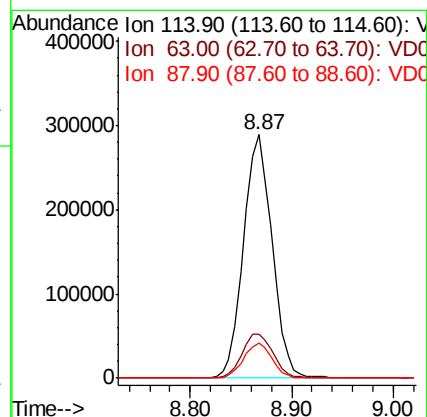
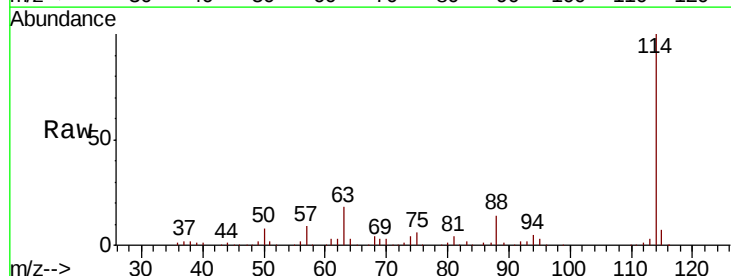
Tgt Ion: 114 Resp: 569515

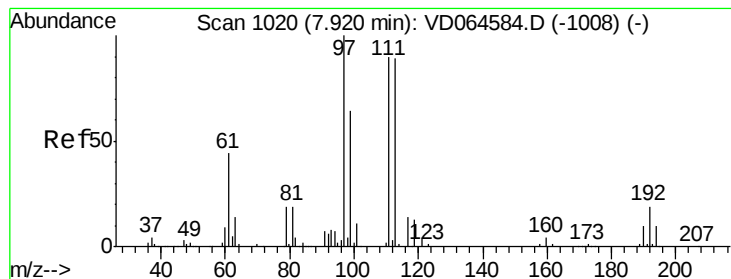
Ion Ratio Lower Upper

114 100

63 18.1 0.0 38.0

88 14.4 0.0 29.2





#35

Dibromofluoromethane

Concen: 53.248 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

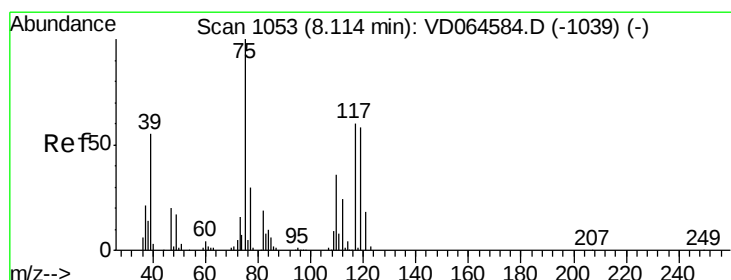
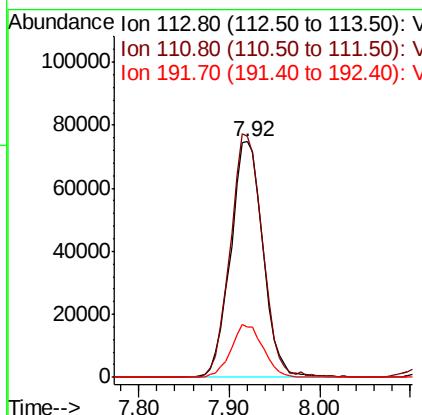
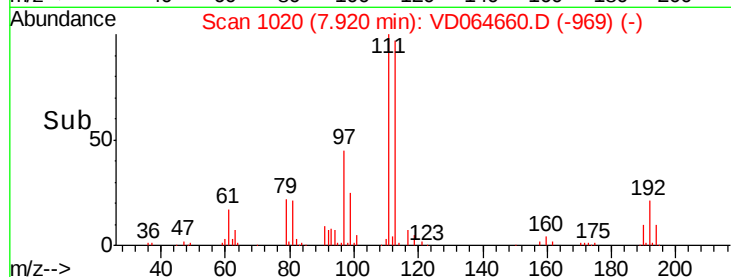
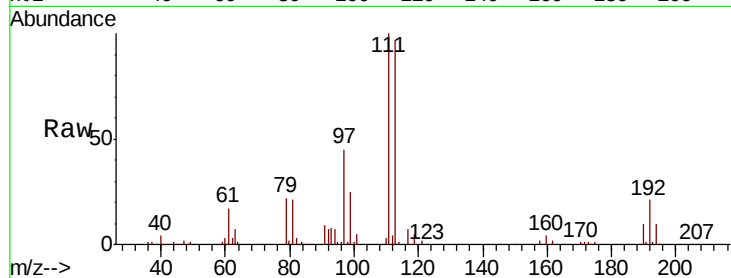
ClientSampleId :

VD1227SBS02

Tot Ion:	113	Resp:	186054
Ion Ratio	Lower	Upper	
113	100		
111	102.8	80.6	121.0
192	22.0	17.9	26.9

Manual Integrations
APPROVED

apatel
12/30/2019 11:03:28 AM



#36

1,1-Dichloropropene

Concen: 19.781 ug/l

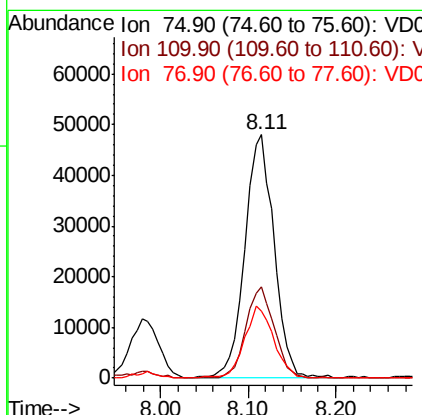
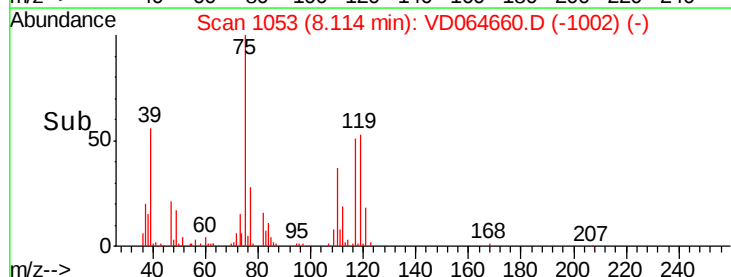
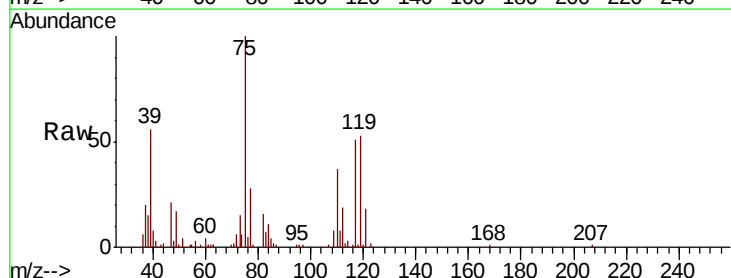
RT: 8.11 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Tgt Ion:	75	Resp:	108433
Ion Ratio	Lower	Upper	
75	100		
110	36.2	18.1	54.1
77	29.0	24.2	36.4





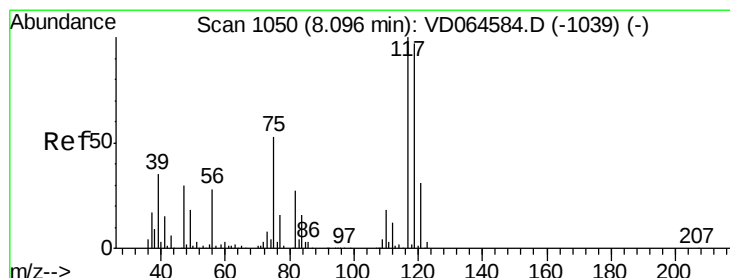
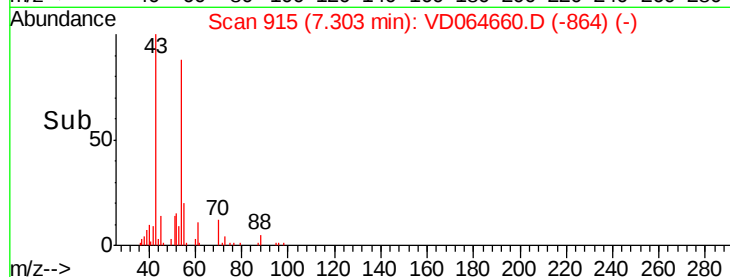
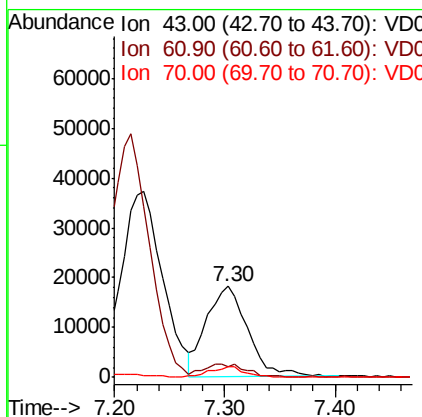
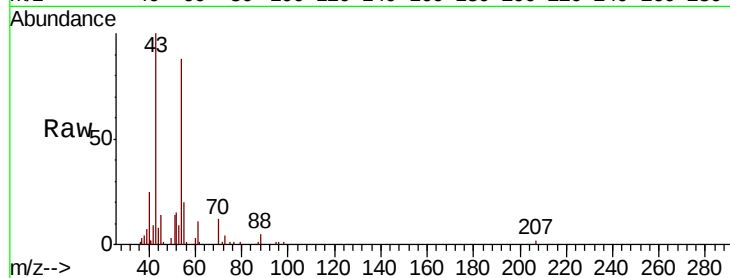
#37
Ethyl Acetate
Concen: 21.726 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.3	10.3	15.5
70	9.6	7.6	11.4

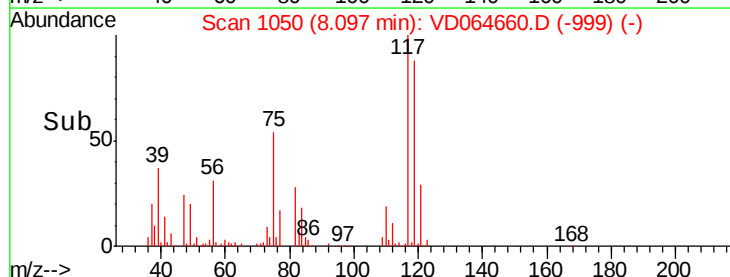
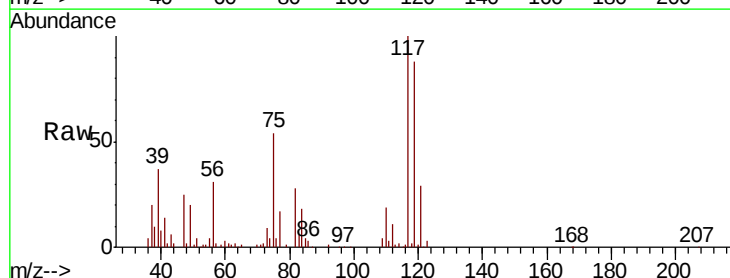
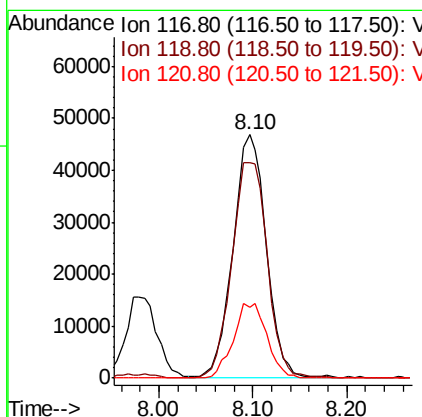
Manual Integrations
APPROVED

apatel
12/30/2019 11:03:28 AM



#38
Carbon Tetrachloride
Concen: 19.737 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	88.3	77.3	115.9
121	29.0	25.0	37.6





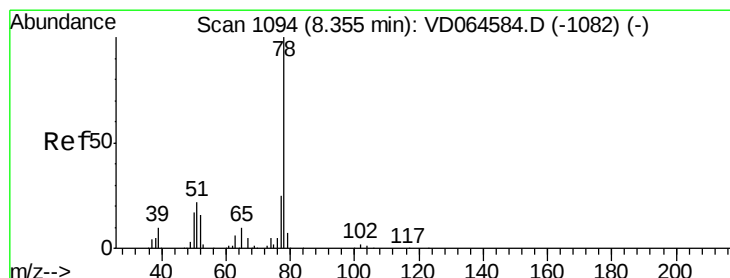
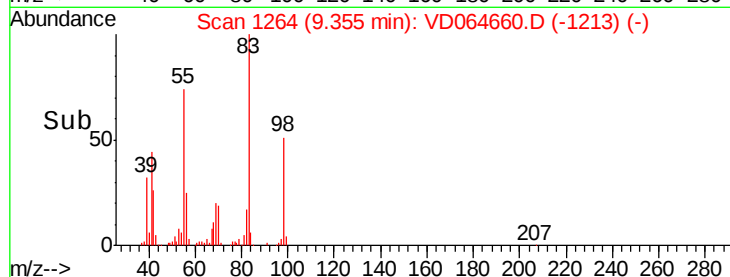
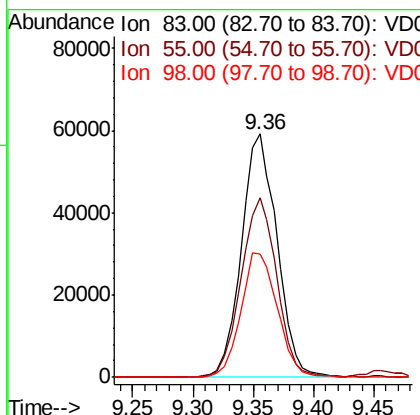
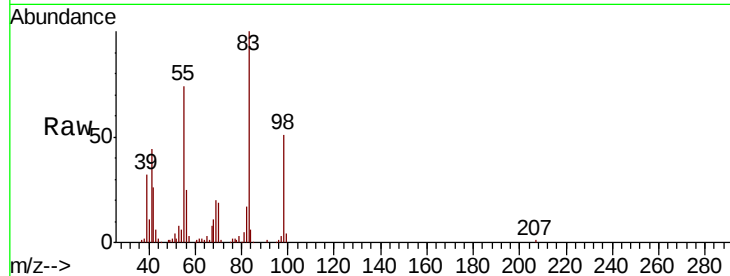
#39
Methvlcvclohexane
Concen: 18.338 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBSD02

Tot Ion	Ratio	Resp	Lower	Upper
83	100	121751		
55	73.9		57.8	86.6
98	50.8		38.7	58.1

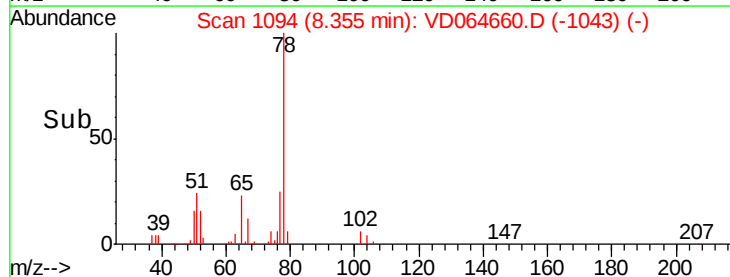
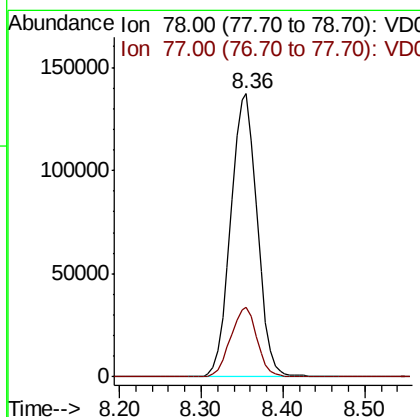
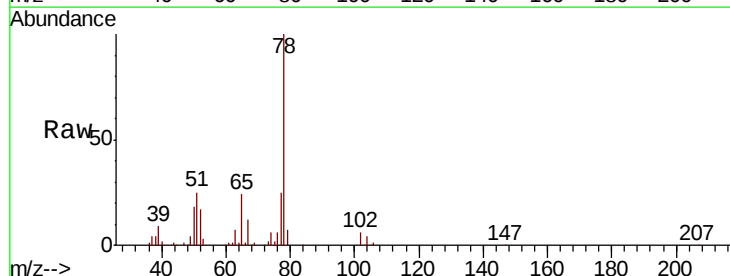
Manual Integrations
APPROVED

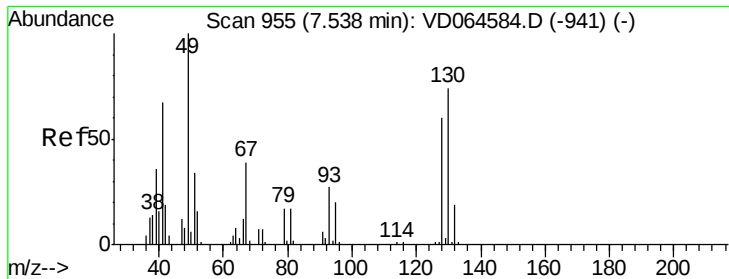
apatel
12/30/2019 11:03:28 AM



#40
Benzene
Concen: 20.743 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	310401		
77	24.7		19.9	29.9





#41

Methacrylonitrile

Concen: 20.877 ug/l

RT: 7.54 min Scan# 955

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

ClientSampleId :

VD1227SBS02

Tot Ion: 41 Resp: 26084

Ion Ratio Lower Upper

41 100

39 65.0 46.7 70.1

67 76.5 52.5 78.7

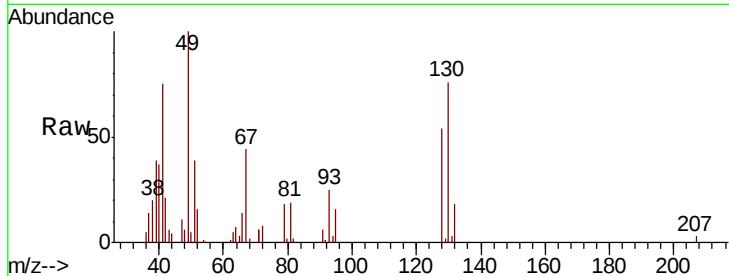
52 31.7 24.1 36.1

Manual Integrations

APPROVED

apatel

12/30/2019 11:03:28 AM



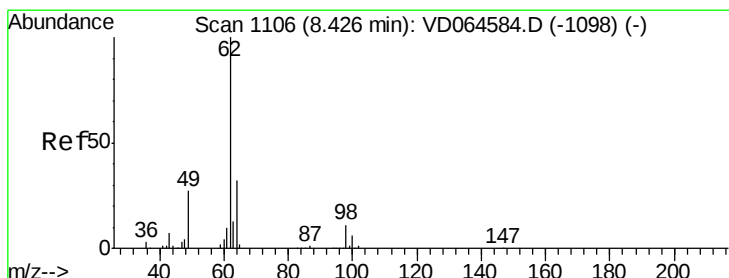
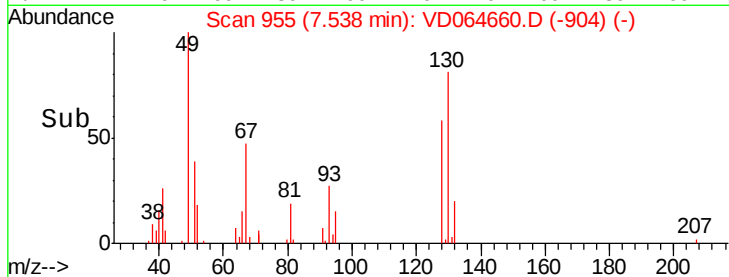
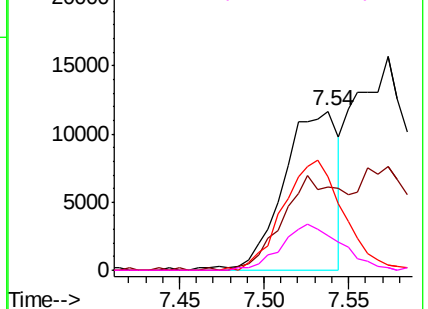
Abundance

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: 21.639 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VD064660.D

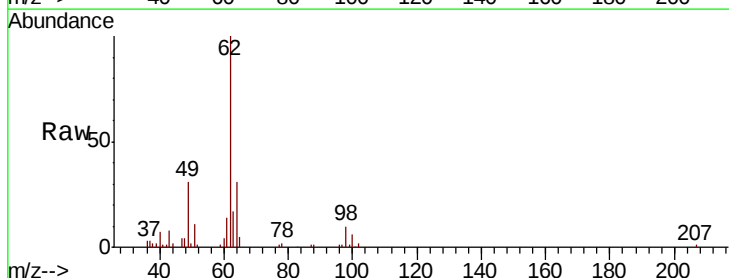
Acq: 28 Dec 2019 00:21

Tgt Ion: 62 Resp: 93571

Ion Ratio Lower Upper

62 100

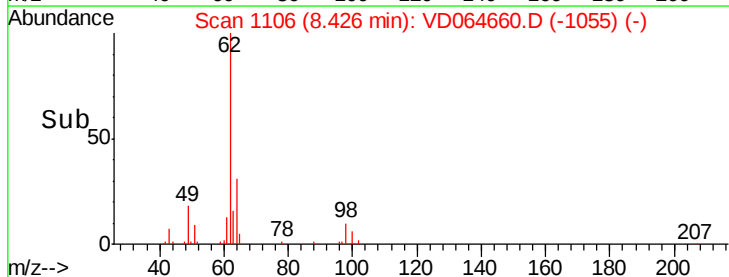
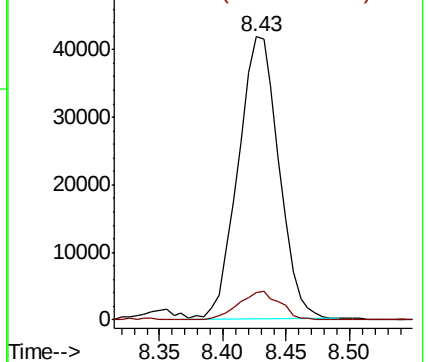
98 10.3 0.0 20.0

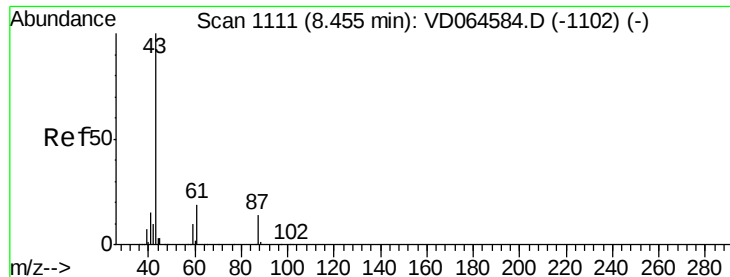


Abundance

Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 21.265 ug/l

RT: 8.46 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

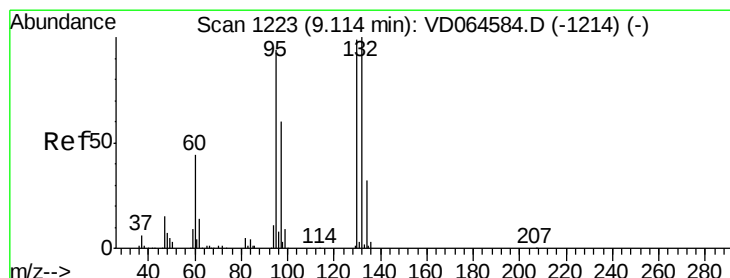
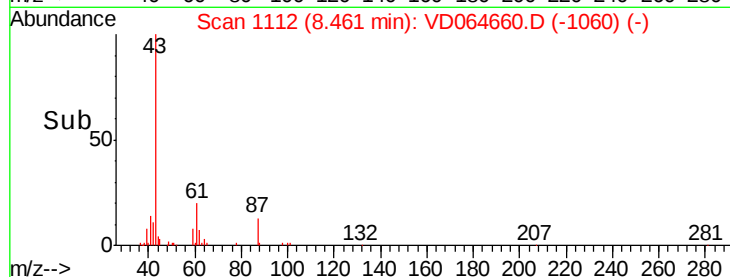
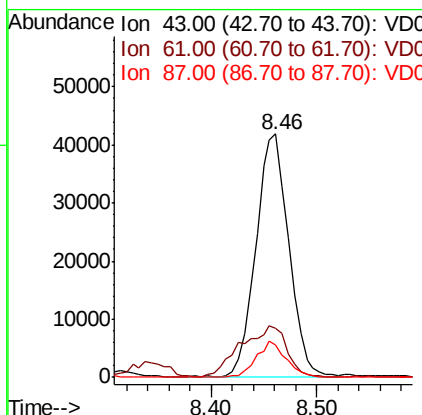
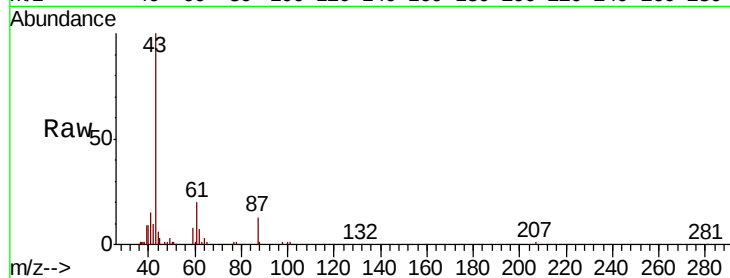
ClientSampleId :

VD1227SBS02

Tot Ion:	43	Resp:	91149
Ion	Ratio	Lower	Upper
43	100		
61	29.5	23.7	35.5
87	13.2	10.5	15.7

Manual Integrations
APPROVED

apatel
12/30/2019 11:03:28 AM



#44

Trichloroethene

Concen: 20.609 ug/l

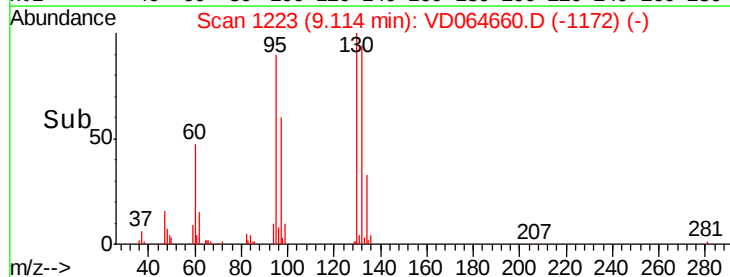
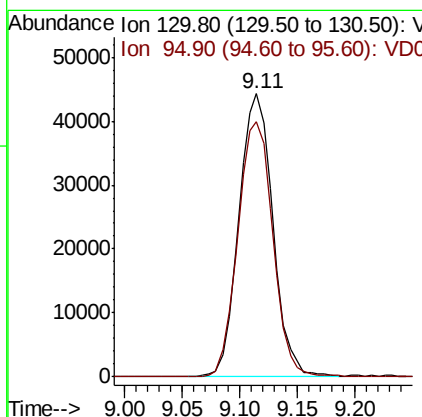
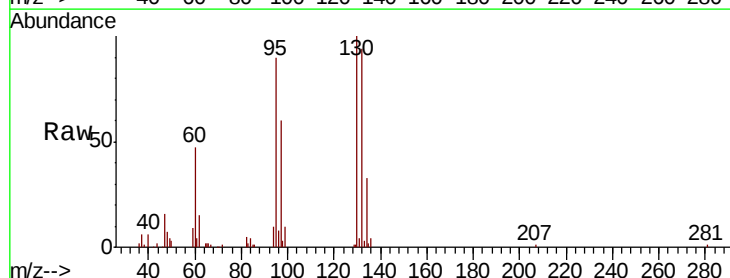
RT: 9.11 min Scan# 1223

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Tgt Ion:	130	Resp:	90598
Ion	Ratio	Lower	Upper
130	100		
95	90.4	0.0	190.2





#45

1,2-Dichloropropane

Concen: 21.872 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

ClientSampleId :

VD1227SBSD02

Tot Ion: 63 Resp: 78145

Ion Ratio Lower Upper

63 100

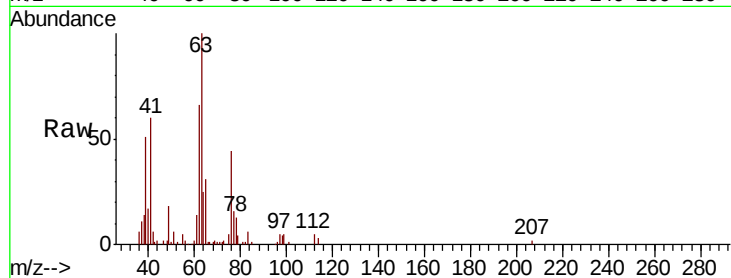
65 30.9 25.2 37.8

Manual Integrations

APPROVED

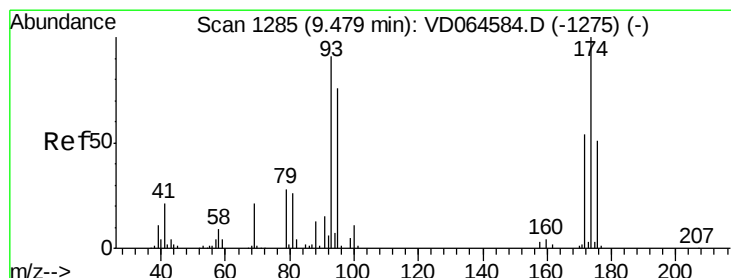
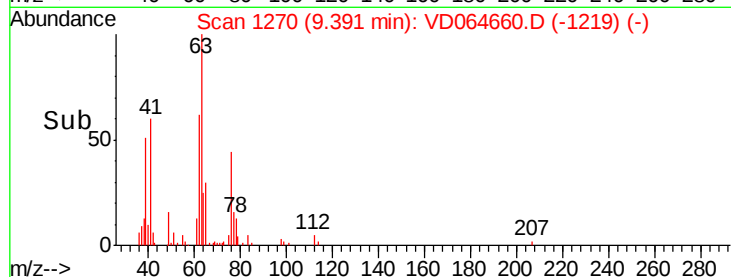
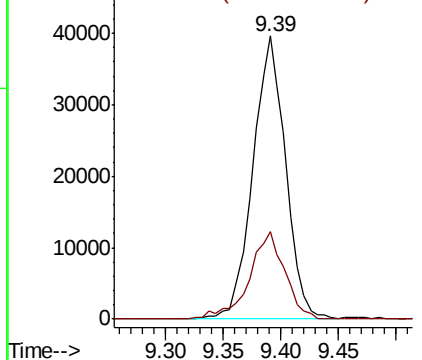
apatel

12/30/2019 11:03:28 AM



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 21.911 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

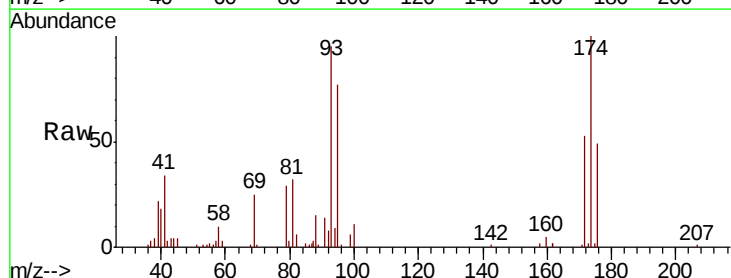
Tgt Ion: 93 Resp: 43647

Ion Ratio Lower Upper

93 100

95 82.2 64.6 97.0

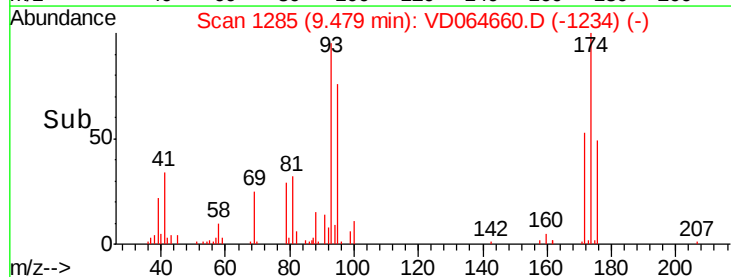
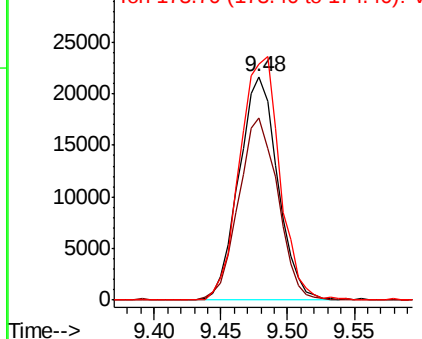
174 112.1 88.1 132.1

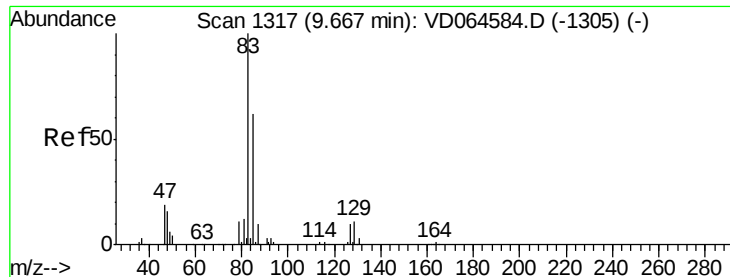


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 21.516 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

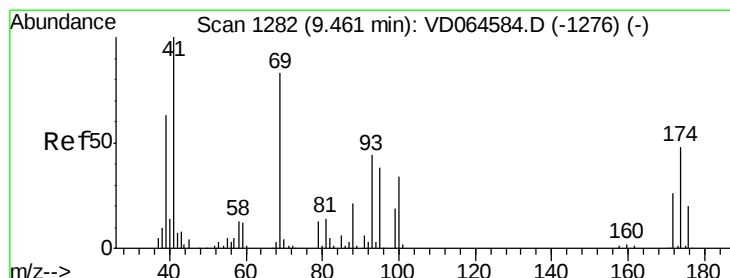
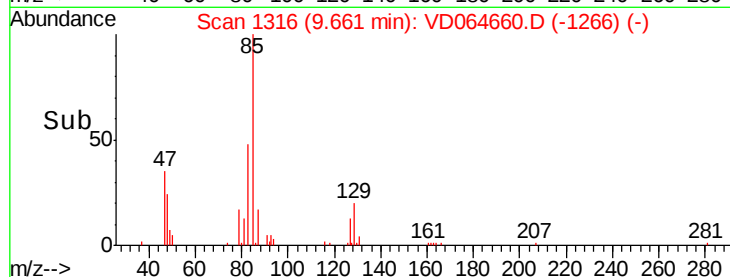
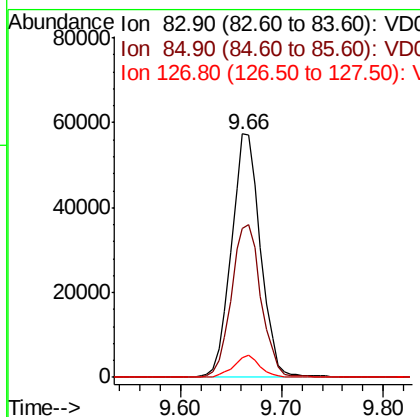
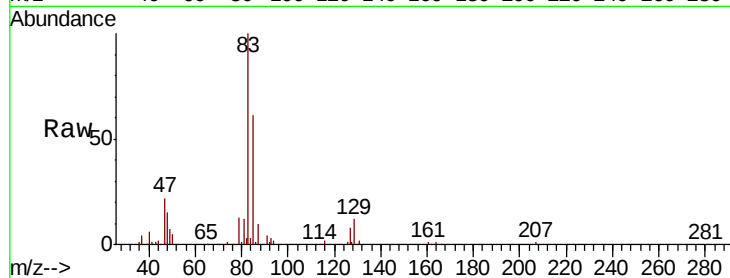
ClientSampleId :

VD1227SBS02

Tot Ion:	83	Resp:	114046
Ion	Ratio	Lower	Upper
83	100		
85	60.9	49.5	74.3
127	8.0	7.8	11.6

Manual Integrations
APPROVED

apatel
12/30/2019 11:03:28 AM



#48

Methyl methacrylate

Concen: 21.542 ug/l

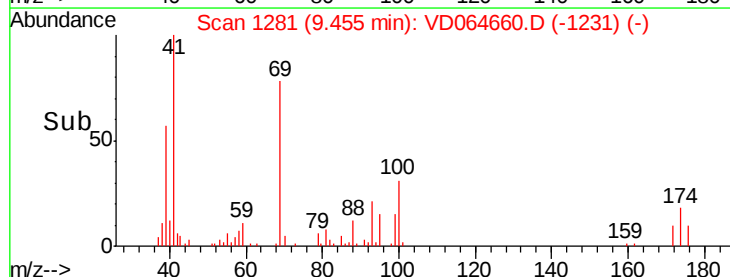
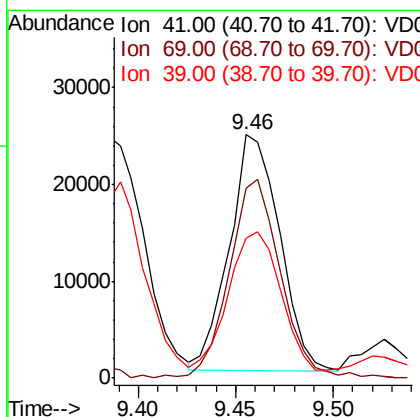
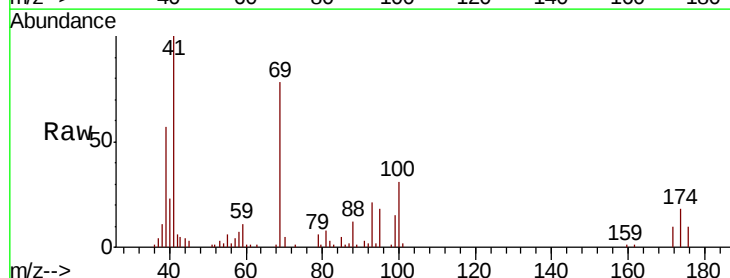
RT: 9.46 min Scan# 1281

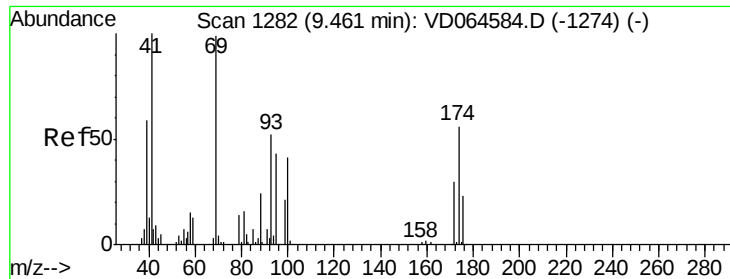
Delta R.T. -0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Tgt Ion:	41	Resp:	43476
Ion	Ratio	Lower	Upper
41	100		
69	86.6	63.0	94.6
39	61.6	47.4	71.2





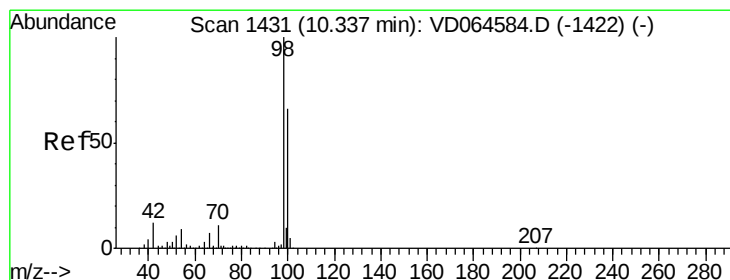
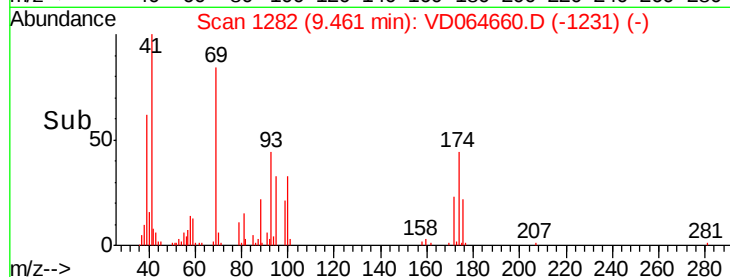
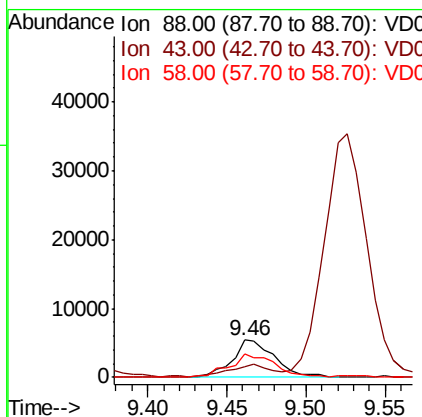
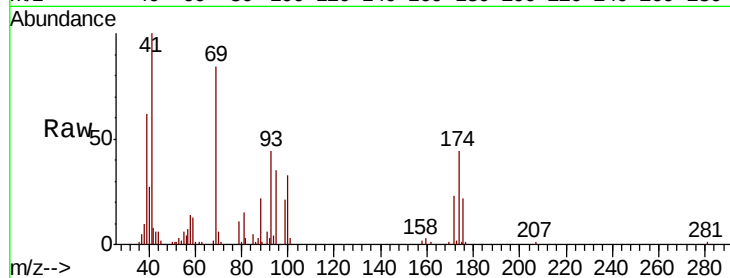
#49
1,4-Dioxane
Concen: 435.629 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBS02

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.2	27.7	41.5
58	66.8	53.8	80.6

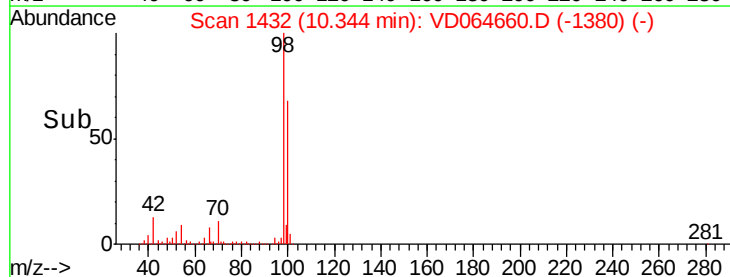
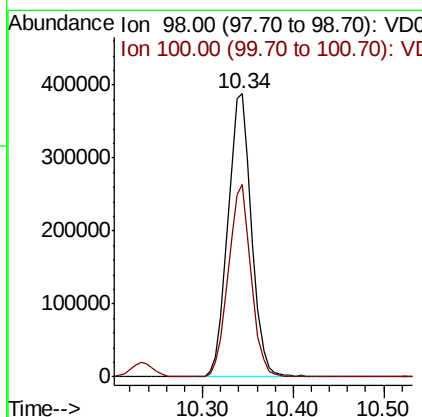
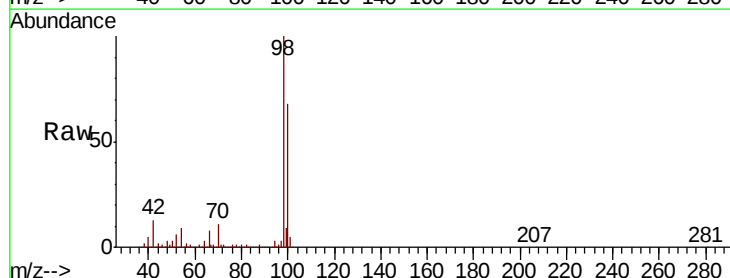
Manual Integrations
APPROVED

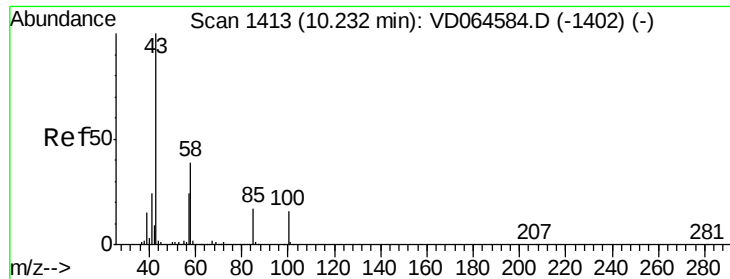
apatel
12/30/2019 11:03:28 AM



#50
Toluene-d8
Concen: 52.595 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 108.869 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

ClientSampleId :

VD1227SBS02

Tot Ion: 43 Resp: 230650

Ion Ratio Lower Upper

43 100

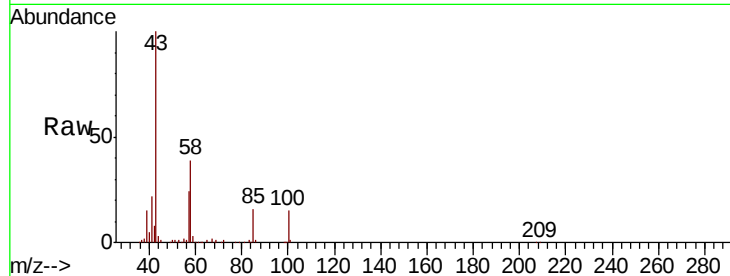
58 38.4 30.2 45.2

Manual Integrations

APPROVED

apatel

12/30/2019 11:03:28 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.23

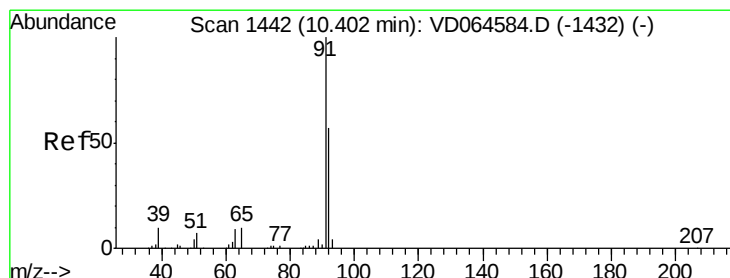
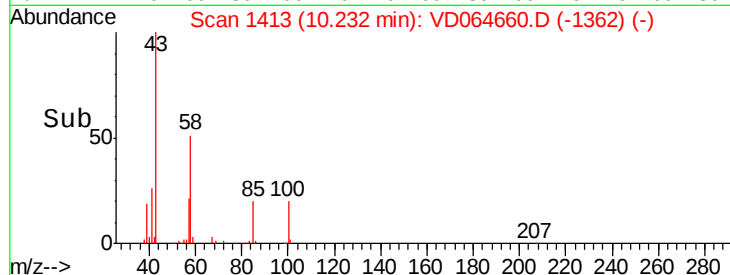
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 20.805 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. 0.00 min

Lab File: VD064660.D

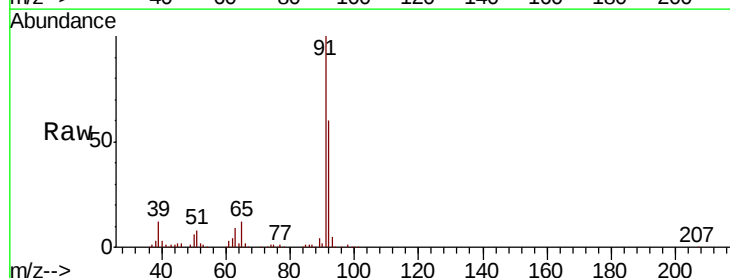
Acq: 28 Dec 2019 00:21

Tgt Ion: 92 Resp: 204257

Ion Ratio Lower Upper

92 100

91 171.6 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.40

200000

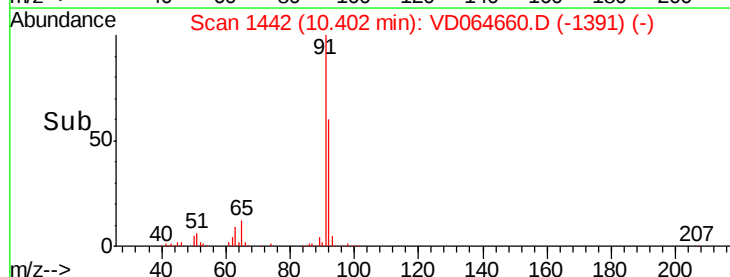
150000

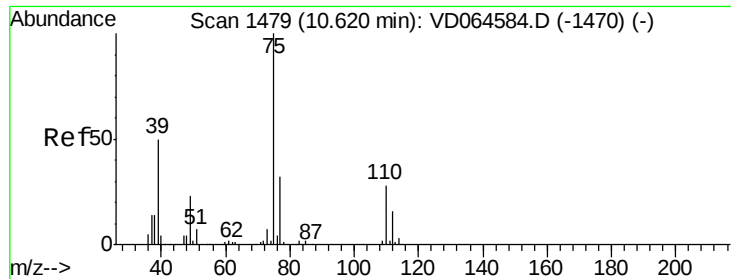
100000

50000

0

Time-->





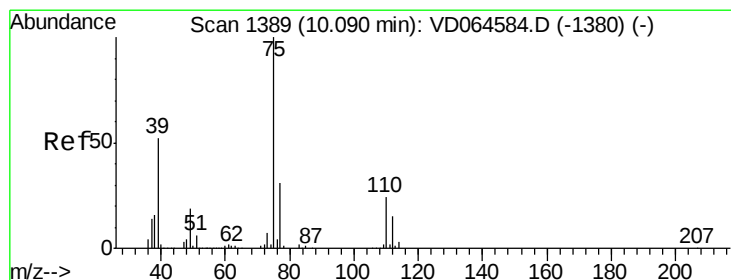
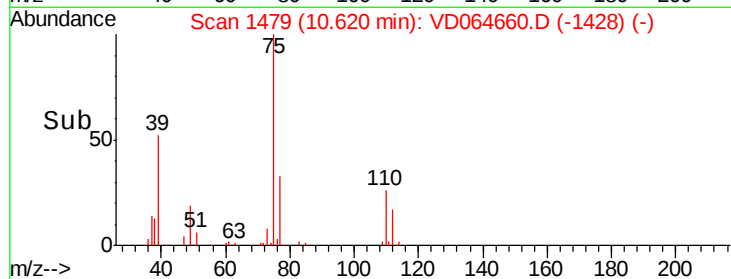
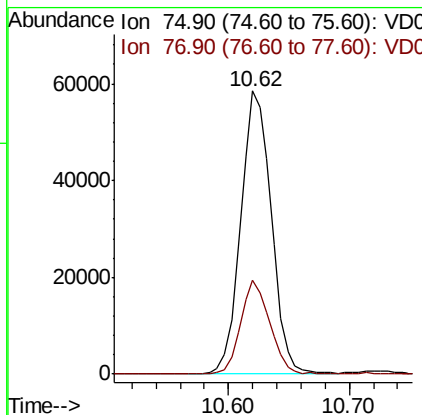
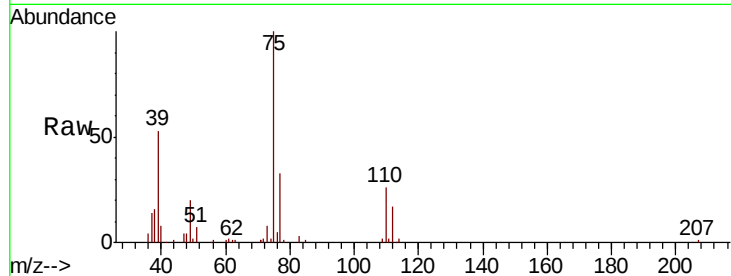
#53
 t-1,3-Dichloropropene
 Concen: 20.998 ug/l
 RT: 10.62 min Scan# 1479
 Delta R.T. 0.00 min
 Lab File: VD064660.D
 Acq: 28 Dec 2019 00:21

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1227SBS02

Tot Ion: 75 Resp: 103769
 Ion Ratio Lower Upper
 75 100
 77 33.1 25.4 38.2

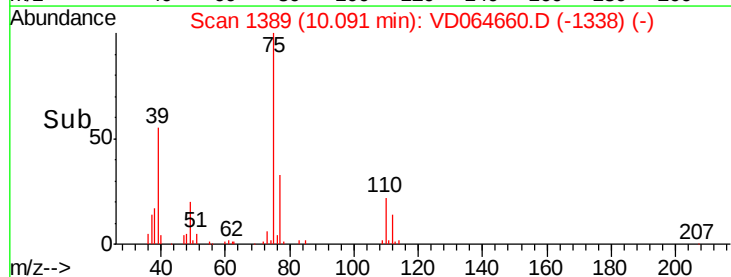
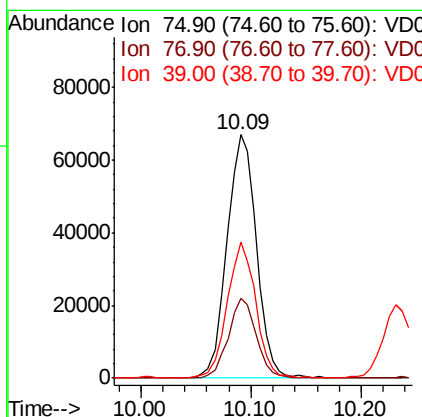
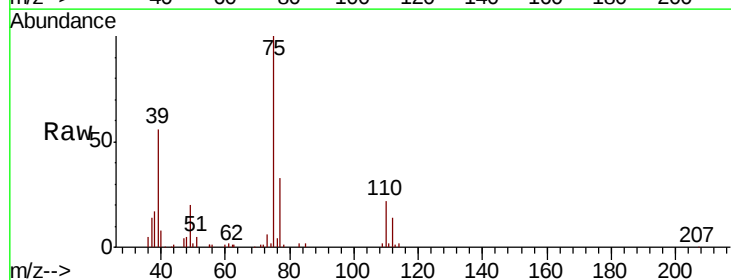
Manual Integrations
 APPROVED

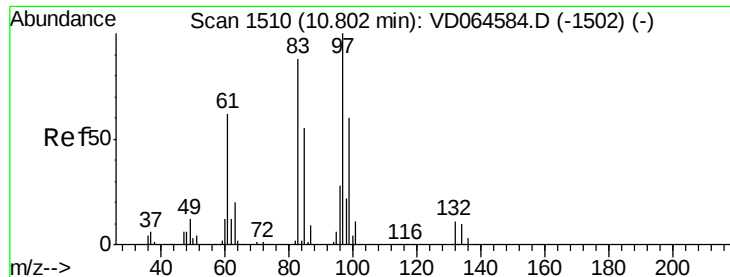
apatel
 12/30/2019 11:03:28 AM



#54
 cis-1,3-Dichloropropene
 Concen: 21.516 ug/l
 RT: 10.09 min Scan# 1389
 Delta R.T. 0.00 min
 Lab File: VD064660.D
 Acq: 28 Dec 2019 00:21

Tgt Ion: 75 Resp: 125378
 Ion Ratio Lower Upper
 75 100
 77 32.8 24.6 36.8
 39 55.4 41.4 62.2





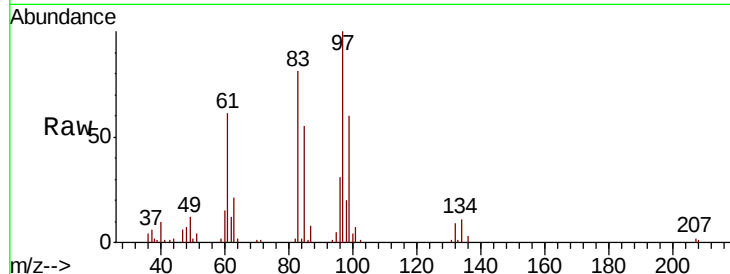
#55
 1,1,2-Trichloroethane
 Concen: 22.425 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD064660.D
 Acq: 28 Dec 2019 00:21

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1227SBSD02

Tot Ion	Ratio	Lower	Upper
97	100		
83	81.0	70.2	105.4
85	54.6	44.0	66.0
99	59.7	47.8	71.6

Manual Integrations
 APPROVED

apatel
 12/30/2019 11:03:28 AM



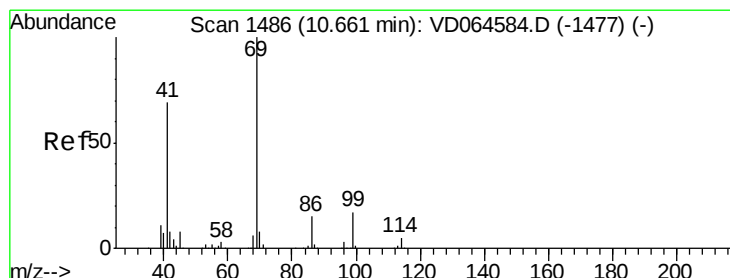
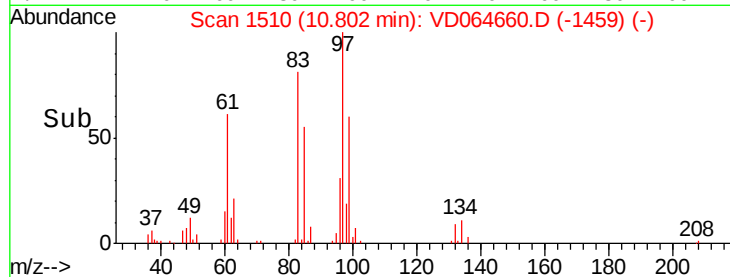
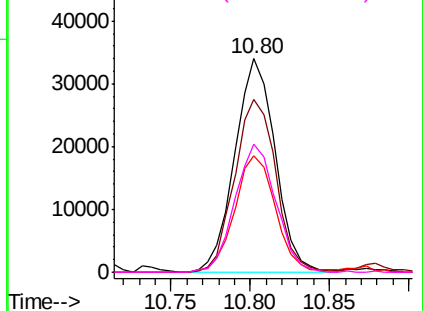
Abundance

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: 21.182 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VD064660.D
 Acq: 28 Dec 2019 00:21

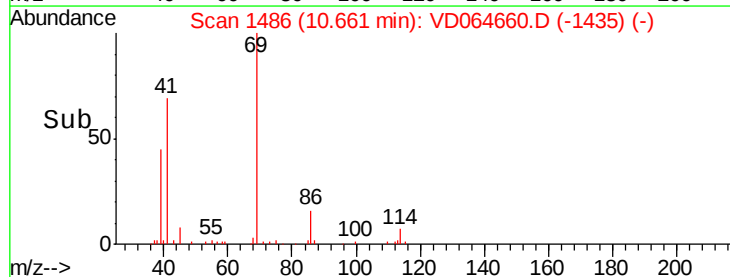
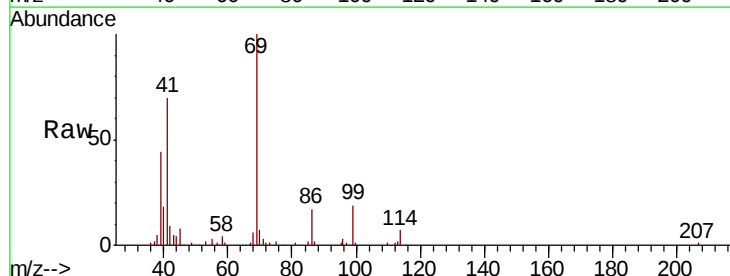
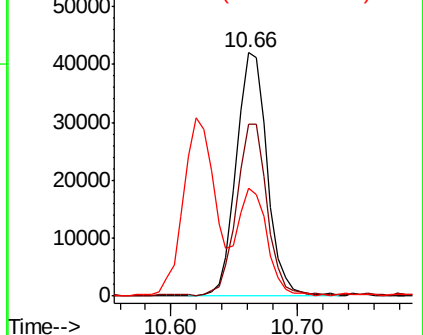
Tgt Ion	Ratio	Lower	Upper
69	100		
41	68.8	55.3	82.9
39	42.7	33.8	50.8

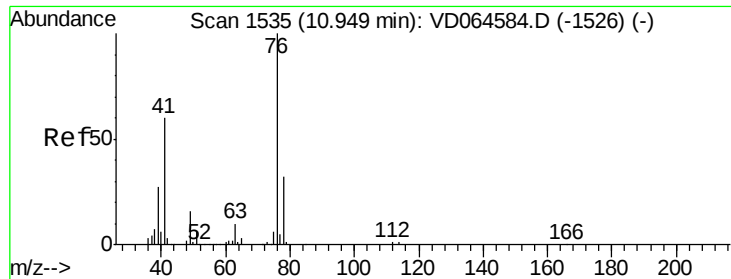
Abundance

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: 21.664 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

ClientSampleId :

VD1227SBS02

Tot Ion: 76 Resp: 100135

Ion Ratio Lower Upper

76 100

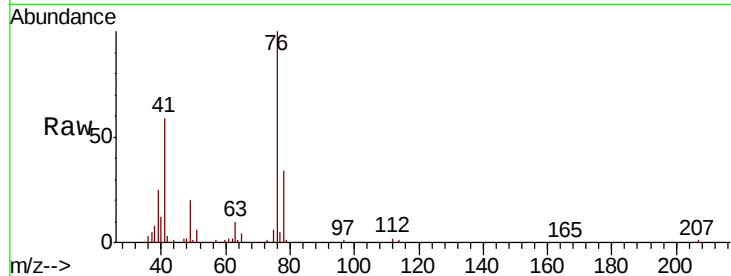
78 34.9 26.2 39.4

Manual Integrations

APPROVED

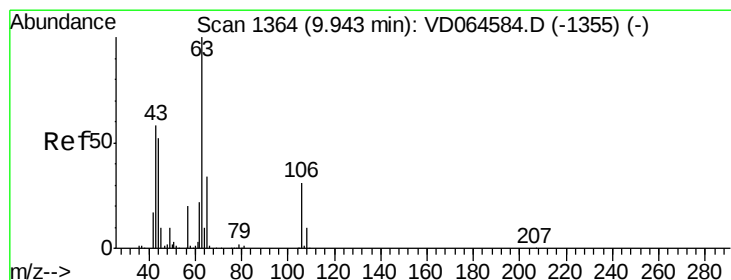
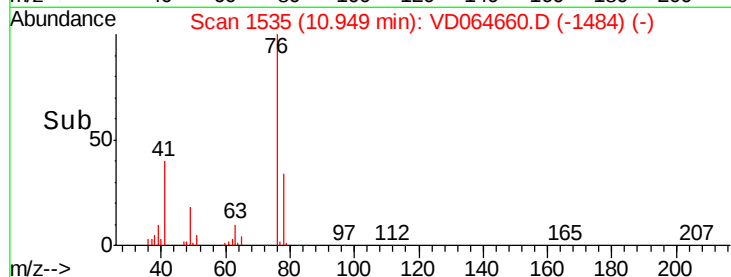
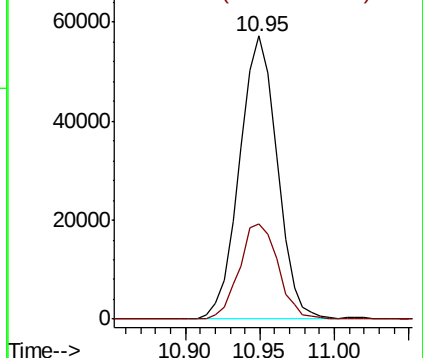
apatel

12/30/2019 11:03:28 AM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 108.204 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VD064660.D

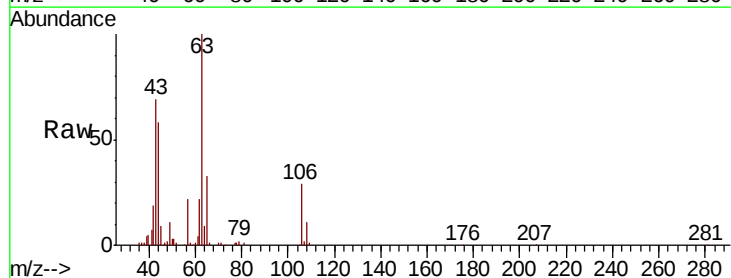
Acq: 28 Dec 2019 00:21

Tgt Ion: 63 Resp: 138213

Ion Ratio Lower Upper

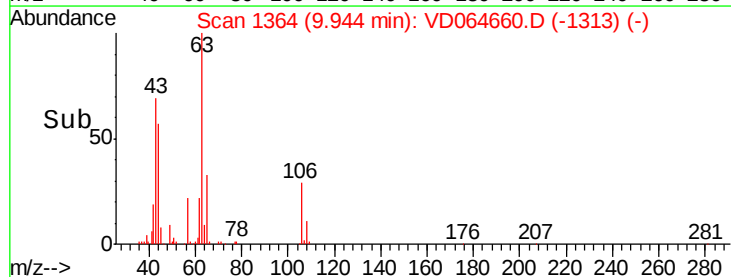
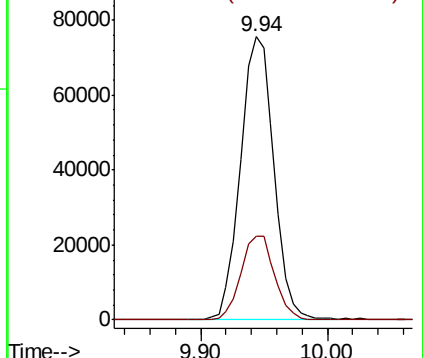
63 100

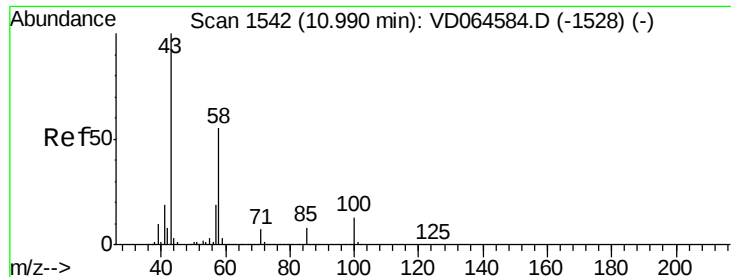
106 29.9 23.8 35.8



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V





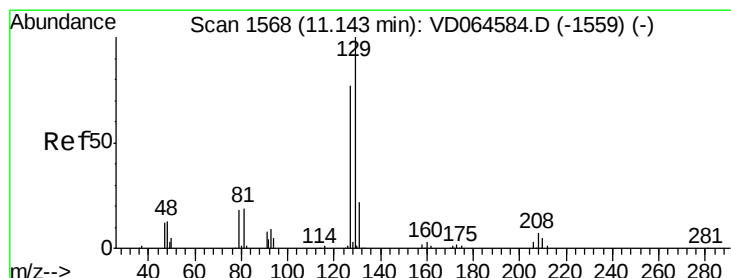
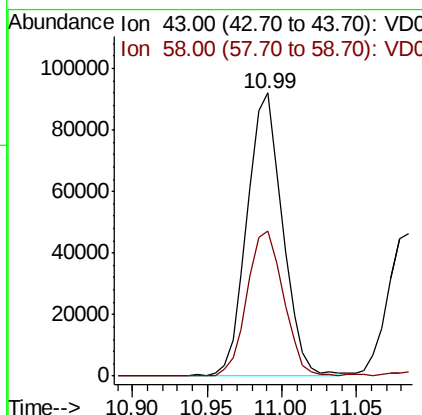
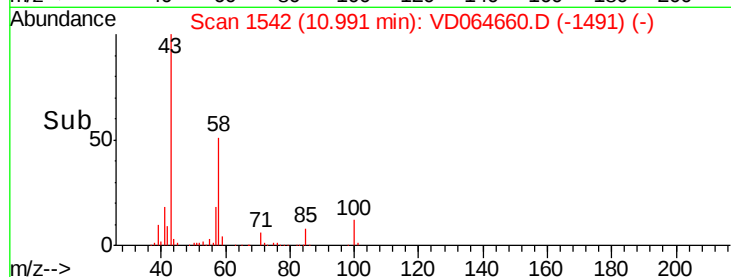
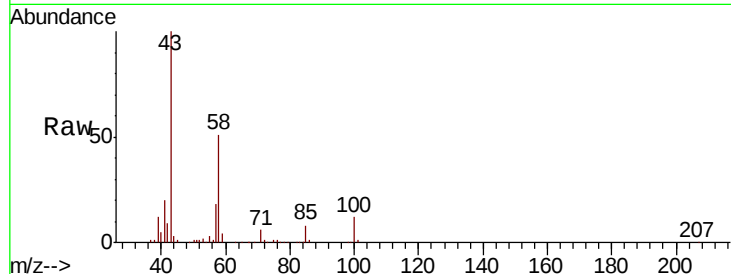
#59
2-Hexanone
Concen: 105.453 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBSD02

Tot Ion: 43 Resp: 151635
Ion Ratio Lower Upper
43 100
58 52.7 26.4 79.0

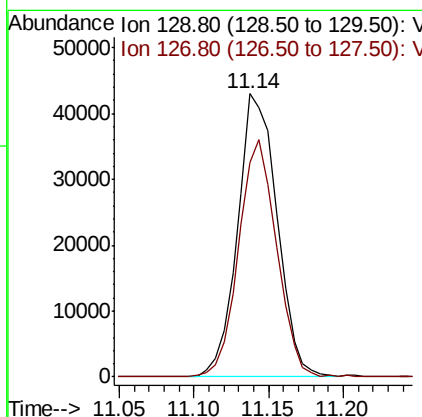
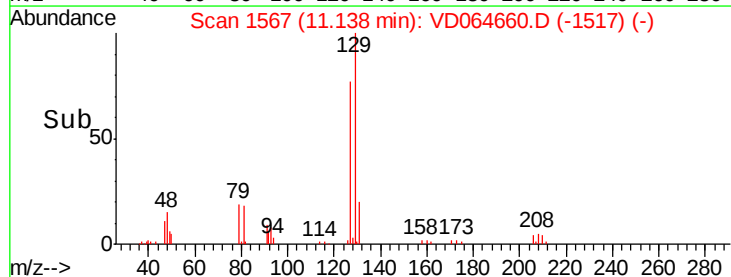
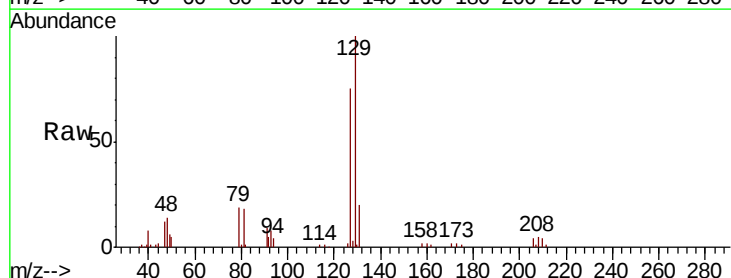
Manual Integrations
APPROVED

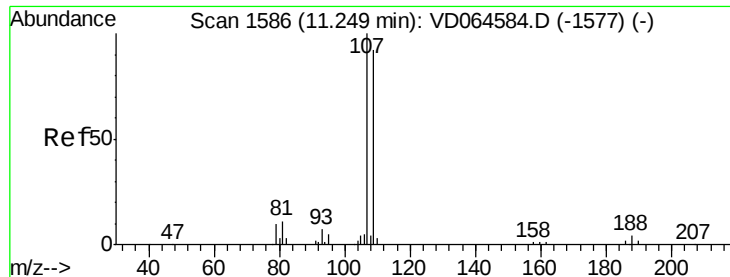
apatel
12/30/2019 11:03:28 AM



#60
Dibromochloromethane
Concen: 21.258 ug/l
RT: 11.14 min Scan# 1567
Delta R.T. -0.01 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion: 129 Resp: 78918
Ion Ratio Lower Upper
129 100
127 80.2 38.4 115.2





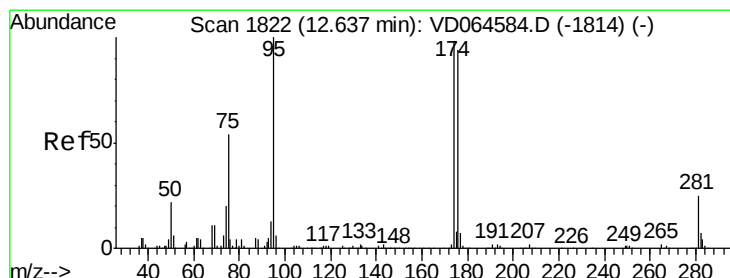
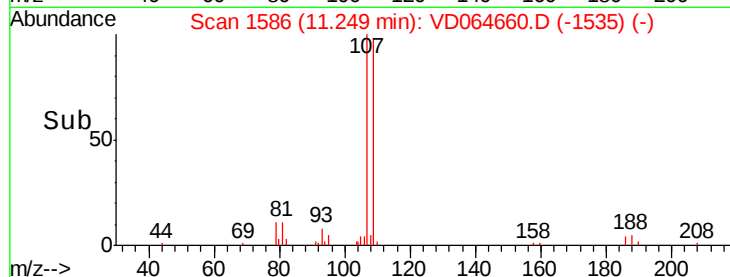
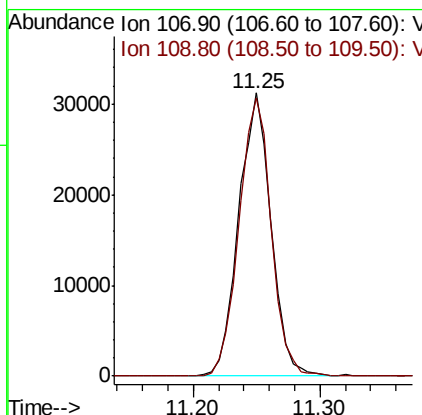
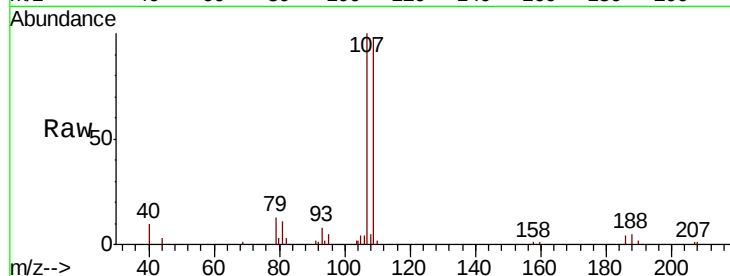
#61
1,2-Dibromoethane
Concen: 20.723 ug/l
RT: 11.25 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBSD02

Tot Ion: 107 Resp: 54871
Ion Ratio Lower Upper
107 100
109 98.3 75.6 113.4

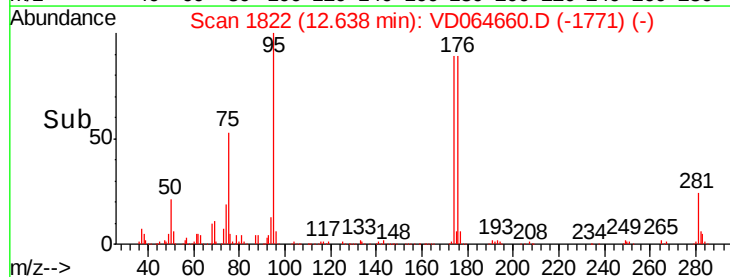
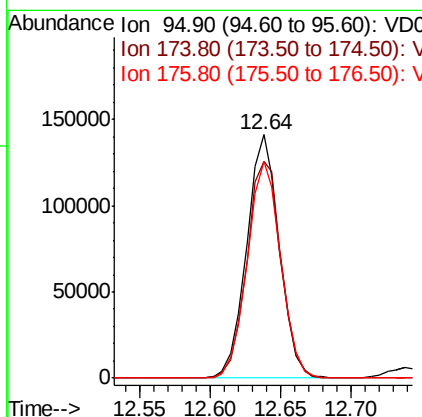
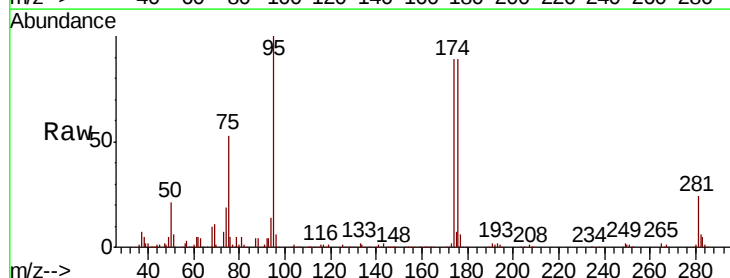
Manual Integrations
APPROVED

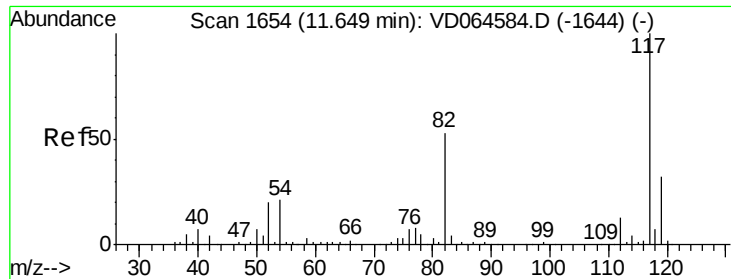
apatel
12/30/2019 11:03:28 AM



#62
4-Bromofluorobenzene
Concen: 53.853 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion: 95 Resp: 227878
Ion Ratio Lower Upper
95 100
174 93.9 0.0 193.2
176 91.5 0.0 184.2





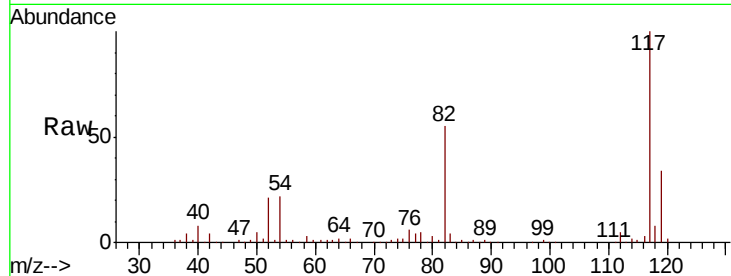
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBS02

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.3	42.2	63.4
119	34.3	26.0	39.0

Manual Integrations
APPROVED

apatel
12/30/2019 11:03:28 AM

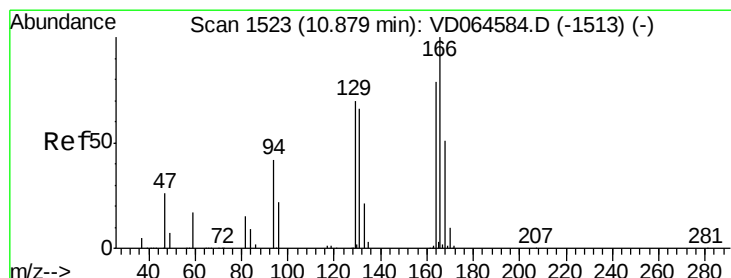
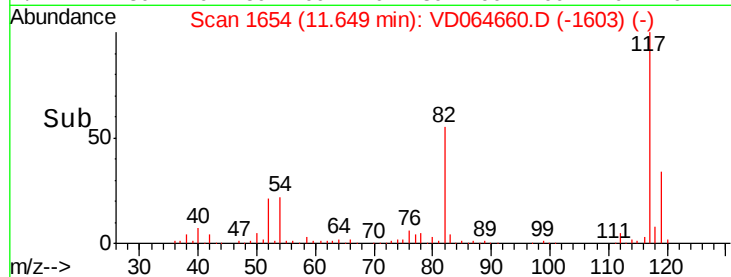
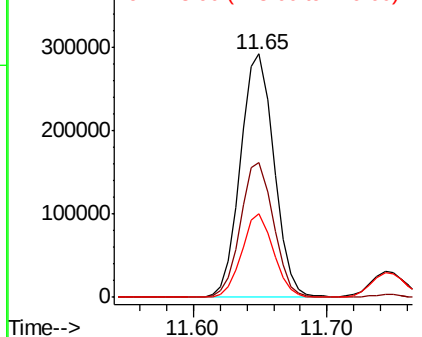


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 20.261 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.8	101.3	151.9
129	96.0	70.5	105.7
131	82.2	66.6	99.8

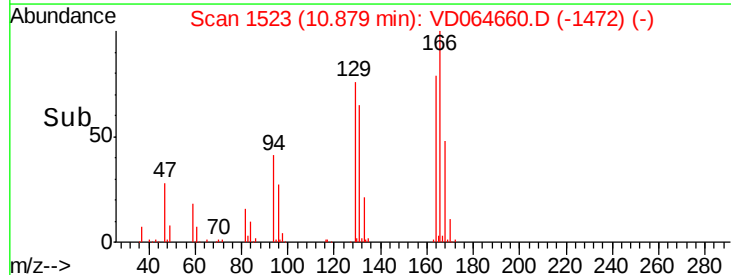
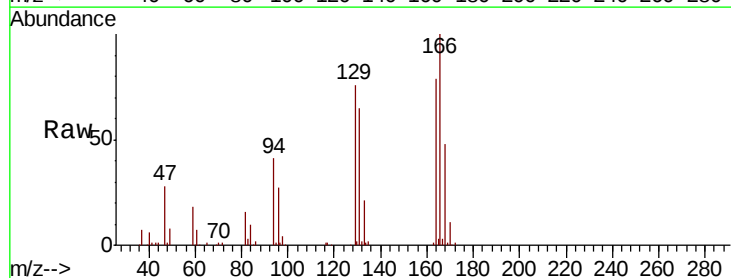
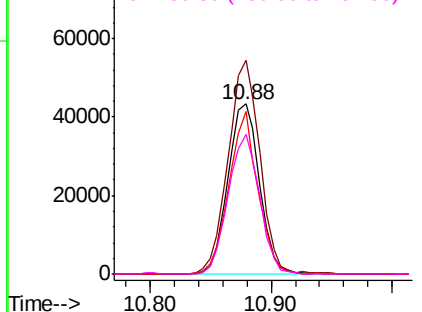
Abundance

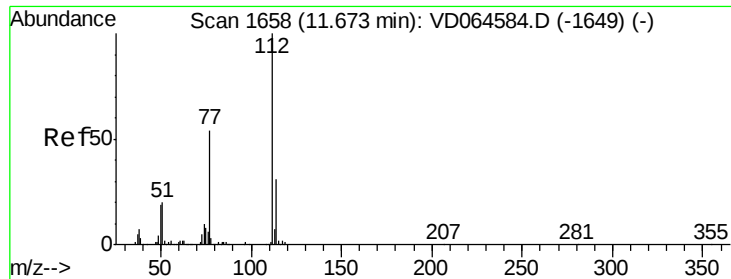
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





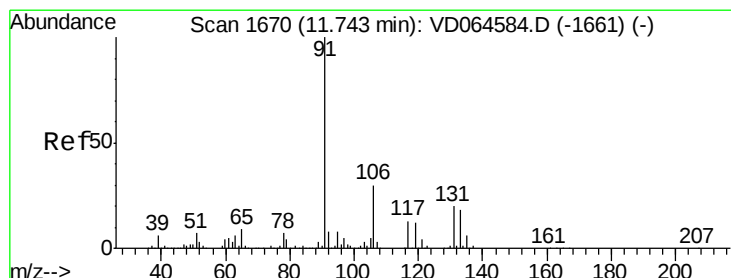
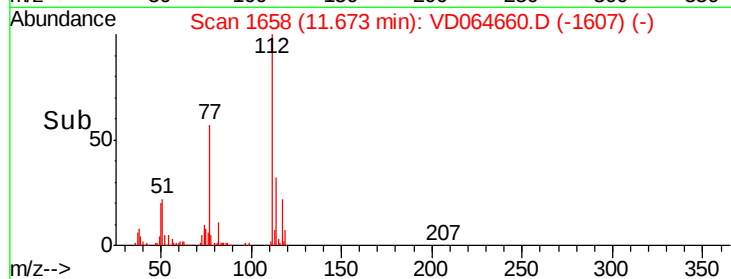
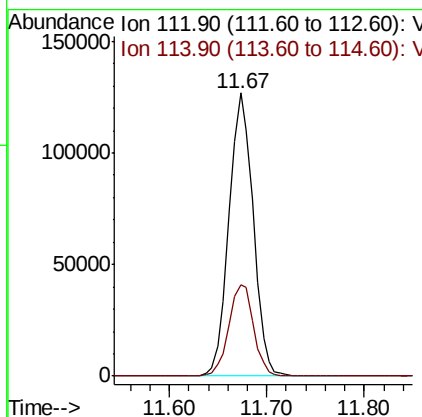
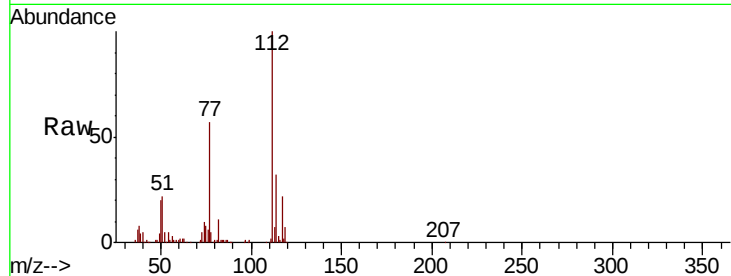
#65
Chlorobenzene
Concen: 20.828 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBSD02

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.1	24.8	37.2

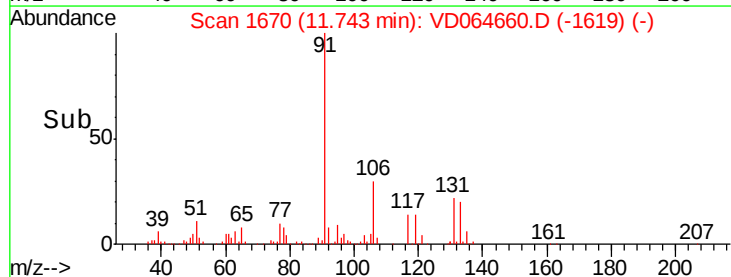
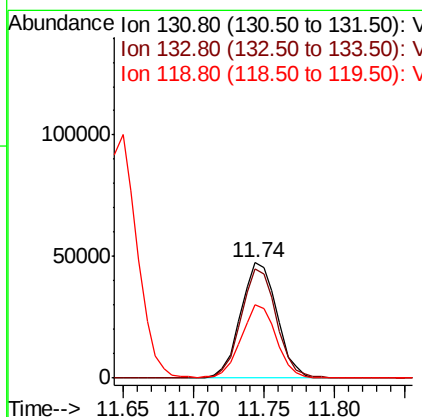
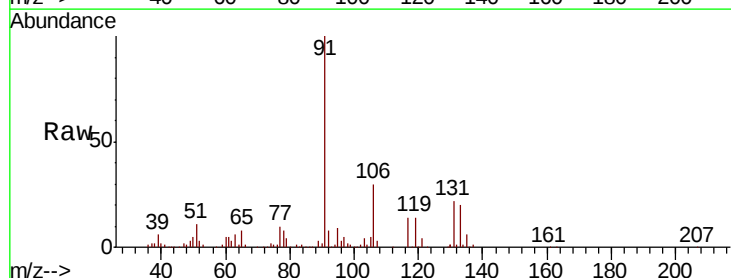
Manual Integrations
APPROVED

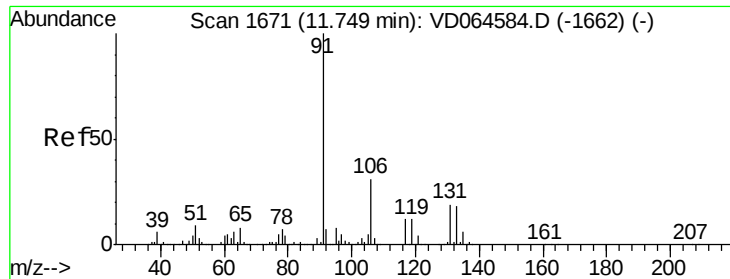
apatel
12/30/2019 11:03:28 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.523 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.0	48.3	144.8
119	62.1	32.1	96.3





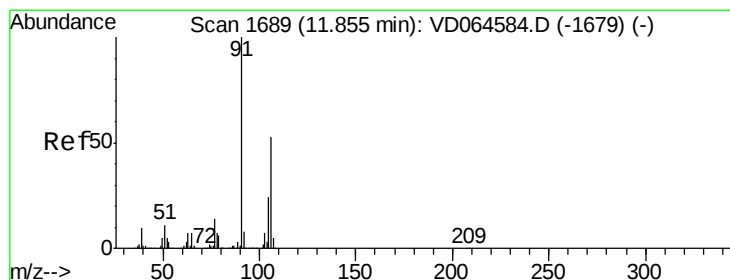
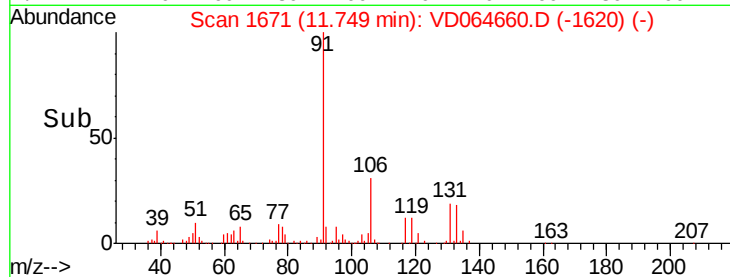
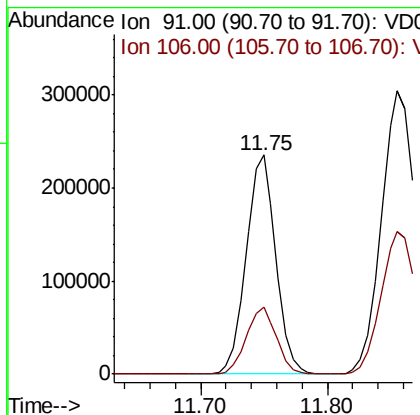
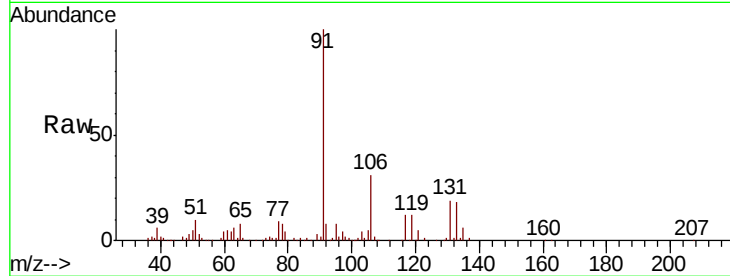
#67
Ethyl Benzene
Concen: 19.952 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBS02

Tot Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.6	36.8

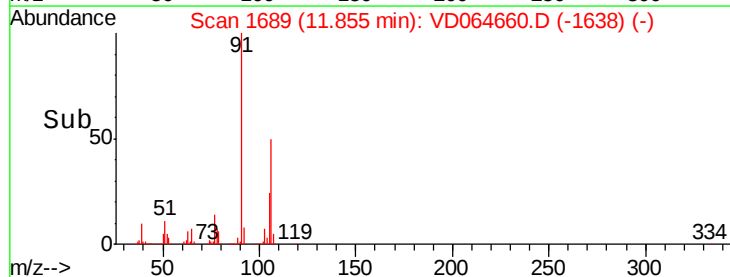
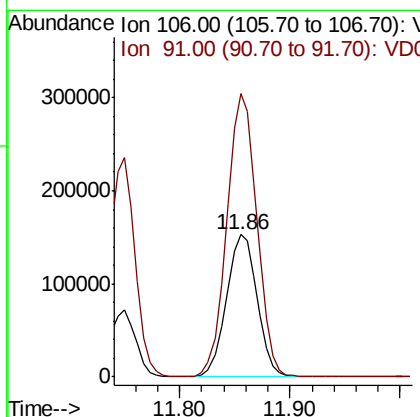
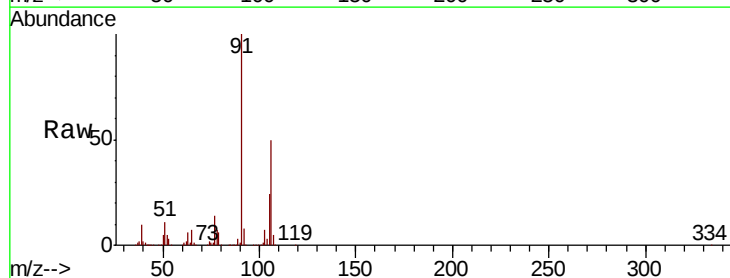
Manual Integrations
APPROVED

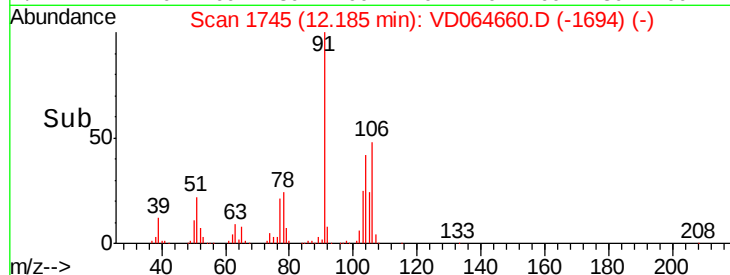
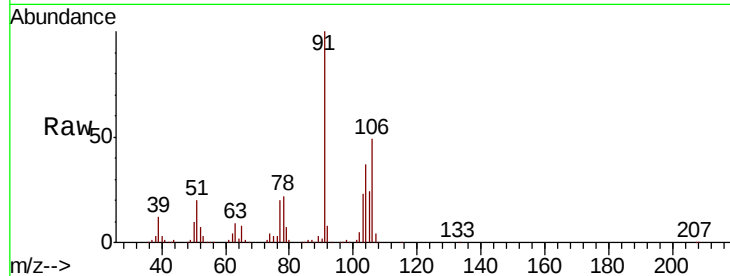
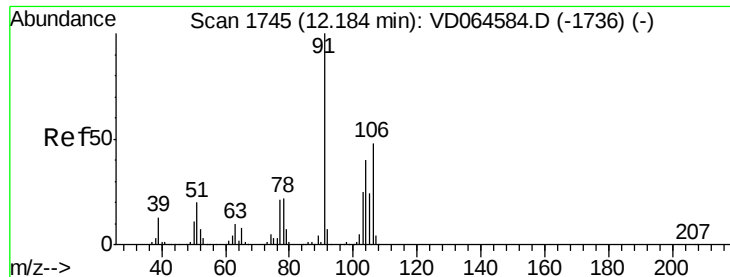
apatel
12/30/2019 11:03:28 AM



#68
m/p-Xylenes
Concen: 40.258 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Lower	Upper
106	100		
91	195.6	156.3	234.5





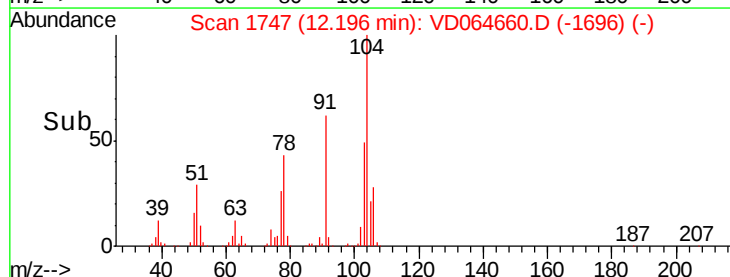
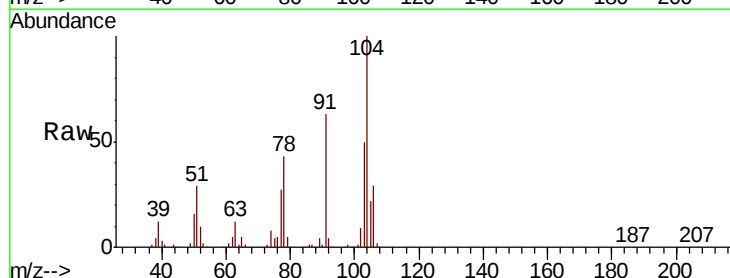
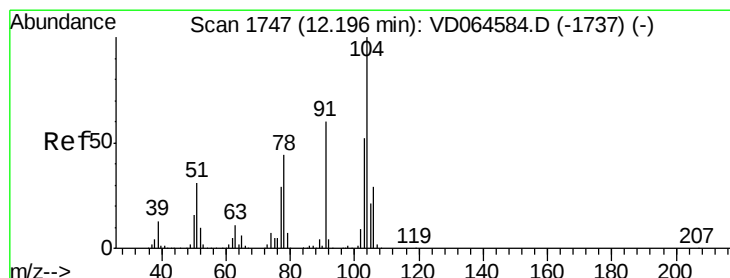
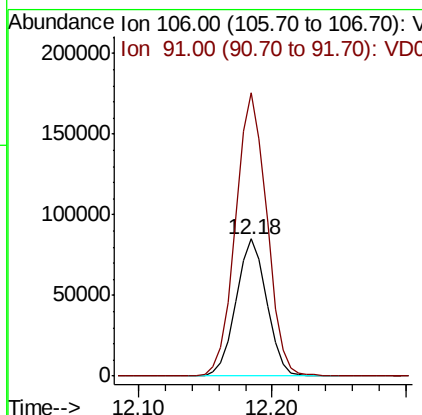
#69
o-Xylene
Concen: 20.381 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tot Ion:106 Resp: 135893
Ion Ratio Lower Upper
106 100
91 209.7 104.8 314.4

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBSD02

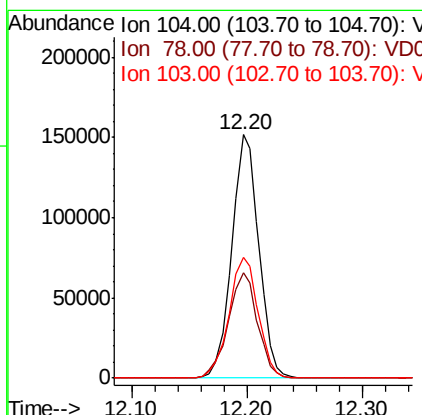
Manual Integrations
APPROVED

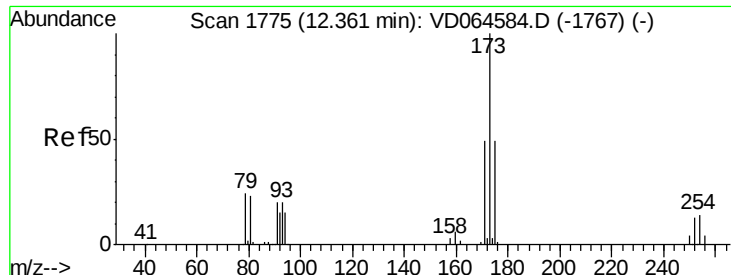
apatel
12/30/2019 11:03:28 AM



#70
Styrene
Concen: 20.984 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion:104 Resp: 245582
Ion Ratio Lower Upper
104 100
78 47.0 38.2 57.2
103 53.7 44.6 67.0





#71

Bromoform

Concen: 21.436 ug/l

RT: 12.36 min Scan# 1775

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

ClientSampleId :

VD1227SBSD02

Tot Ion:173 Resp: 48557

Ion Ratio Lower Upper

173 100

175 45.1 24.6 73.8

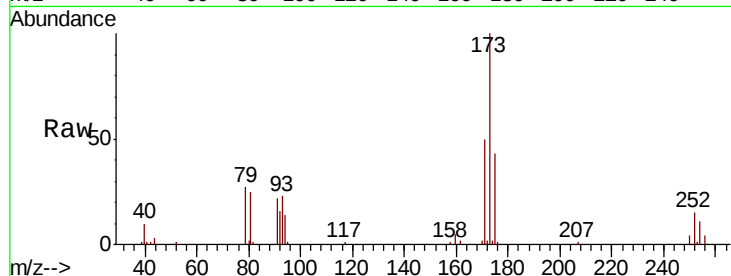
254 0.0 0.1 0.1#

Manual Integrations

APPROVED

apatel

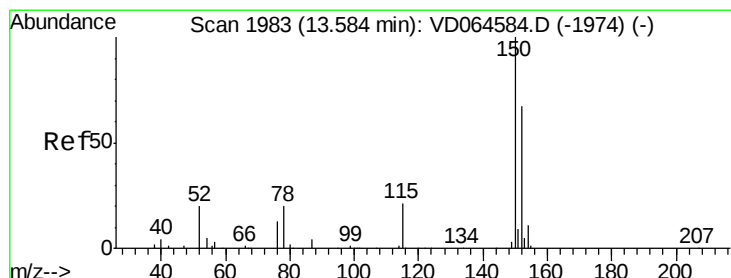
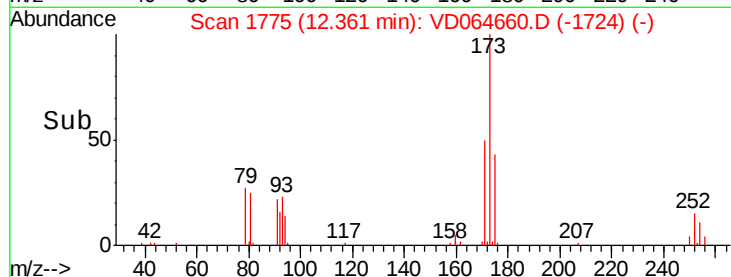
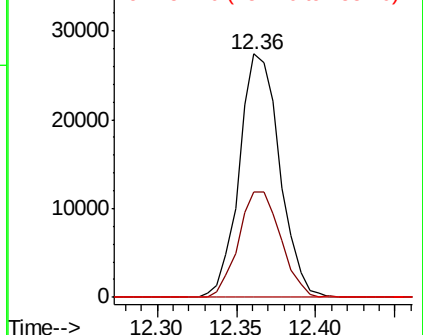
12/30/2019 11:03:28 AM



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: VD064660.D

Acq: 28 Dec 2019 00:21

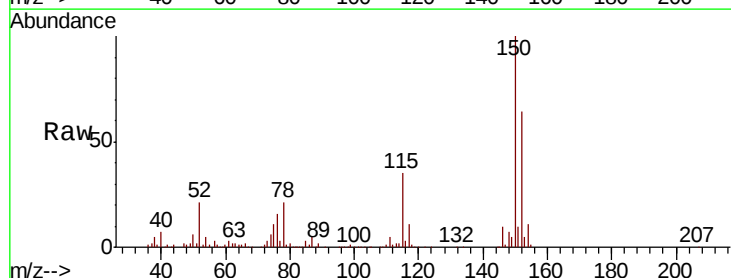
Tgt Ion:152 Resp: 257421

Ion Ratio Lower Upper

152 100

115 54.5 27.8 83.4

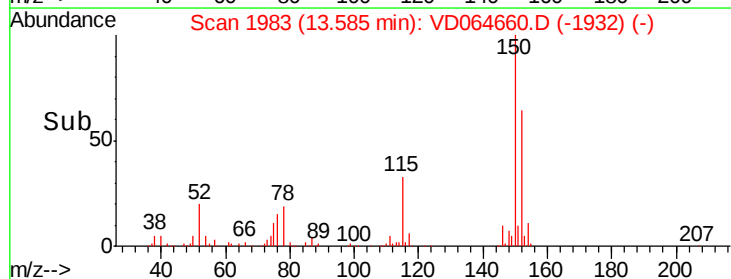
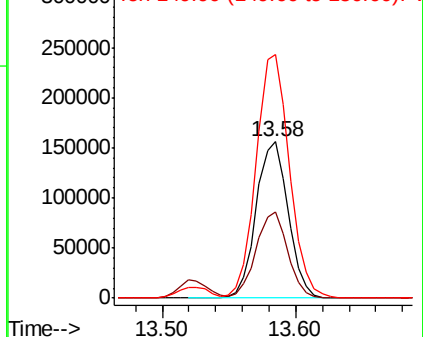
150 162.6 0.0 351.4

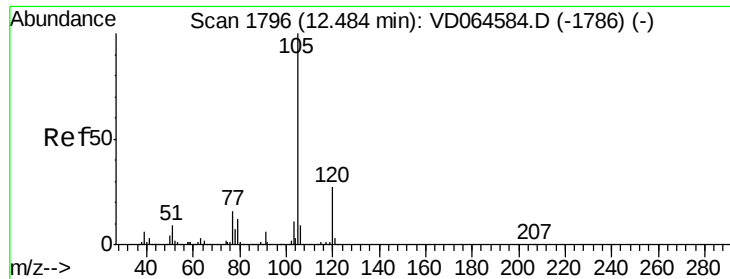


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.680 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

ClientSampleId :

VD1227SBS02

Tot Ion: 105 Resp: 362038

Ion Ratio Lower Upper

105 100

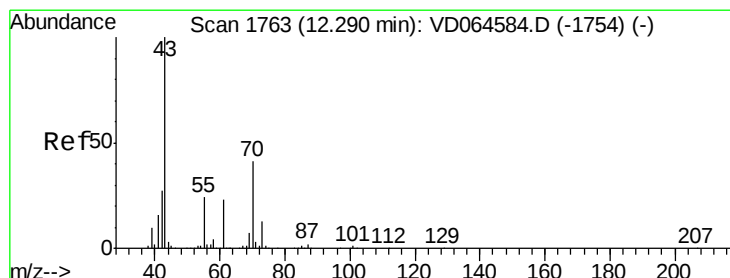
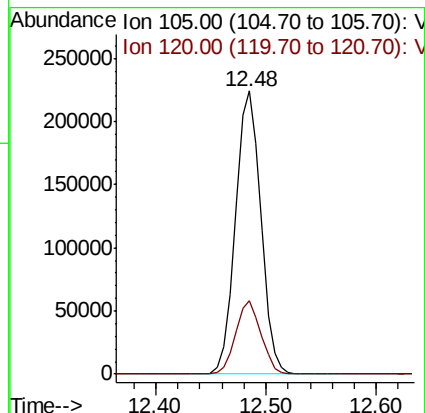
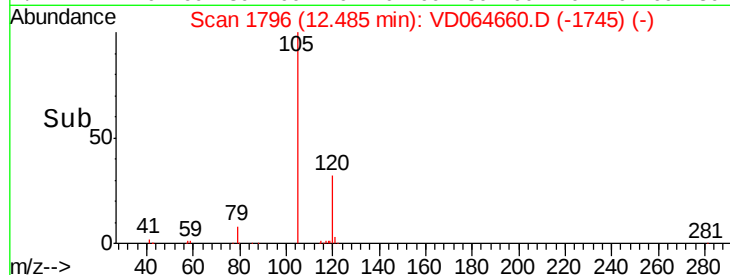
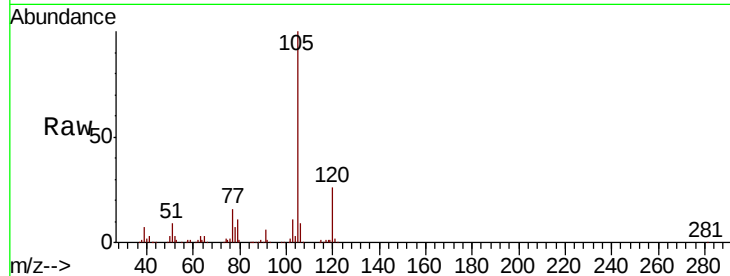
120 25.8 13.5 40.5

Manual Integrations

APPROVED

apatel

12/30/2019 11:03:28 AM



#74

N-ethyl acetate

Concen: 19.662 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Tgt Ion: 43 Resp: 77320

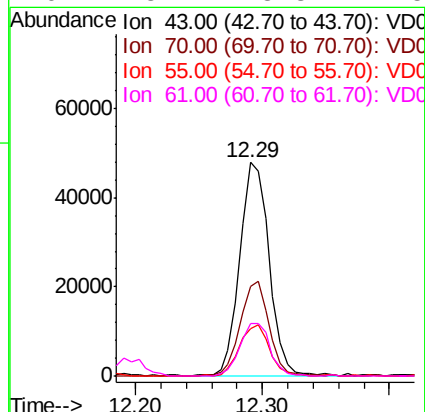
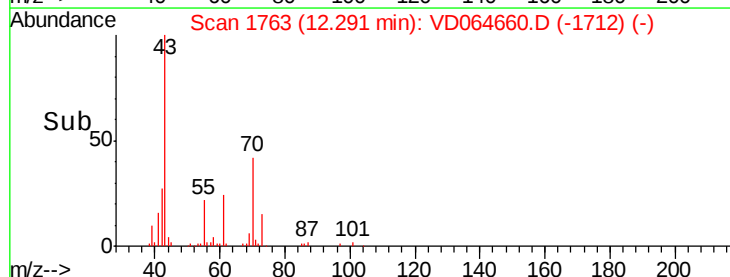
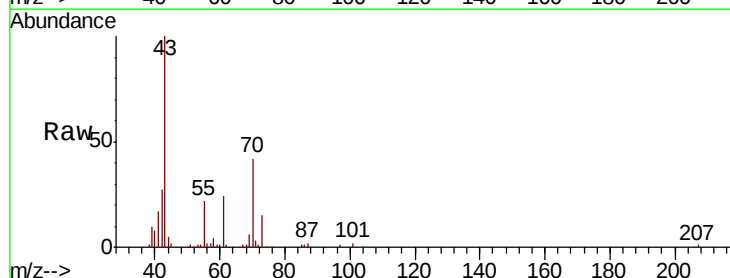
Ion Ratio Lower Upper

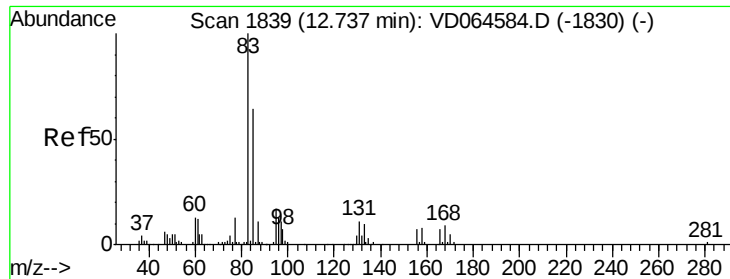
43 100

70 43.2 33.4 50.0

55 24.4 19.4 29.0

61 25.2 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 21.262 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

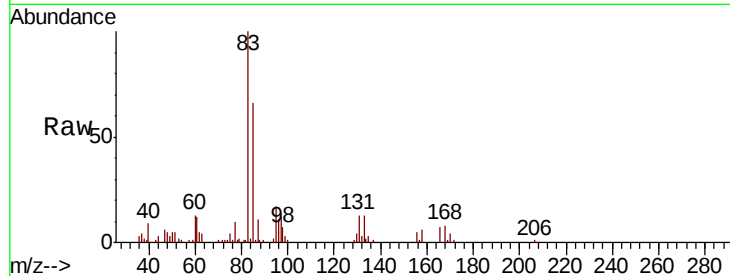
ClientSampleID :

VD1227SBS02

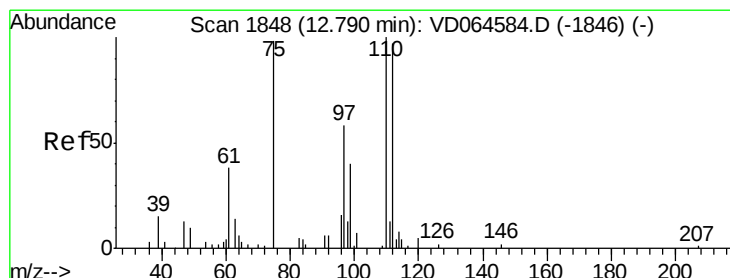
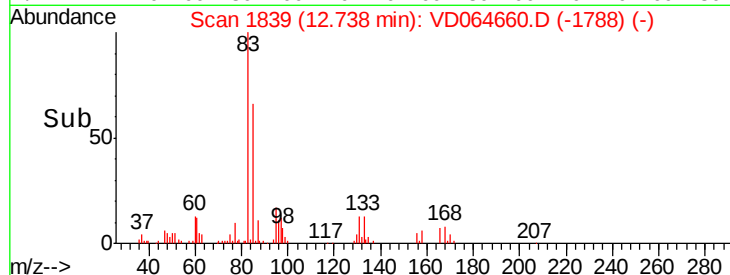
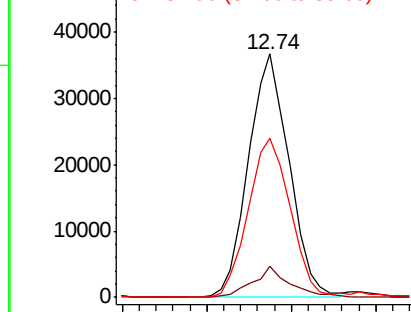
Tot Ion:	83	Resp:	61443
Ion	Ratio	Lower	Upper
83	100		
131	11.6	5.8	17.4
85	67.3	32.3	96.9

Manual Integrations
APPROVED

apatel
12/30/2019 11:03:28 AM



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



#76

1,2,3-Trichloropropane

Concen: 18.775 ug/l m

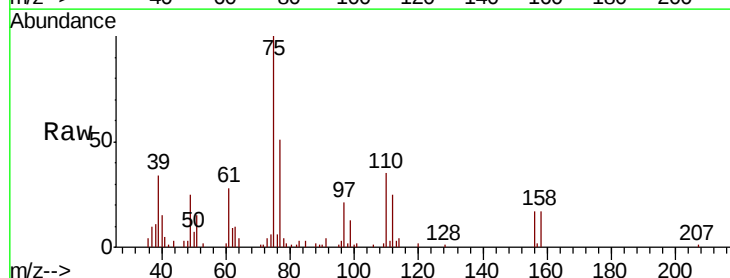
RT: 12.79 min Scan# 1848

Delta R.T. 0.00 min

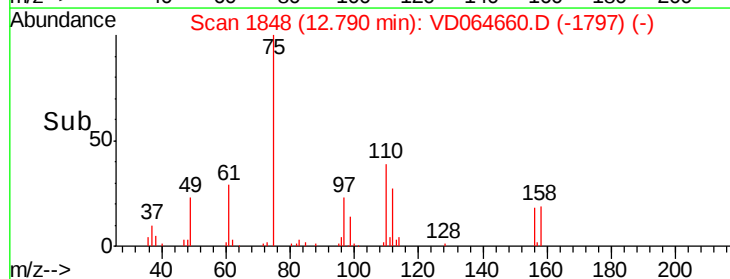
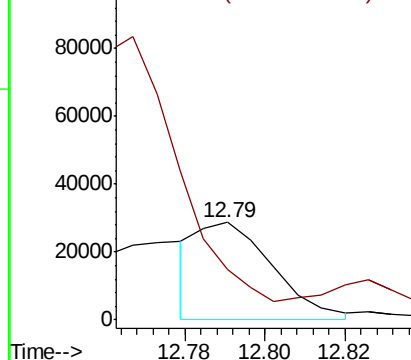
Lab File: VD064660.D

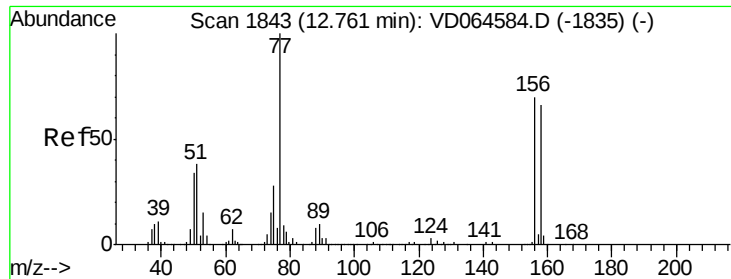
Acq: 28 Dec 2019 00:21

Tgt Ion:	75	Resp:	38164
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



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





#77

Bromobenzene

Concen: 20.481 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

ClientSampleId :

VD1227SBS02

Tot Ion:156 Resp: 92578

Ion Ratio Lower Upper

156 100

77 162.7 80.9 242.7

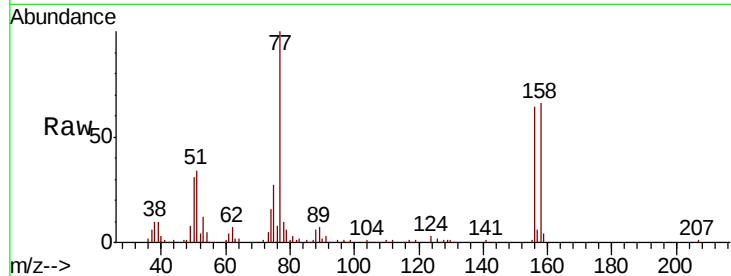
158 99.3 48.0 144.2

Manual Integrations

APPROVED

apatel

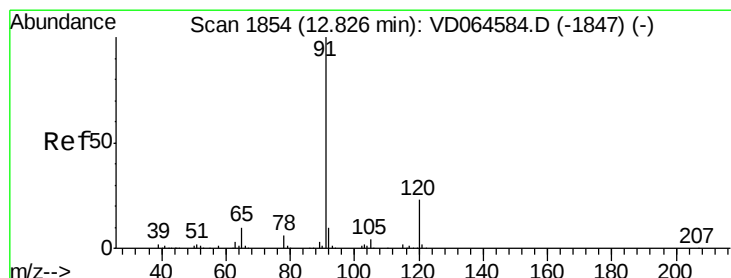
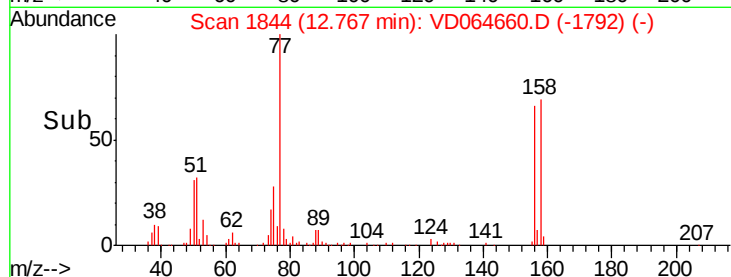
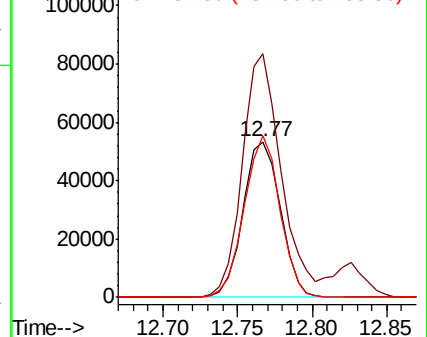
12/30/2019 11:03:28 AM



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: 19.657 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD064660.D

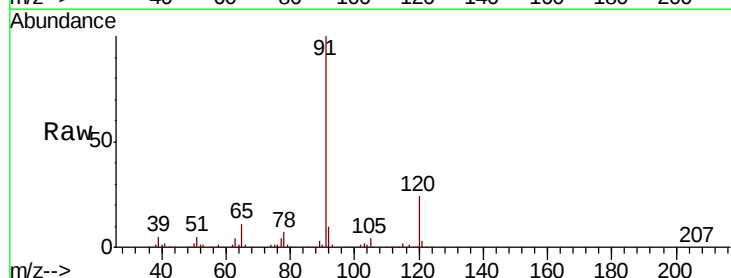
Acq: 28 Dec 2019 00:21

Tgt Ion: 91 Resp: 421856

Ion Ratio Lower Upper

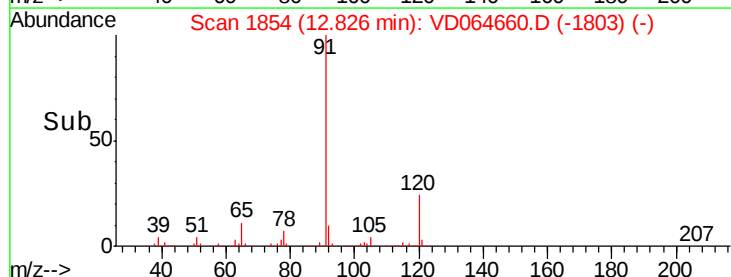
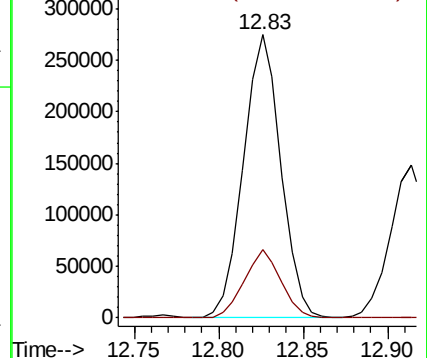
91 100

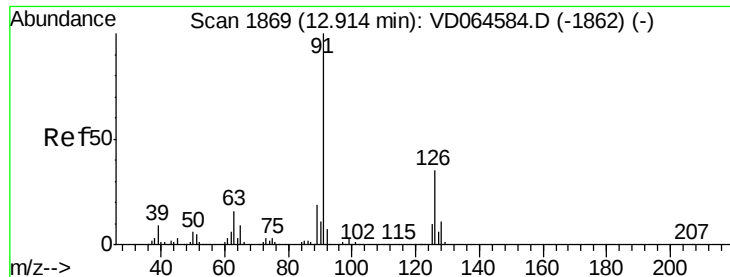
120 23.7 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





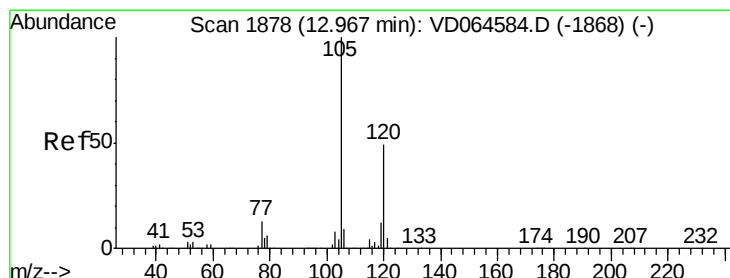
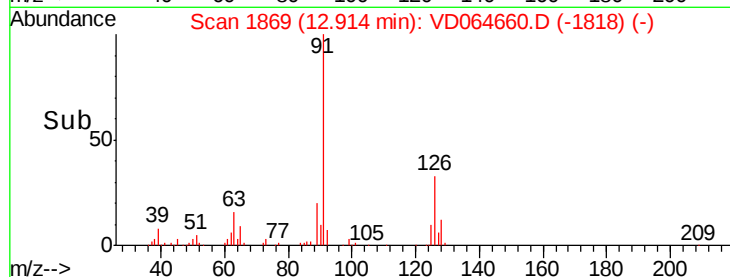
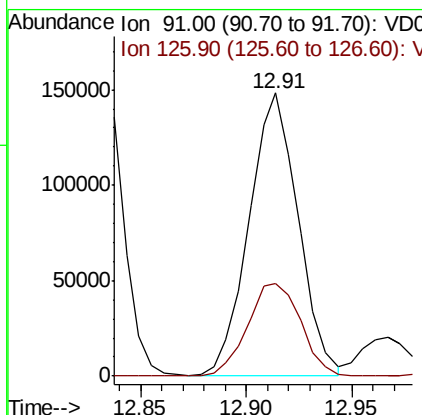
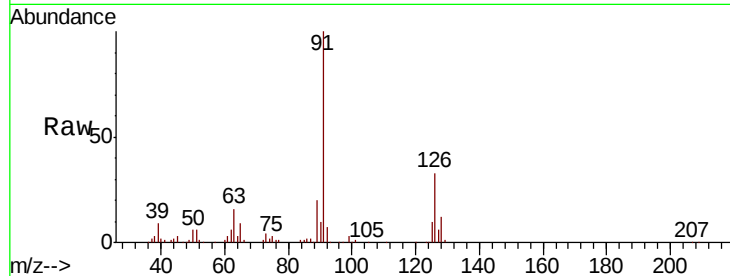
#79
2-Chlorotoluene
Concen: 20.253 ug/l
RT: 12.91 min Scan# 1869
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBSD02

Tot Ion: 91 Resp: 238766
Ion Ratio Lower Upper
91 100
126 35.8 17.8 53.5

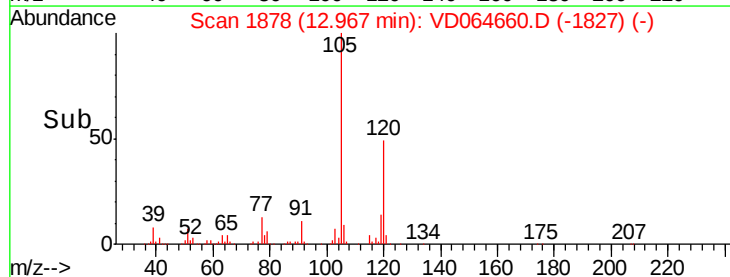
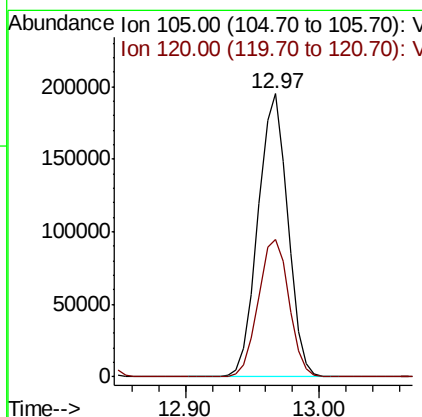
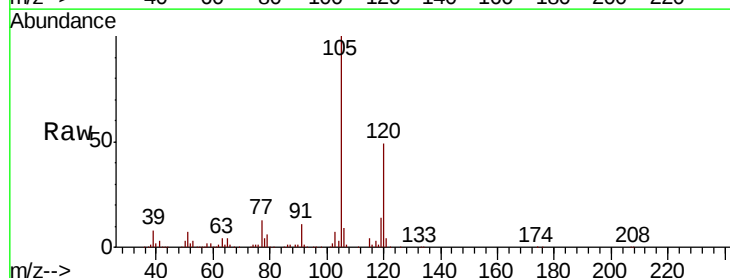
Manual Integrations
APPROVED

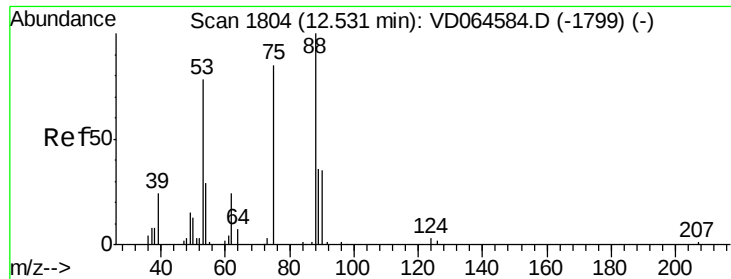
apatel
12/30/2019 11:03:28 AM



#80
1,3,5-Trimethylbenzene
Concen: 19.909 ug/l
RT: 12.97 min Scan# 1878
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion: 105 Resp: 300851
Ion Ratio Lower Upper
105 100
120 50.2 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 20.574 ug/l

RT: 12.54 min Scan# 1805

Delta R.T. 0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

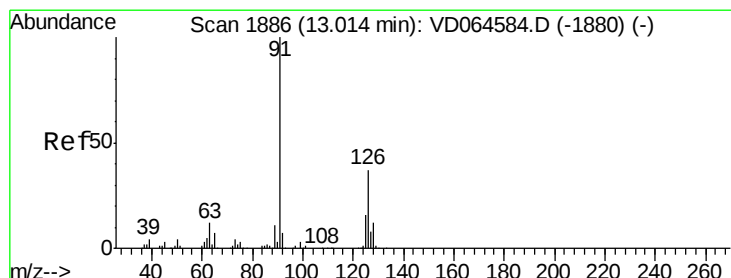
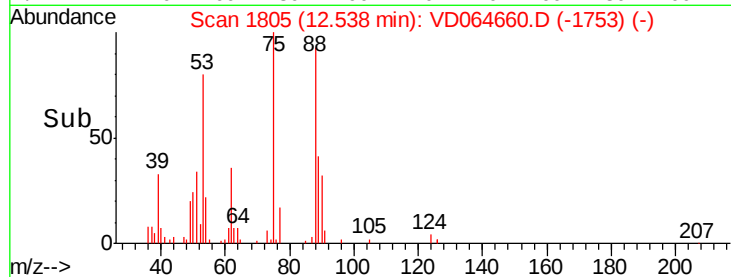
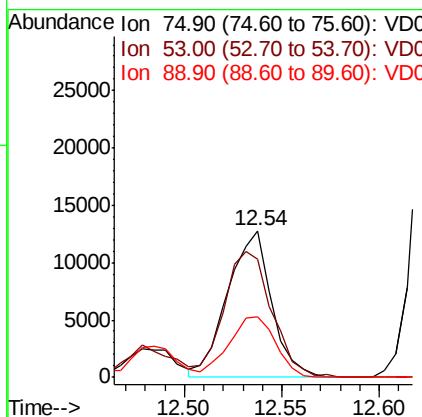
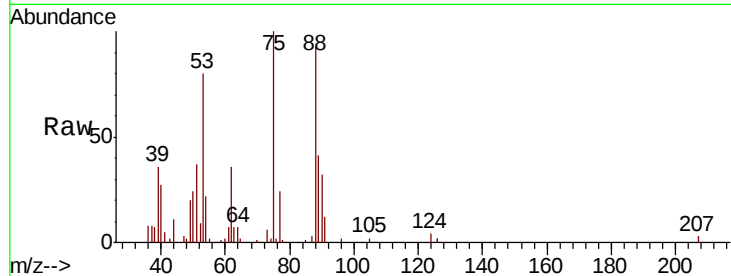
ClientSampleId :

VD1227SBSD02

Tot Ion:	75	Resp:	19996
Ion	Ratio	Lower	Upper
75	100		
53	94.0	78.8	118.2
89	43.7	38.3	57.5

Manual Integrations
APPROVED

apatel
12/30/2019 11:03:28 AM



#82

4-Chlorotoluene

Concen: 20.256 ug/l

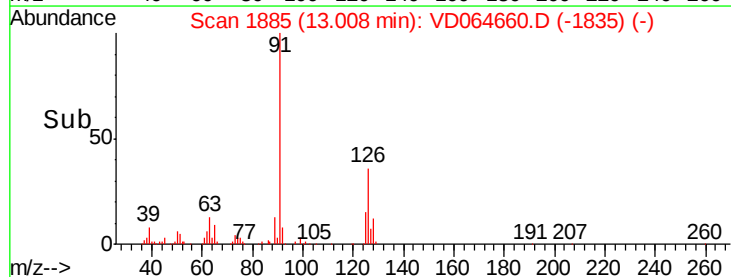
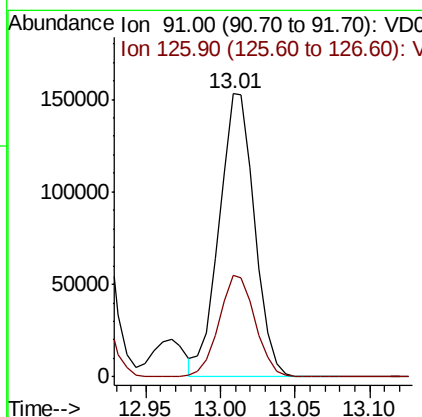
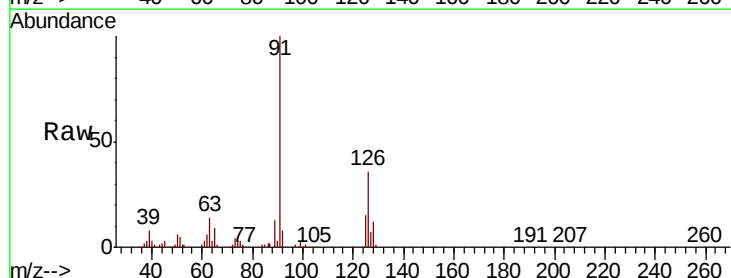
RT: 13.01 min Scan# 1885

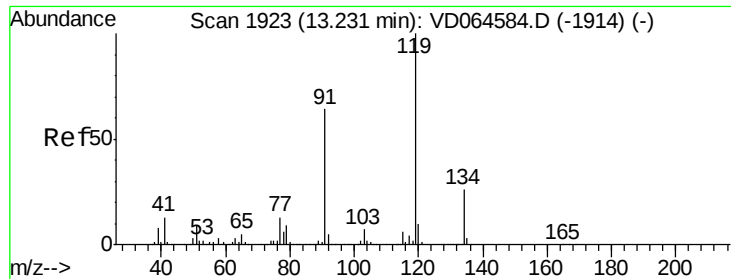
Delta R.T. -0.01 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Tgt Ion:	91	Resp:	254132
Ion	Ratio	Lower	Upper
91	100		
126	36.6	17.8	53.5





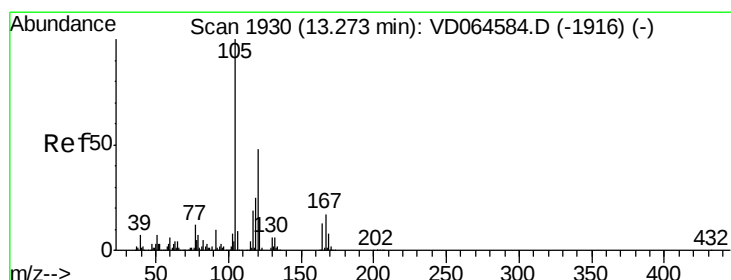
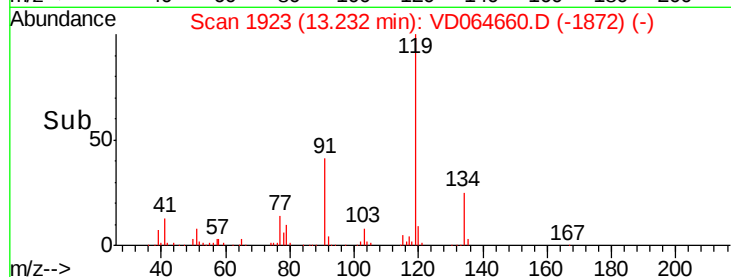
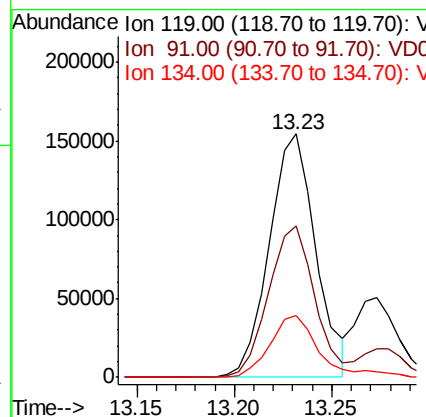
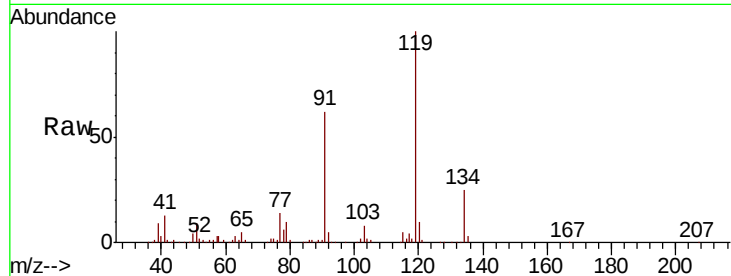
#83
tert-Butylbenzene
Concen: 19.471 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBS02

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.4	30.8	92.4
134	27.0	12.8	38.3

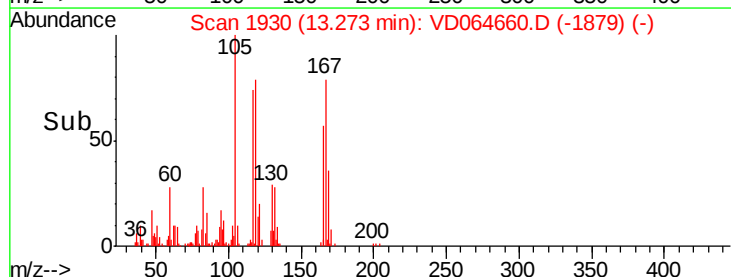
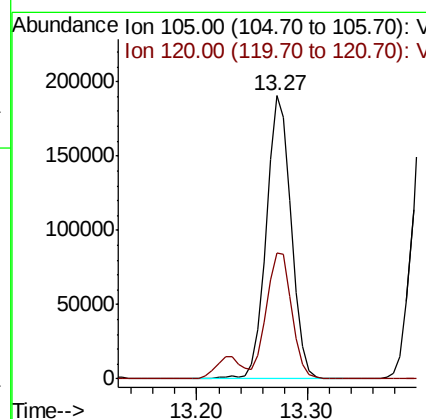
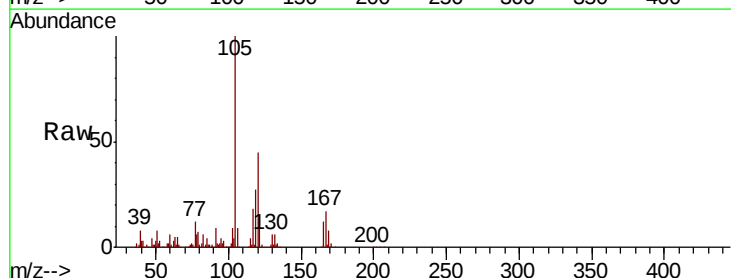
Manual Integrations
APPROVED

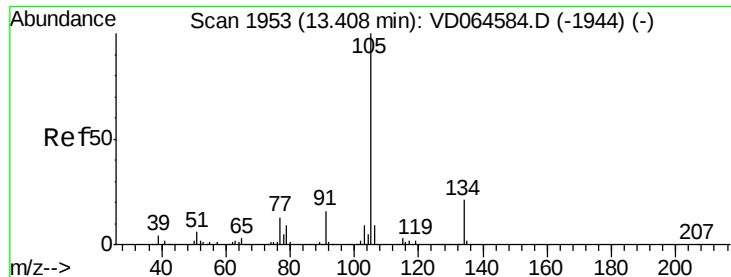
apatel
12/30/2019 11:03:28 AM



#84
1,2,4-Trimethylbenzene
Concen: 19.969 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	23.8	71.2





#85

sec-Butylbenzene

Concen: 19.196 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

Instrument :

MSVOA_D

ClientSampleID :

VD1227SBS02

Tot Ion:105 Resp: 345286

Ion Ratio Lower Upper

105 100

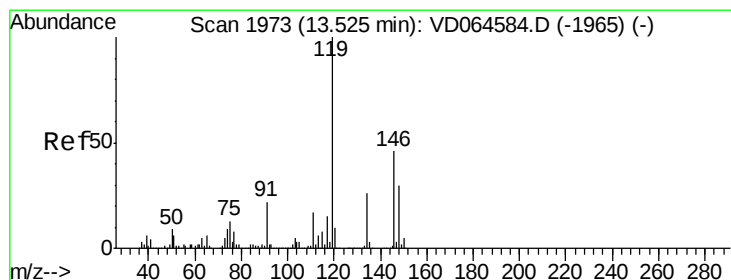
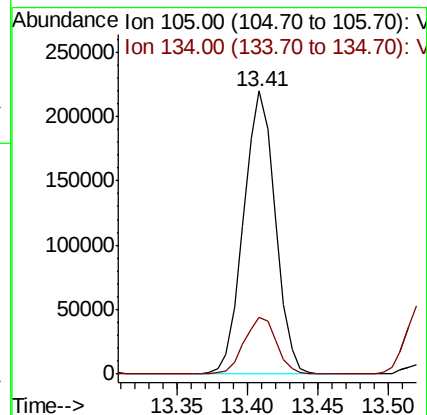
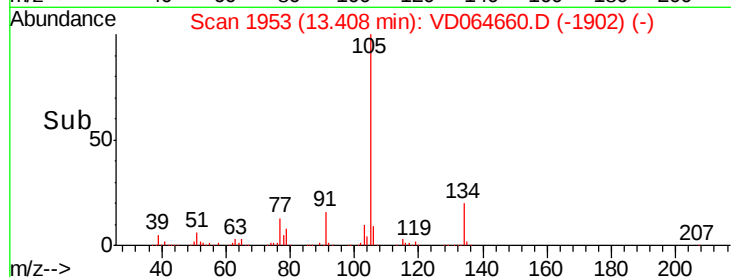
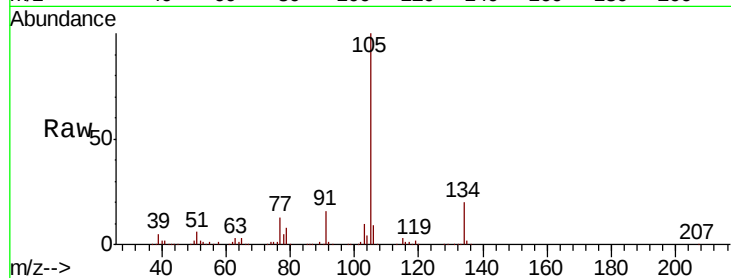
134 20.5 10.6 31.8

Manual Integrations

APPROVED

apatel

12/30/2019 11:03:28 AM



#86

p-Isopropyltoluene

Concen: 19.337 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064660.D

Acq: 28 Dec 2019 00:21

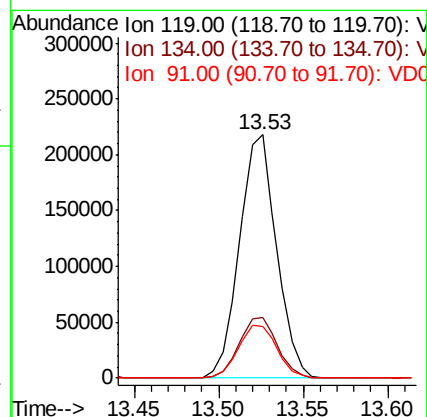
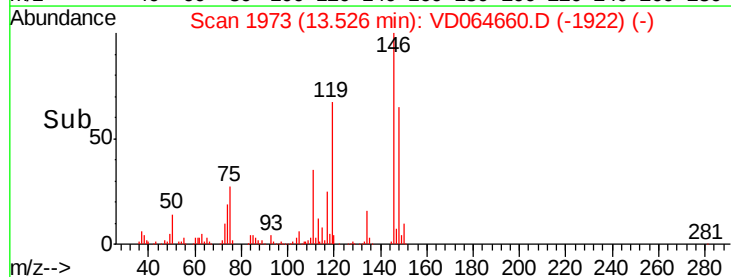
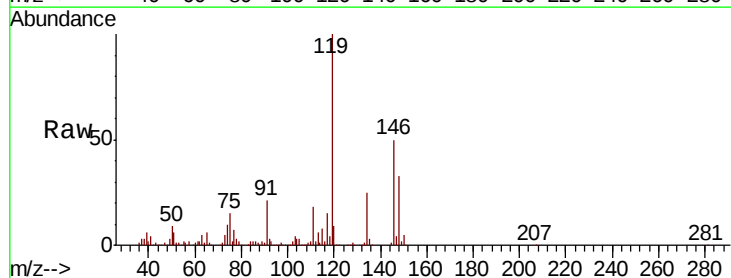
Tgt Ion:119 Resp: 332576

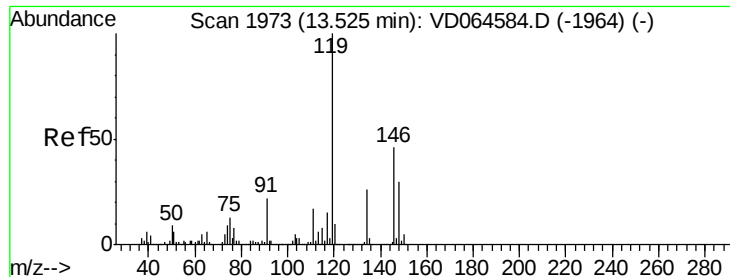
Ion Ratio Lower Upper

119 100

134 25.7 13.4 40.1

91 22.7 11.2 33.6





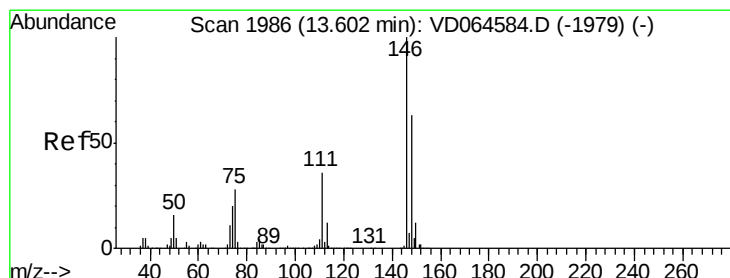
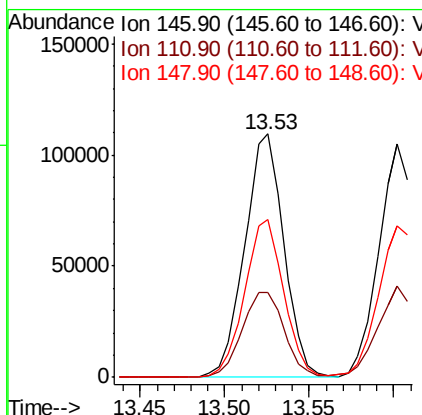
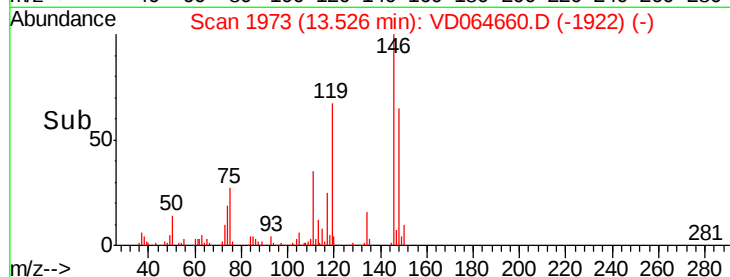
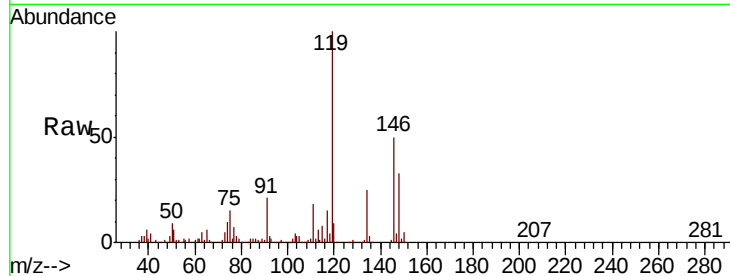
#87
 1,3-Dichlorobenzene
 Concen: 20.504 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD064660.D
 Acq: 28 Dec 2019 00:21

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1227SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	18.8	56.4
148	64.7	32.5	97.5

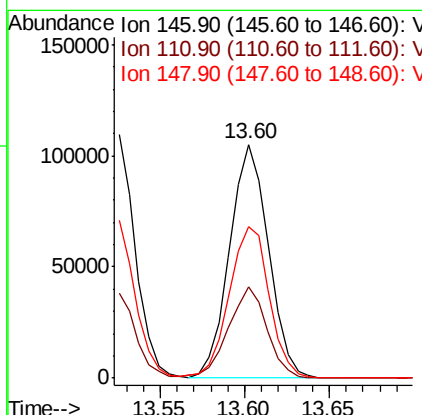
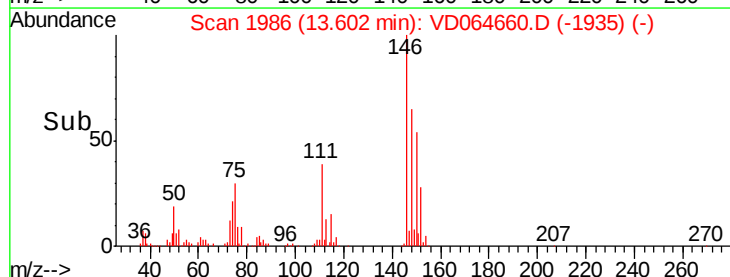
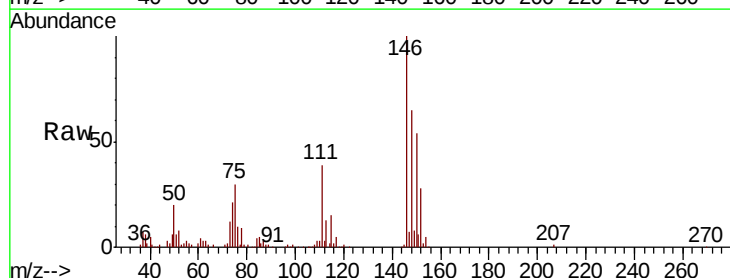
Manual Integrations
 APPROVED

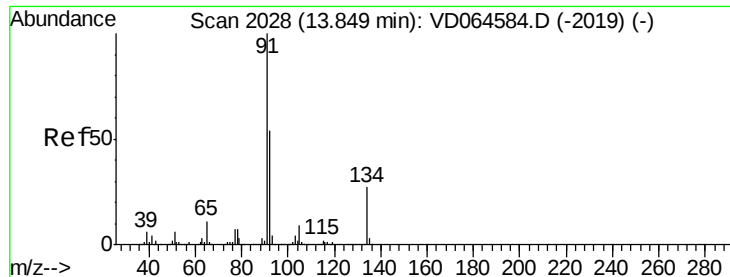
apatel
 12/30/2019 11:03:28 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.895 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD064660.D
 Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.0	18.1	54.1
148	67.0	32.3	96.9





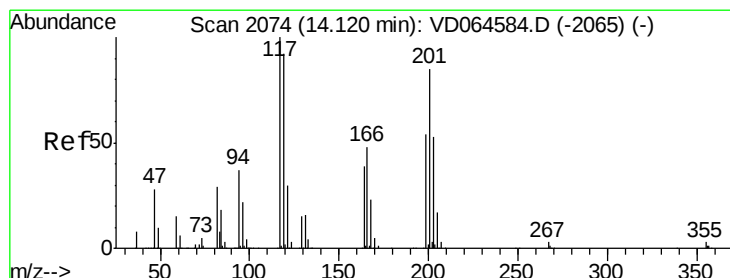
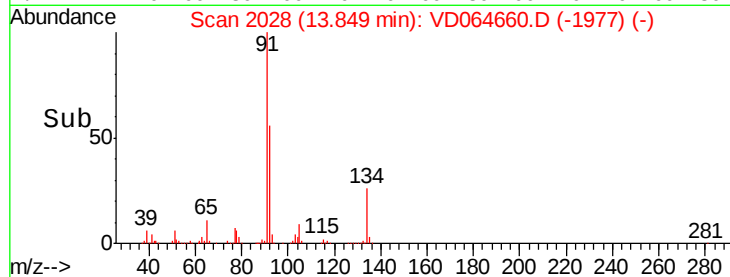
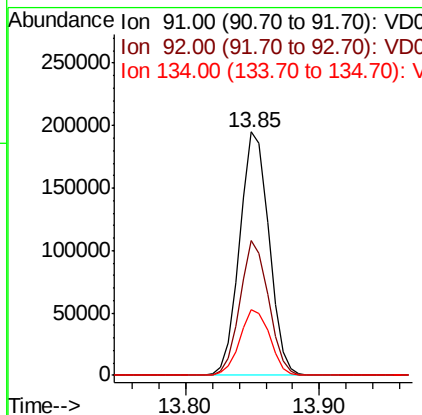
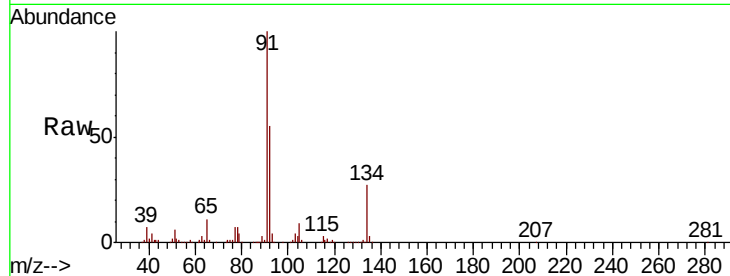
#89
n-Butylbenzene
Concen: 19.066 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBS02

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.8	80.4
134	27.6	14.0	41.9

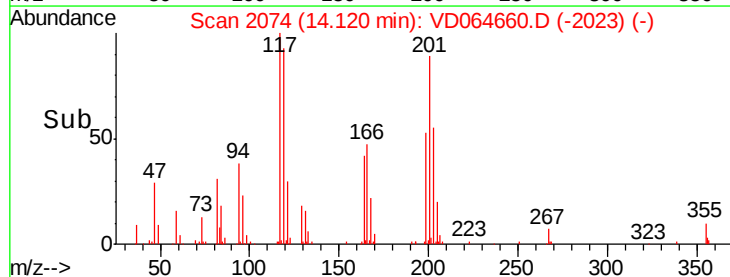
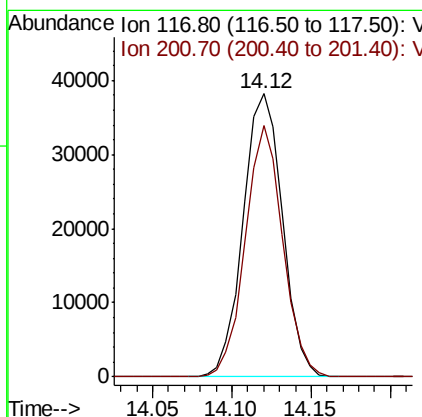
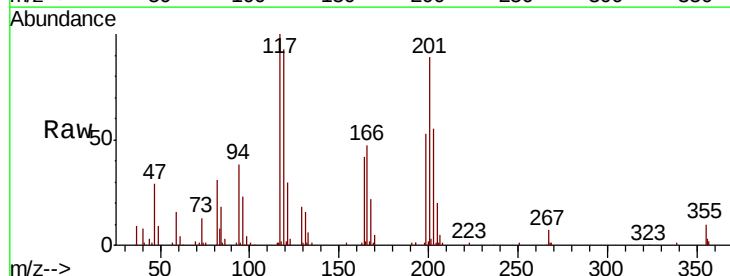
Manual Integrations
APPROVED

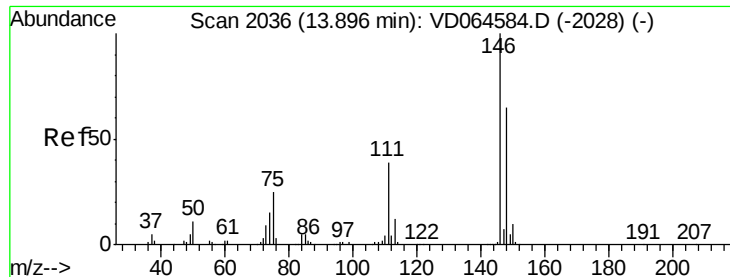
apatel
12/30/2019 11:03:28 AM



#90
Hexachloroethane
Concen: 20.074 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Lower	Upper
117	100		
201	84.5	44.0	131.8





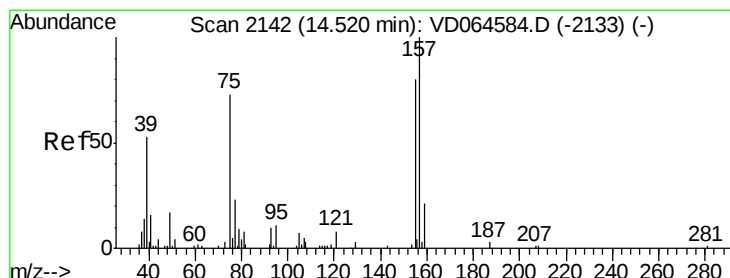
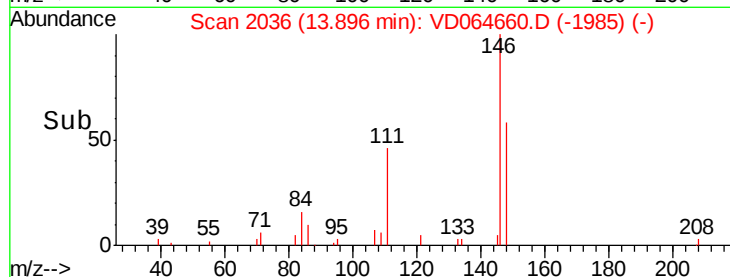
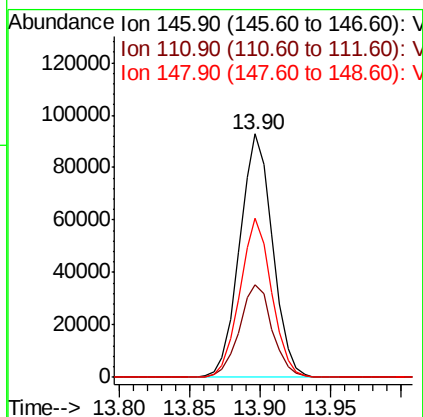
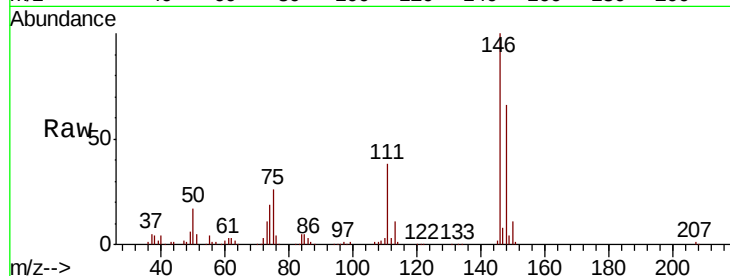
#91
 1,2-Dichlorobenzene
 Concen: 20.586 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VD064660.D
 Acq: 28 Dec 2019 00:21

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1227SBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.3	57.9
148	63.2	31.9	95.5

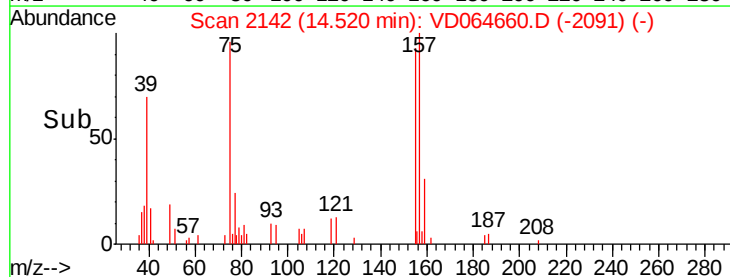
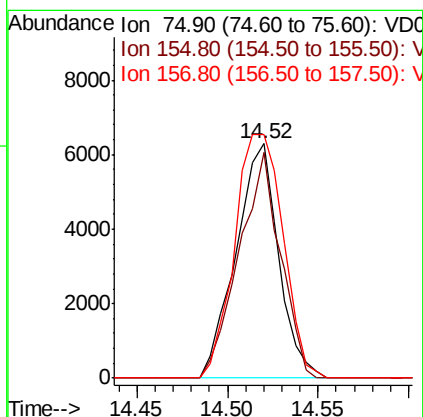
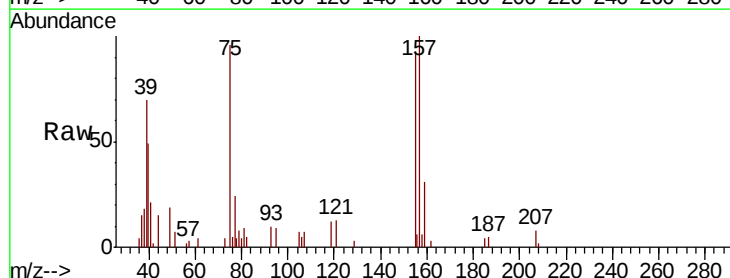
Manual Integrations
 APPROVED

apatel
 12/30/2019 11:03:28 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.961 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VD064660.D
 Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.5	48.0	144.0
157	118.4	64.1	192.3





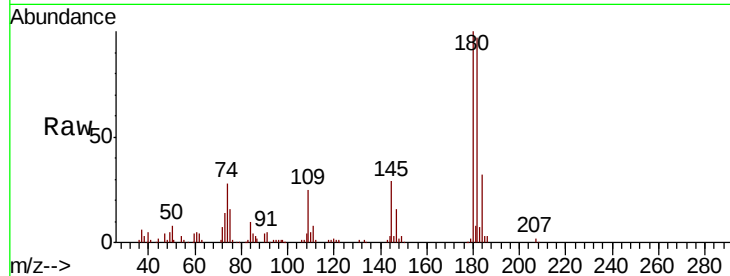
#93
 1,2,4-Trichlorobenzene
 Concen: 19.645 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VD064660.D
 Acq: 28 Dec 2019 00:21

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1227SBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	106283		
182	96.9	48.0	144.2	
145	30.2	13.8	41.4	

Manual Integrations
 APPROVED

apatel
 12/30/2019 11:03:28 AM

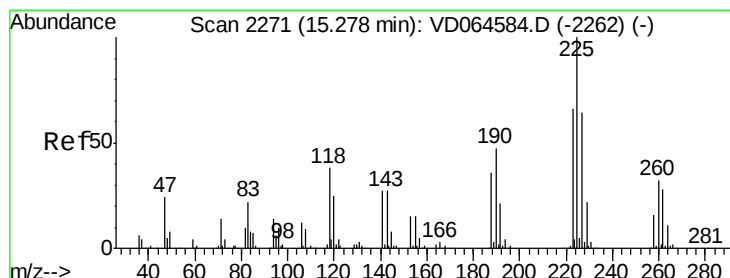
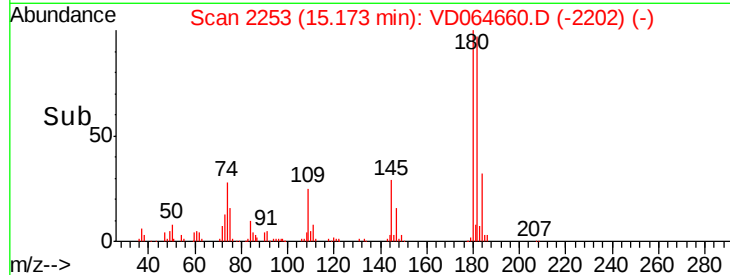
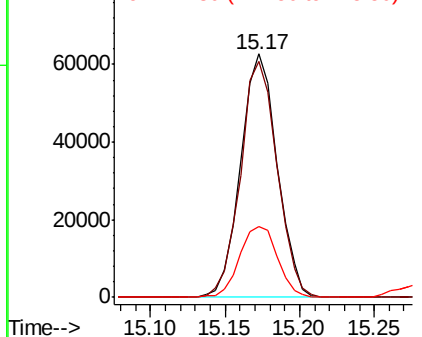


Abundance

Ion 179.80 (179.50 to 180.50): V

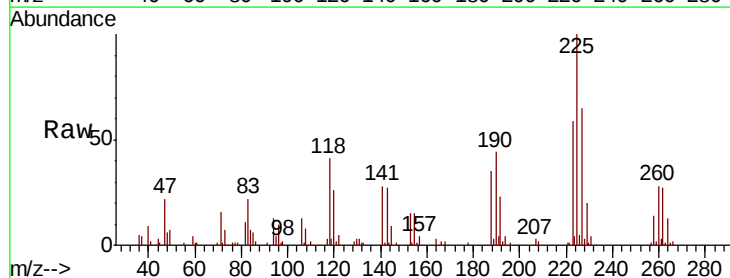
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 18.507 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD064660.D
 Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	63005		
223	64.1	31.1	93.2	
227	66.6	30.9	92.7	

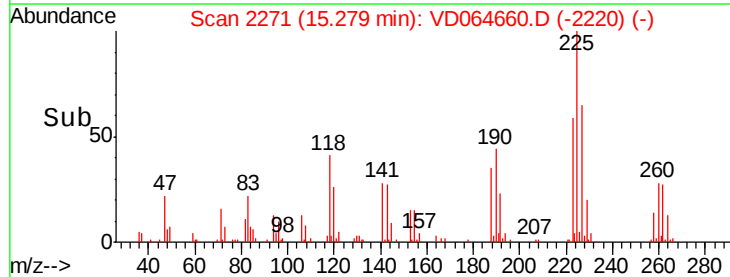
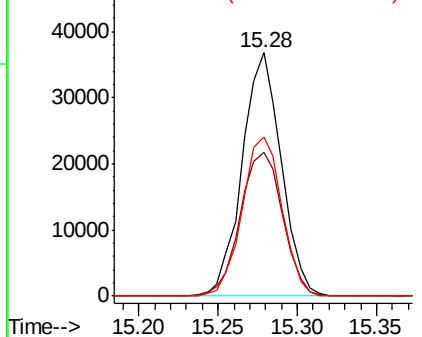


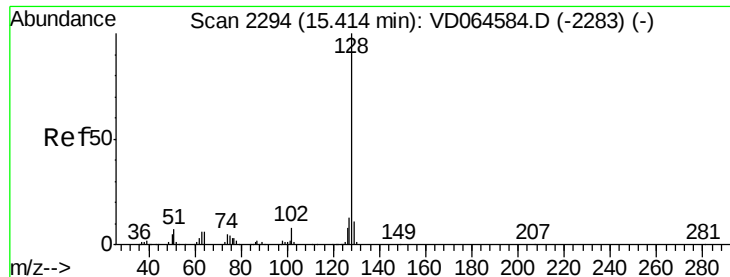
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





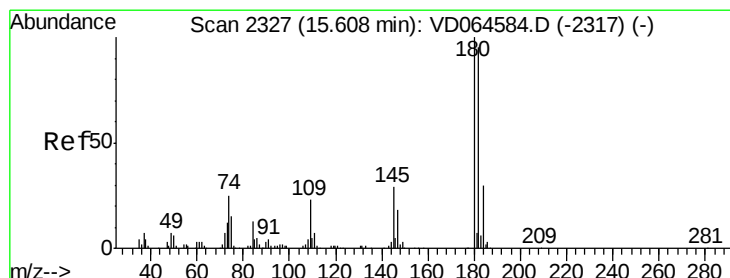
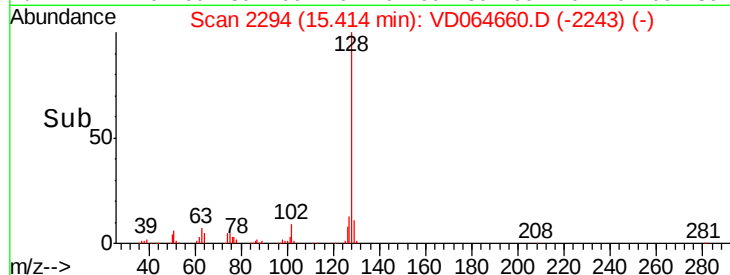
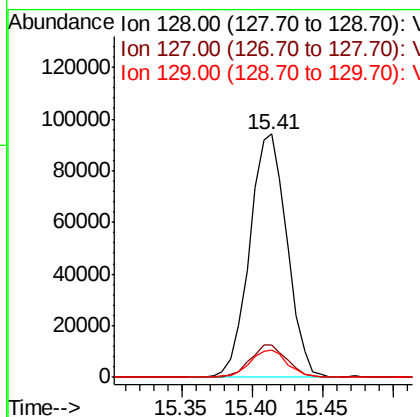
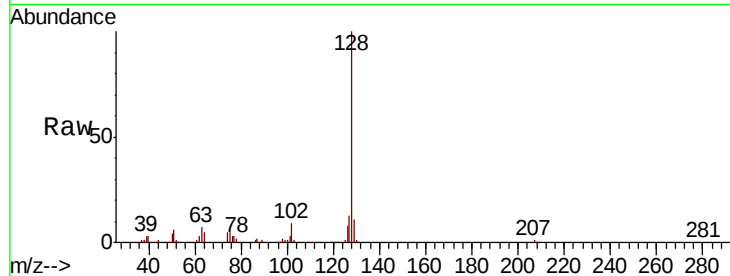
#95
Naphthalene
Concen: 20.434 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Instrument :
MSVOA_D
ClientSampleId :
VD1227SBS02

Tot Ion	Ratio	Resp	Lower	Upper
128	100	174891		
127	13.2	10.3	15.5	
129	11.2	8.5	12.7	

Manual Integrations
APPROVED

apatel
12/30/2019 11:03:28 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.500 ug/l
RT: 15.60 min Scan# 2326
Delta R.T. -0.01 min
Lab File: VD064660.D
Acq: 28 Dec 2019 00:21

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	94682		
182	93.4	47.9	143.7	
145	30.3	14.9	44.7	

