

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111819\
 Data File : VD064255.D
 Acq On : 18 Nov 2019 10:29
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 1:11:41 PM

Quant Time: Nov 19 04:44:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	683493	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	960664	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	832039	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	407551	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	284252	50.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.14%	
35) Dibromofluoromethane	7.92	113	286770	52.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.00%	
50) Toluene-d8	10.34	98	1093340	52.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.12%	
62) 4-Bromofluorobenzene	12.64	95	360711	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	276583	48.791	ug/l	98
3) Chloromethane	2.21	50	320525	52.715	ug/l	99
4) Vinyl Chloride	2.35	62	375286	57.717	ug/l	98
5) Bromomethane	2.77	94	237535	57.853	ug/l	98
6) Chloroethane	2.92	64	243215	58.539	ug/l	98
7) Trichlorofluoromethane	3.27	101	628363	59.606	ug/l	97
8) Diethyl Ether	3.71	74	140558	48.491	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.08	101	306974	50.947	ug/l	98
10) Methyl Iodide	4.29	142	330517	48.133	ug/l	99
11) Tert butyl alcohol	5.25	59	93759	238.800	ug/l	99
12) 1,1-Dichloroethene	4.06	96	291605	50.774	ug/l	96
13) Acrolein	3.92	56	97835	294.550	ug/l	99
14) Allyl chloride	4.71	41	492821	48.532	ug/l	95
15) Acrylonitrile	5.43	53	297936	241.103	ug/l	99
16) Acetone	4.16	43	311694	234.058	ug/l	93
17) Carbon Disulfide	4.40	76	882269	49.328	ug/l	100
18) Methyl Acetate	4.72	43	172826	46.465	ug/l	98
19) Methyl tert-butyl Ether	5.48	73	666689	48.626	ug/l	96
20) Methylene Chloride	4.96	84	295730	43.963	ug/l	99
21) trans-1,2-Dichloroethene	5.47	96	323399	49.701	ug/l	99
22) Diisopropyl ether	6.37	45	932249	49.480	ug/l	98
23) Vinyl Acetate	6.31	43	2661621	253.429	ug/l	99
24) 1,1-Dichloroethane	6.27	63	552170	50.474	ug/l	97
25) 2-Butanone	7.22	43	410879	238.817	ug/l	100
26) 2,2-Dichloropropane	7.21	77	526022	49.031	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	354437	50.794	ug/l	97
28) Bromochloromethane	7.54	49	208359	54.707	ug/l	98
29) Tetrahydrofuran	7.57	42	250019	241.868	ug/l	99
30) Chloroform	7.71	83	576865	51.551	ug/l	98
31) Cyclohexane	7.98	56	520991	47.222	ug/l	100
32) 1,1,1-Trichloroethane	7.90	97	542780	50.657	ug/l	99
36) 1,1-Dichloropropene	8.11	75	456857	51.528	ug/l	99
37) Ethyl Acetate	7.30	43	171738	45.947	ug/l	98
38) Carbon Tetrachloride	8.09	117	494773	52.153	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111819\
 Data File : VD064255.D
 Acq On : 18 Nov 2019 10:29
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 1:11:41 PM

Quant Time: Nov 19 04:44:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	561098	50.014	ug/l	98
40) Benzene	8.35	78	1230982	50.802	ug/l	99
41) Methacrylonitrile	7.53	41	110278	46.942	ug/l	96
42) 1,2-Dichloroethane	8.43	62	354841	48.758	ug/l	99
43) Isopropyl Acetate	8.46	43	369876	48.028	ug/l	100
44) Trichloroethene	9.11	130	364301	50.092	ug/l	98
45) 1,2-Dichloropropane	9.39	63	298524	50.616	ug/l	98
46) Dibromomethane	9.48	93	154176	48.829	ug/l	99
47) Bromodichloromethane	9.67	83	431751	50.765	ug/l	99
48) Methyl methacrylate	9.46	41	172768	45.879	ug/l	98
49) 1,4-Dioxane	9.47	88	36413	960.241	ug/l	95
51) 4-Methyl-2-Pentanone	10.23	43	881354	238.649	ug/l	100
52) Toluene	10.41	92	799020	50.147	ug/l	98
53) t-1,3-Dichloropropene	10.63	75	422119	49.541	ug/l	100
54) cis-1,3-Dichloropropene	10.09	75	490586	49.341	ug/l	100
55) 1,1,2-Trichloroethane	10.81	97	218582	51.031	ug/l	99
56) Ethyl methacrylate	10.67	69	288321	48.119	ug/l	96
57) 1,3-Dichloropropane	10.95	76	372693	49.891	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.94	63	570248	234.949	ug/l	99
59) 2-Hexanone	10.99	43	616437	234.616	ug/l	99
60) Dibromochloromethane	11.14	129	296201	49.559	ug/l	100
61) 1,2-Dibromoethane	11.25	107	213046	49.659	ug/l	100
64) Tetrachloroethene	10.88	164	311678	48.706	ug/l	97
65) Chlorobenzene	11.67	112	841712	49.748	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.75	131	321267	49.936	ug/l	99
67) Ethyl Benzene	11.75	91	1549747	50.638	ug/l	100
68) m/p-Xylenes	11.85	106	1183085	100.853	ug/l	100
69) o-Xylene	12.18	106	544140	50.015	ug/l	100
70) Styrene	12.20	104	950775	50.064	ug/l	99
71) Bromoform	12.37	173	181296	49.516	ug/l	100
73) Isopropylbenzene	12.48	105	1514253	50.620	ug/l	100
74) N-amyl acetate	12.30	43	335394	47.479	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.74	83	221073	49.045	ug/l	99
76) 1,2,3-Trichloropropane	12.79	75	151438m	46.132	ug/l	
77) Bromobenzene	12.77	156	358915	49.387	ug/l	99
78) n-propylbenzene	12.83	91	1737643	50.842	ug/l	99
79) 2-Chlorotoluene	12.91	91	963306	49.923	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	1230260	50.050	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.54	75	77019	46.605	ug/l	98
82) 4-Chlorotoluene	13.01	91	1005311	49.951	ug/l	99
83) tert-Butylbenzene	13.23	119	1075851	49.637	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	1219473	50.252	ug/l	100
85) sec-Butylbenzene	13.41	105	1483787	50.970	ug/l	100
86) p-Isopropyltoluene	13.53	119	1402445	50.674	ug/l	100
87) 1,3-Dichlorobenzene	13.53	146	675597	50.080	ug/l	100
88) 1,4-Dichlorobenzene	13.60	146	661222	50.220	ug/l	99
89) n-Butylbenzene	13.85	91	1286684	51.460	ug/l	99
90) Hexachloroethane	14.12	117	260335	50.899	ug/l	98
91) 1,2-Dichlorobenzene	13.90	146	577304	50.559	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.51	75	37339	46.331	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111819\
Data File : VD064255.D
Acq On : 18 Nov 2019 10:29
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM

Quant Time: Nov 19 04:44:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 12 02:43:24 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	445803	50.612	ug/l	99
94) Hexachlorobutadiene	15.28	225	290357	51.036	ug/l	99
95) Naphthalene	15.41	128	704631	48.801	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	374899	50.071	ug/l	98

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

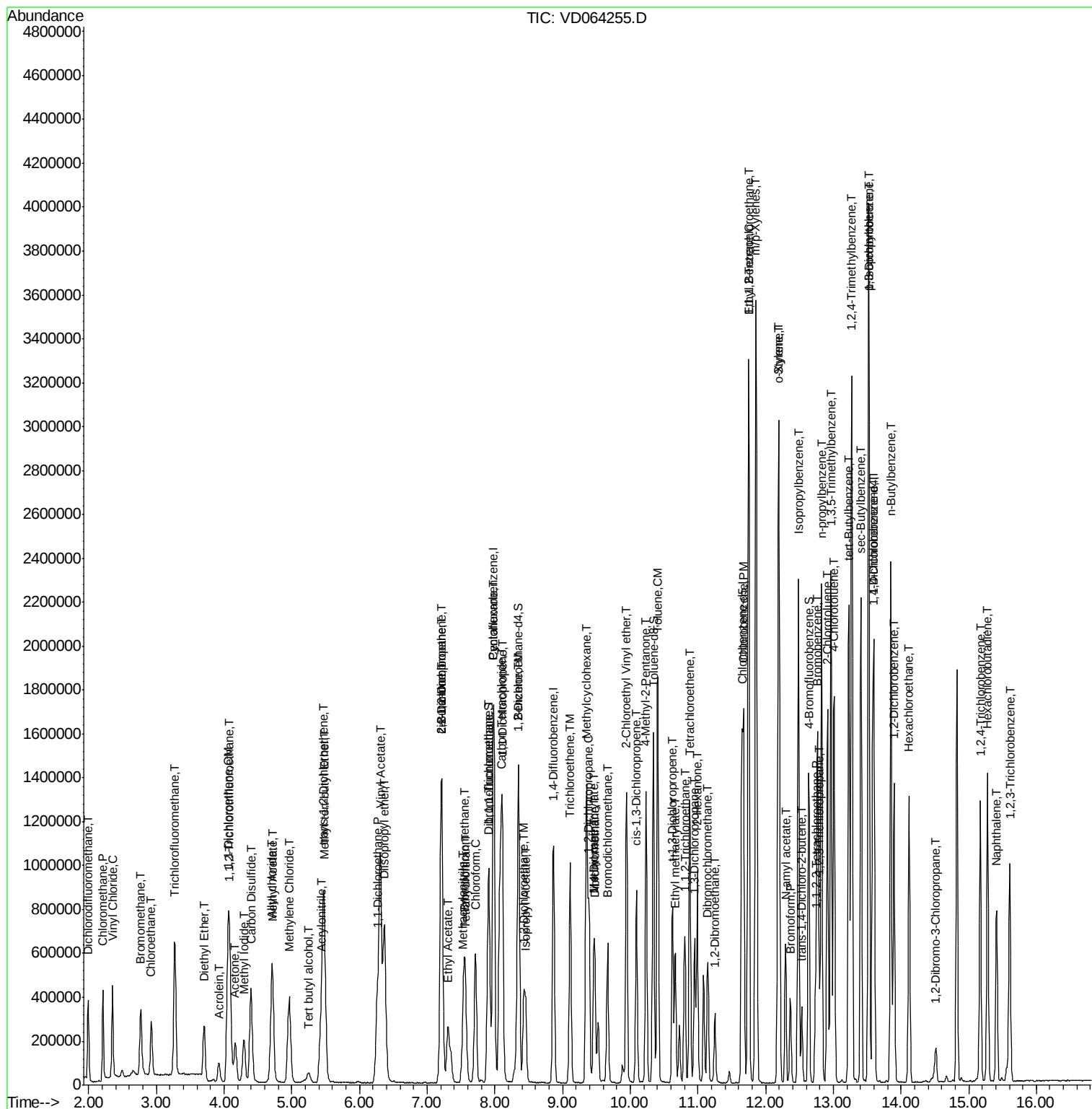
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111819\
Data File : VD064255.D
Acq On : 18 Nov 2019 10:29
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

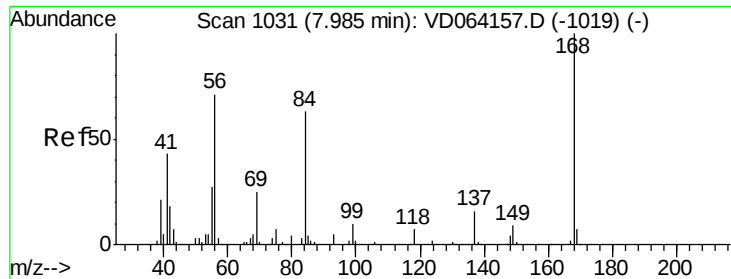
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM

Quant Time: Nov 19 04:44:08 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 12 02:43:24 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 683493

Ion Ratio Lower Upper

168 100

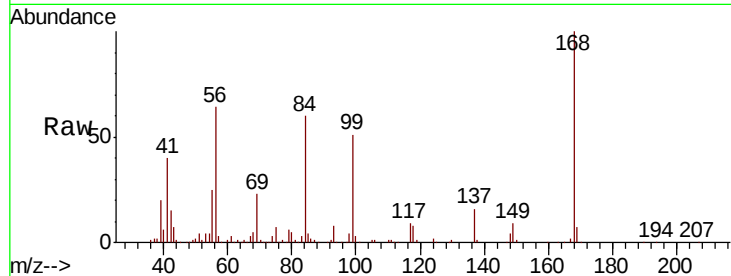
99 50.4 41.6 62.4

Manual Integrations

APPROVED

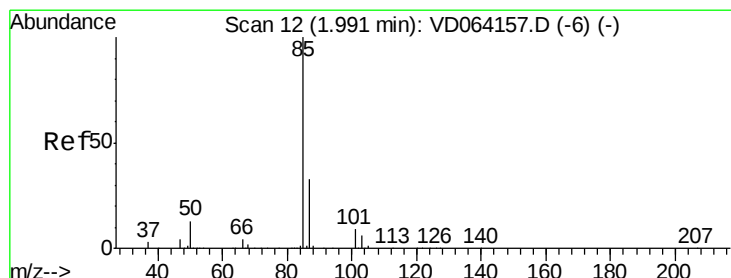
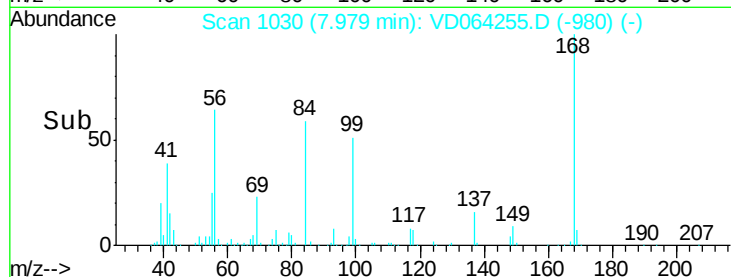
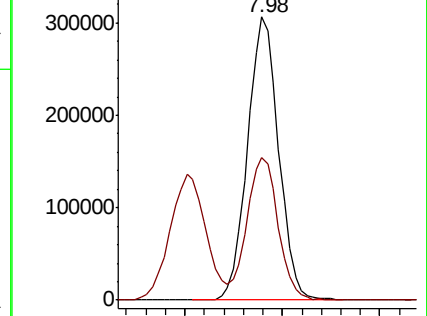
MMDadoda

11/20/2019 1:11:41 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 48.791 ug/l

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD064255.D

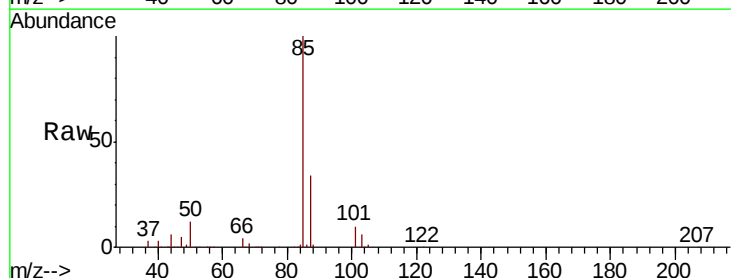
Acq: 18 Nov 2019 10:29

Tgt Ion: 85 Resp: 276583

Ion Ratio Lower Upper

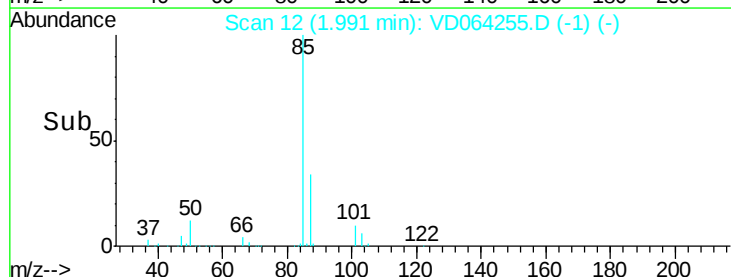
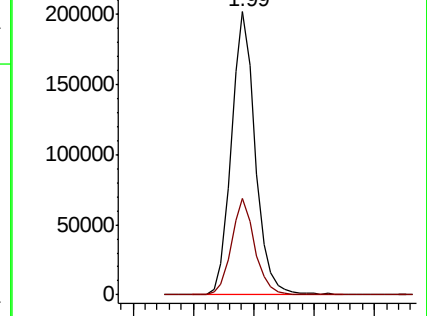
85 100

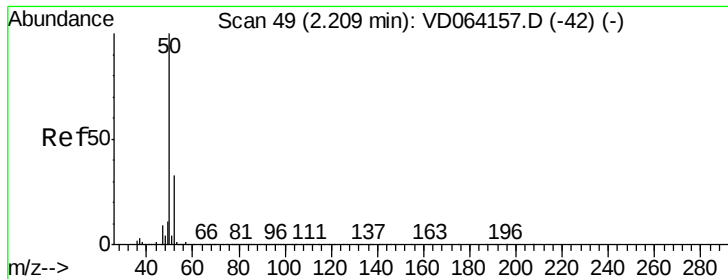
87 34.1 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 52.715 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 320525

Ion Ratio Lower Upper

50 100

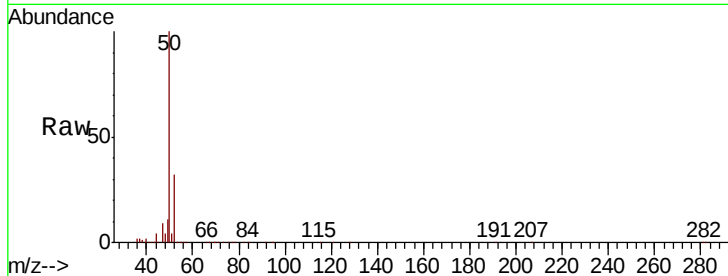
52 32.2 26.2 39.4

Manual Integrations

APPROVED

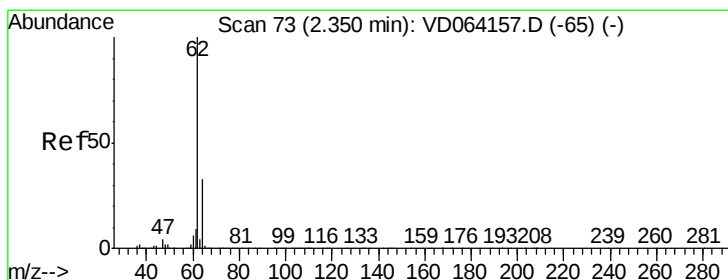
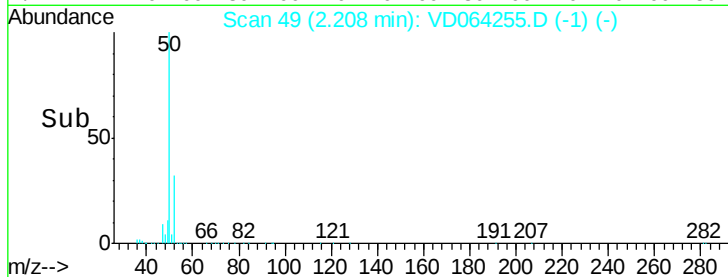
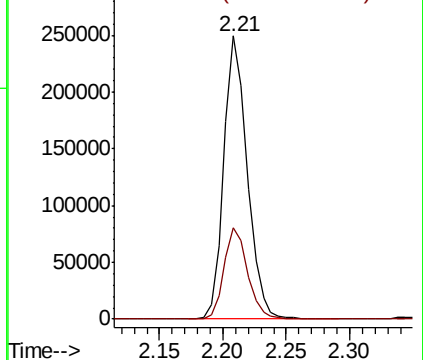
MMDadoda

11/20/2019 1:11:41 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 57.717 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD064255.D

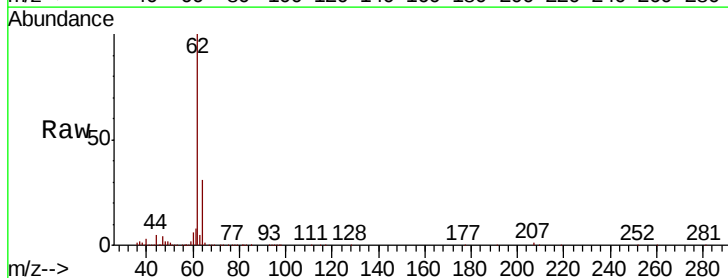
Acq: 18 Nov 2019 10:29

Tgt Ion: 62 Resp: 375286

Ion Ratio Lower Upper

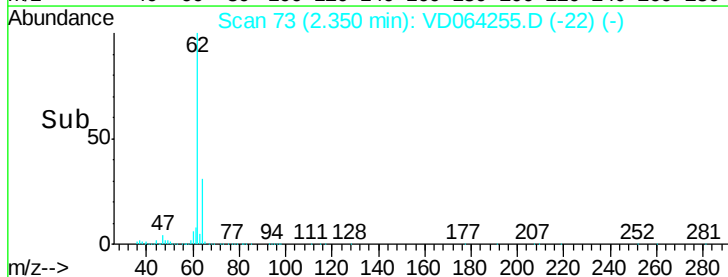
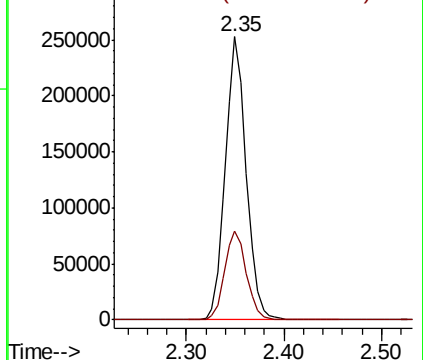
62 100

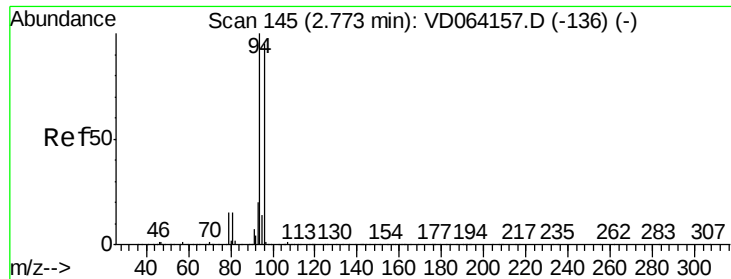
64 31.3 26.2 39.2



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 57.853 ug/l

RT: 2.77 min Scan# 144

Delta R.T. -0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 237535

Ion Ratio Lower Upper

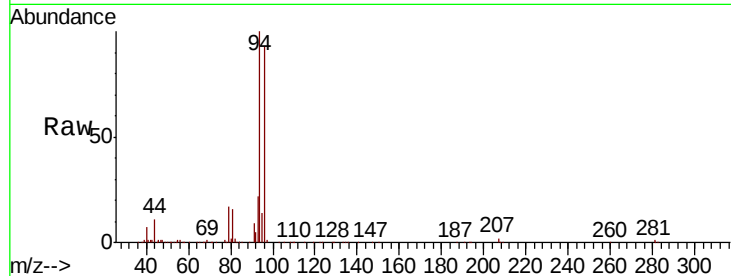
94 100

96 93.0 76.2 114.4

Manual Integrations
APPROVED

MMDadoda

11/20/2019 1:11:41 PM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.77

120000

100000

80000

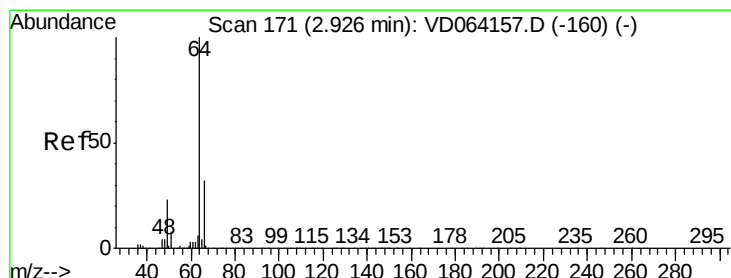
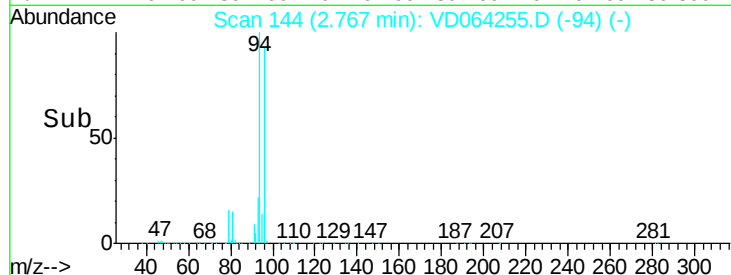
60000

40000

20000

0

Time--> 2.65 2.70 2.75 2.80 2.85



#6

Chloroethane

Concen: 58.539 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD064255.D

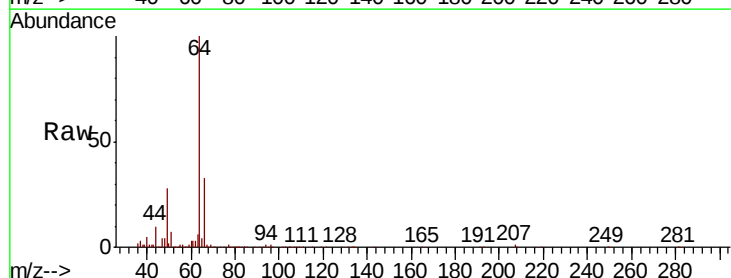
Acq: 18 Nov 2019 10:29

Tgt Ion: 64 Resp: 243215

Ion Ratio Lower Upper

64 100

66 33.2 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

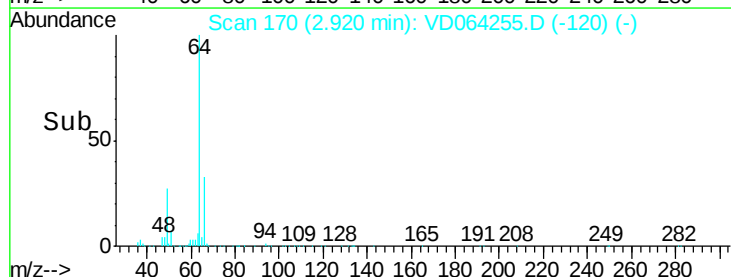
2.92

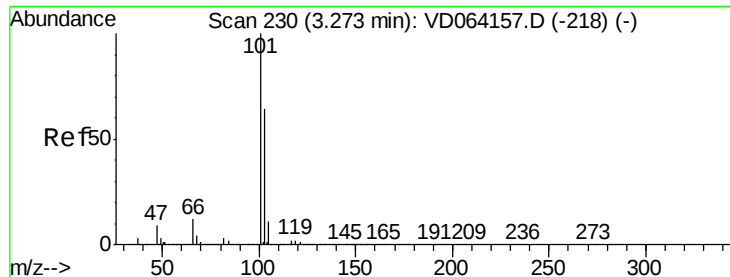
100000

50000

0

Time--> 2.80 2.90 3.00





#7

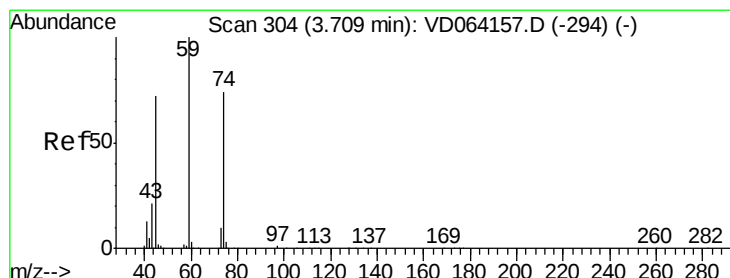
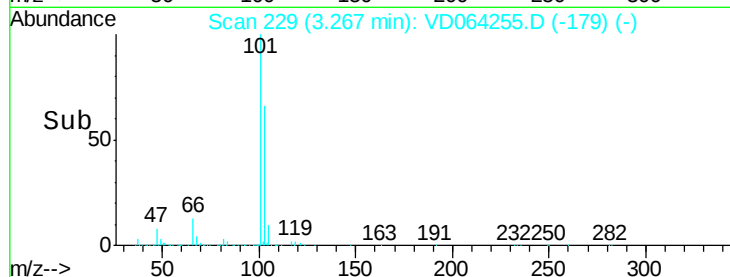
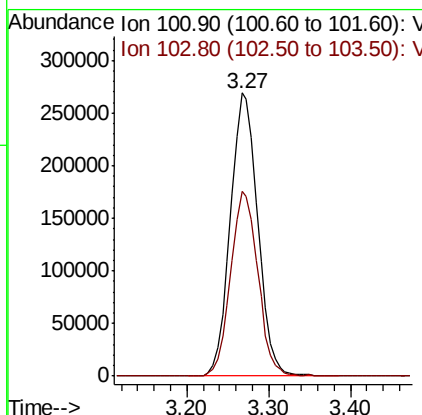
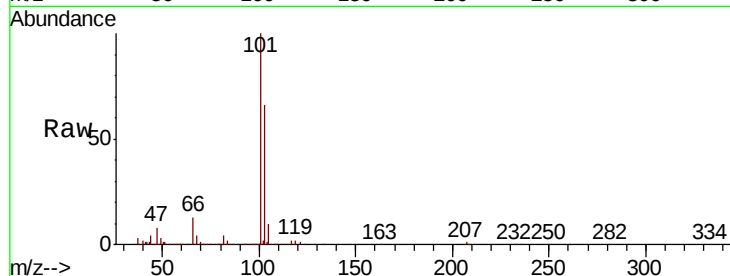
Trichlorofluoromethane
Concen: 59.606 ug/l
RT: 3.27 min Scan# 229
Delta R.T. -0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.5	50.8	76.2

Manual Integrations
APPROVED

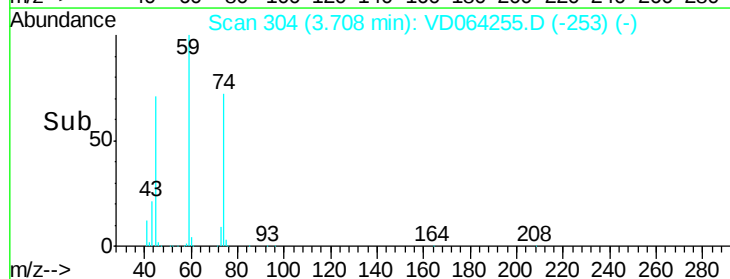
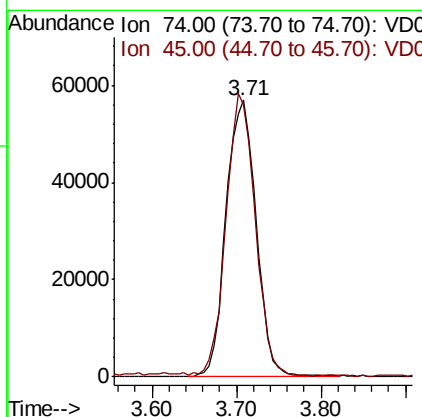
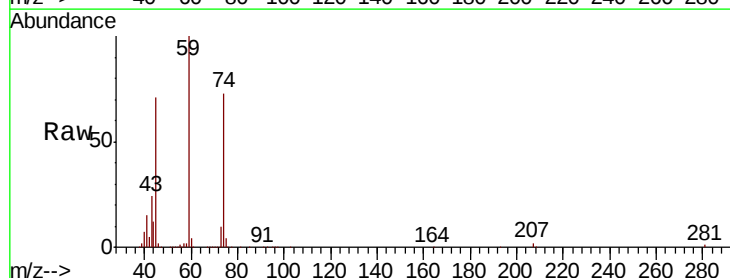
MMDadoda
11/20/2019 1:11:41 PM



#8

Diethyl Ether
Concen: 48.491 ug/l
RT: 3.71 min Scan# 304
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.2	47.9	143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.947 ug/l

RT: 4.08 min Scan# 368

Delta R.T. -0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

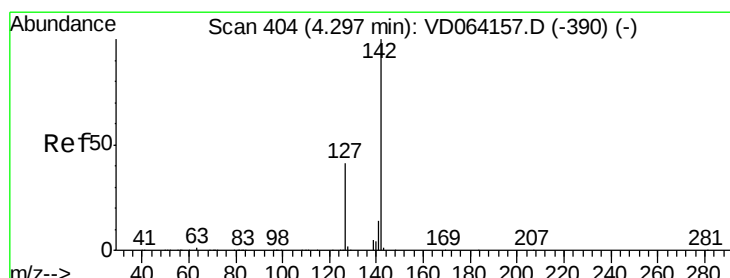
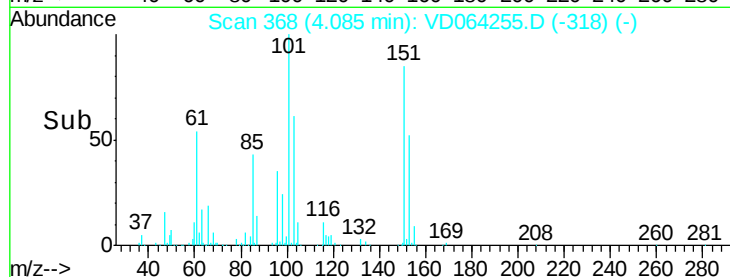
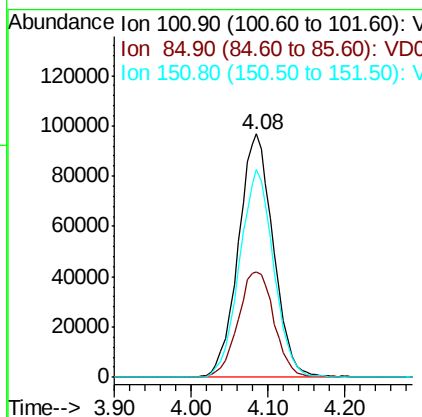
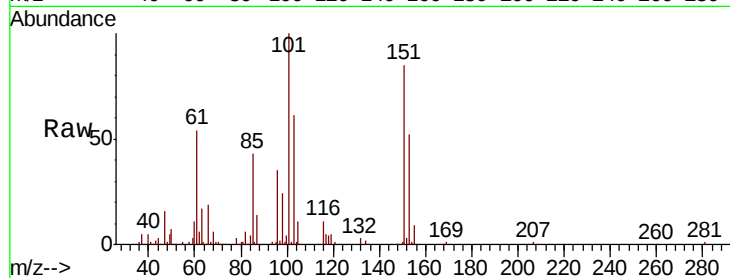
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	306974
Ion Ratio	Lower	Upper	
101	100		
85	45.0	34.4	51.6
151	83.5	68.1	102.1

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM



#10

Methyl Iodide

Concen: 48.133 ug/l

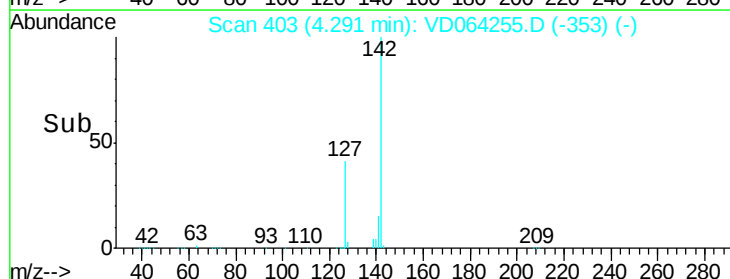
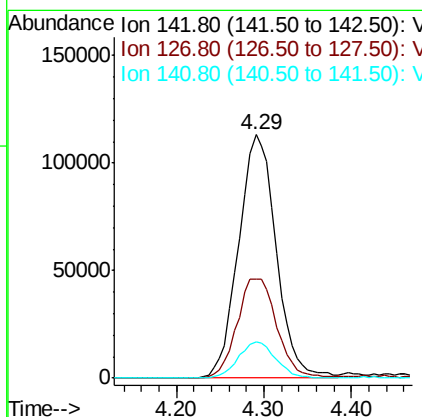
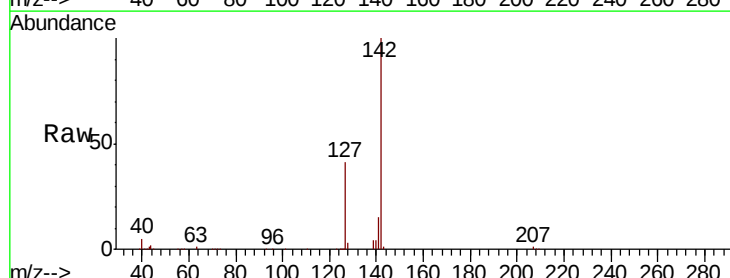
RT: 4.29 min Scan# 403

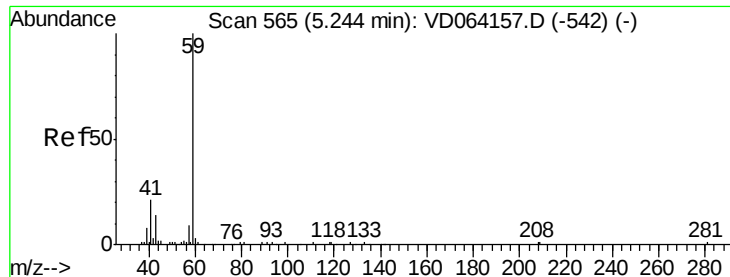
Delta R.T. -0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Tgt Ion:	142	Resp:	330517
Ion Ratio	Lower	Upper	
142	100		
127	43.2	34.4	51.6
141	14.9	11.2	16.8





#11

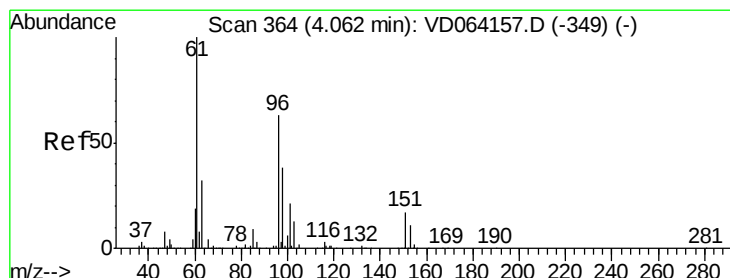
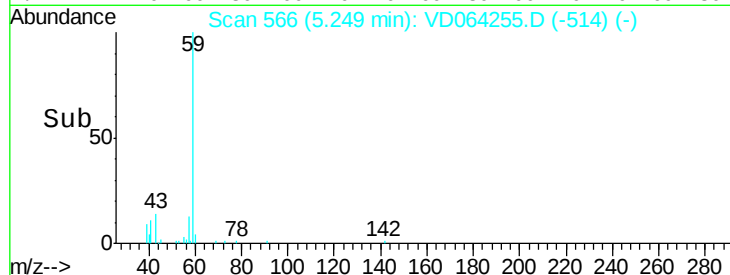
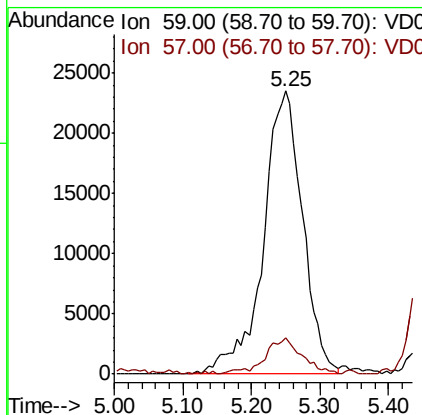
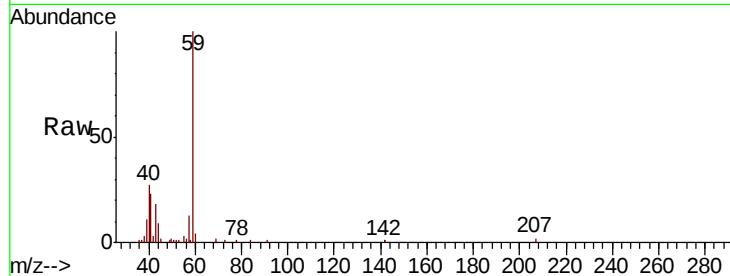
Tert butyl alcohol
 Concen: 238.800 ug/l
 RT: 5.25 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
59	59	100		
57	57	12.0	9.4	14.2

Manual Integrations
 APPROVED

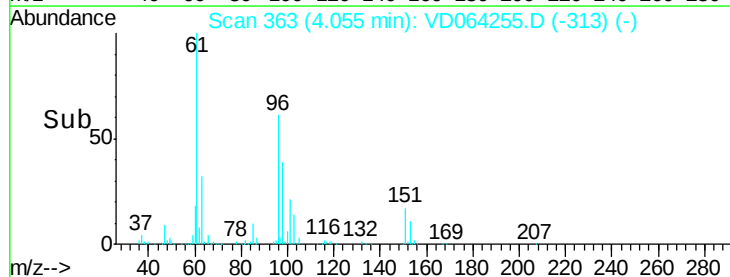
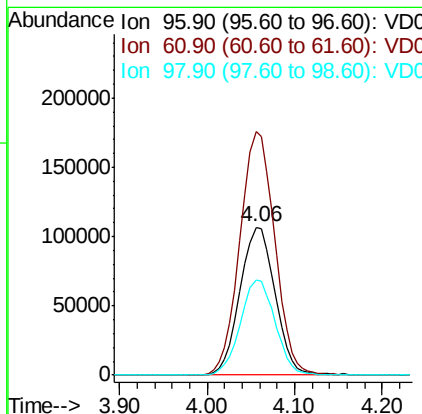
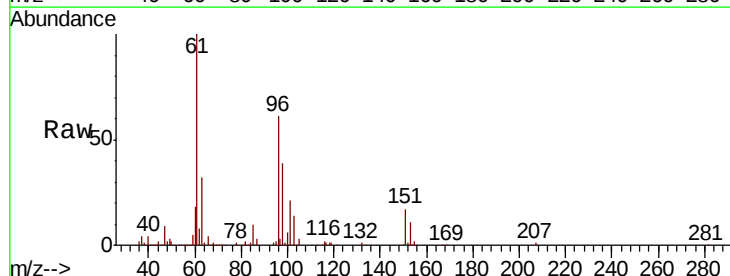
MMDadoda
 11/20/2019 1:11:41 PM

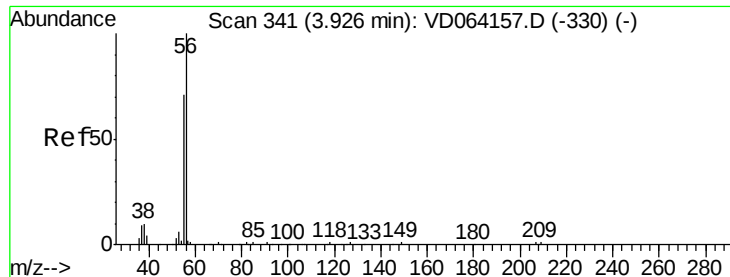


#12

1,1-Dichloroethene
 Concen: 50.774 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Tgt Ion	Ion	Ratio	Lower	Upper
96	96	100		
61	61	164.3	127.4	191.2
98	98	64.4	48.1	72.1





#13

Acrolein

Concen: 294.550 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 97835

Ion Ratio Lower Upper

56 100

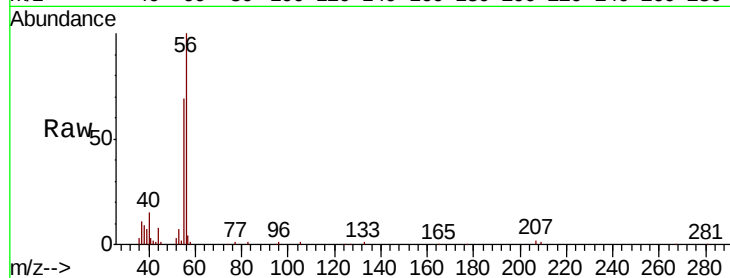
55 70.8 56.1 84.1

Manual Integrations

APPROVED

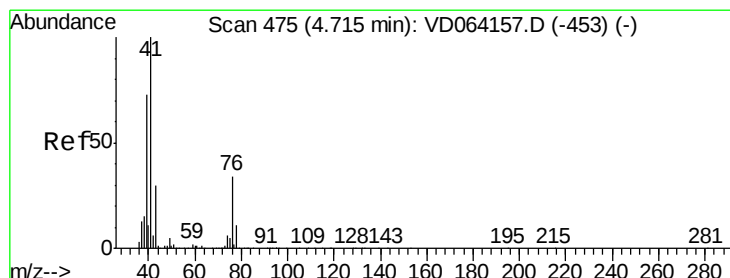
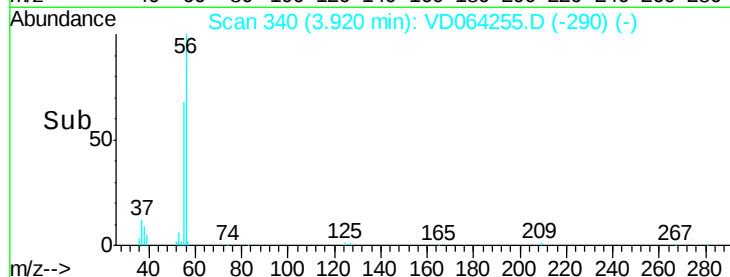
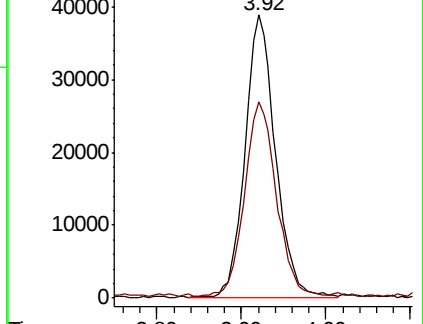
MMDadoda

11/20/2019 1:11:41 PM



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 48.532 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

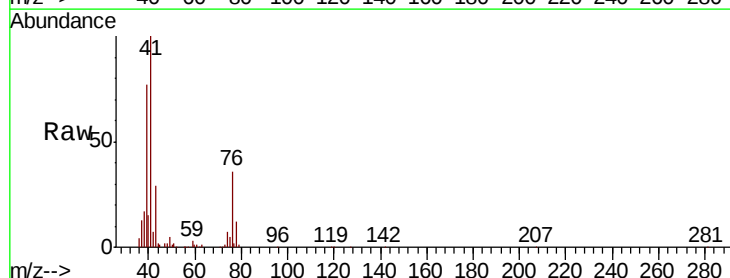
Tgt Ion: 41 Resp: 492821

Ion Ratio Lower Upper

41 100

39 75.8 57.5 86.3

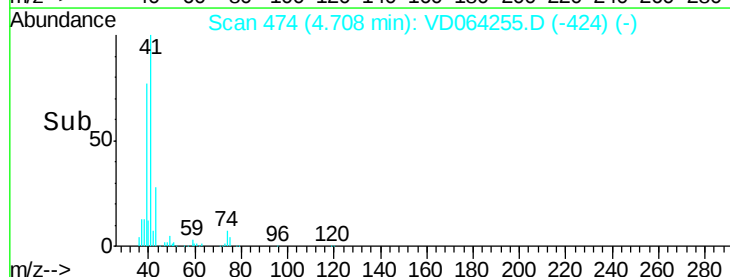
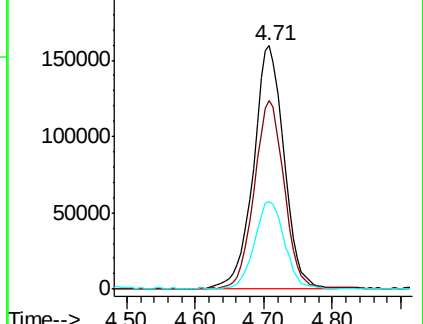
76 35.9 26.8 40.2



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: 241.103 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

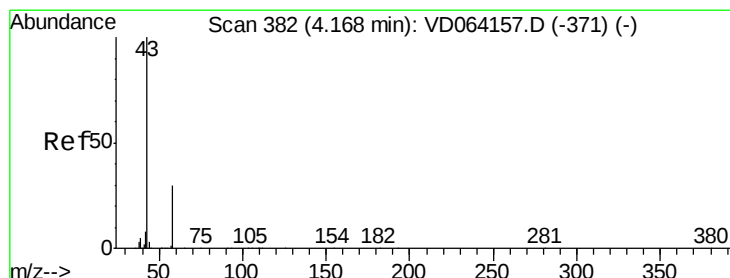
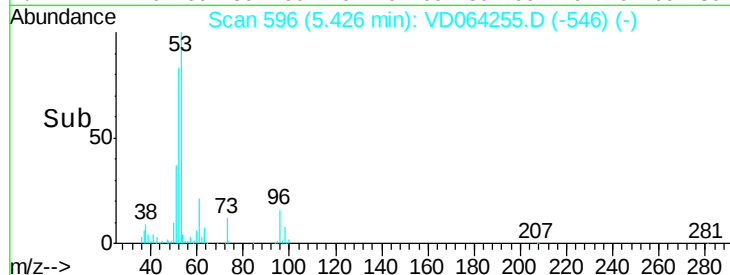
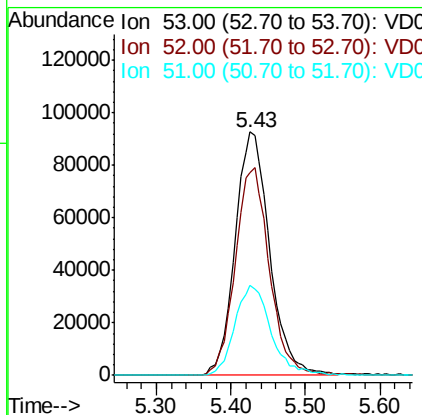
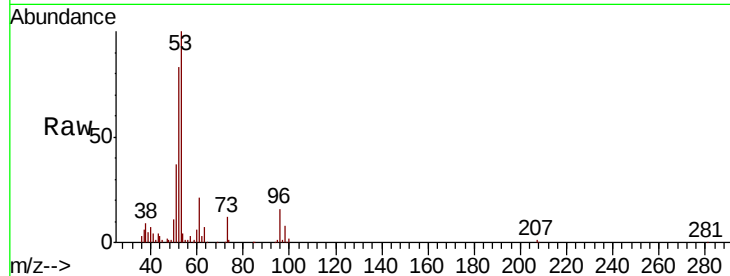
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	297936
Ion Ratio	Lower	Upper	
53	100		
52	83.8	66.7	100.1
51	38.9	30.6	46.0

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM



#16

Acetone

Concen: 234.058 ug/l

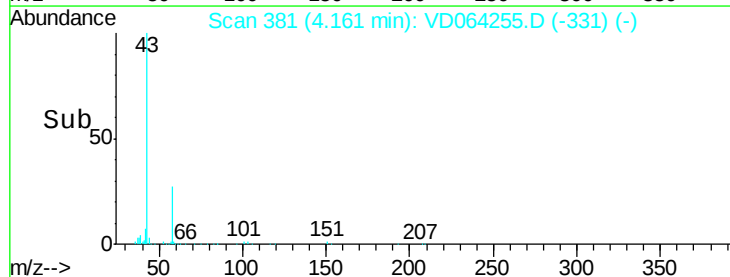
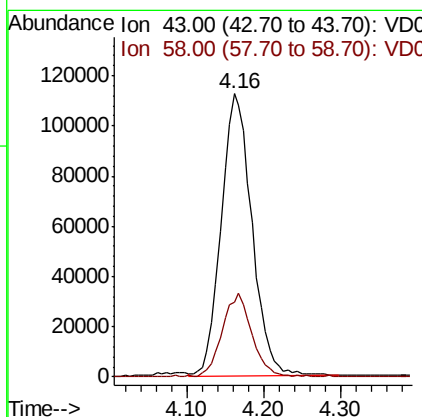
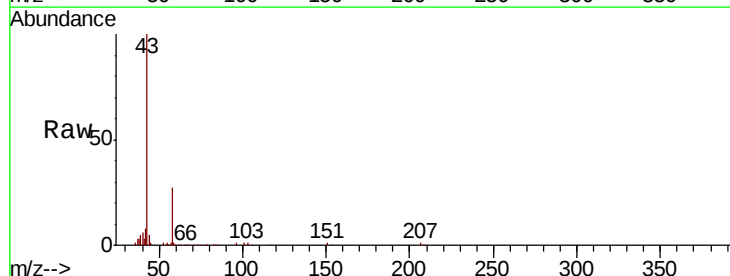
RT: 4.16 min Scan# 381

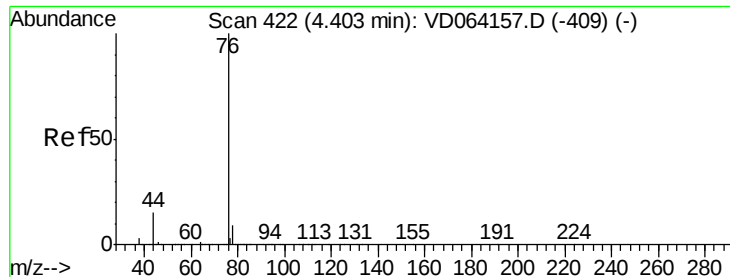
Delta R.T. -0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Tgt Ion:	43	Resp:	311694
Ion Ratio	Lower	Upper	
43	100		
58	26.4	24.1	36.1





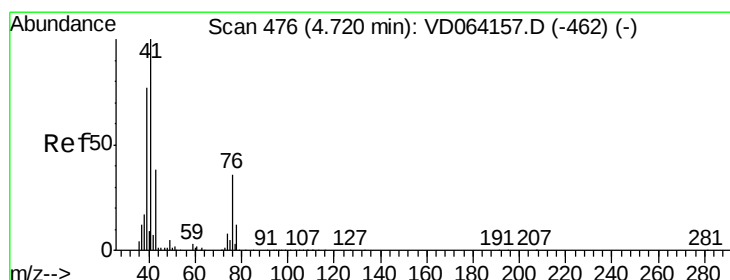
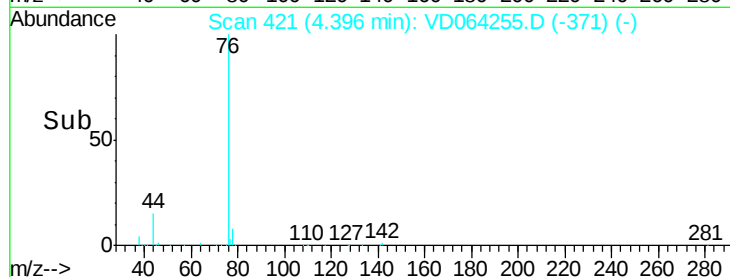
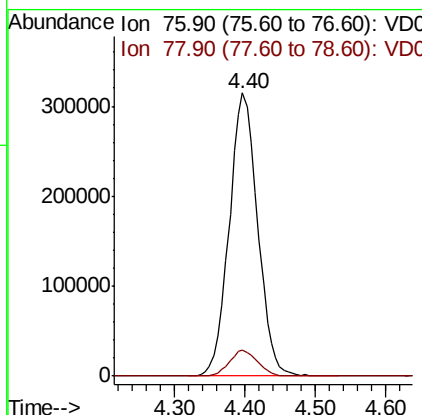
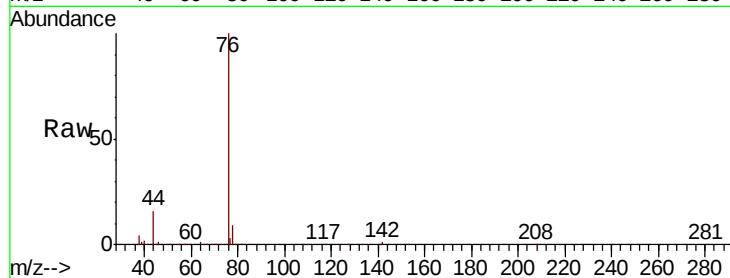
#17
Carbon Disulfide
Concen: 49.328 ug/l
RT: 4.40 min Scan# 421
Delta R.T. -0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

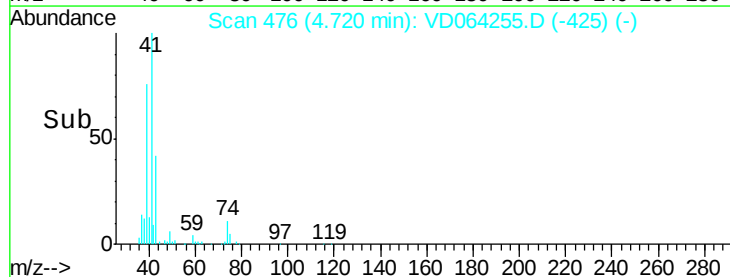
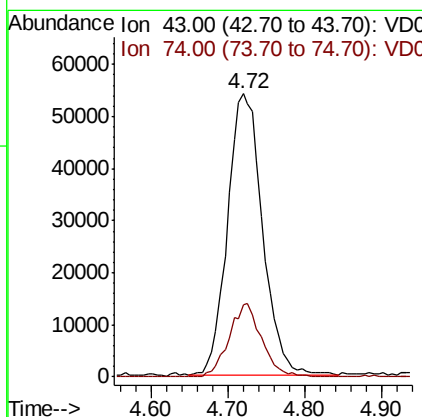
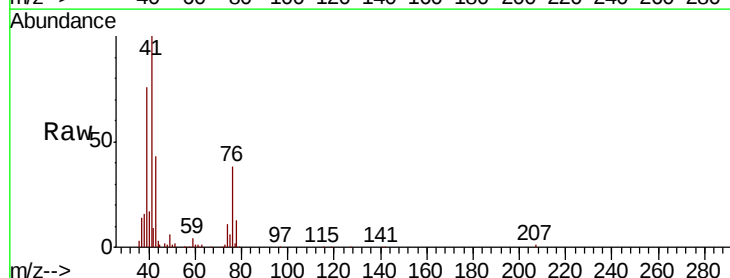
Manual Integrations
APPROVED

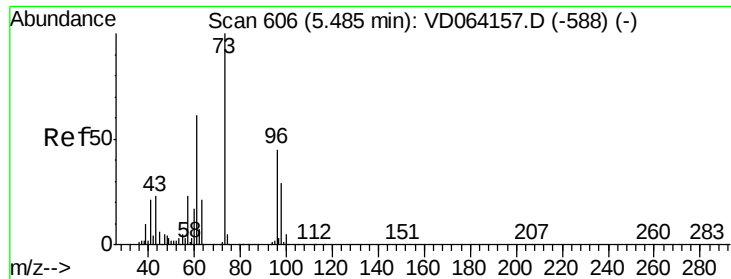
MMDadoda
11/20/2019 1:11:41 PM



#18
Methyl Acetate
Concen: 46.465 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.0	18.4	27.6





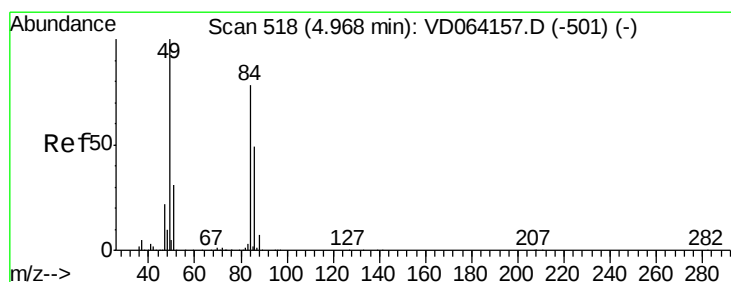
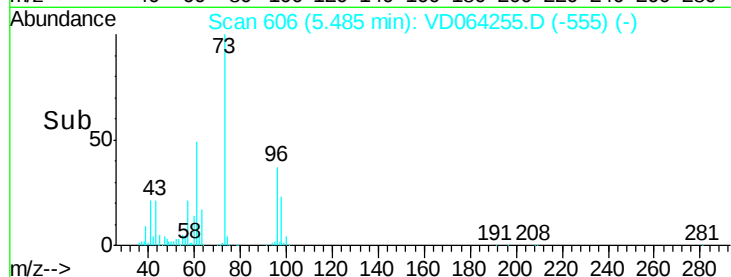
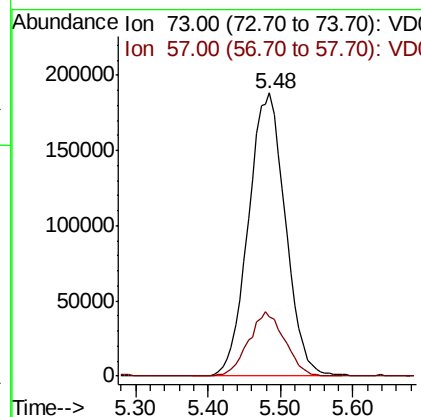
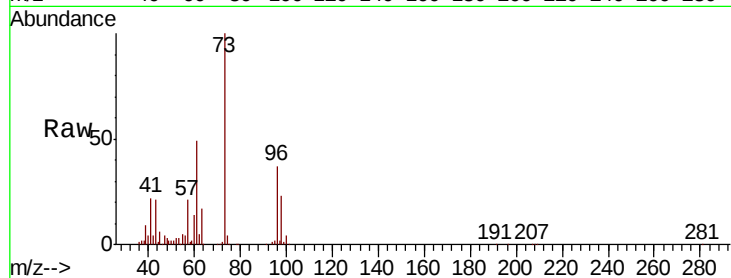
#19
Methvl tert-butvl Ether
Concen: 48.626 ug/l
RT: 5.48 min Scan# 606
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 666689
Ion Ratio Lower Upper
73 100
57 21.2 18.4 27.6

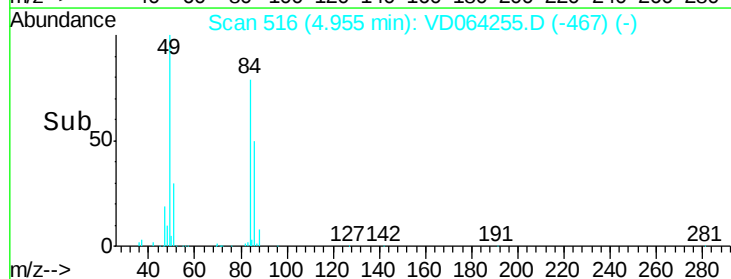
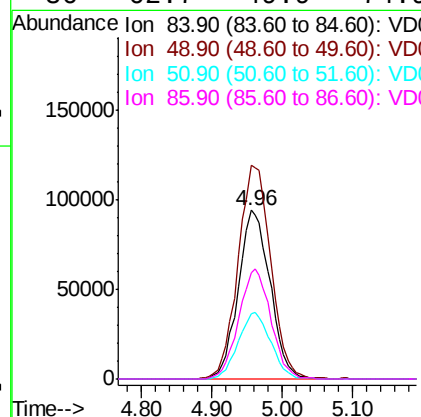
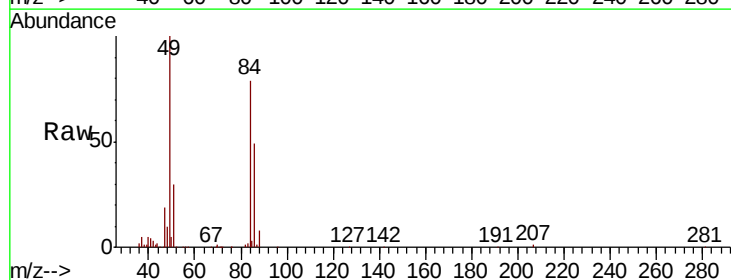
Manual Integrations
APPROVED

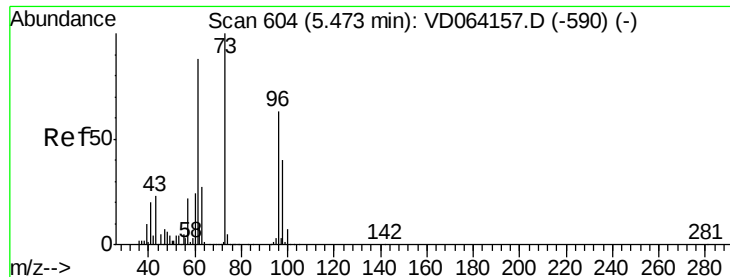
MMDadoda
11/20/2019 1:11:41 PM



#20
Methylene Chloride
Concen: 43.963 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion: 84 Resp: 295730
Ion Ratio Lower Upper
84 100
49 126.7 102.1 153.1
51 38.5 32.2 48.2
86 62.7 49.9 74.9





#21

trans-1,2-Dichloroethene

Concen: 49.701 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

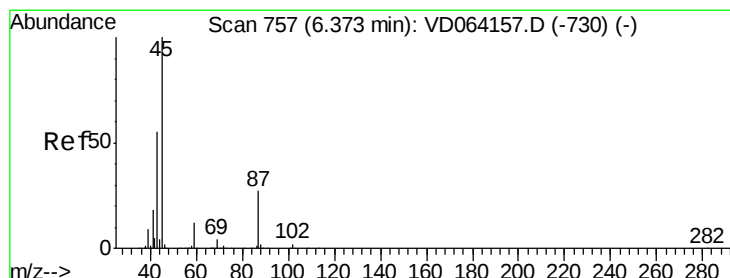
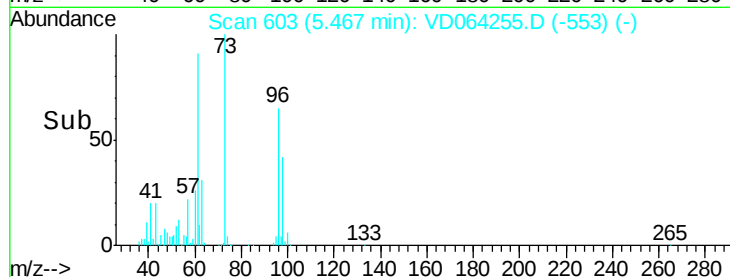
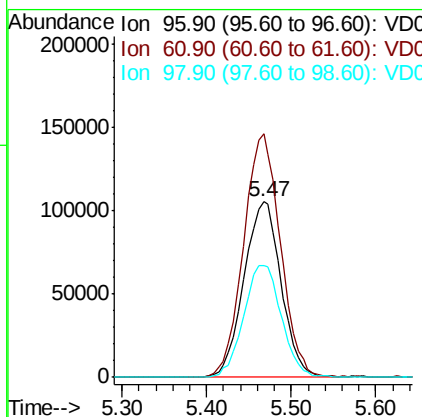
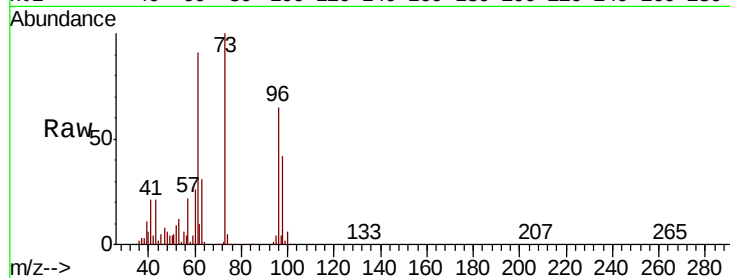
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	323399
Ion	Ratio	Lower	Upper
96	100		
61	138.8	111.8	167.6
98	63.8	50.3	75.5

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM



#22

Diisopropyl ether

Concen: 49.480 ug/l

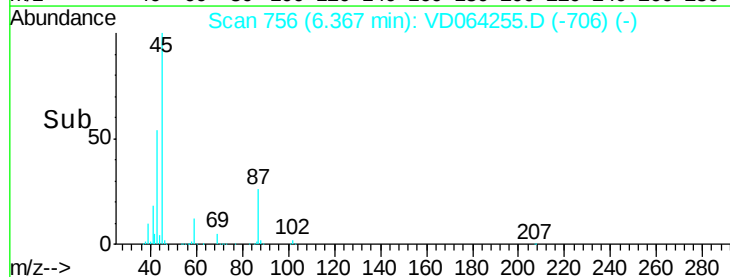
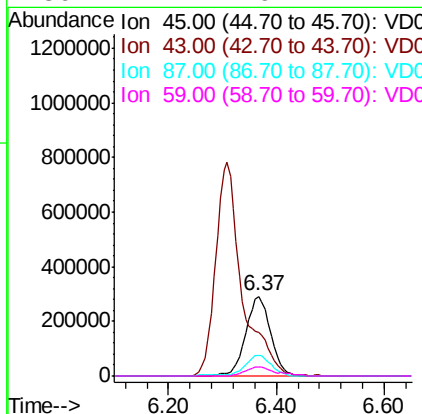
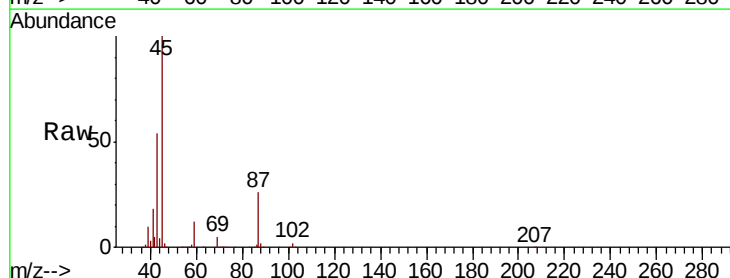
RT: 6.37 min Scan# 756

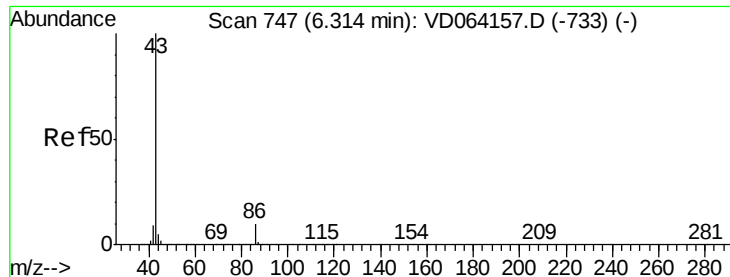
Delta R.T. -0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Tgt Ion:	45	Resp:	932249
Ion	Ratio	Lower	Upper
45	100		
43	54.2	44.4	66.6
87	26.1	21.9	32.9
59	11.7	9.4	14.2





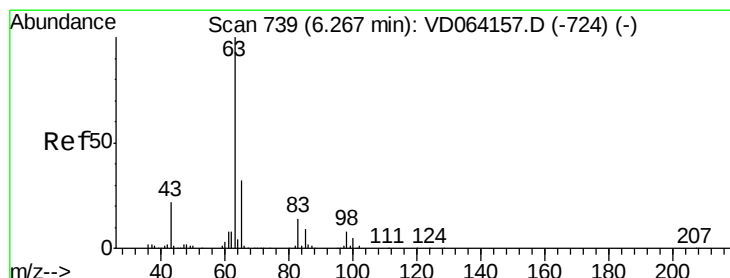
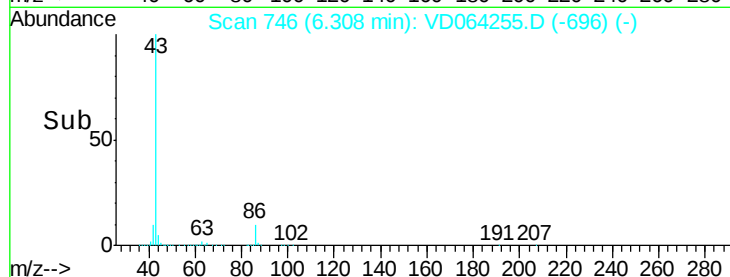
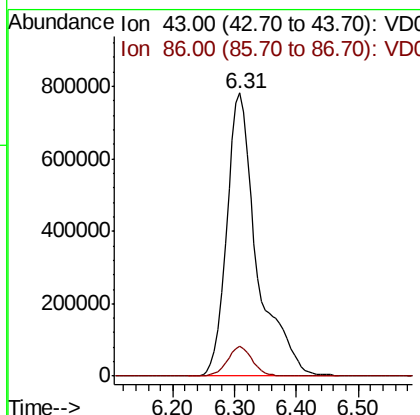
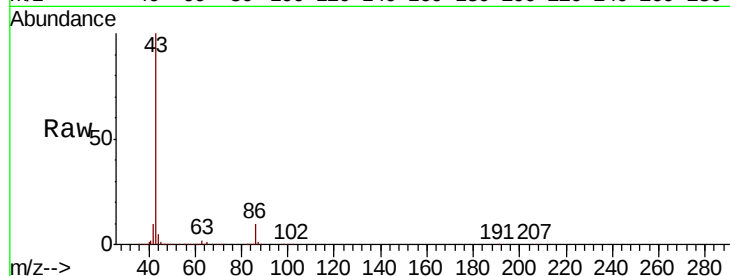
#23
 Vinyl Acetate
 Concen: 253.429 ug/l
 RT: 6.31 min Scan# 746
 Delta R.T. -0.01 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 2661621
 Ion Ratio Lower Upper
 43 100
 86 10.4 8.2 12.2

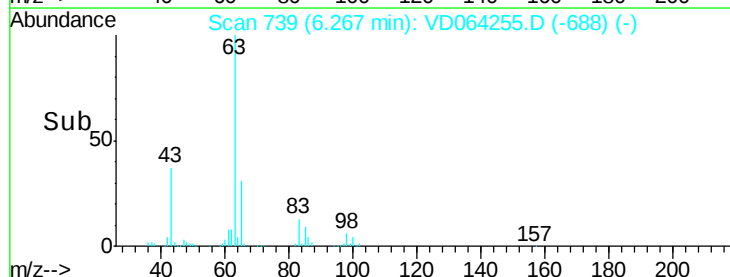
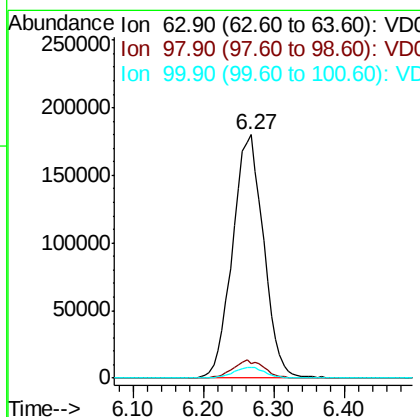
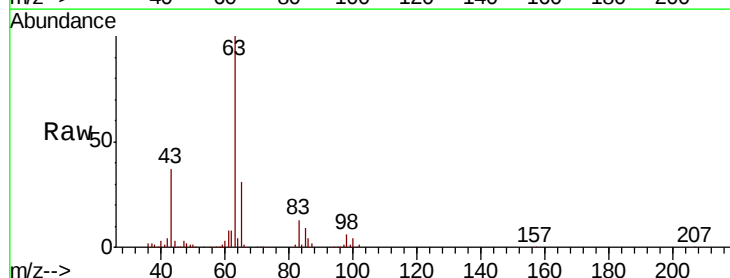
Manual Integrations
 APPROVED

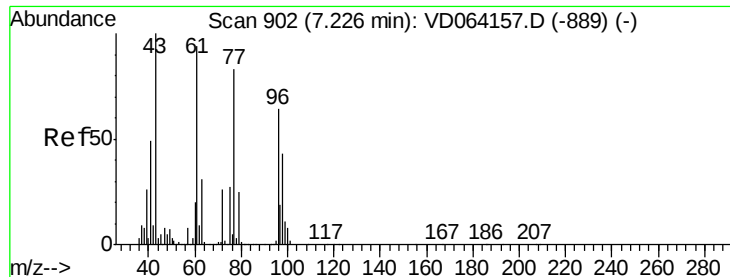
MMDadoda
 11/20/2019 1:11:41 PM



#24
 1,1-Dichloroethane
 Concen: 50.474 ug/l
 RT: 6.27 min Scan# 739
 Delta R.T. -0.00 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Tgt Ion: 63 Resp: 552170
 Ion Ratio Lower Upper
 63 100
 98 6.1 3.8 11.4
 100 4.5 2.4 7.2





#25

2-Butanone

Concen: 238.817 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 410879

Ion Ratio Lower Upper

43 100

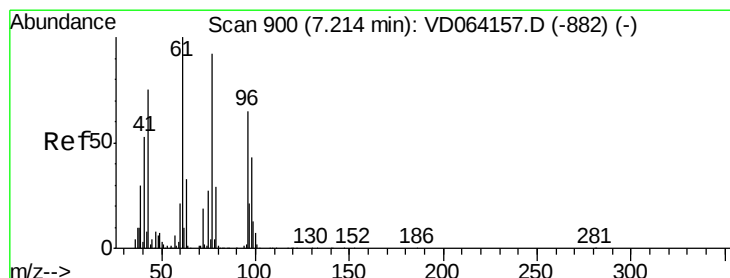
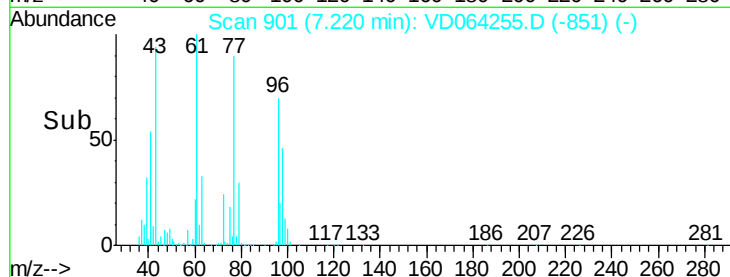
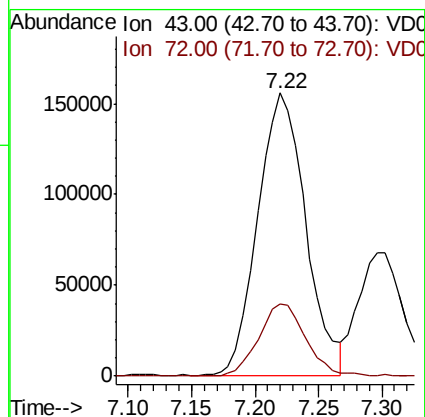
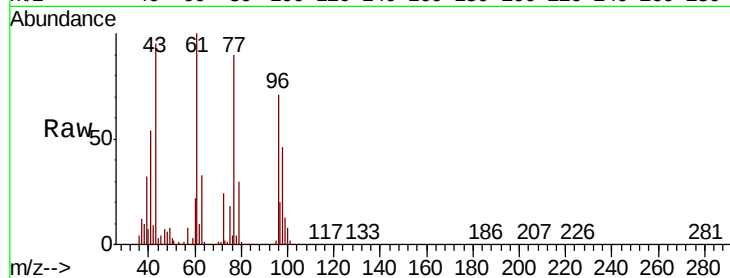
72 25.8 20.6 30.8

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:11:41 PM



#26

2,2-Dichloropropane

Concen: 49.031 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD064255.D

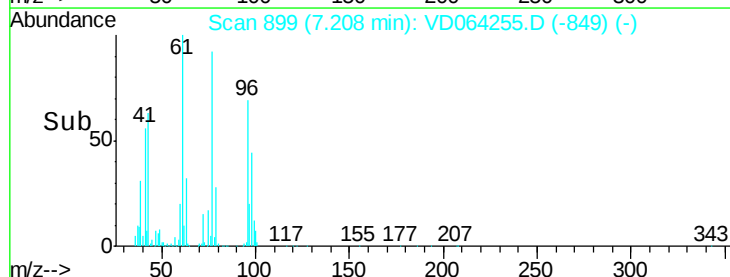
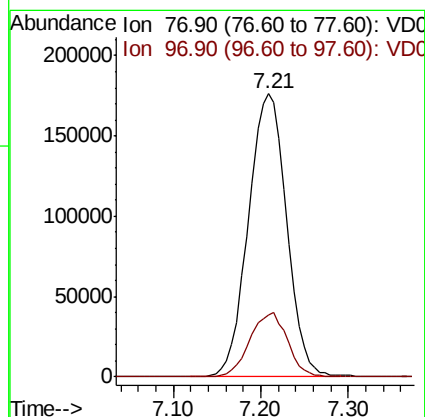
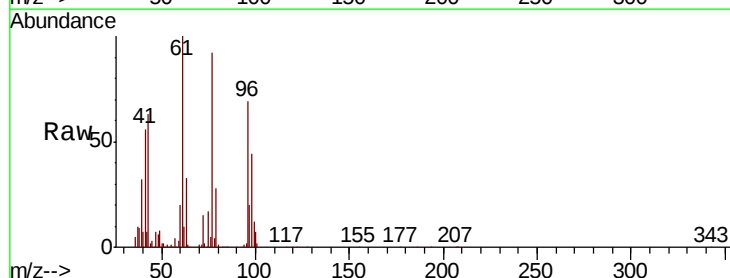
Acq: 18 Nov 2019 10:29

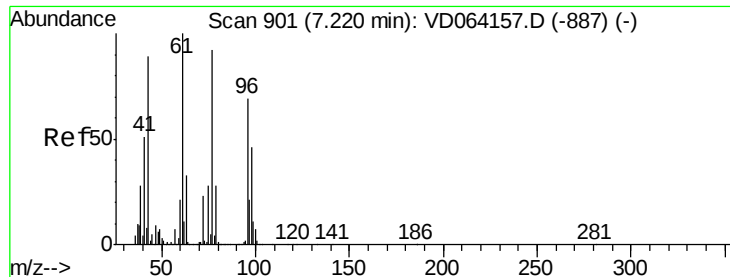
Tgt Ion: 77 Resp: 526022

Ion Ratio Lower Upper

77 100

97 22.3 11.1 33.3





#27

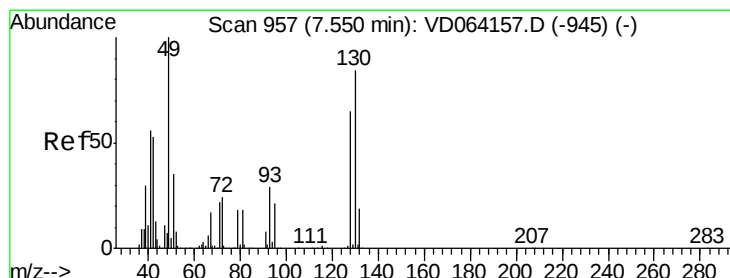
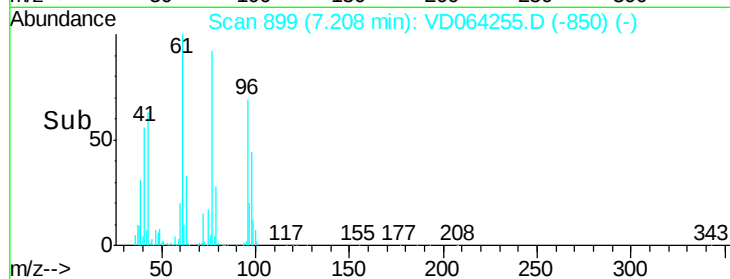
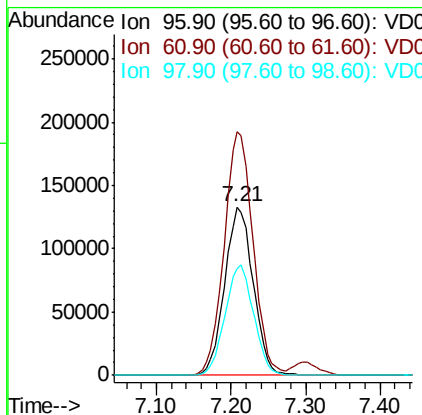
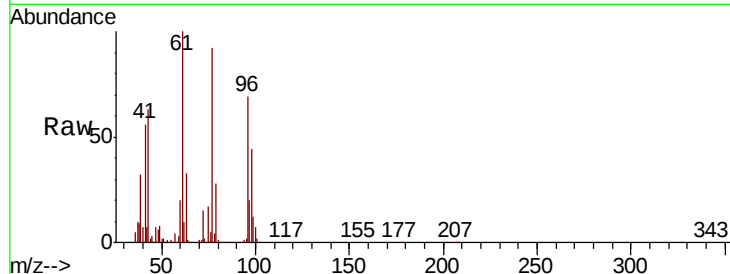
cis-1,2-Dichloroethene
 Concen: 50.794 ug/l
 RT: 7.21 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	146.0	0.0	301.4	
98	65.4	0.0	133.2	

Manual Integrations
 APPROVED

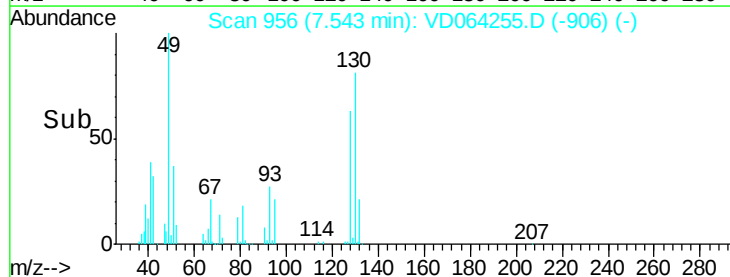
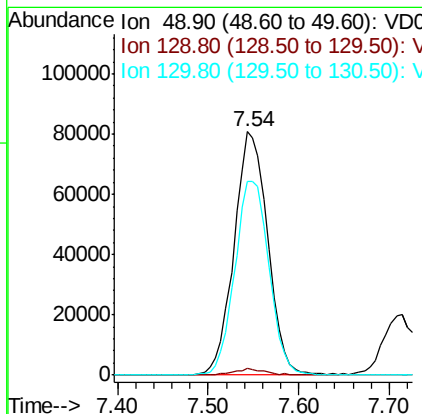
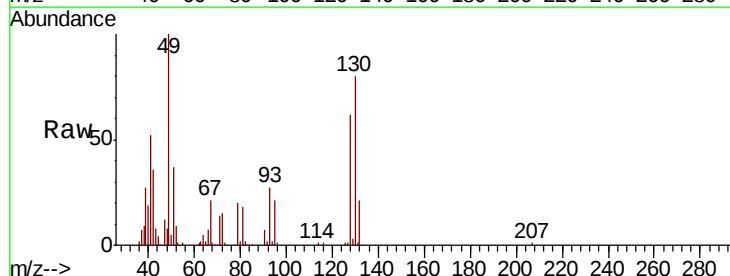
MMDadoda
 11/20/2019 1:11:41 PM

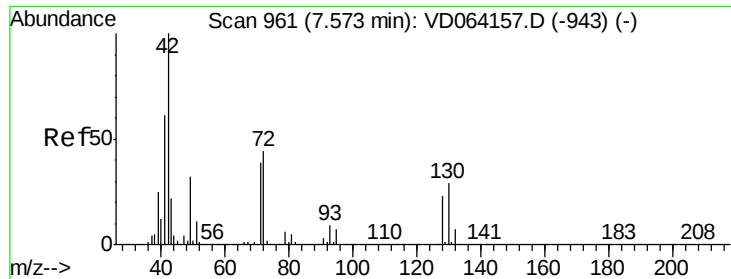


#28

Bromochloromethane
 Concen: 54.707 ug/l
 RT: 7.54 min Scan# 956
 Delta R.T. -0.01 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.3	0.0	4.4	
130	81.2	66.8	100.2	





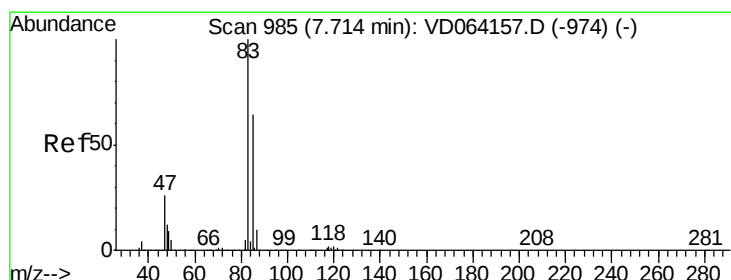
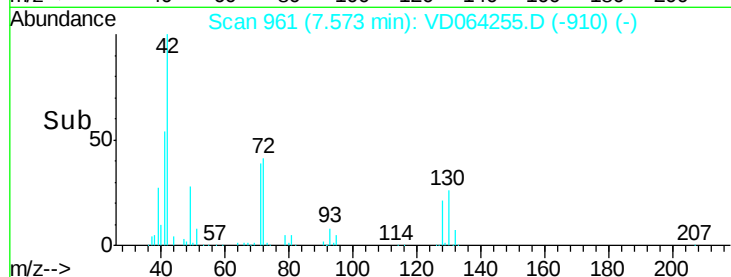
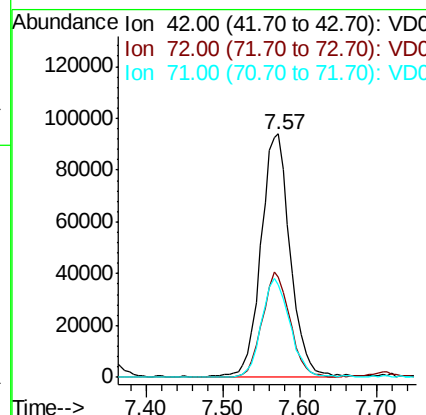
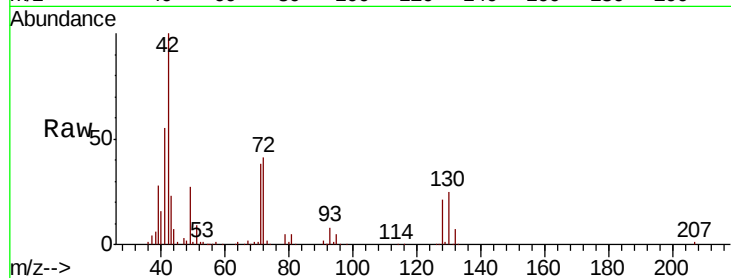
#29
Tetrahydrofuran
Concen: 241.868 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.0	33.4	50.2
71	39.6	31.0	46.4

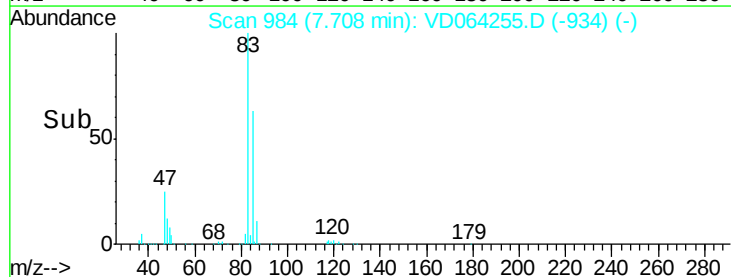
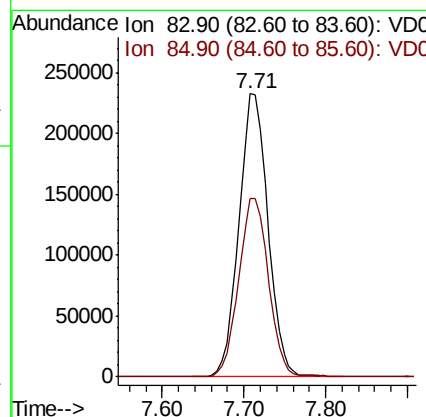
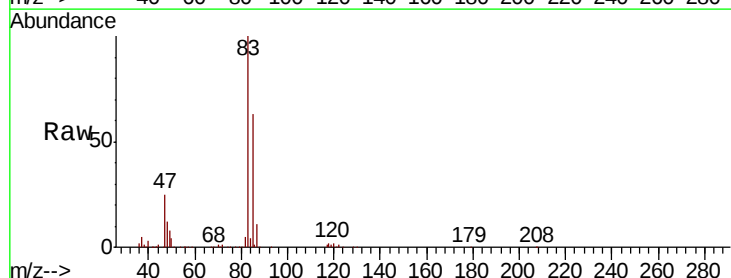
Manual Integrations
APPROVED

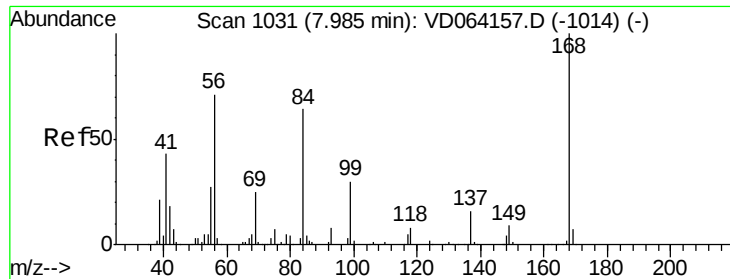
MMDadoda
11/20/2019 1:11:41 PM



#30
Chloroform
Concen: 51.551 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.4	77.0





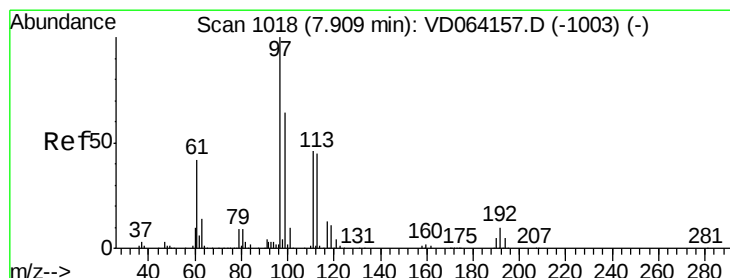
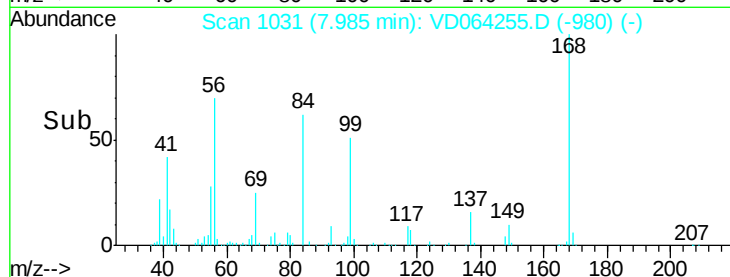
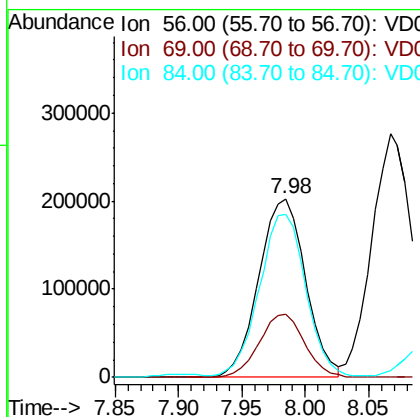
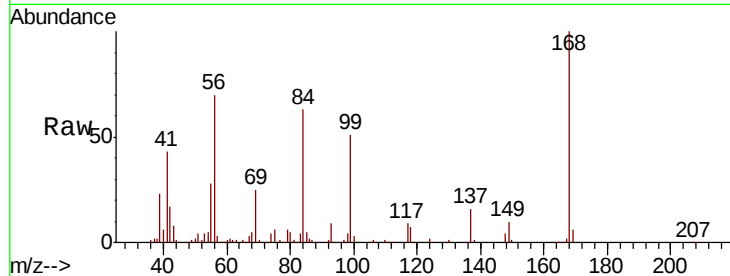
#31
Cyclohexane
Concen: 47.222 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.4	28.2	42.4
84	89.3	71.8	107.6

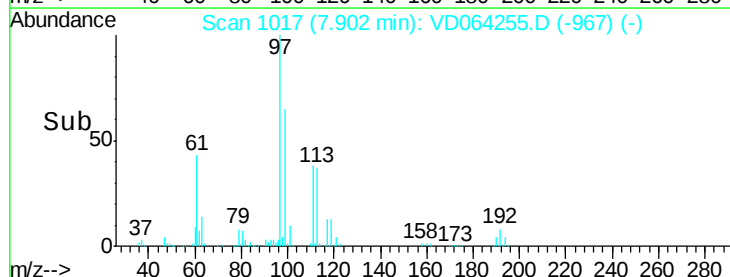
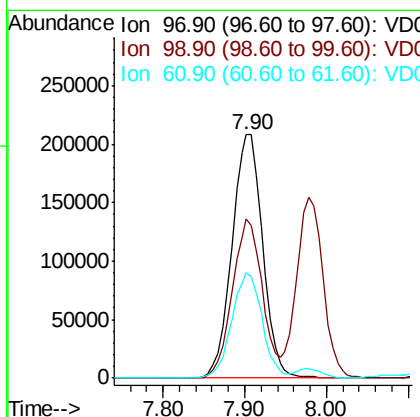
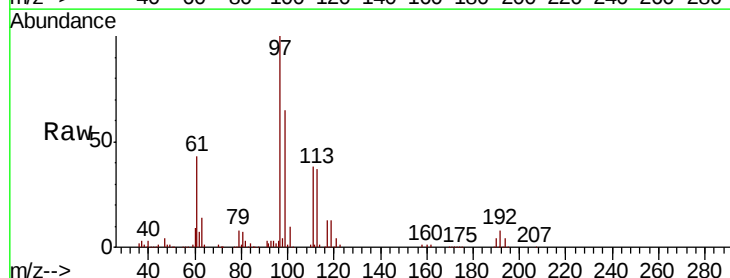
Manual Integrations
APPROVED

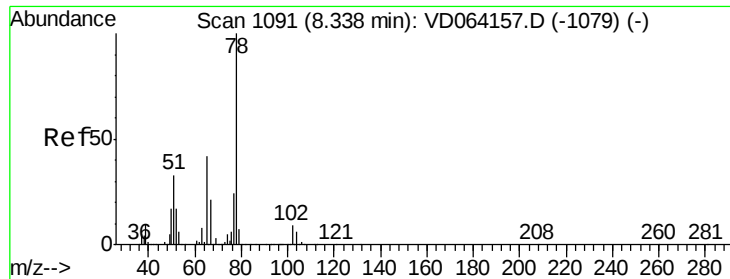
MMDadoda
11/20/2019 1:11:41 PM



#32
1,1,1-Trichloroethane
Concen: 50.657 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.6	77.4
61	42.8	34.2	51.2





#33

1,2-Dichloroethane-d4

Concen: 50.567 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 284252

Ion Ratio Lower Upper

65 100

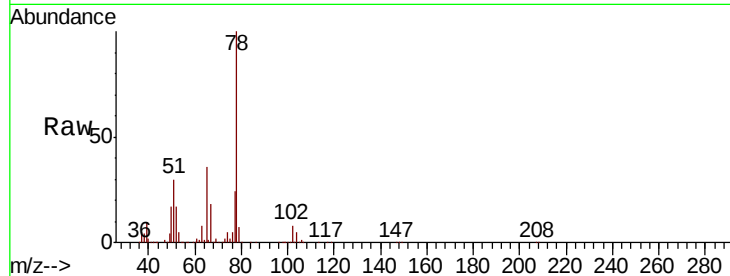
67 51.5 0.0 104.4

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:11:41 PM



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

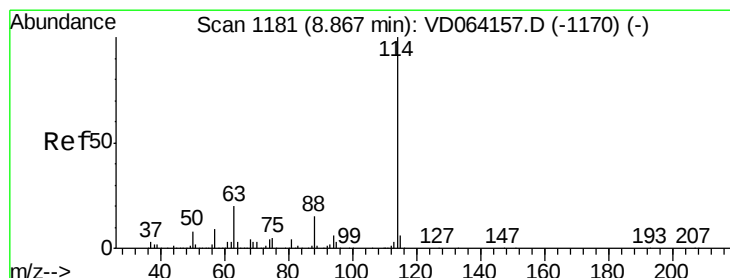
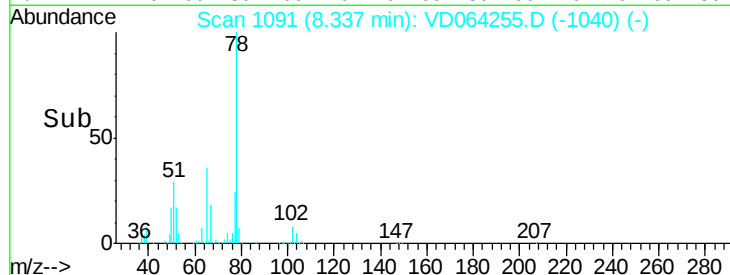
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

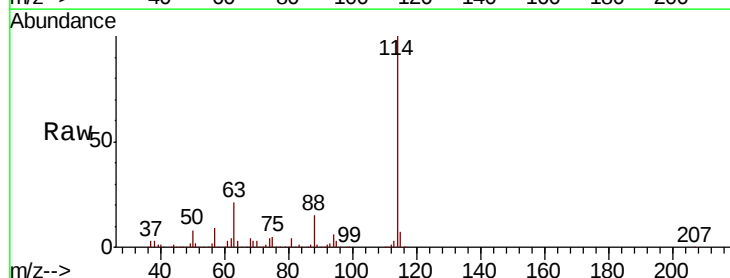
Tgt Ion: 114 Resp: 960664

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.0

88 15.4 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.87

600000

500000

400000

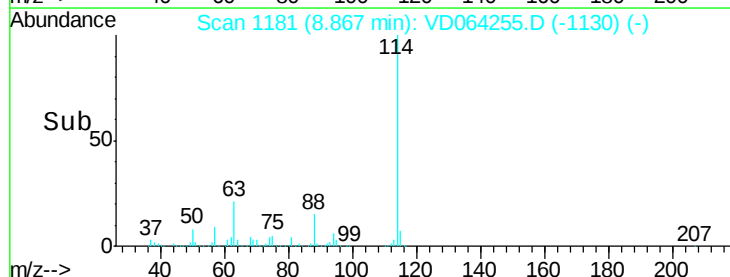
300000

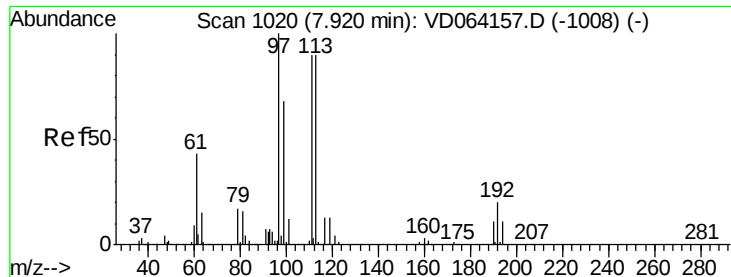
200000

100000

0

Time-->





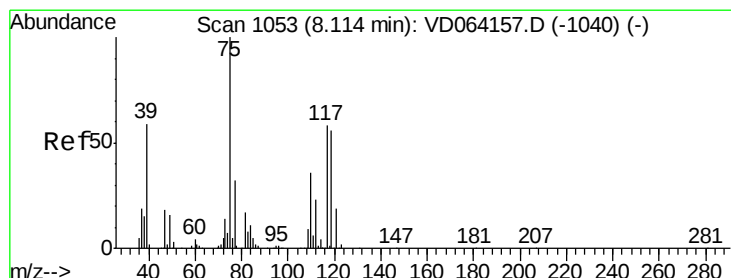
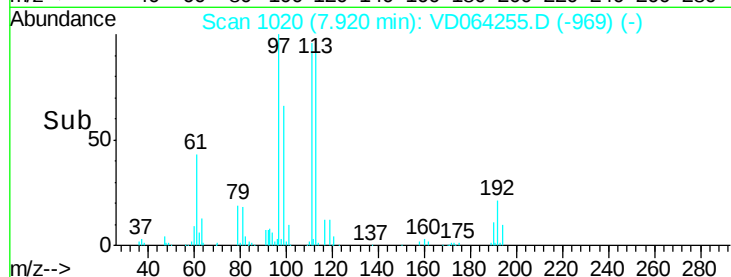
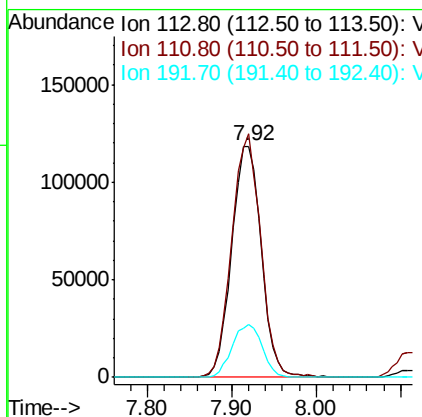
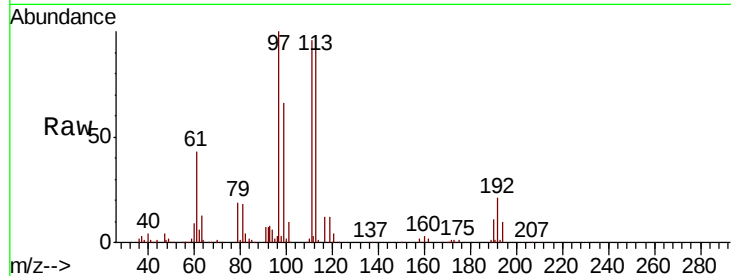
#35
 Dibromofluoromethane
 Concen: 52.004 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	286770		
111	103.5		81.5	122.3
192	23.3		18.8	28.2

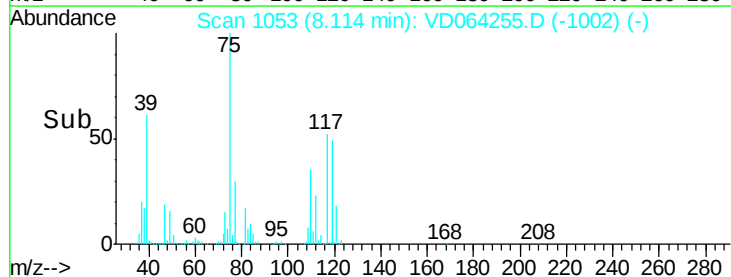
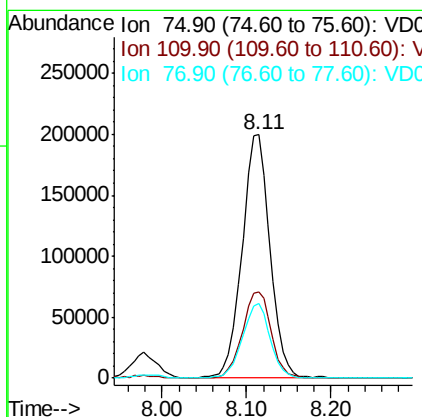
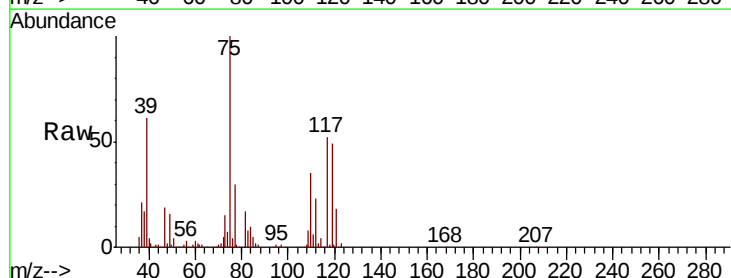
Manual Integrations
 APPROVED

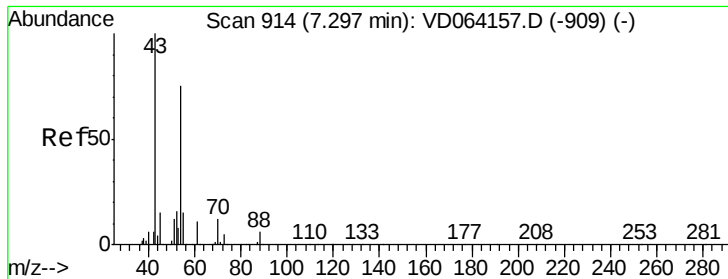
MMDadoda
 11/20/2019 1:11:41 PM



#36
 1,1-Dichloropropene
 Concen: 51.528 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. -0.00 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	456857		
110	36.4		18.3	54.9
77	30.7		25.0	37.6





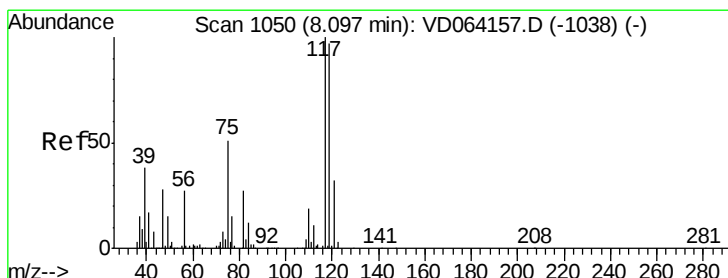
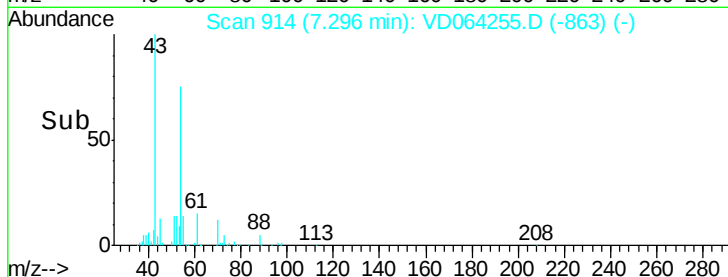
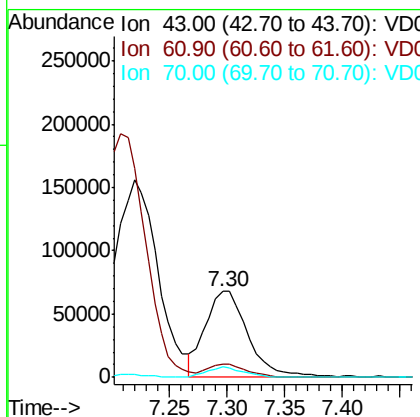
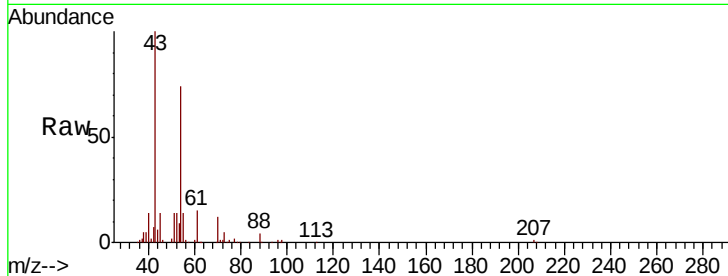
#37
Ethyl Acetate
Concen: 45.947 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.5	10.2	15.2
70	11.1	8.5	12.7

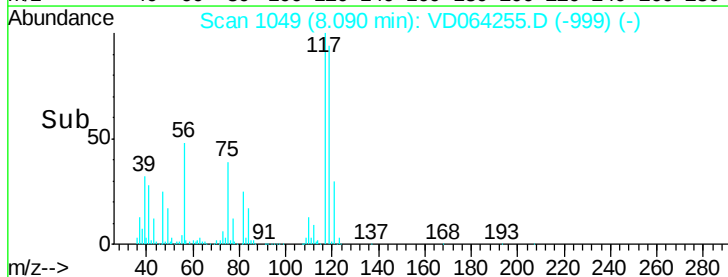
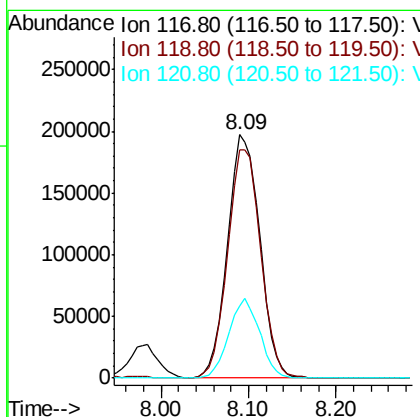
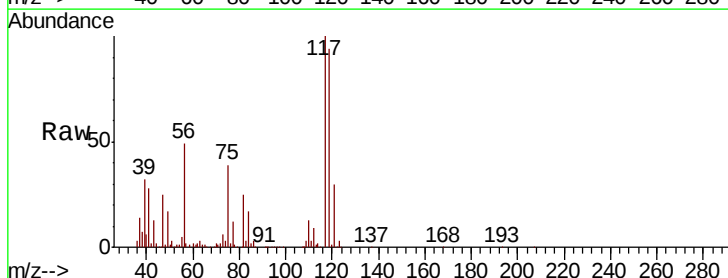
Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM



#38
Carbon Tetrachloride
Concen: 52.153 ug/l
RT: 8.09 min Scan# 1049
Delta R.T. -0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.7	77.2	115.8
121	29.8	25.5	38.3





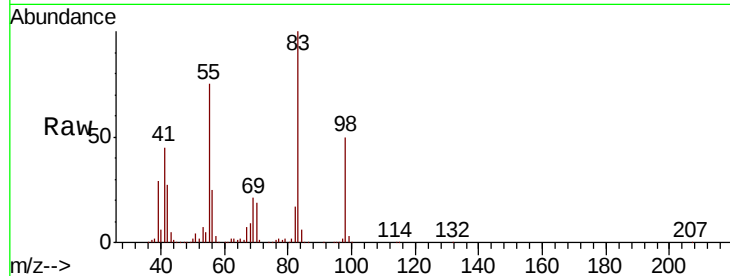
#39
Methvlcvclohexane
Concen: 50.014 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

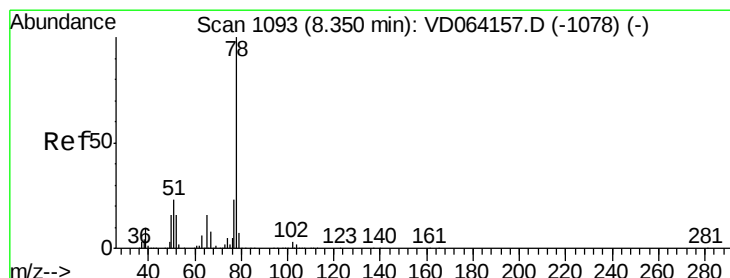
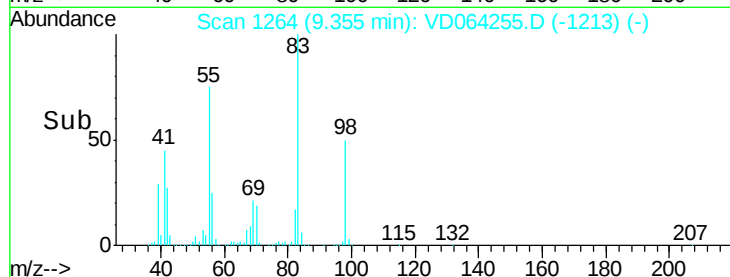
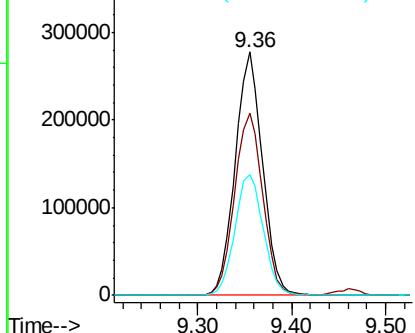
Tot Ion	83.00	Resp	561098
Ion Ratio	Lower	Upper	
83	100		
55	74.9	61.7	92.5
98	49.8	38.6	58.0

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM

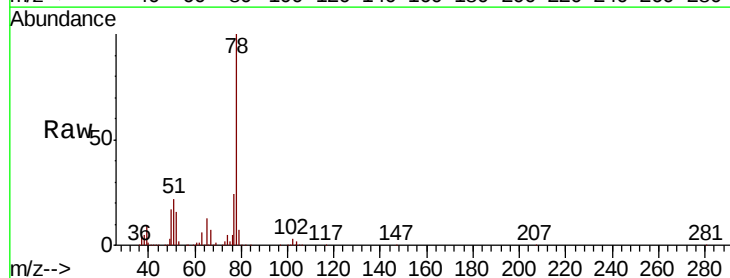


Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC

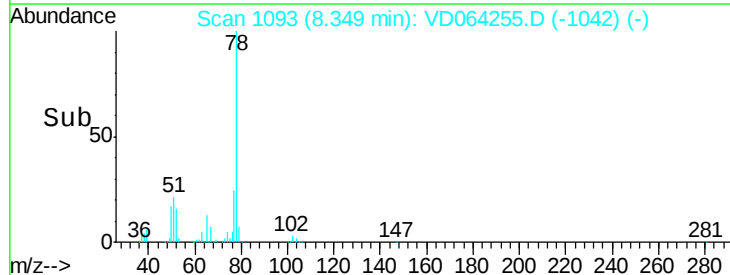
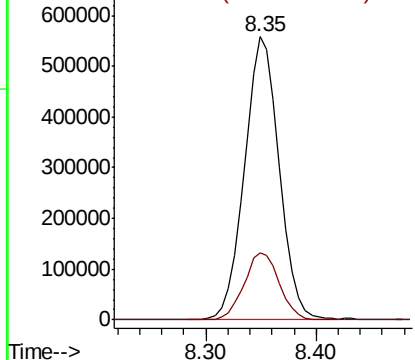


#40
Benzene
Concen: 50.802 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion	78.00	Resp	1230982
Ion Ratio	Lower	Upper	
78	100		
77	23.8	18.6	28.0



Abundance Ion 78.00 (77.70 to 78.70): VDC
Ion 77.00 (76.70 to 77.70): VDC





#41

Methacrylonitrile

Concen: 46.942 ug/l

RT: 7.53 min Scan# 953

Delta R.T. -0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 110278

Ion Ratio Lower Upper

41 100

39 60.8 49.4 74.2

67 68.0 49.6 74.4

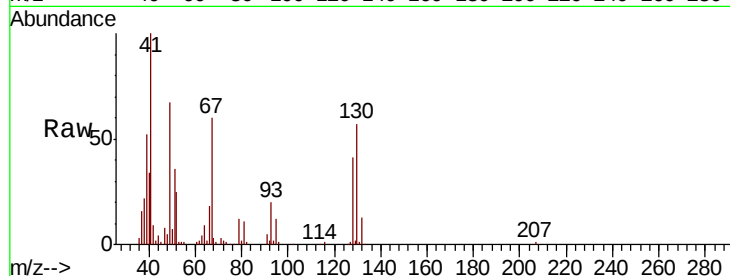
52 27.3 21.4 32.0

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:11:41 PM

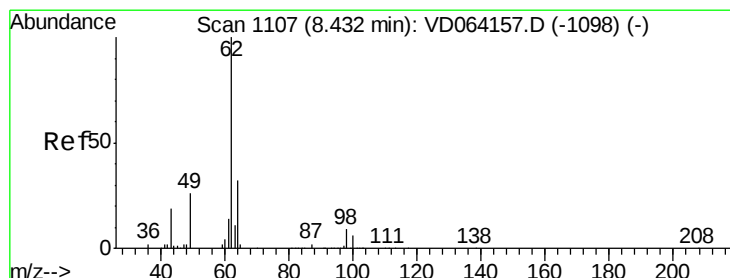
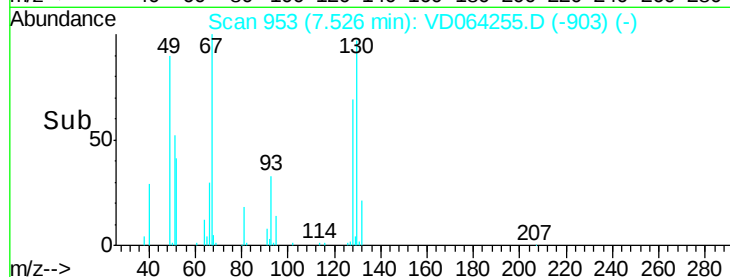
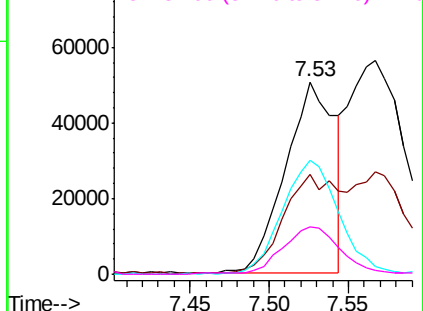


Abundance Ion 41.00 (40.70 to 41.70): VDC

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: 48.758 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VD064255.D

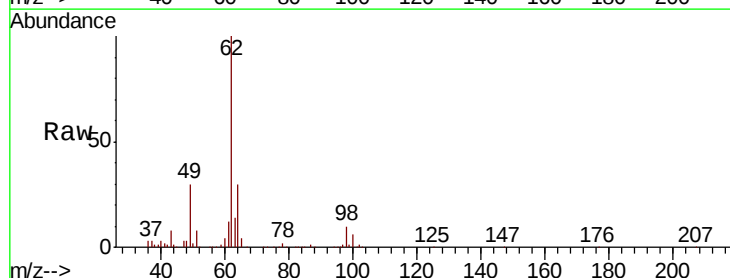
Acq: 18 Nov 2019 10:29

Tgt Ion: 62 Resp: 354841

Ion Ratio Lower Upper

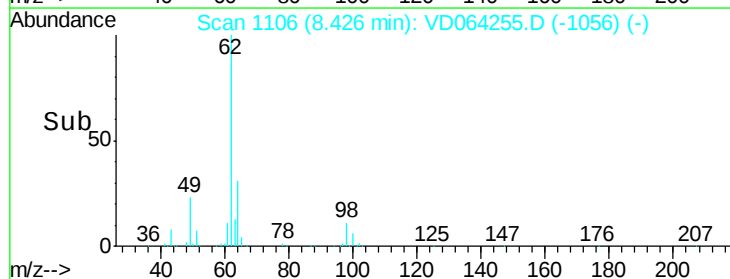
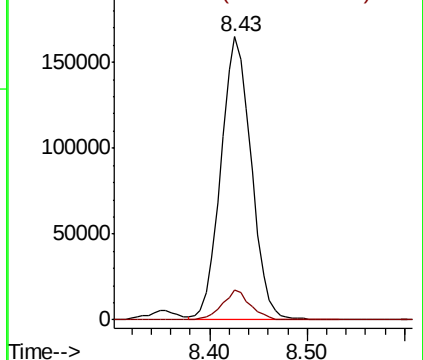
62 100

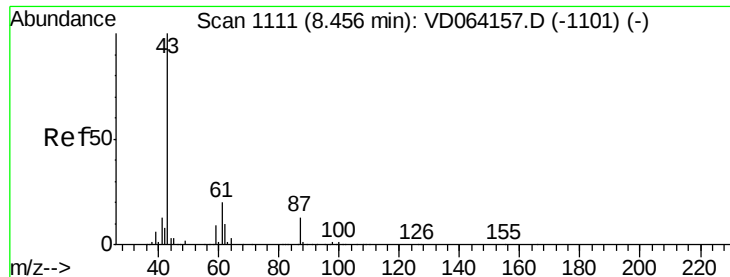
98 9.7 0.0 19.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 48.028 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

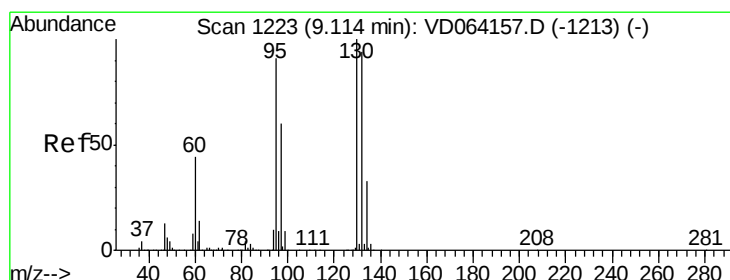
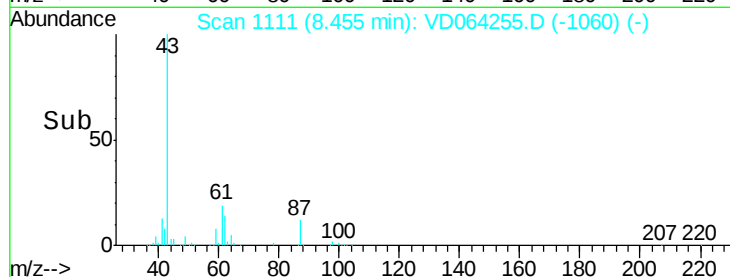
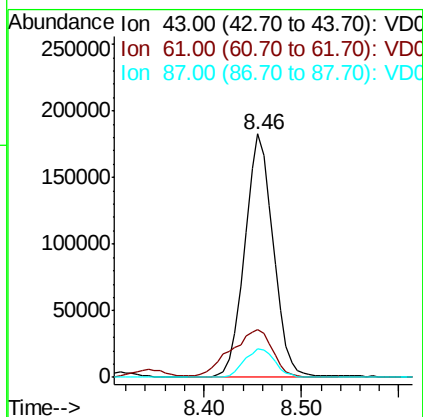
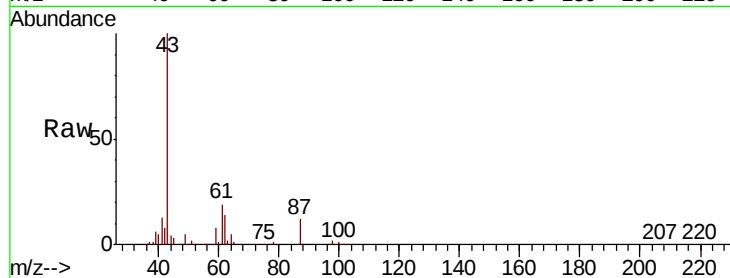
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	369876
Ion	Ratio	Lower	Upper
43	100		
61	29.0	22.9	34.3
87	12.7	10.2	15.2

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM



#44

Trichloroethene

Concen: 50.092 ug/l

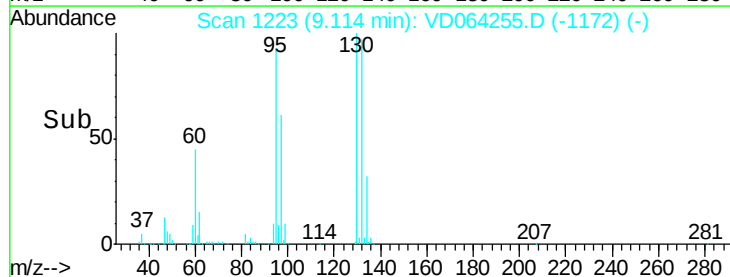
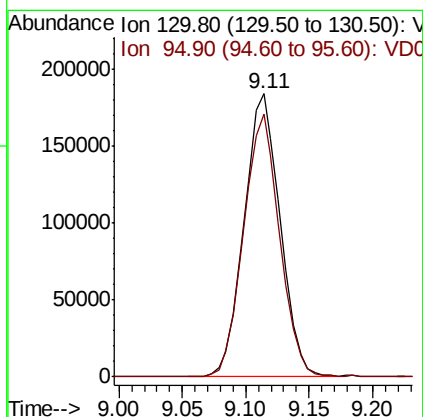
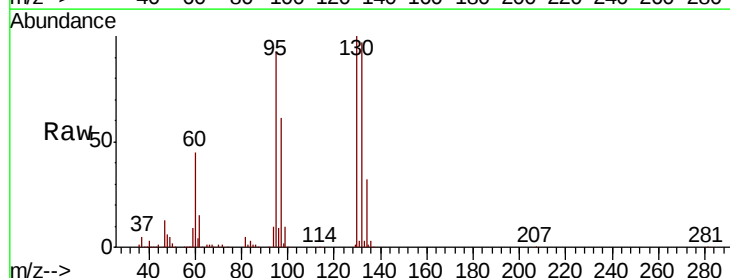
RT: 9.11 min Scan# 1223

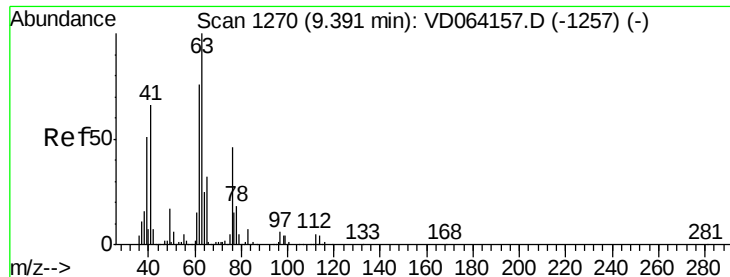
Delta R.T. -0.00 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Tgt Ion:	130	Resp:	364301
Ion	Ratio	Lower	Upper
130	100		
95	92.9	0.0	181.6





#45

1,2-Dichloropropane

Concen: 50.616 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 298524

Ion Ratio Lower Upper

63 100

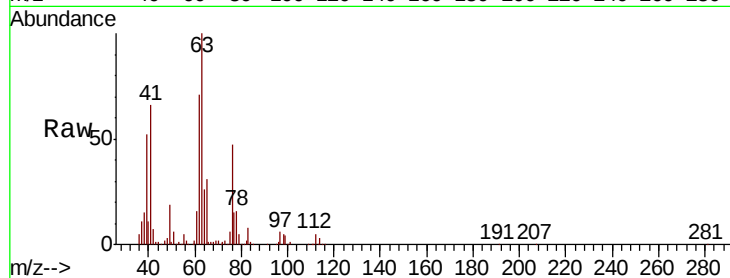
65 30.9 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:11:41 PM



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC

150000

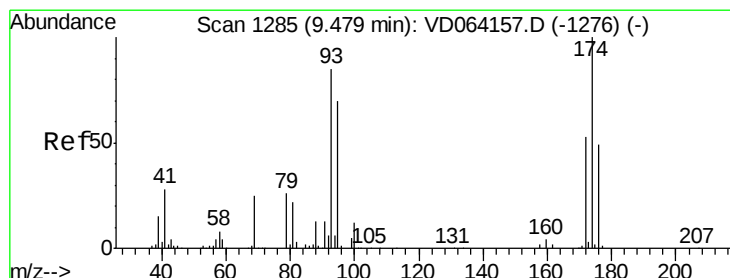
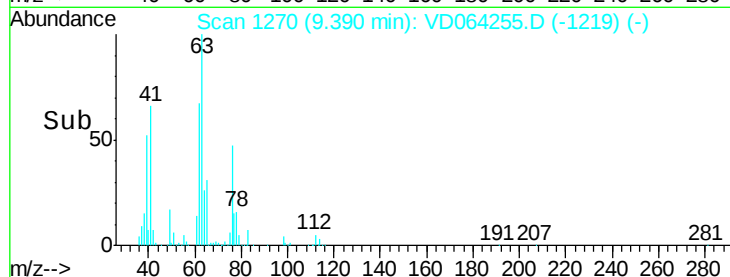
100000

50000

0

9.30 9.40 9.50

Time-->



#46

Dibromomethane

Concen: 48.829 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. -0.00 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

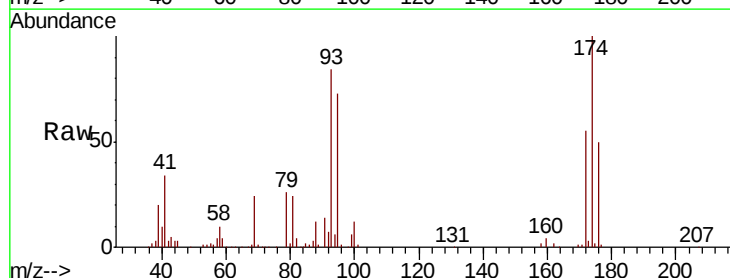
Tgt Ion: 93 Resp: 154176

Ion Ratio Lower Upper

93 100

95 84.4 65.5 98.3

174 117.7 93.9 140.9



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

120000

100000

80000

60000

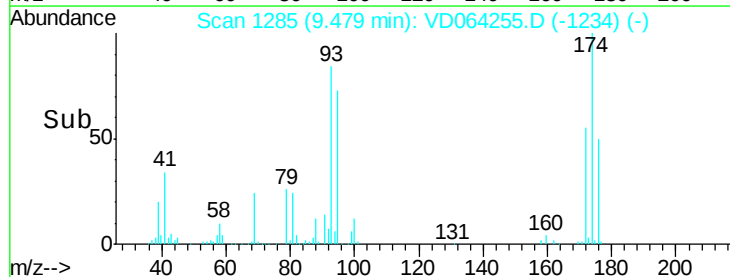
40000

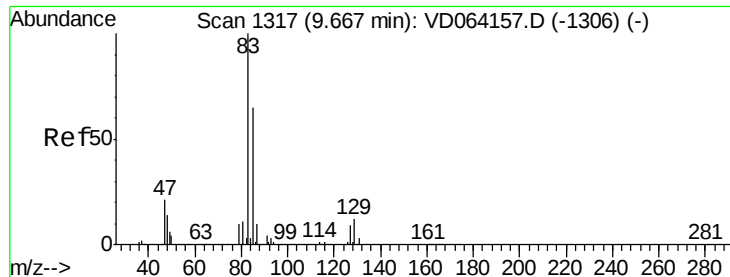
20000

0

9.40 9.45 9.50 9.55

Time-->





#47

Bromodichloromethane

Concen: 50.765 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

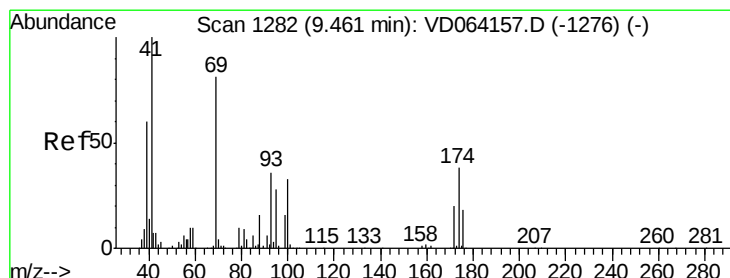
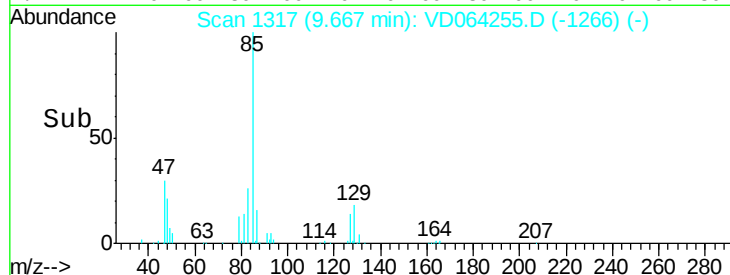
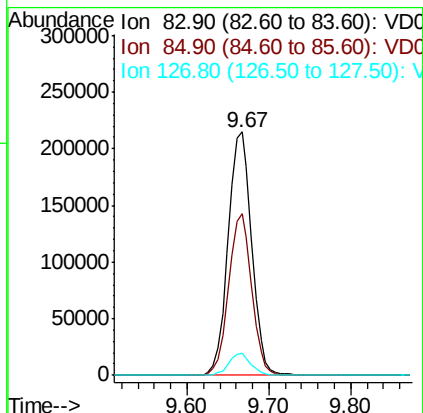
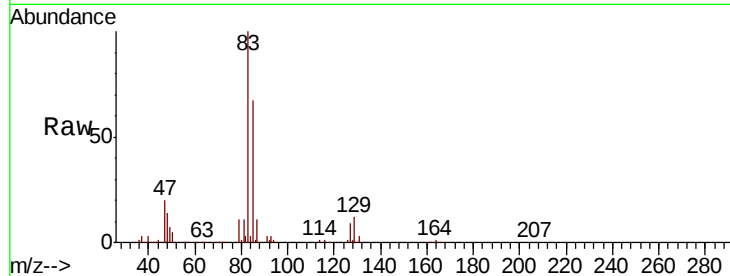
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	431751
Ion	Ratio	Lower	Upper
83	100		
85	66.6	52.2	78.4
127	9.2	7.5	11.3

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM



#48

Methyl methacrylate

Concen: 45.879 ug/l

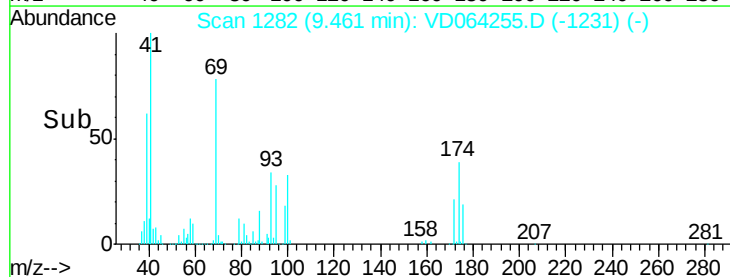
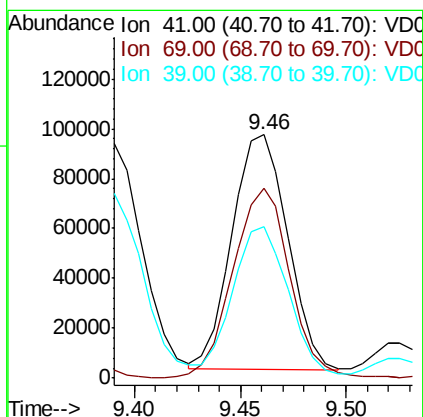
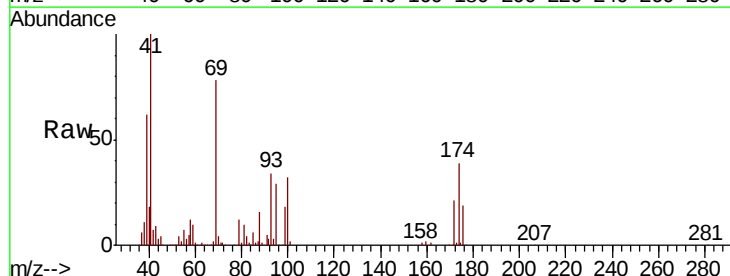
RT: 9.46 min Scan# 1282

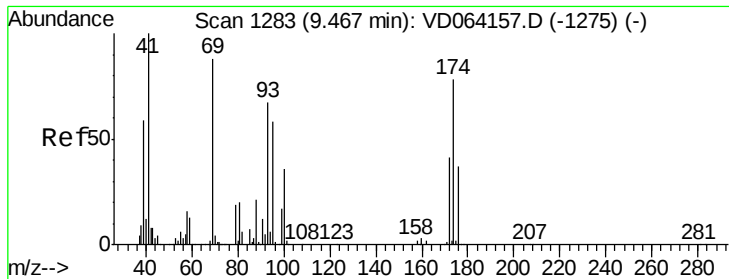
Delta R.T. -0.00 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Tgt Ion:	41	Resp:	172768
Ion	Ratio	Lower	Upper
41	100		
69	82.4	64.6	97.0
39	61.8	48.2	72.2





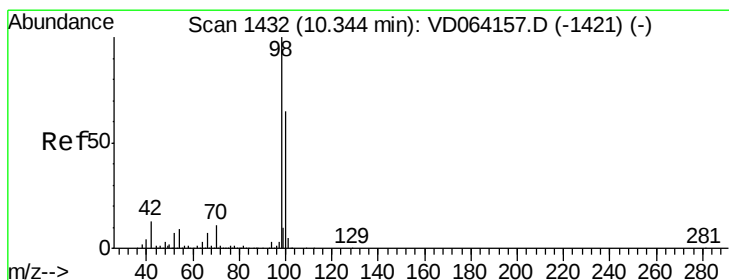
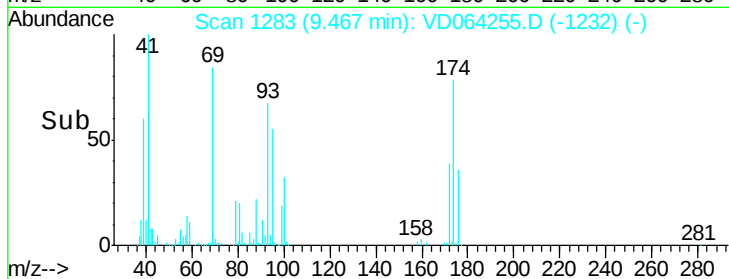
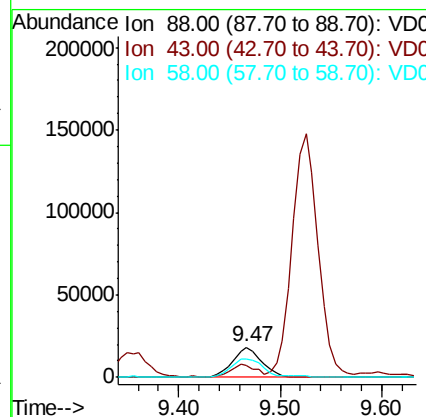
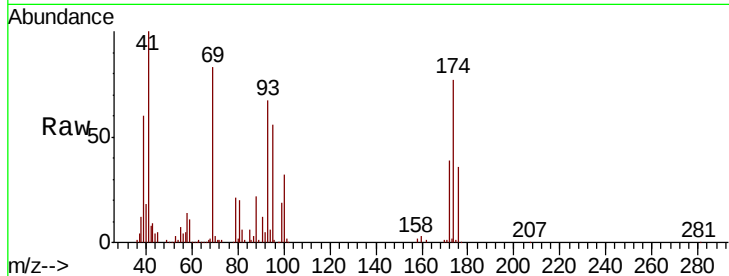
#49
1,4-Dioxane
Concen: 960.241 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.4	29.8	44.8
58	68.3	58.1	87.1

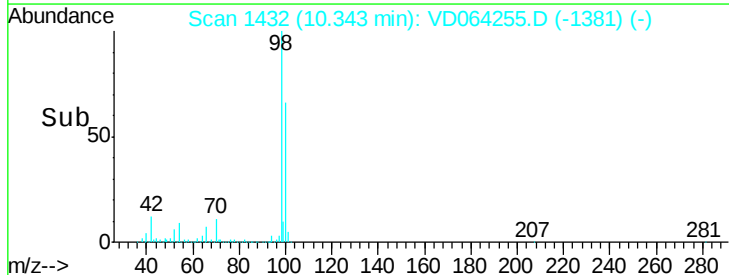
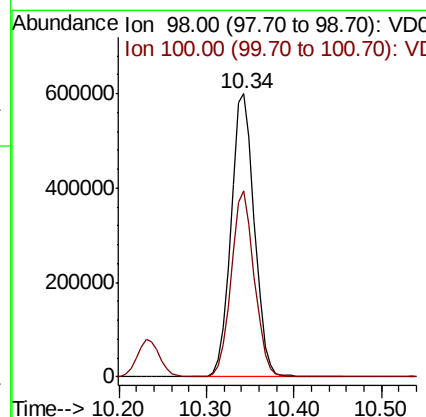
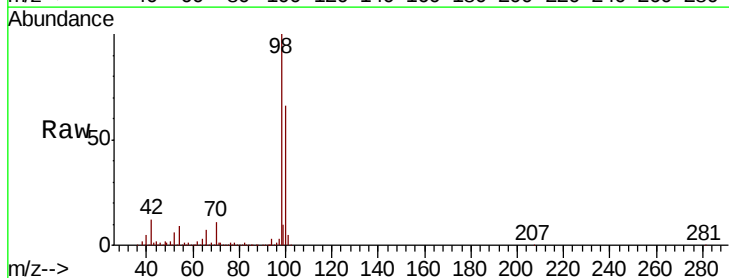
Manual Integrations
APPROVED

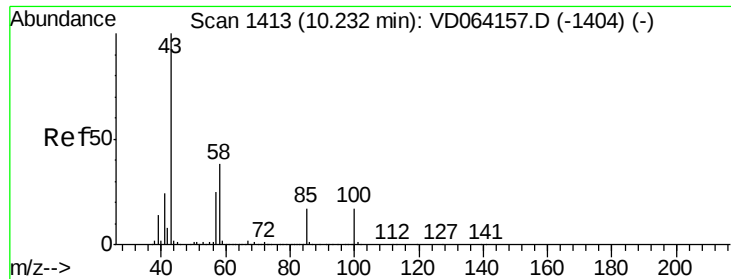
MMDadoda
11/20/2019 1:11:41 PM



#50
Toluene-d8
Concen: 52.558 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.6	78.8





#51

4-Methyl-2-Pentanone

Concen: 238.649 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 881354

Ion Ratio Lower Upper

43 100

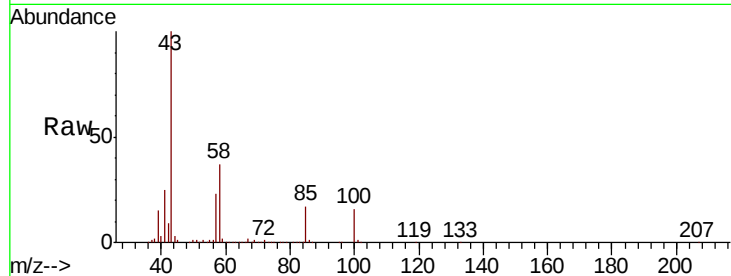
58 37.6 30.2 45.4

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:11:41 PM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.23

500000

400000

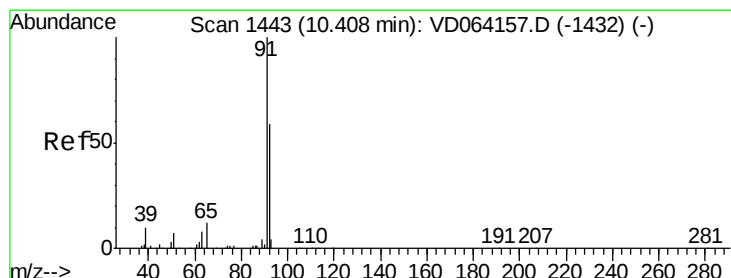
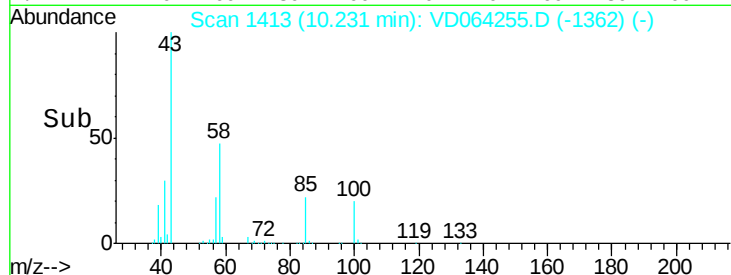
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 50.147 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. -0.00 min

Lab File: VD064255.D

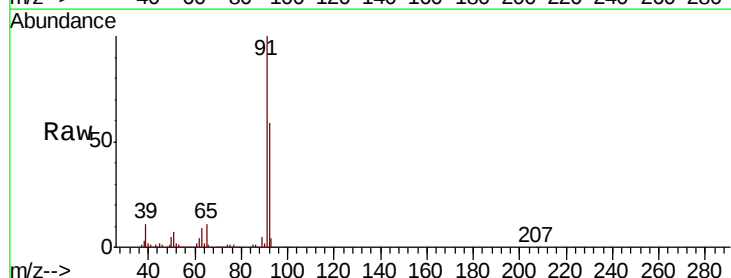
Acq: 18 Nov 2019 10:29

Tgt Ion: 92 Resp: 799020

Ion Ratio Lower Upper

92 100

91 173.2 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

800000

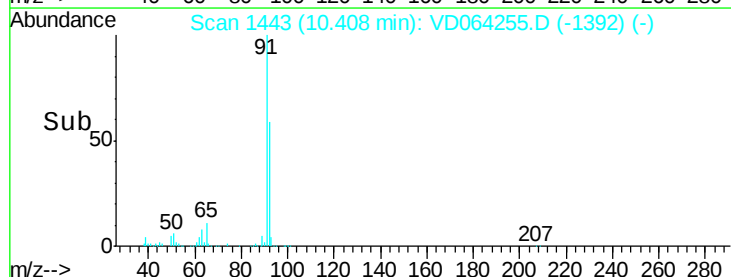
600000

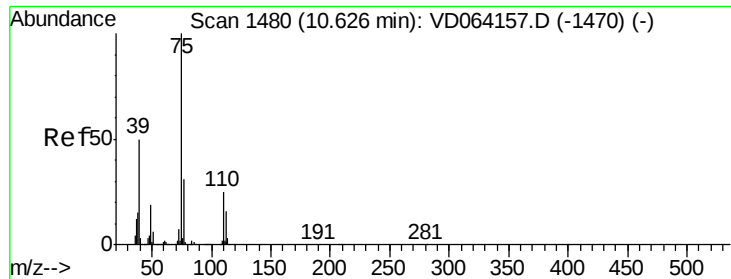
400000

200000

0

Time-->





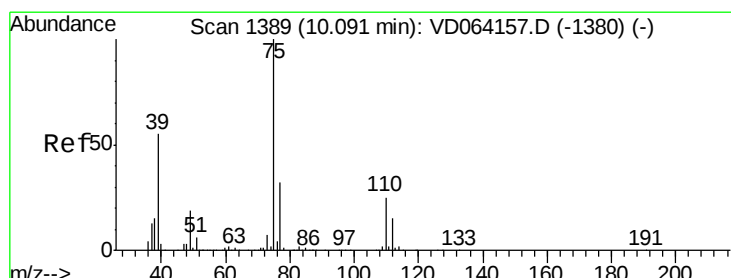
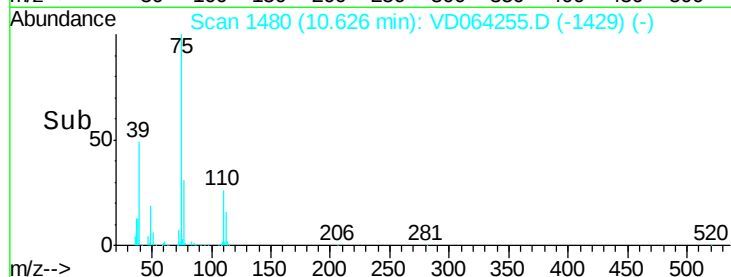
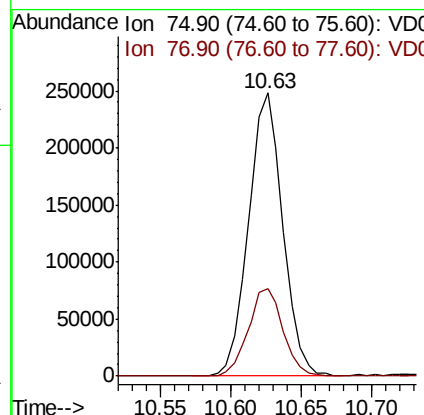
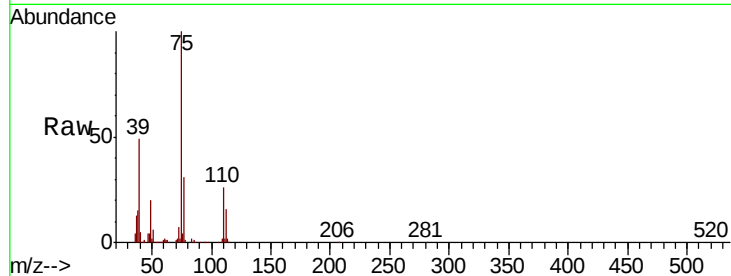
#53
t-1,3-Dichloropropene
Concen: 49.541 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 422119
Ion Ratio Lower Upper
75 100
77 30.9 24.7 37.1

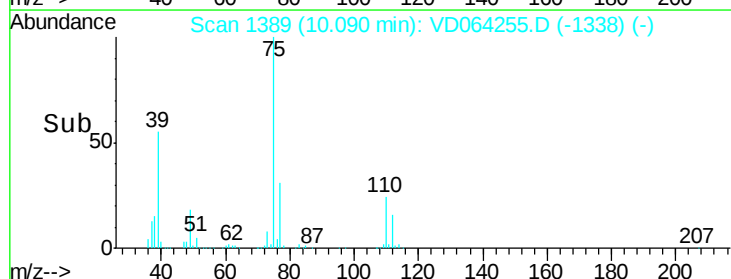
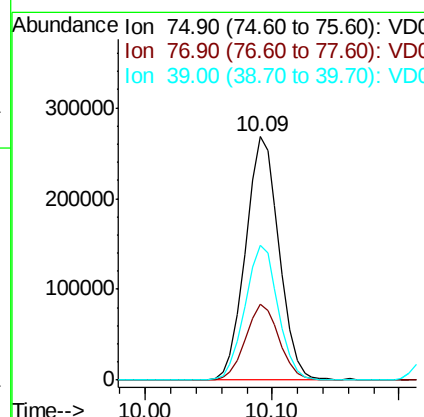
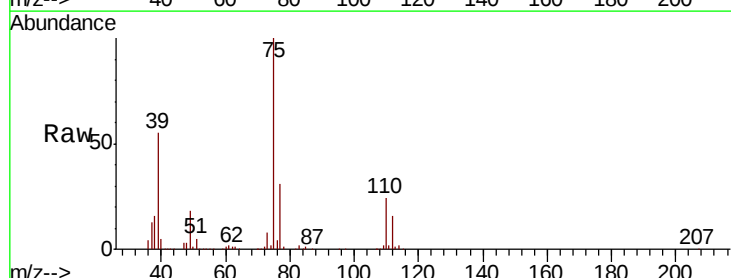
Manual Integrations
APPROVED

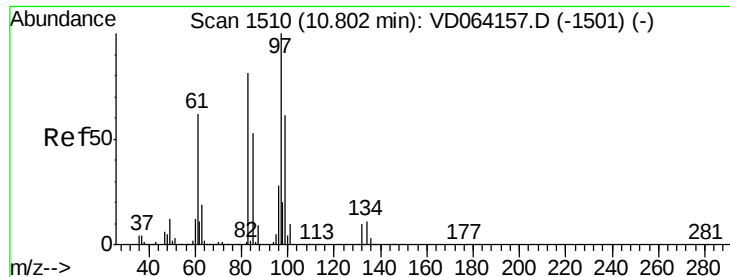
MMDadoda
11/20/2019 1:11:41 PM



#54
cis-1,3-Dichloropropene
Concen: 49.341 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion: 75 Resp: 490586
Ion Ratio Lower Upper
75 100
77 31.4 25.2 37.8
39 55.2 44.2 66.2





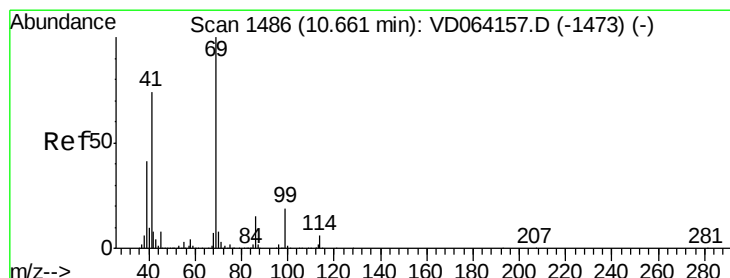
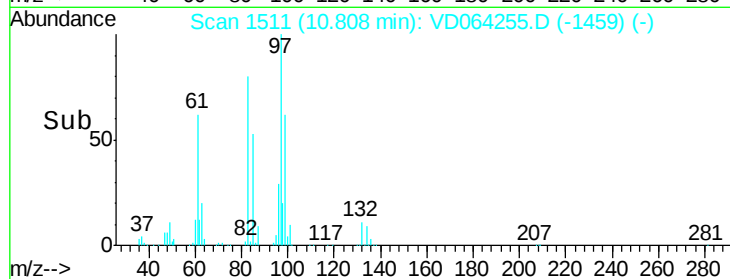
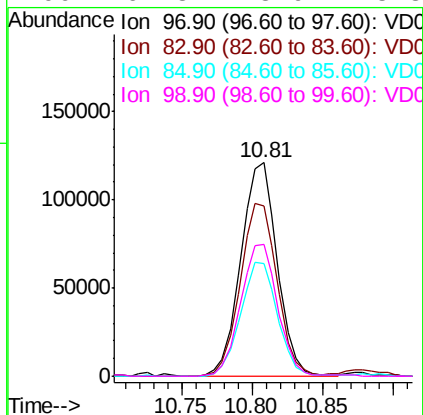
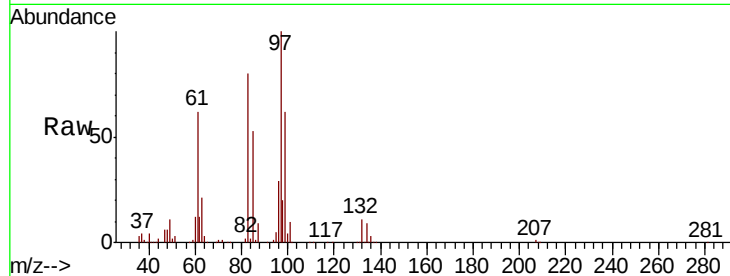
#55
 1,1,2-Trichloroethane
 Concen: 51.031 ug/l
 RT: 10.81 min Scan# 1511
 Delta R.T. 0.01 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	97	Resp	218582
Ion Ratio	Lower	Upper	
97	100		
83	79.5	65.1	97.7
85	52.5	42.0	63.0
99	61.8	48.9	73.3

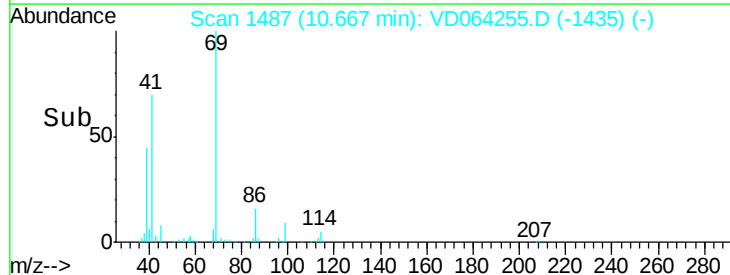
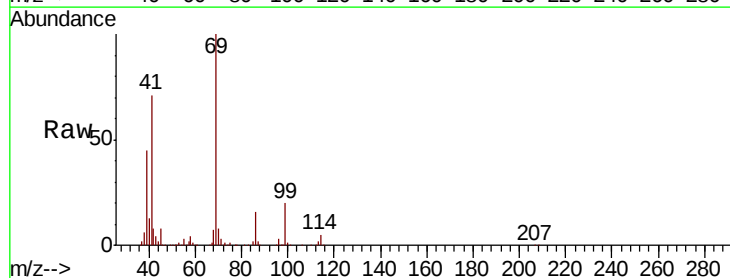
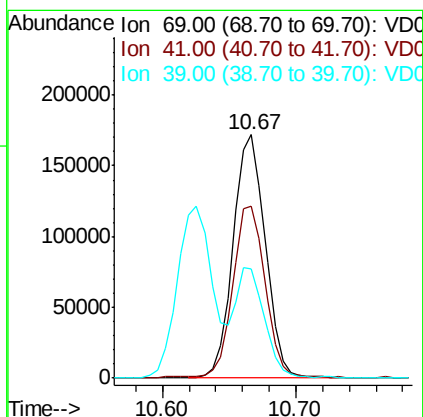
Manual Integrations
 APPROVED

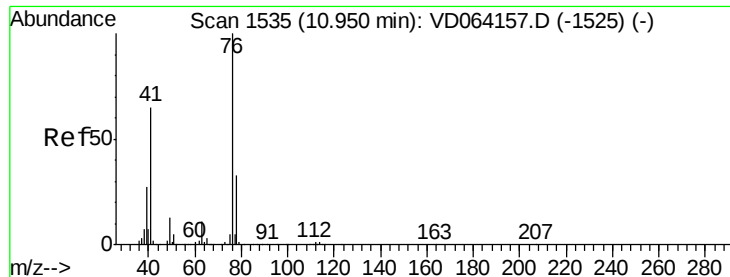
MMDadoda
 11/20/2019 1:11:41 PM



#56
 Ethyl methacrylate
 Concen: 48.119 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.01 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Tgt Ion	69	Resp	288321
Ion Ratio	Lower	Upper	
69	100		
41	70.2	57.9	86.9
39	39.9	29.0	43.4





#57

1,3-Dichloropropane

Concen: 49.891 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 372693

Ion Ratio Lower Upper

76 100

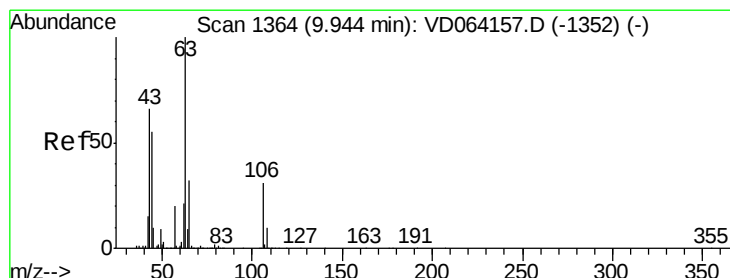
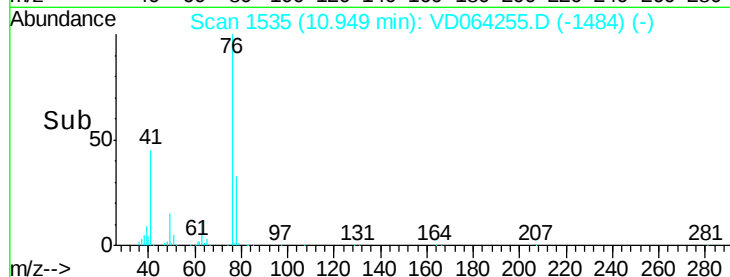
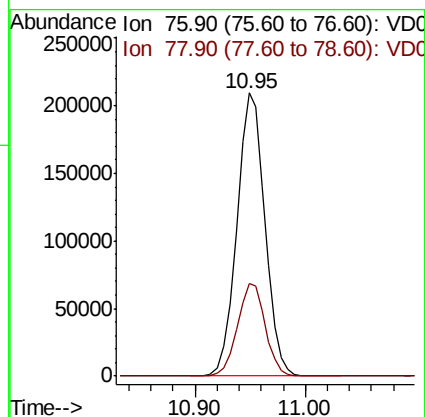
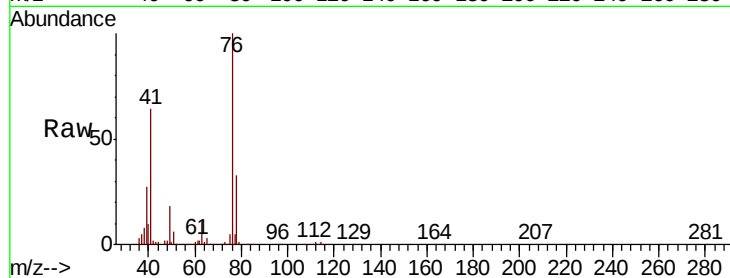
78 32.6 26.2 39.4

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:11:41 PM



#58

2-Chloroethyl Vinyl ether

Concen: 234.949 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VD064255.D

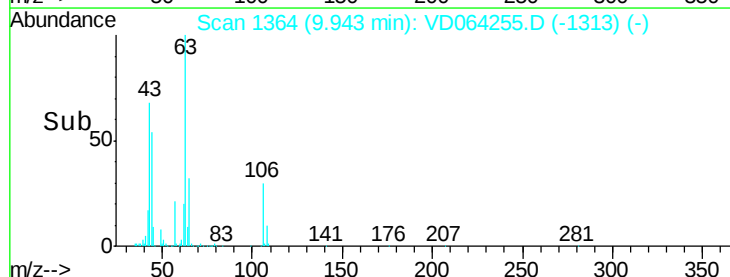
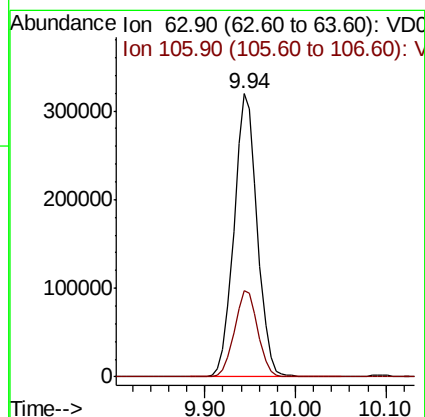
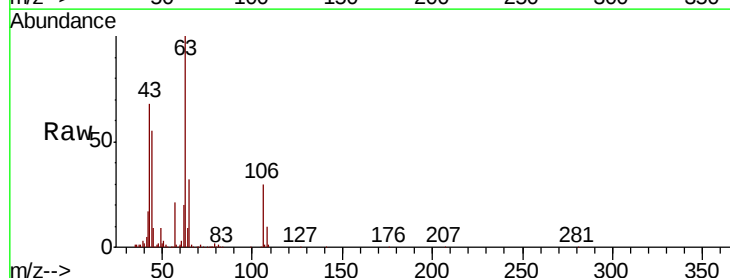
Acq: 18 Nov 2019 10:29

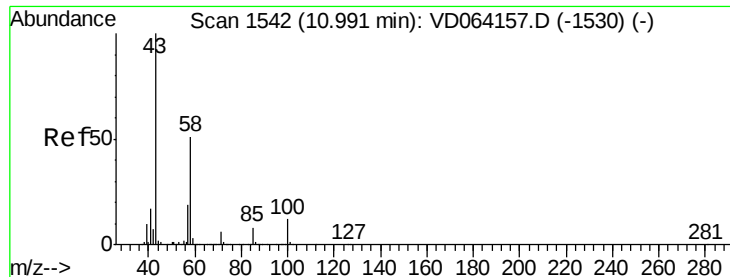
Tgt Ion: 63 Resp: 570248

Ion Ratio Lower Upper

63 100

106 30.7 24.1 36.1





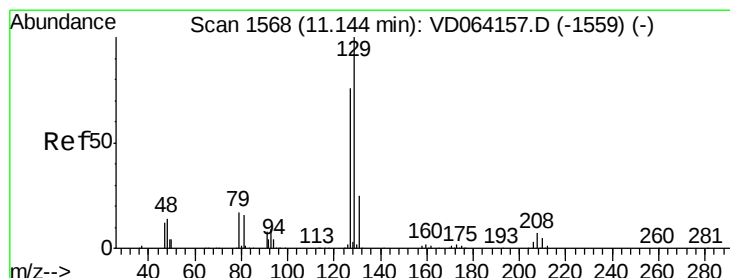
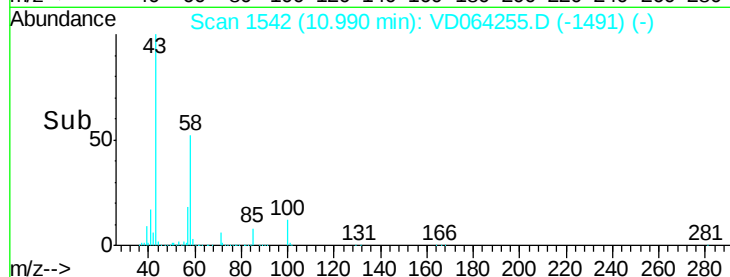
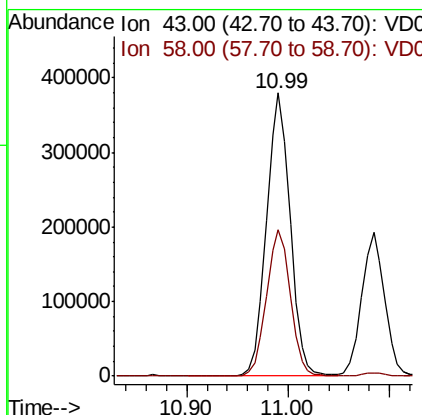
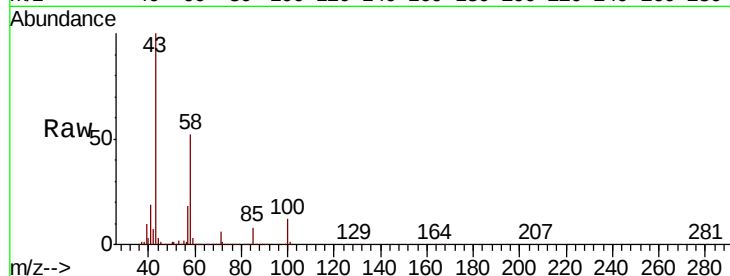
#59
2-Hexanone
Concen: 234.616 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 616437
Ion Ratio Lower Upper
43 100
58 52.2 25.9 77.7

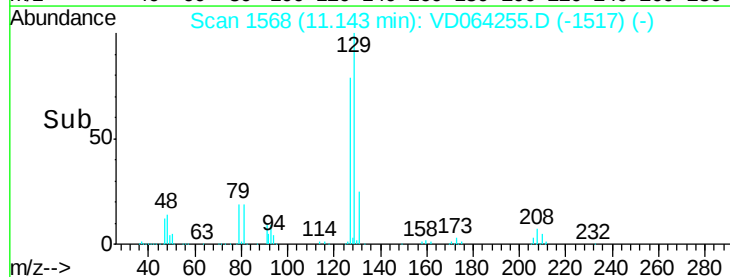
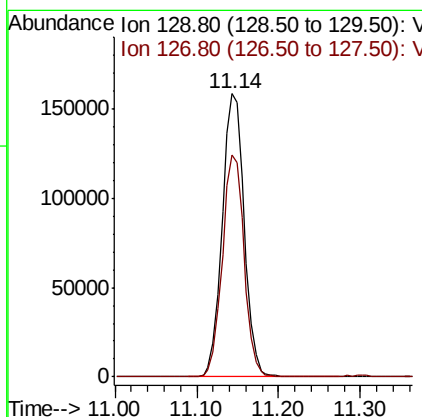
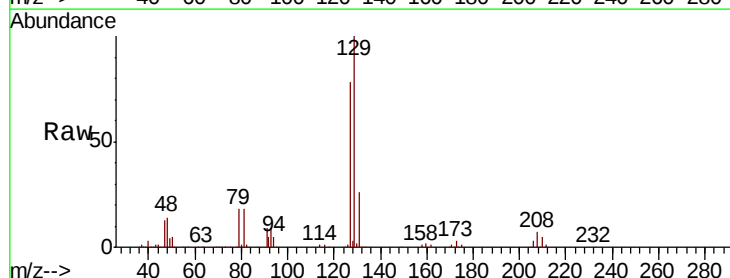
Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM



#60
Dibromochloromethane
Concen: 49.559 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion: 129 Resp: 296201
Ion Ratio Lower Upper
129 100
127 77.6 38.6 115.8





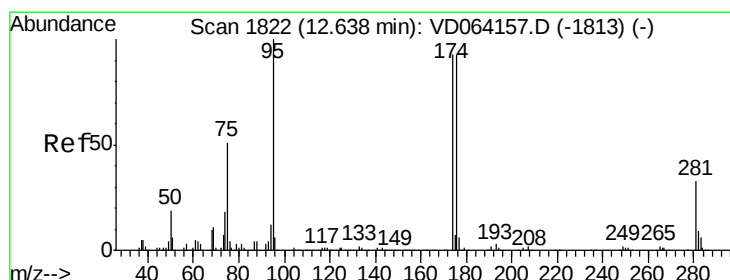
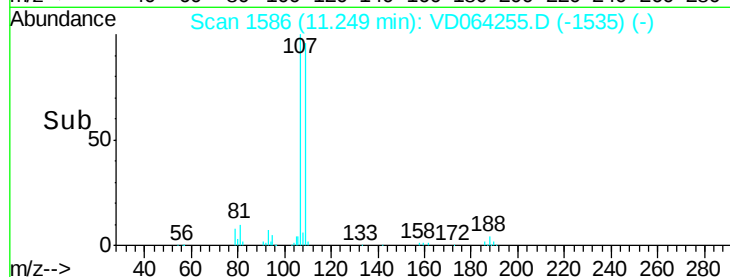
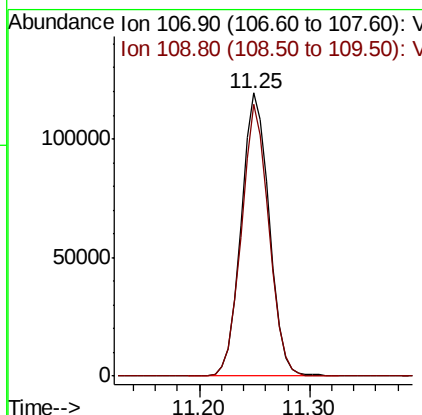
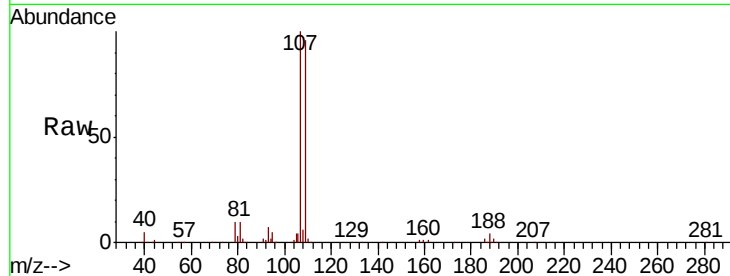
#61
 1,2-Dibromoethane
 Concen: 49.659 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.1	112.7

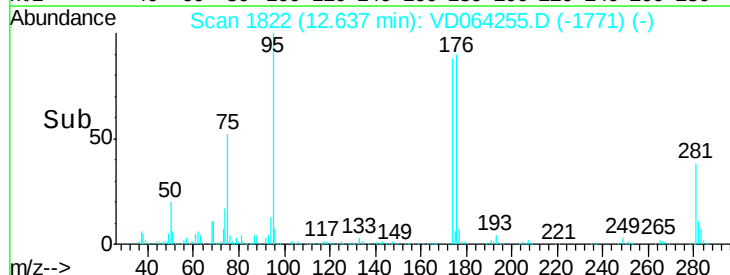
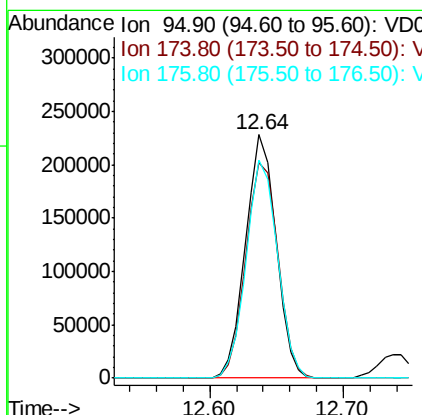
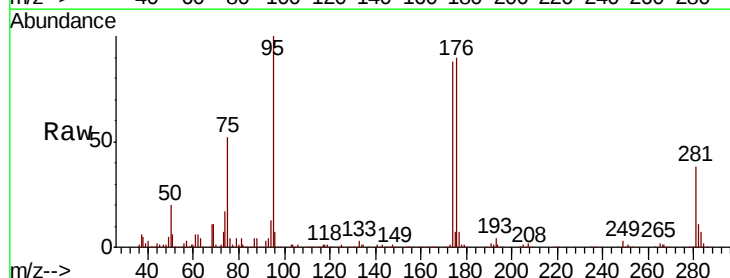
Manual Integrations
 APPROVED

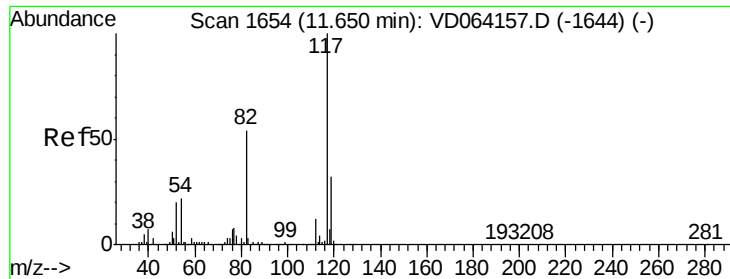
MMDadoda
 11/20/2019 1:11:41 PM



#62
 4-Bromofluorobenzene
 Concen: 50.070 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.00 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
95	100		
174	93.5	0.0	183.6
176	91.6	0.0	180.2





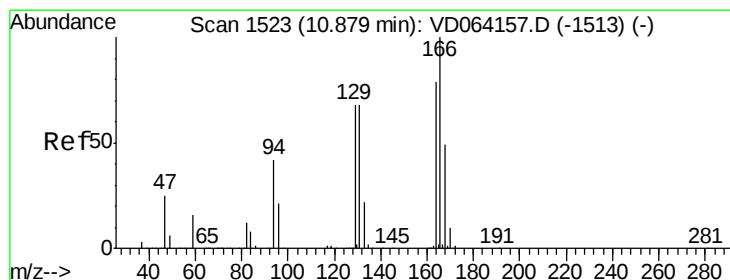
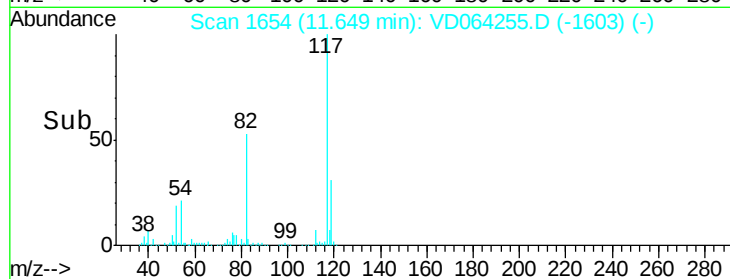
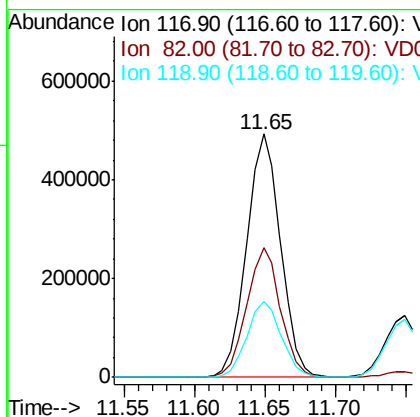
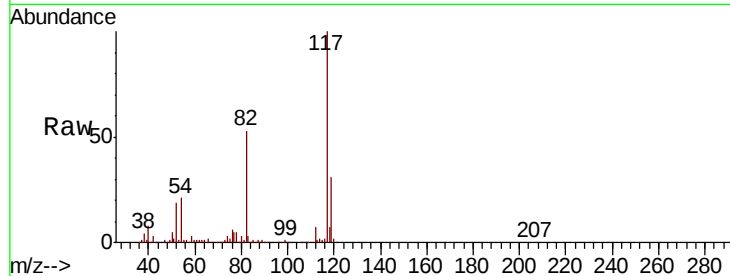
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.0	42.8	64.2
119	31.1	25.6	38.4

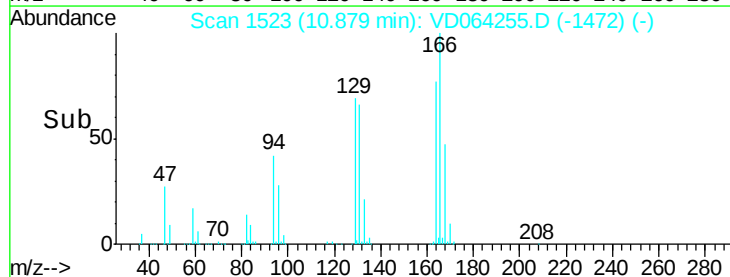
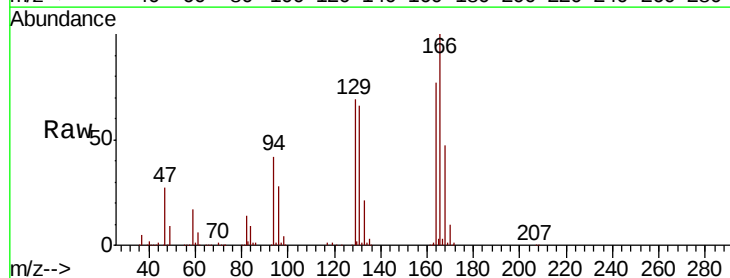
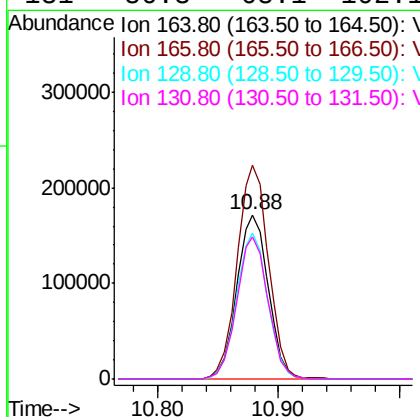
Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM



#64
Tetrachloroethene
Concen: 48.706 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.1	100.8	151.2
129	89.2	68.7	103.1
131	86.3	68.1	102.1





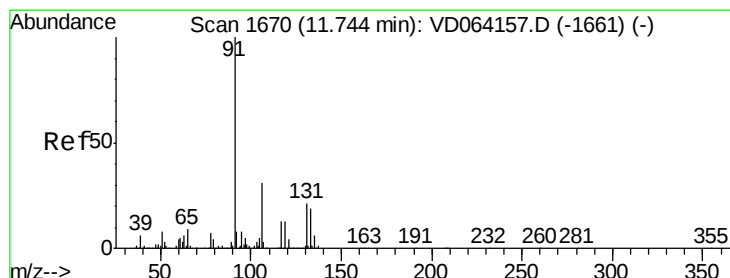
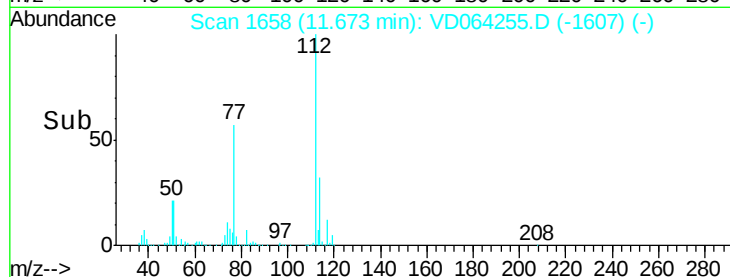
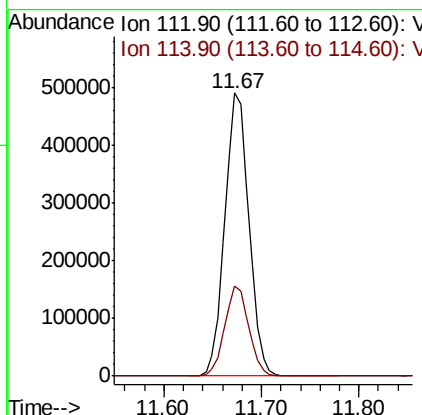
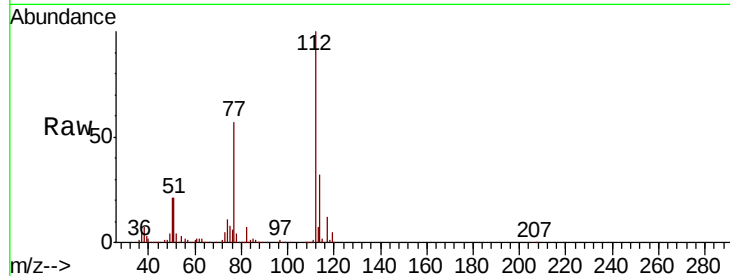
#65
Chlorobenzene
Concen: 49.748 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.2	37.8

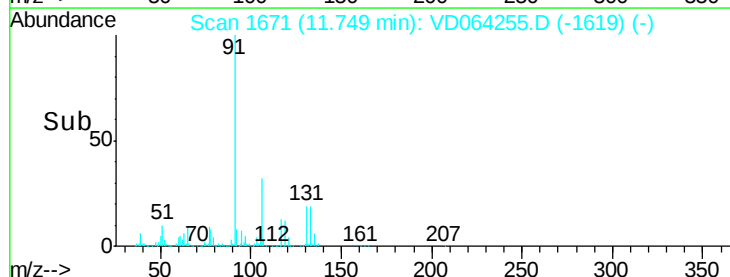
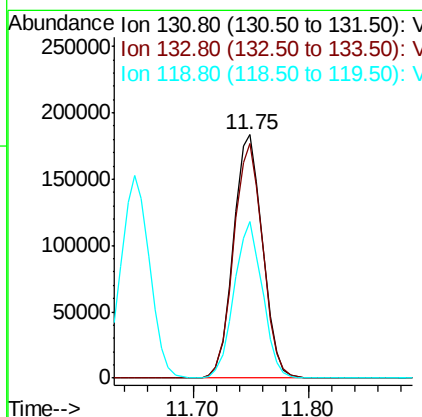
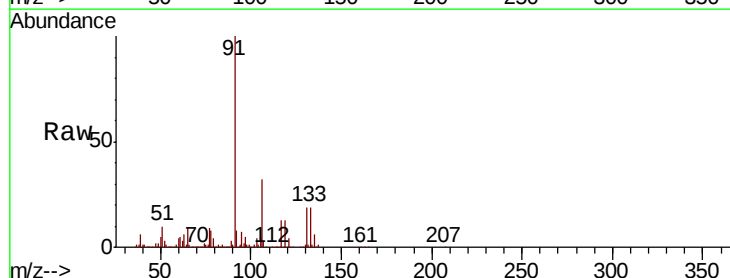
Manual Integrations
APPROVED

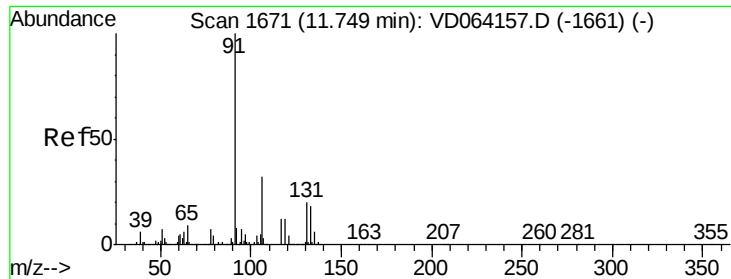
MMDadoda
11/20/2019 1:11:41 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.936 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	141.9
119	62.7	31.1	93.3





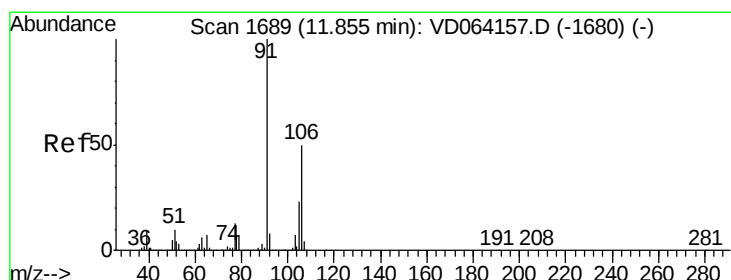
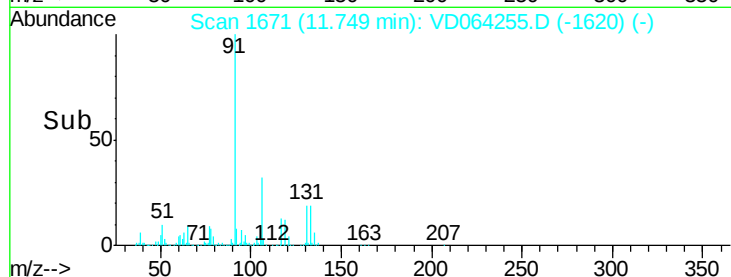
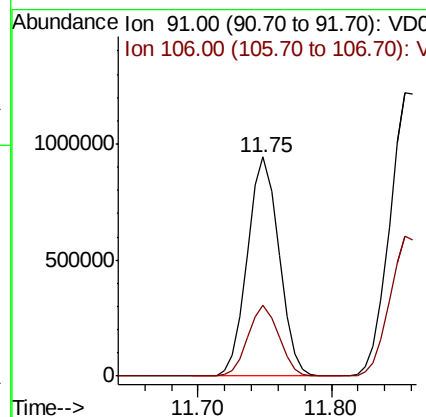
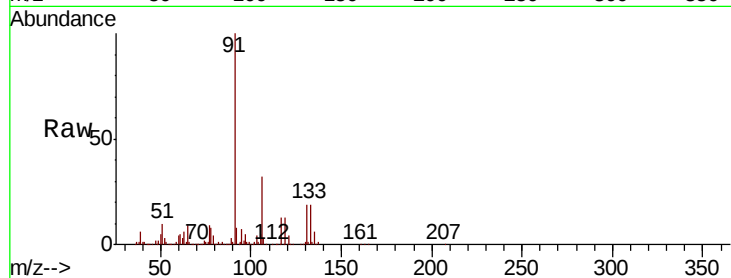
#67
Ethyl Benzene
Concen: 50.638 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1549747
Ion Ratio Lower Upper
91 100
106 32.1 25.5 38.3

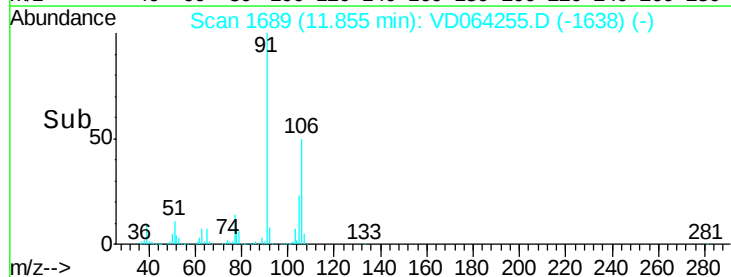
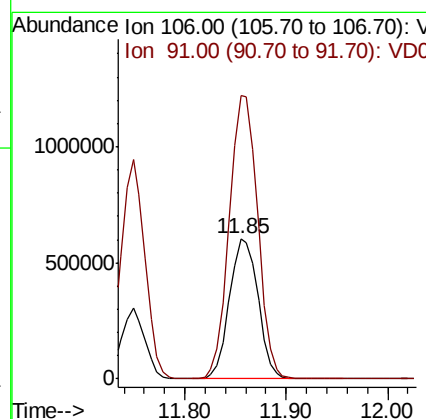
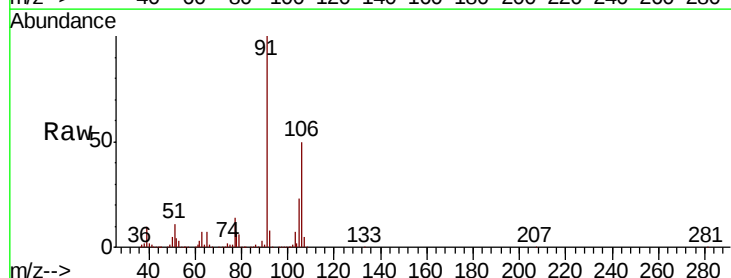
Manual Integrations
APPROVED

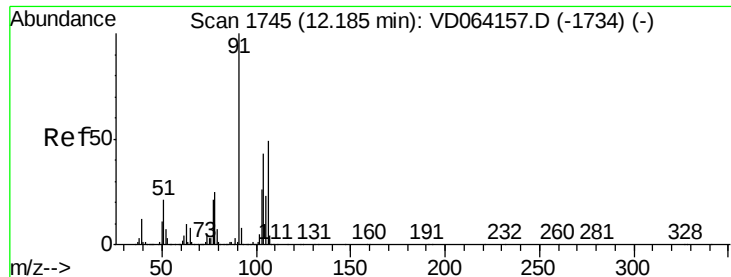
MMDadoda
11/20/2019 1:11:41 PM



#68
m/p-Xylenes
Concen: 100.853 ug/l
RT: 11.85 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion: 106 Resp: 1183085
Ion Ratio Lower Upper
106 100
91 200.9 160.3 240.5





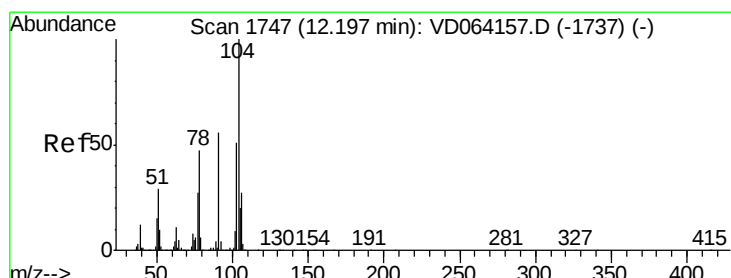
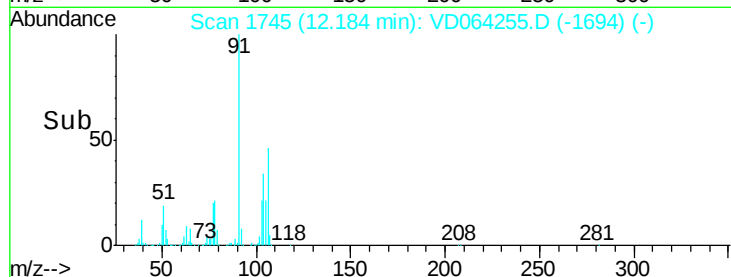
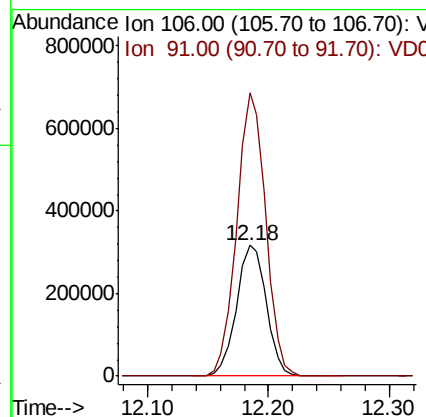
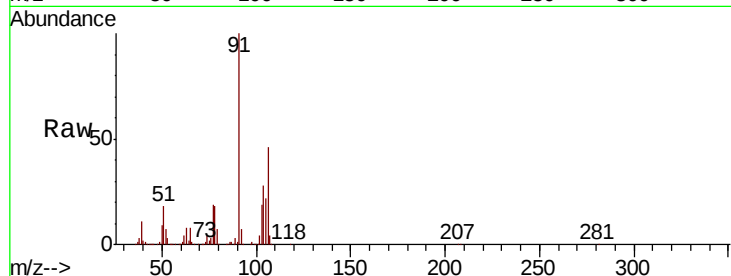
#69
o-Xylene
Concen: 50.015 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	210.7	105.1	315.3

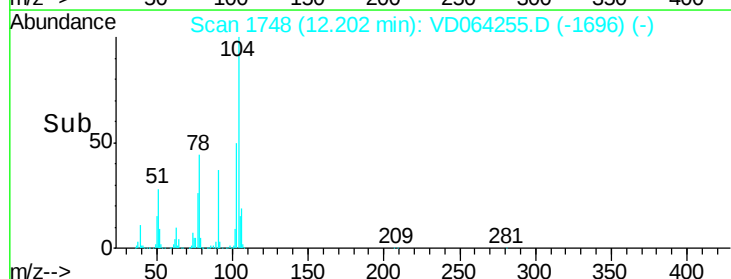
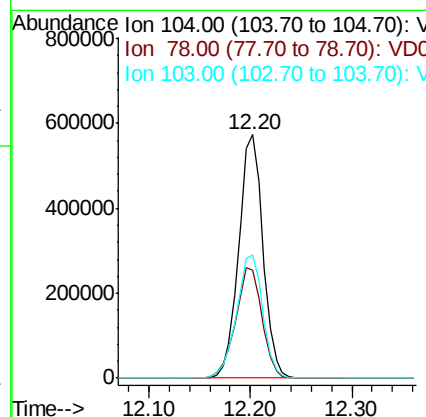
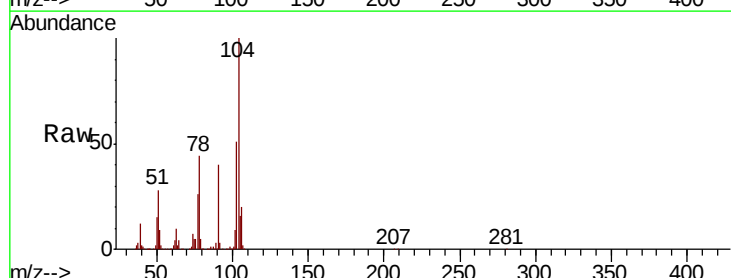
Manual Integrations
APPROVED

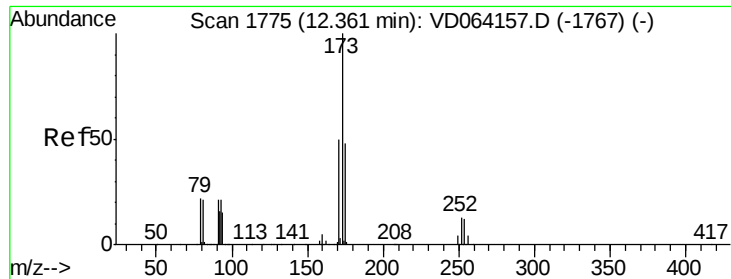
MMDadoda
11/20/2019 1:11:41 PM



#70
Styrene
Concen: 50.064 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.4	39.9	59.9
103	54.8	43.4	65.0





#71

Bromoform

Concen: 49.516 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

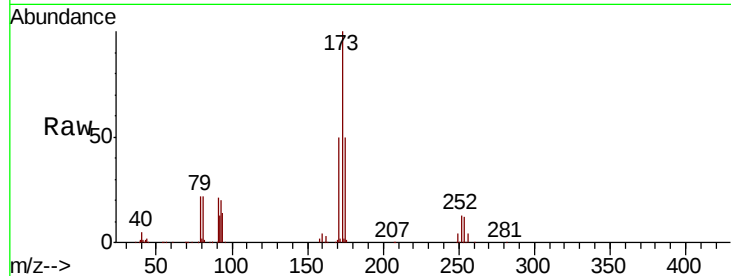
ClientSampleId :

VSTDCCC050

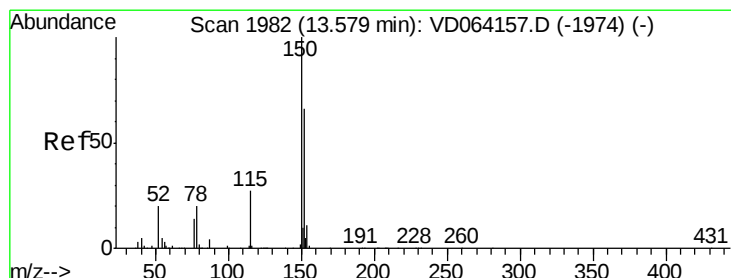
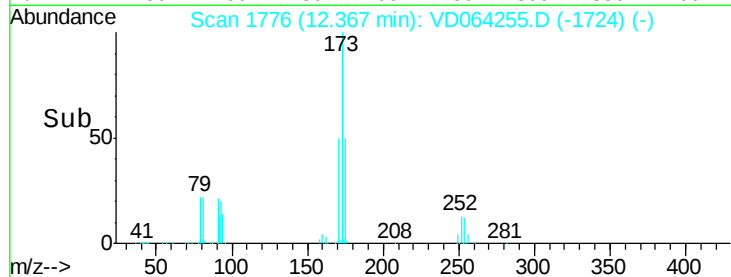
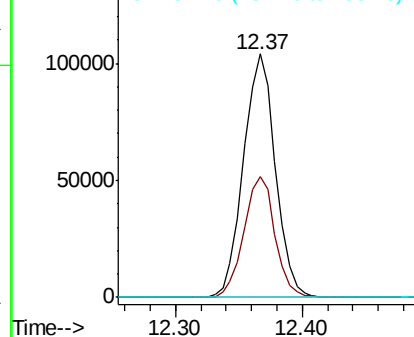
Tot Ion:	173	Resp:	181296
Ion Ratio	Lower	Upper	
173	100		
175	48.1	24.1	72.3
254	0.2	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

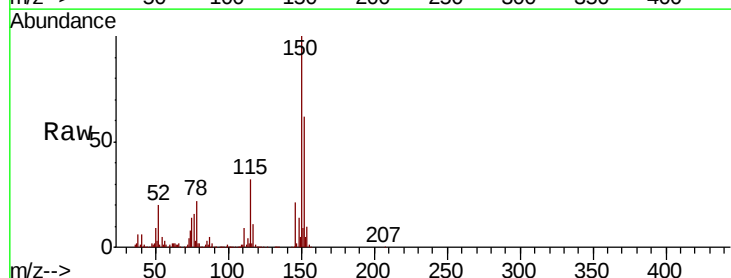
RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

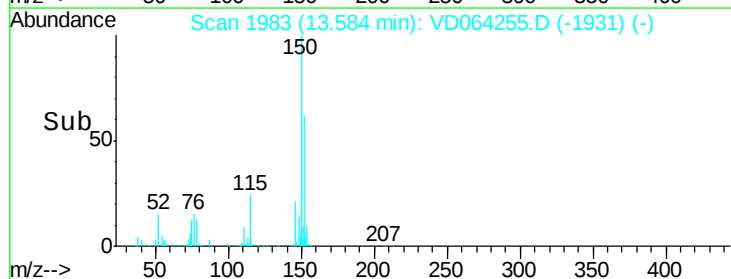
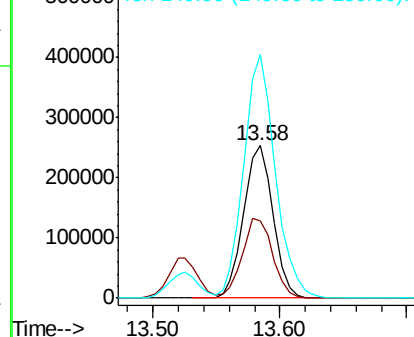
Lab File: VD064255.D

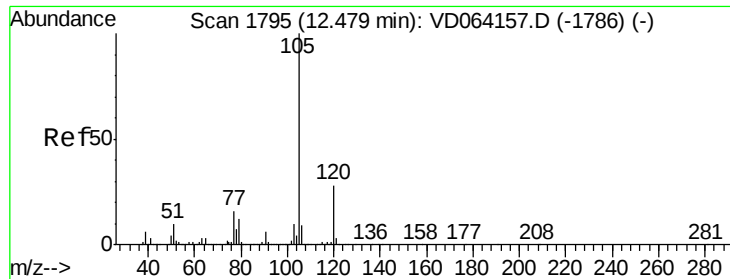
Acq: 18 Nov 2019 10:29

Tgt Ion:	152	Resp:	407551
Ion Ratio	Lower	Upper	
152	100		
115	54.3	27.4	82.2
150	171.8	0.0	351.6



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: 50.620 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1514253

Ion Ratio Lower Upper

105 100

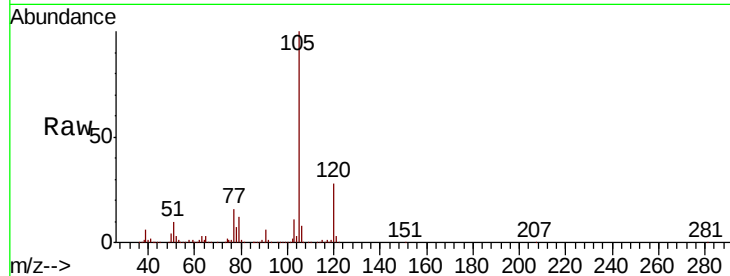
120 27.2 13.6 40.8

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:11:41 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.48

1000000

800000

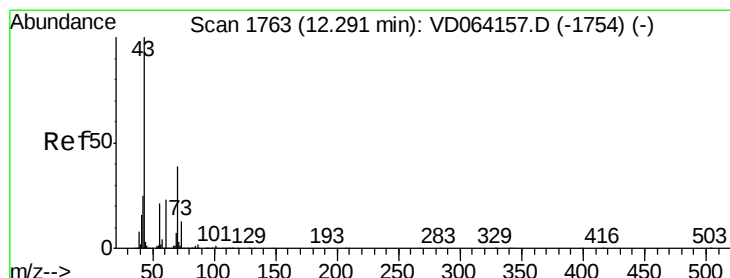
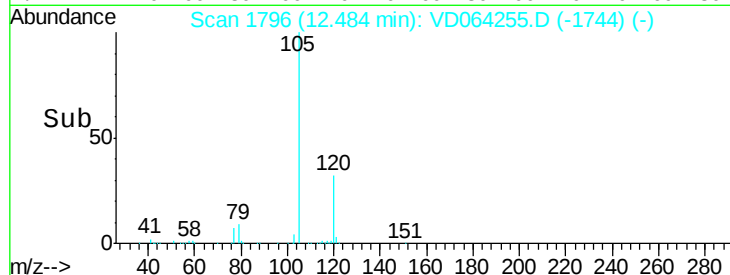
600000

400000

200000

0

Time-->



#74

N-ethyl acetate

Concen: 47.479 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Tgt Ion: 43 Resp: 335394

Ion Ratio Lower Upper

43 100

70 40.6 32.4 48.6

55 22.4 17.9 26.9

61 23.8 19.0 28.4

Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

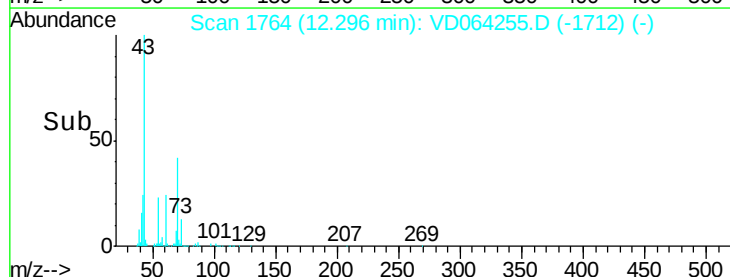
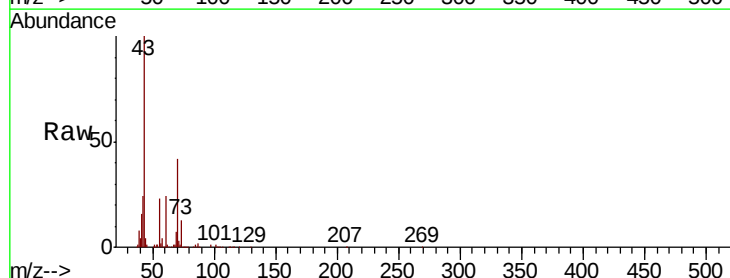
300000

200000

100000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 49.045 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

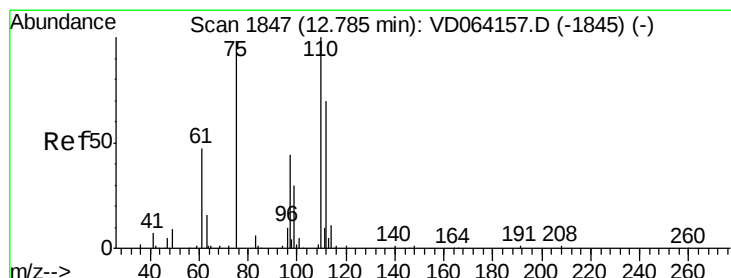
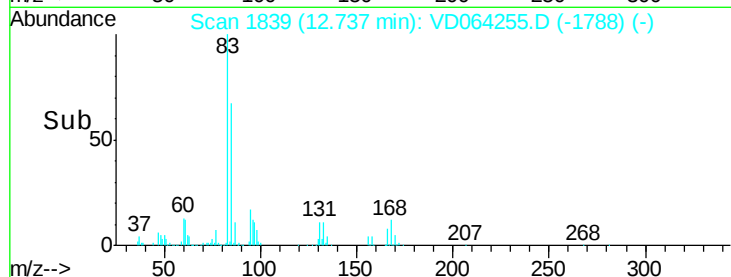
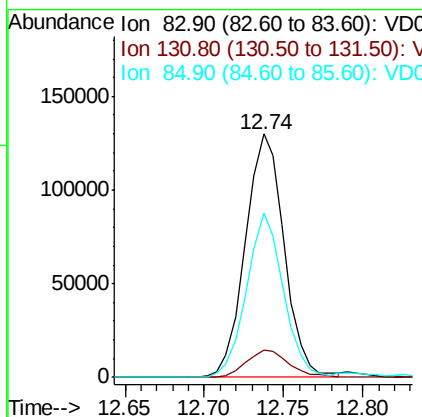
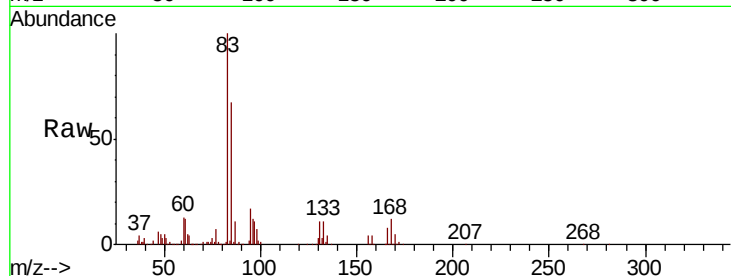
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	221073
Ion Ratio	Lower	Upper	
83	100		
131	12.5	5.9	17.7
85	63.9	32.5	97.5

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM



#76

1,2,3-Trichloropropane

Concen: 46.132 ug/l m

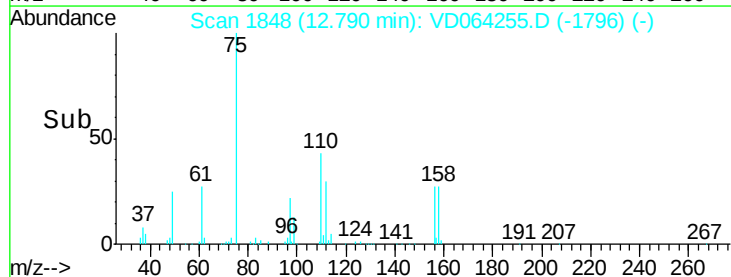
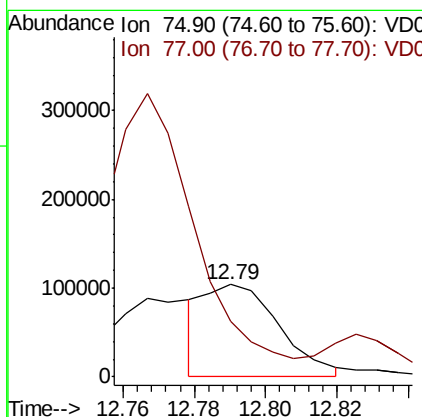
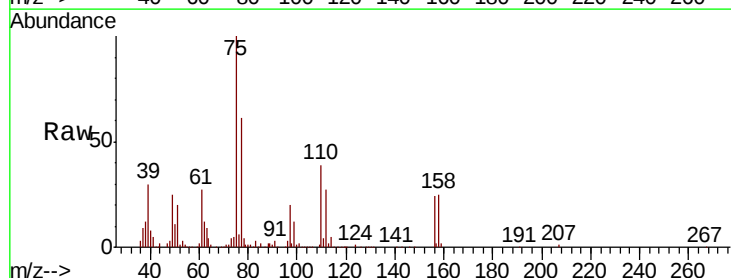
RT: 12.79 min Scan# 1848

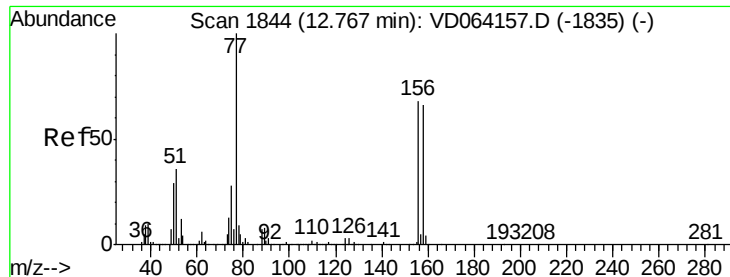
Delta R.T. 0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Tgt Ion:	75	Resp:	151438
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 49.387 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

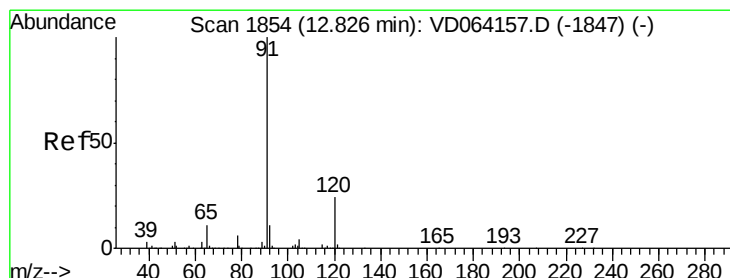
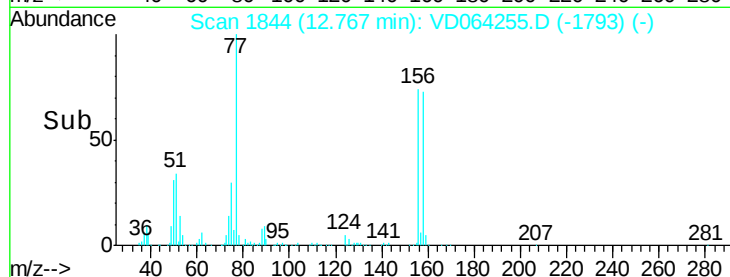
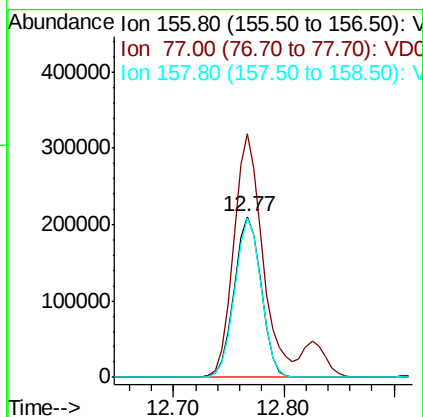
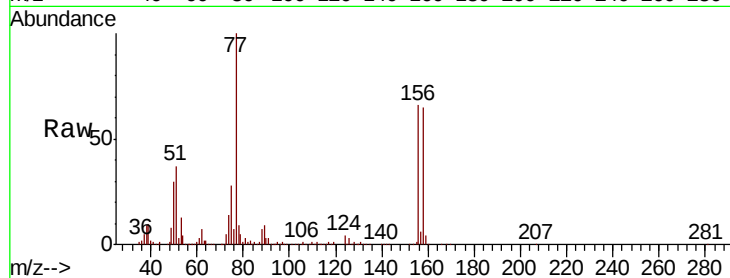
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	358915
Ion Ratio	Lower	Upper	
156	100		
77	163.1	81.2	243.4
158	98.1	48.4	145.2

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM



#78

n-propylbenzene

Concen: 50.842 ug/l

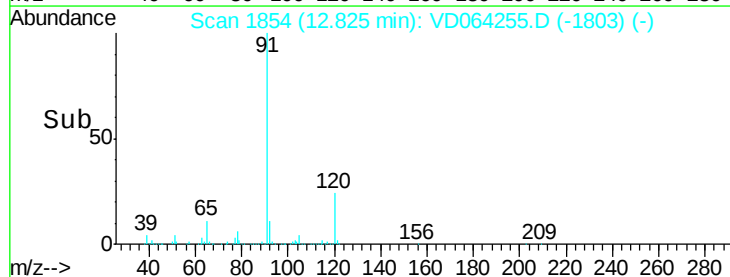
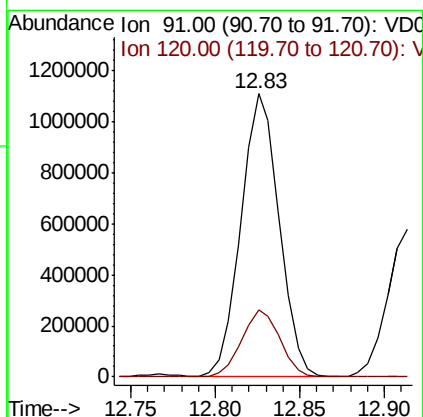
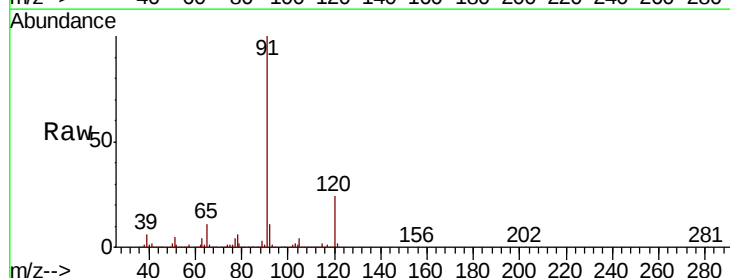
RT: 12.83 min Scan# 1854

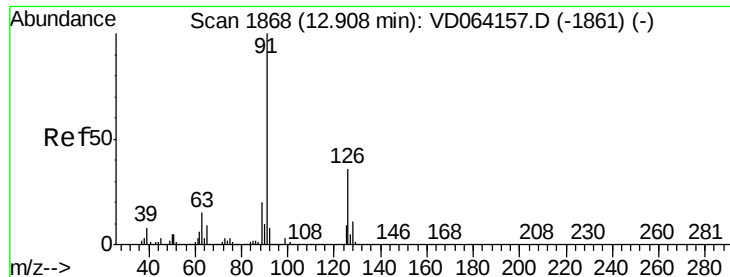
Delta R.T. -0.00 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Tgt Ion:	91	Resp:	1737643
Ion Ratio	Lower	Upper	
91	100		
120	23.9	11.8	35.4





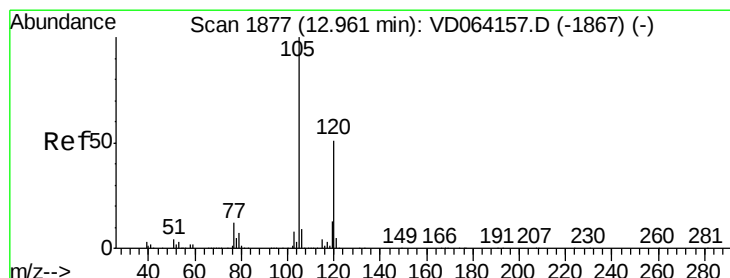
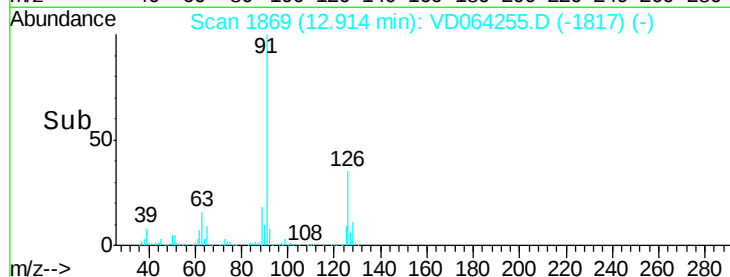
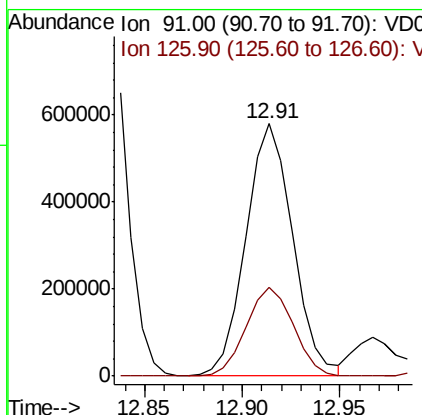
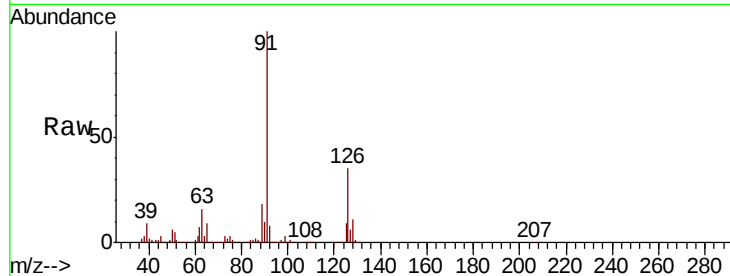
#79
2-Chlorotoluene
Concen: 49.923 ug/l
RT: 12.91 min Scan# 1869
Delta R.T. 0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 963306
Ion Ratio Lower Upper
91 100
126 35.5 17.7 53.1

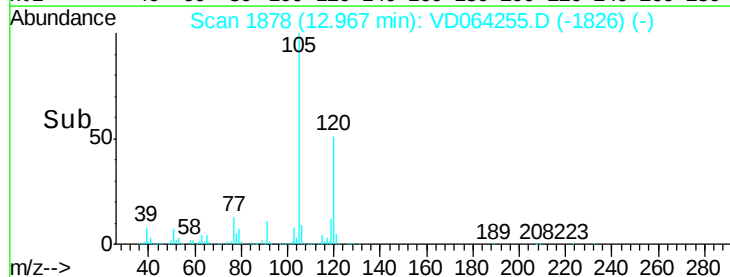
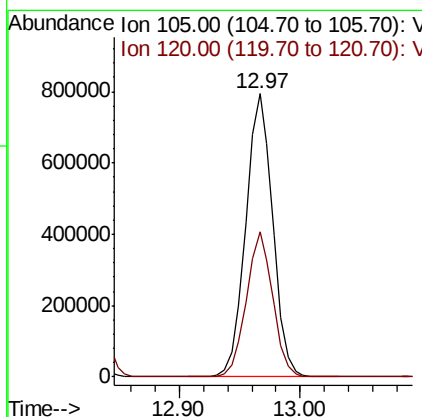
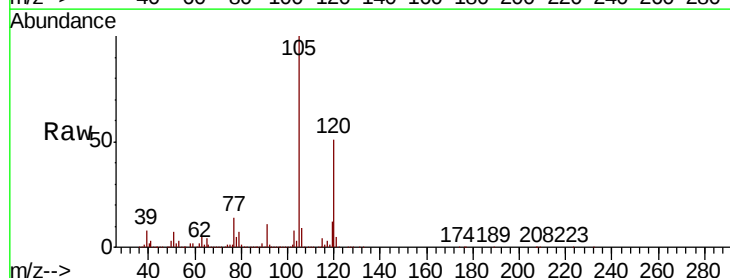
Manual Integrations
APPROVED

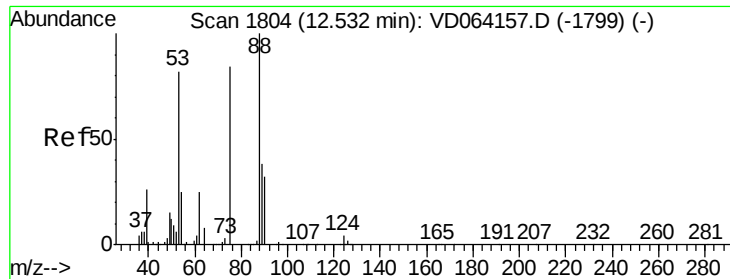
MMDadoda
11/20/2019 1:11:41 PM



#80
1,3,5-Trimethylbenzene
Concen: 50.050 ug/l
RT: 12.97 min Scan# 1878
Delta R.T. 0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion: 105 Resp: 1230260
Ion Ratio Lower Upper
105 100
120 50.2 25.4 76.4





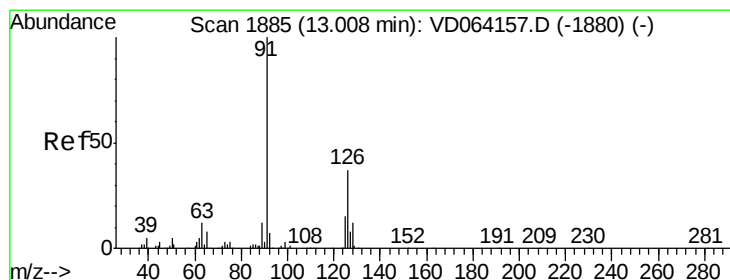
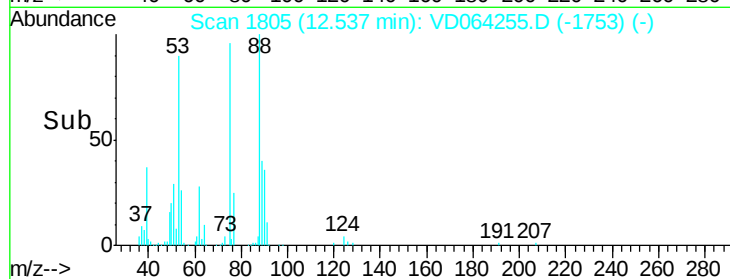
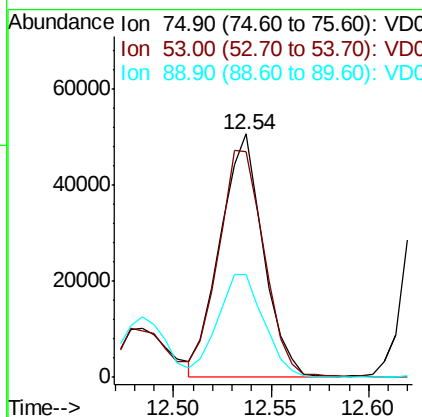
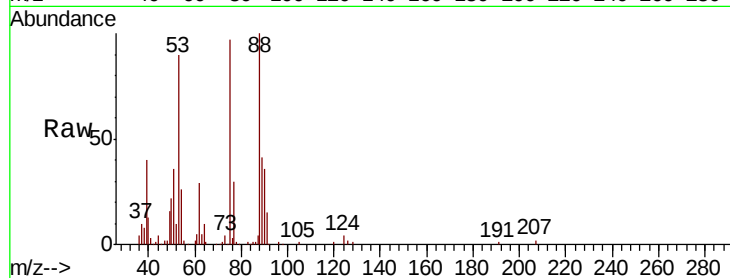
#81
trans-1,4-Dichloro-2-butene
Concen: 46.605 ug/l
RT: 12.54 min Scan# 1805
Delta R.T. 0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	101.5	79.4	119.0
89	45.8	36.6	55.0

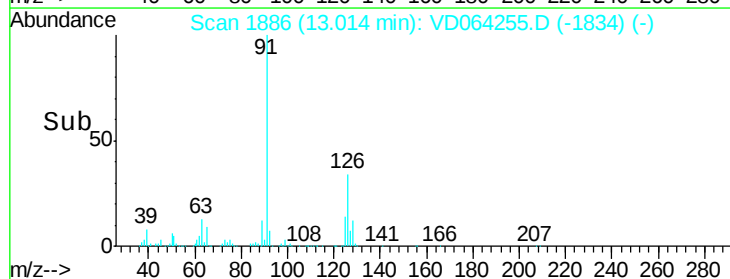
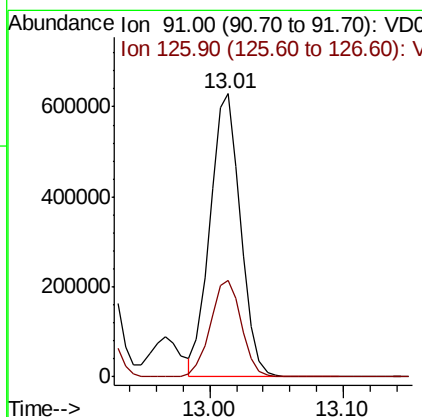
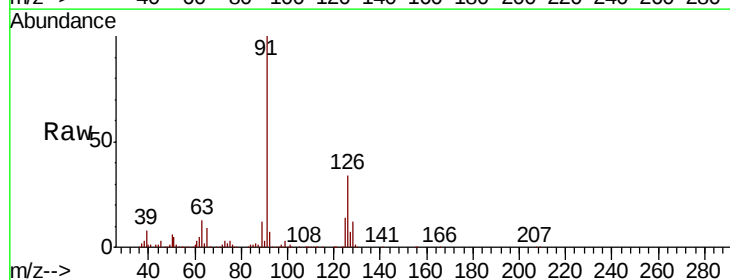
Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM



#82
4-Chlorotoluene
Concen: 49.951 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.8	53.4





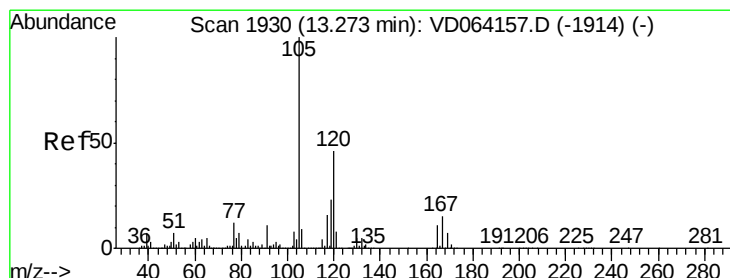
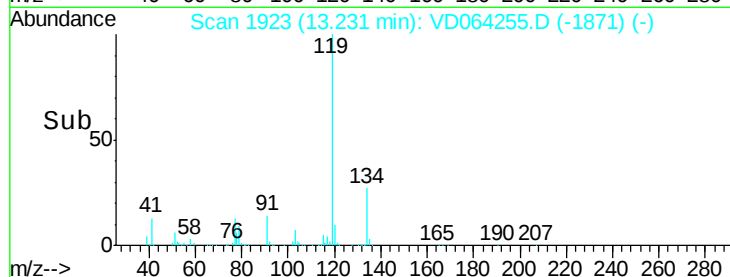
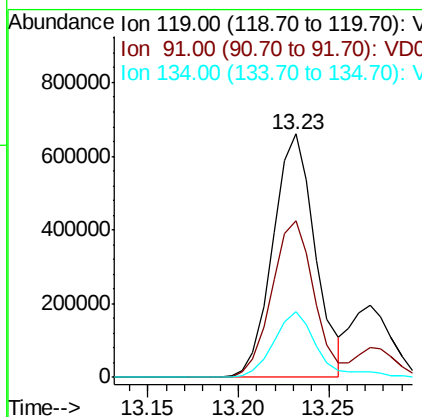
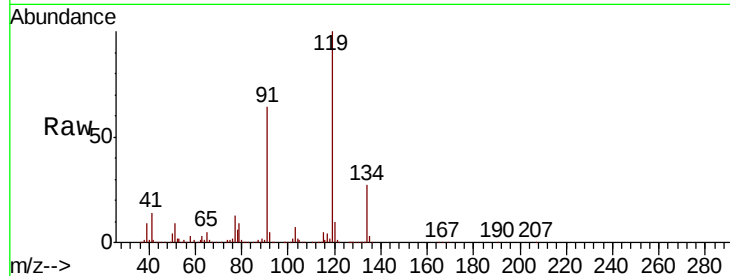
#83
tert-Butylbenzene
Concen: 49.637 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.0	31.8	95.4
134	27.9	13.7	41.0

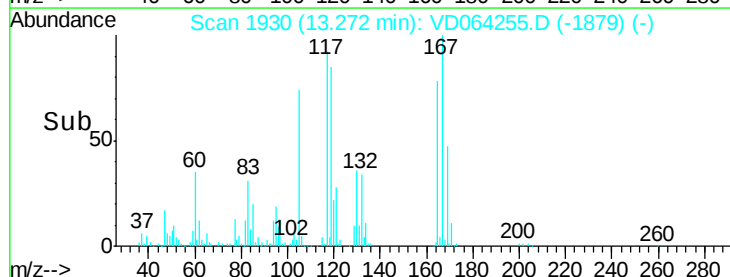
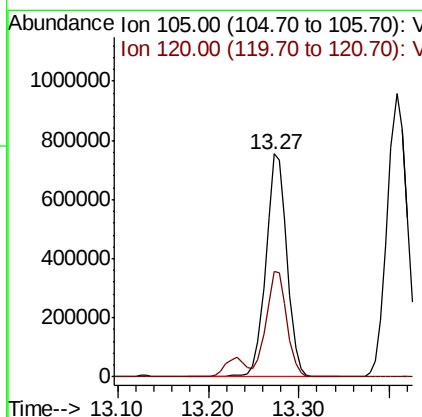
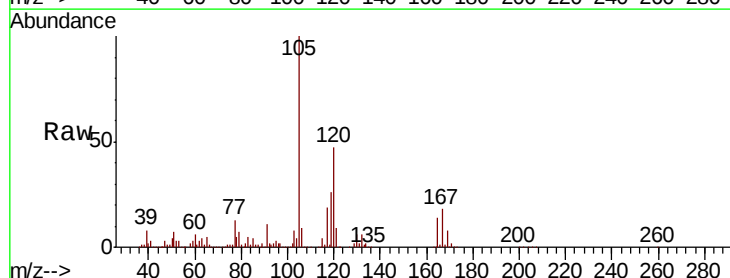
Manual Integrations
APPROVED

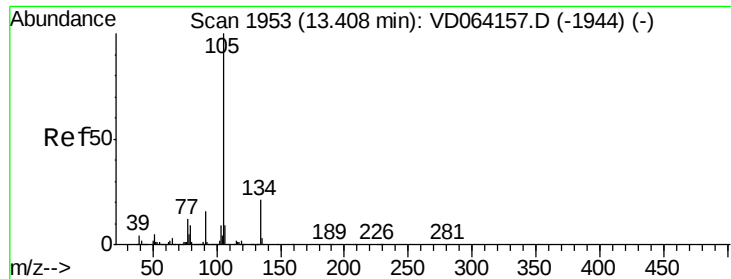
MMDadoda
11/20/2019 1:11:41 PM



#84
1,2,4-Trimethylbenzene
Concen: 50.252 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.3	69.8





#85

sec-Butylbenzene

Concen: 50.970 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. -0.00 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

Instrument :

MSVOA_D

ClientSampleID :

VSTDCCC050

Tot Ion:105 Resp: 1483787

Ion Ratio Lower Upper

105 100

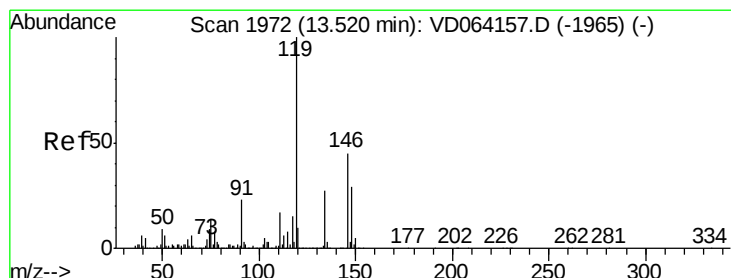
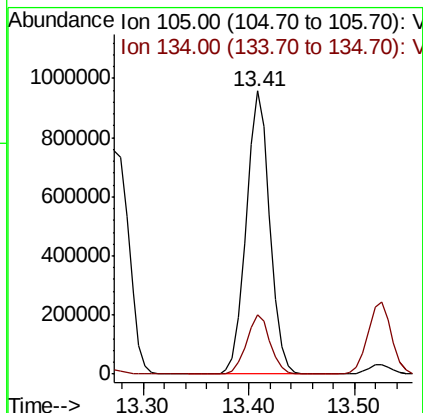
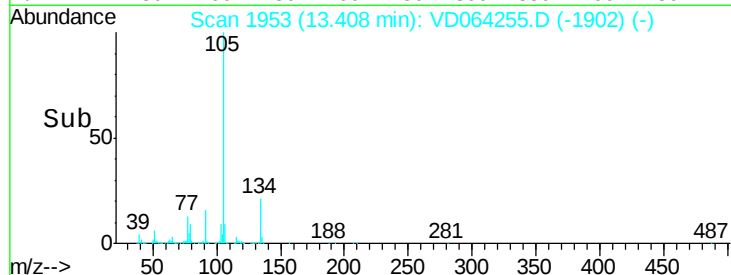
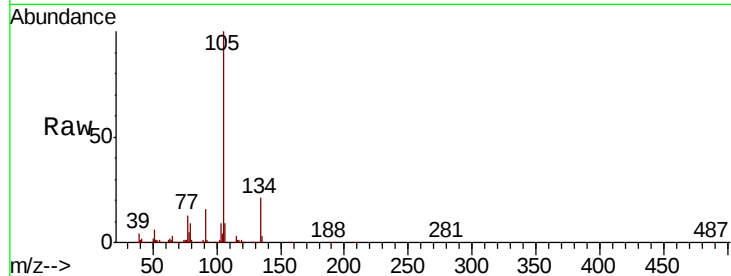
134 21.1 10.7 31.9

Manual Integrations

APPROVED

MMDadoda

11/20/2019 1:11:41 PM



#86

p-Isopropyltoluene

Concen: 50.674 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.01 min

Lab File: VD064255.D

Acq: 18 Nov 2019 10:29

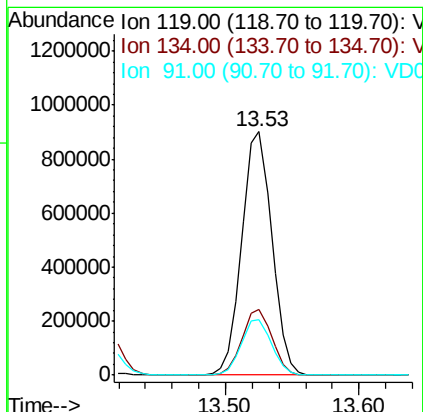
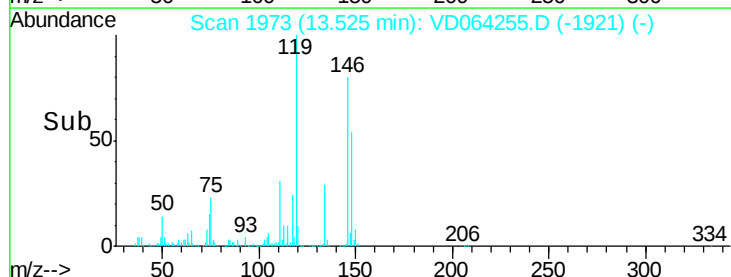
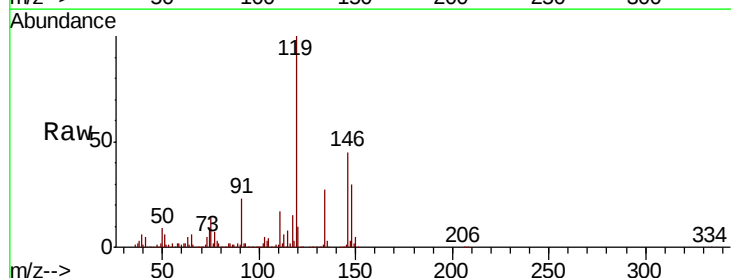
Tgt Ion:119 Resp: 1402445

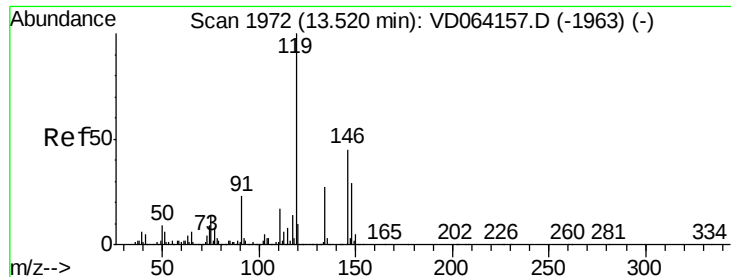
Ion Ratio Lower Upper

119 100

134 27.0 13.5 40.5

91 23.0 11.5 34.4





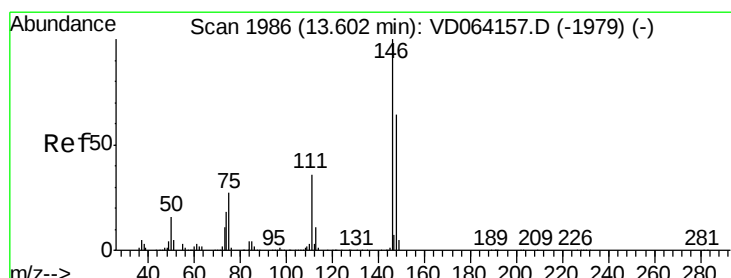
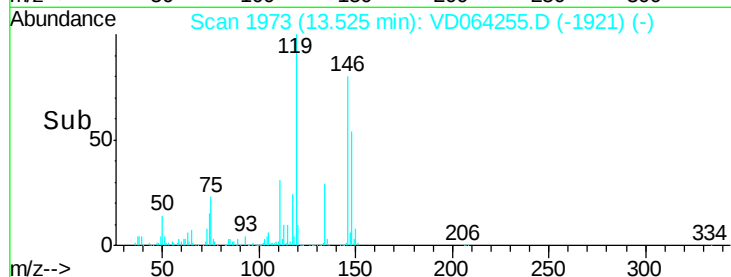
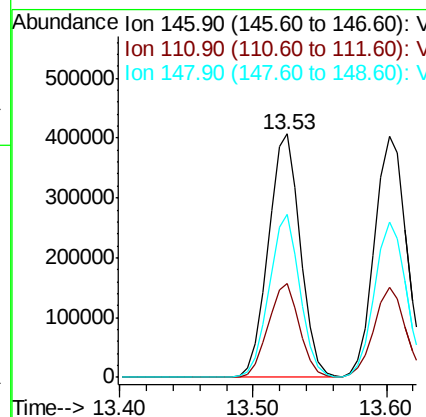
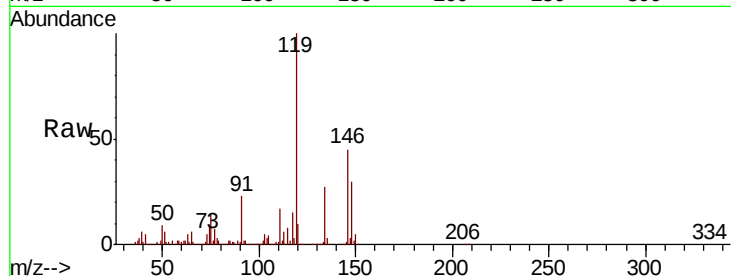
#87
 1,3-Dichlorobenzene
 Concen: 50.080 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.01 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.9	56.9
148	64.5	32.1	96.5

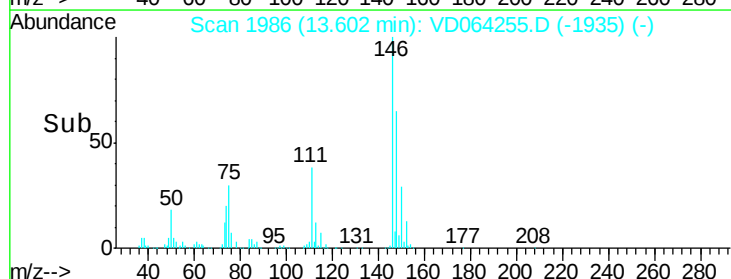
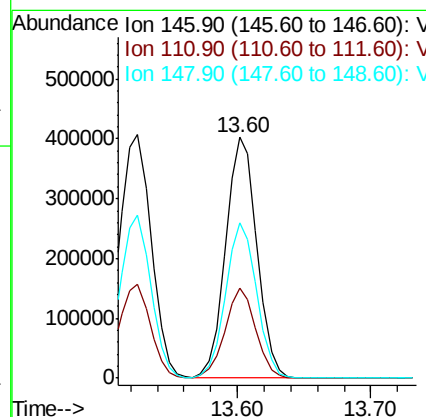
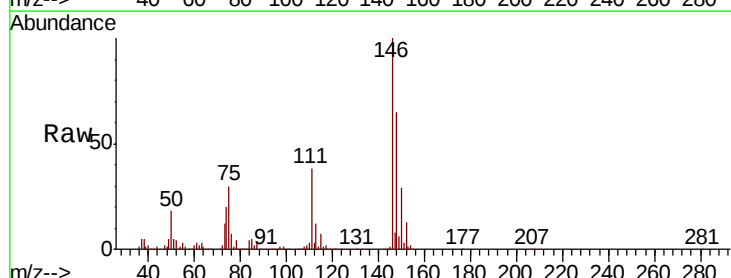
Manual Integrations
 APPROVED

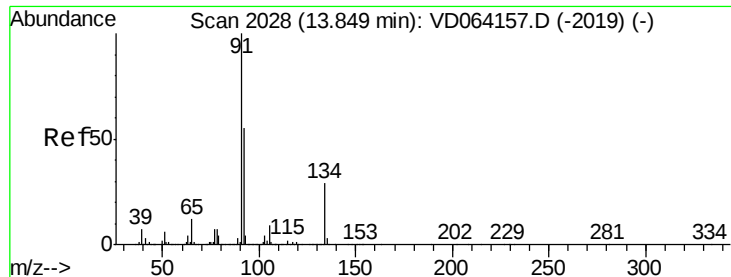
MMDadoda
 11/20/2019 1:11:41 PM



#88
 1,4-Dichlorobenzene
 Concen: 50.220 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. -0.00 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.9	18.1	54.4
148	64.2	31.9	95.7





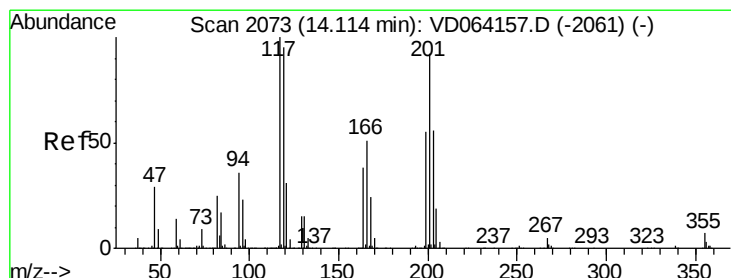
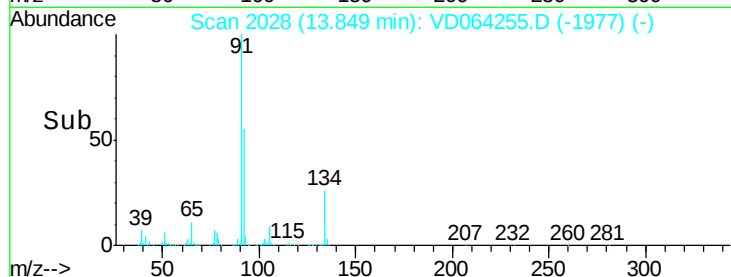
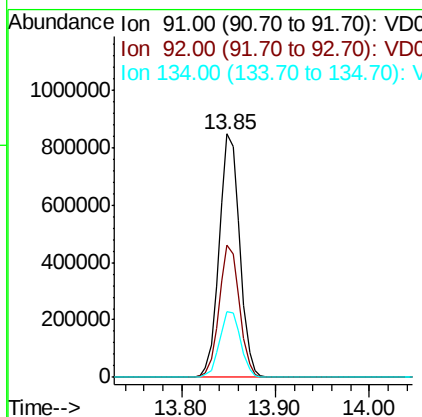
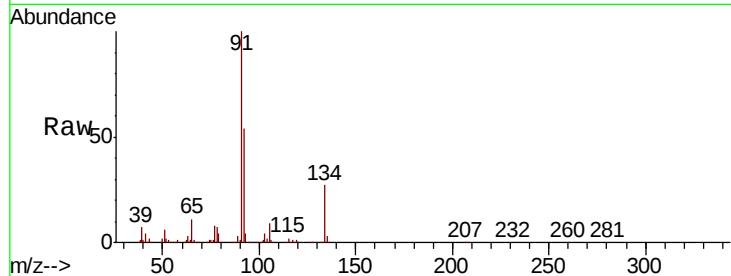
#89
n-Butylbenzene
Concen: 51.460 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. -0.00 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.3	81.8
134	27.7	14.1	42.4

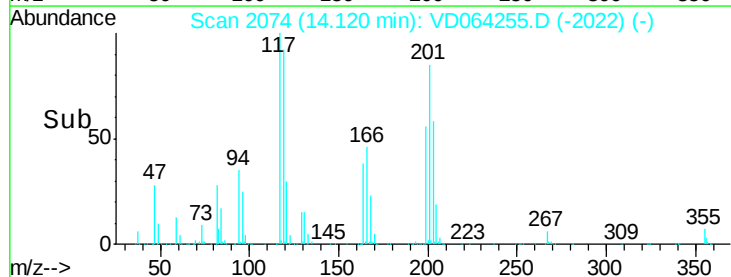
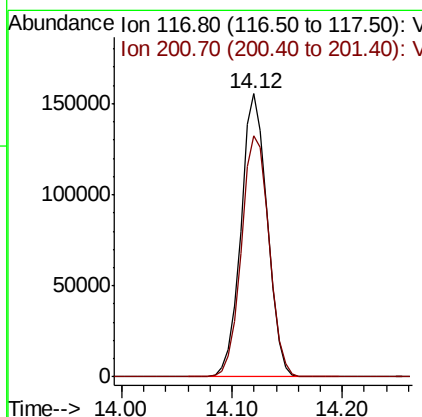
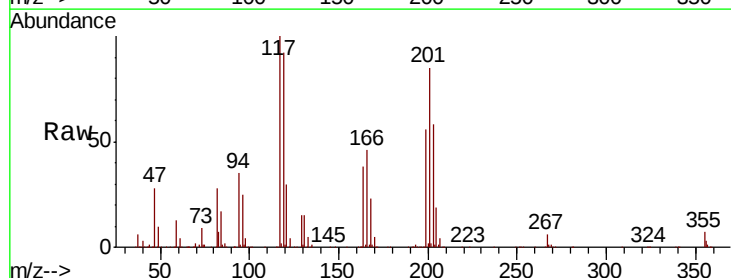
Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM



#90
Hexachloroethane
Concen: 50.899 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.5	45.8	137.4





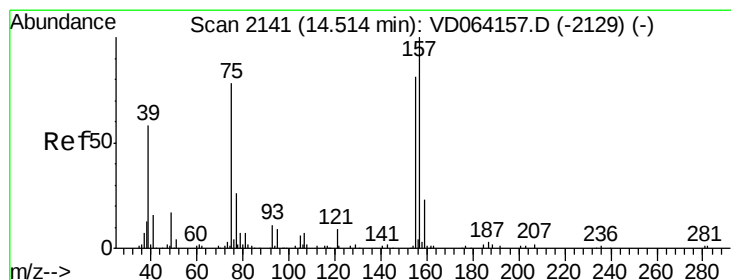
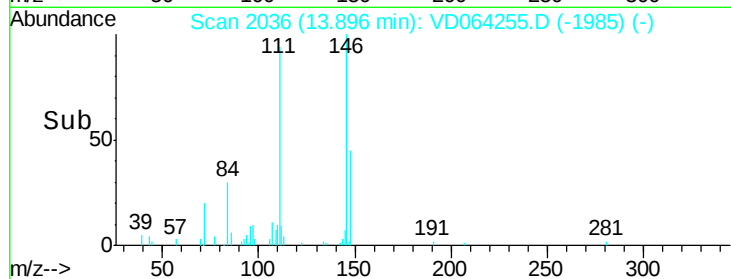
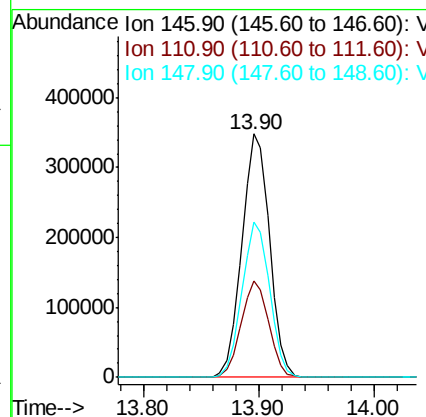
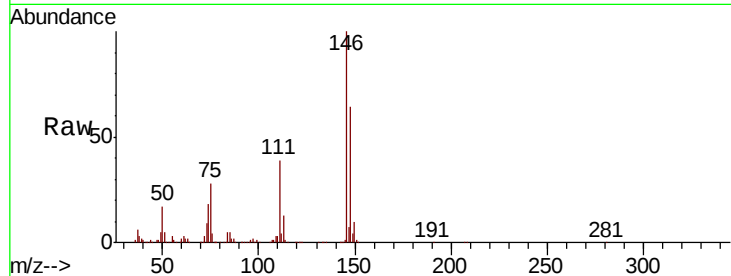
#91
 1,2-Dichlorobenzene
 Concen: 50.559 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. -0.00 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.7	59.0
148	64.0	32.3	96.8

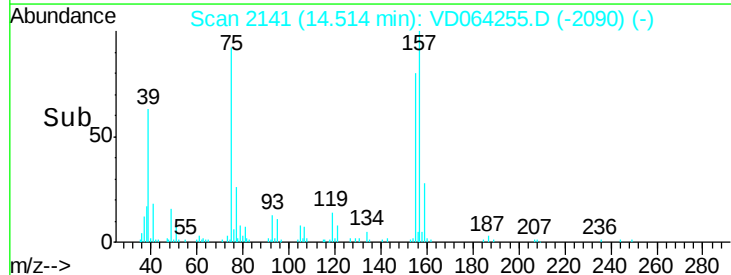
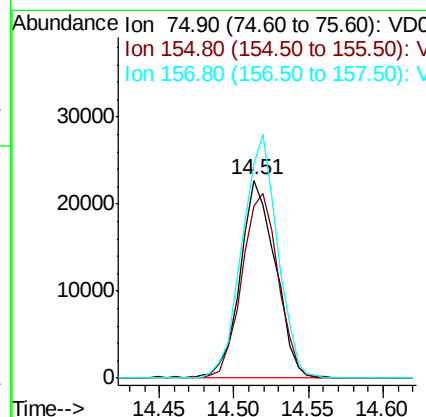
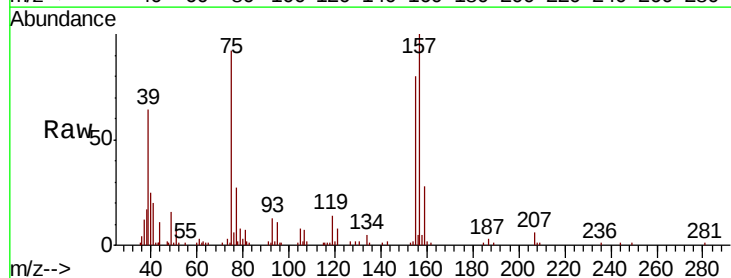
Manual Integrations
 APPROVED

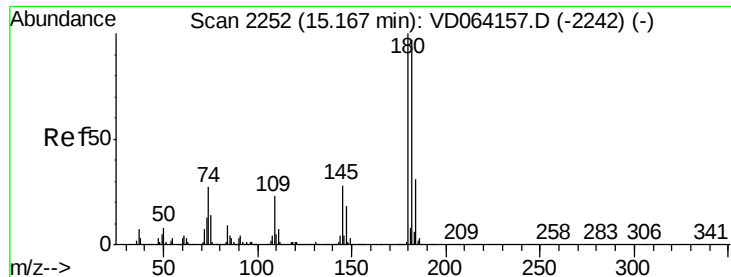
MMDadoda
 11/20/2019 1:11:41 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 46.331 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. -0.00 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.7	48.0	144.0
157	123.2	61.5	184.4





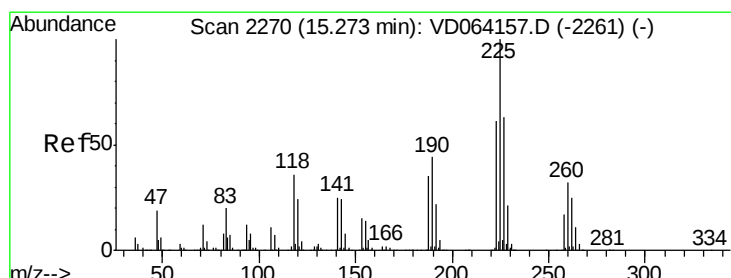
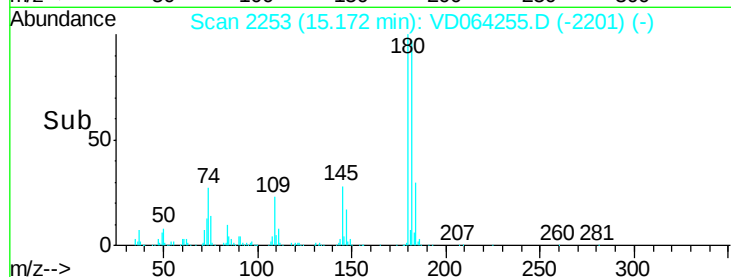
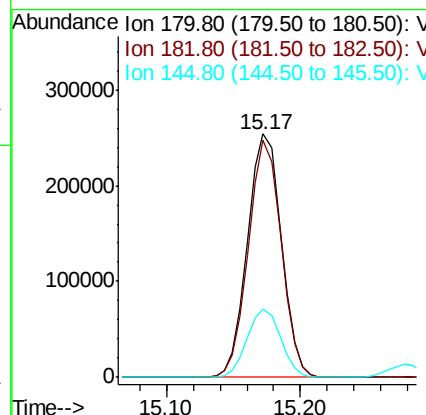
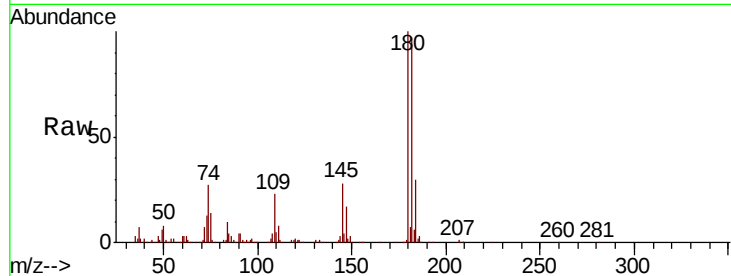
#93
 1,2,4-Trichlorobenzene
 Concen: 50.612 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.01 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	445803		
182	94.3	47.5	142.5	
145	28.0	14.2	42.6	

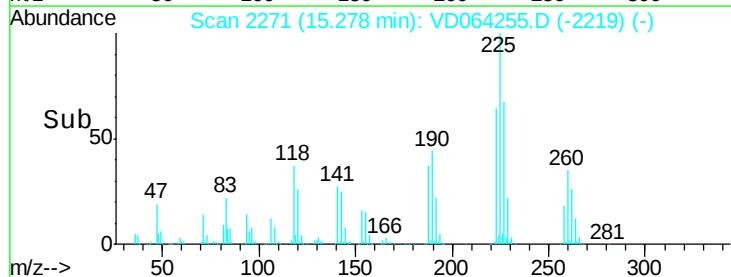
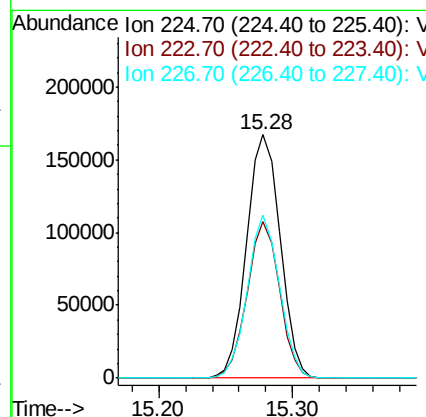
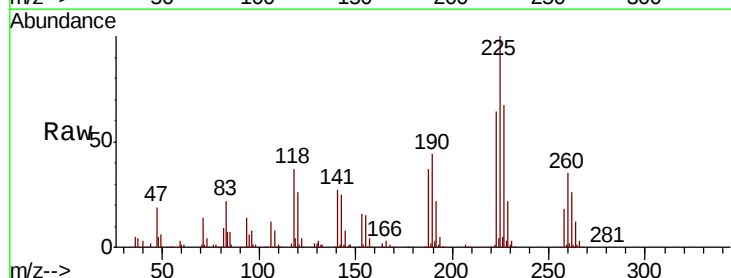
Manual Integrations
 APPROVED

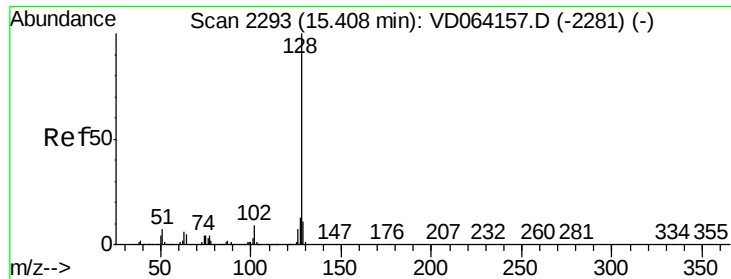
MMDadoda
 11/20/2019 1:11:41 PM



#94
 Hexachlorobutadiene
 Concen: 51.036 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.01 min
 Lab File: VD064255.D
 Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	290357		
223	61.9	31.1	93.3	
227	64.0	31.5	94.5	





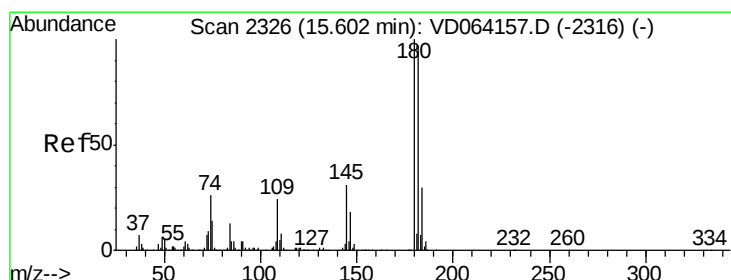
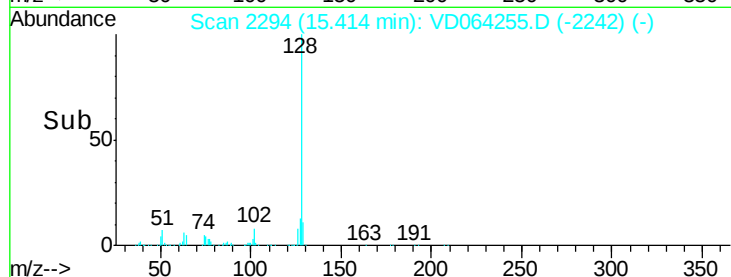
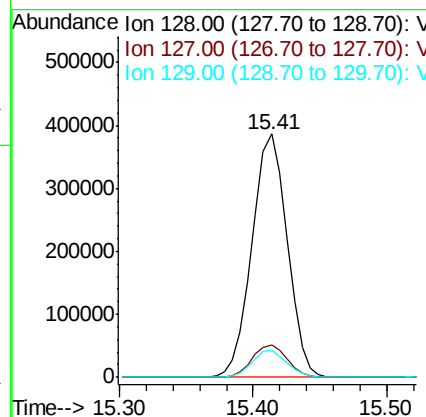
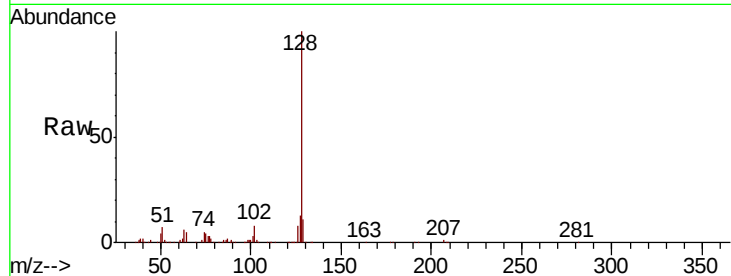
#95
Naphthalene
Concen: 48.801 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	11.0	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
11/20/2019 1:11:41 PM



#96
1,2,3-Trichlorobenzene
Concen: 50.071 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.01 min
Lab File: VD064255.D
Acq: 18 Nov 2019 10:29

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.1	48.3	144.9
145	29.9	15.3	45.8

