

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102820\
 Data File : VV019140.D
 Acq On : 28 Oct 2020 17:33
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.0µL/5.0mL/100µL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

MMDadoda
 10/29/2020 2:58:24 PM

Quant Time: Oct 29 03:57:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 29 03:08:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	220747	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	215045	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	108626	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	73265	36.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	73.06%
7) Chloroethane-d5	1.58	69	65257	40.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	80.86%
11) 1,1-Dichloroethene-d2	2.12	63	123939	33.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.00%
21) 2-Butanone-d5	3.92	46	114959	85.24	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	85.24%
24) Chloroform-d	4.37	84	161183	45.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.90%
26) 1,2-Dichloroethane-d4	5.06	65	115193	48.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.70%
32) Benzene-d6	5.07	84	302119	45.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.86%
36) 1,2-Dichloropropane-d6	6.09	67	90805	42.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	85.22%
41) Toluene-d8	7.34	98	269933	45.89	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.78%
43) trans-1,3-Dichloropropene-	7.64	79	48618	44.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.06%
47) 2-Hexanone-d5	8.11	63	83025	89.62	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	89.62%
57) 1,1,2,2-Tetrachloroethane-	10.23	84	119142	42.01	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	84.02%
64) 1,2-Dichlorobenzene-d4	11.65	152	114889	50.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.86%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	3674	2.137	ug/L	100
3) Chloromethane	1.25	50	4363	2.040	ug/L	93
5) Vinyl chloride	1.32	62	4633	2.199	ug/L #	58
6) Bromomethane	1.53	94	3242	2.690	ug/L	94
8) Chloroethane	1.60	64	3085	2.335	ug/L	92
9) Trichlorofluoromethane	1.77	101	7241	2.613	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4029	2.734	ug/L	91
12) 1,1-Dichloroethene	2.13	96	4457	3.023	ug/L #	1
13) Acetone	2.21	43	5112m	5.592	ug/L	
14) Carbon disulfide	2.31	76	10558	2.172	ug/L	97
15) Methyl Acetate	2.46	43	4287m	2.232	ug/L	
16) Methylene chloride	2.52	84	4671	2.718	ug/L	88
17) trans-1,2-Dichloroethene	2.78	96	3912	2.511	ug/L	92
18) Methyl tert-butyl Ether	2.79	73	13316	2.636	ug/L	98
19) 1,1-Dichloroethane	3.22	63	7404	2.354	ug/L	98
20) cis-1,2-Dichloroethene	3.94	96	4275	2.566	ug/L	92
22) 2-Butanone	4.02	43	4494m	3.586	ug/L	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102820\
 Data File : VV019140.D
 Acq On : 28 Oct 2020 17:33
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.0µ/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

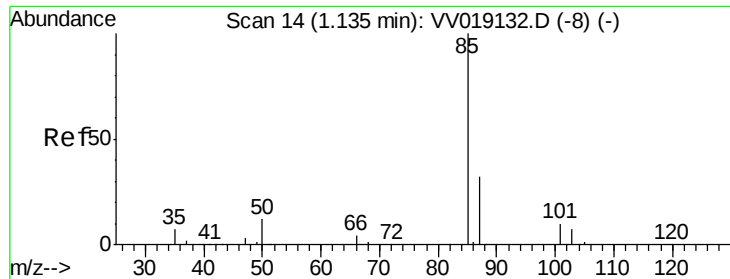
MMDadoda
 10/29/2020 2:58:24 PM

Quant Time: Oct 29 03:57:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 29 03:08:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.29	128	2216	2.613	uq/L	79
25) Chloroform	4.41	83	9024	2.912	uq/L	98
27) 1,2-Dichloroethane	5.17	62	6381	2.481	uq/L #	94
29) Cyclohexane	4.70	56	4275	1.661	uq/L #	81
30) 1,1,1-Trichloroethane	4.64	97	7128	2.662	uq/L	95
31) Carbon tetrachloride	4.86	117	6073	2.602	uq/L	96
33) Benzene	5.13	78	16055m	2.439	uq/L	
34) Trichloroethene	5.94	95	4336	2.606	uq/L	93
35) Methylcyclohexane	6.15	83	4390	1.929	uq/L	88
37) 1,2-Dichloropropane	6.20	63	3974	2.193	uq/L #	87
38) Bromodichloromethane	6.54	83	5716	2.493	uq/L #	78
39) cis-1,3-Dichloropropene	7.05	75	6246	2.332	uq/L	88
40) 4-Methyl-2-pentanone	7.25	43	10243	4.189	uq/L #	93
42) Toluene	7.41	91	16348	2.419	uq/L	98
44) trans-1,3-Dichloropropene	7.68	75	6909m	2.600	uq/L	
45) 1,1,2-Trichloroethane	7.87	97	4266	2.665	uq/L	93
46) Tetrachloroethene	8.00	164	3314	2.596	uq/L	93
48) 2-Hexanone	8.17	43	8942	4.739	uq/L #	96
49) Dibromochloromethane	8.27	129	4698	2.685	uq/L	98
50) 1,2-Dibromoethane	8.38	107	4141	2.493	uq/L #	90
51) Chlorobenzene	8.90	112	11113	2.564	uq/L	98
52) Ethylbenzene	9.04	91	16890	2.311	uq/L	96
53) m,p-Xylene	9.16	106	5766	2.156	uq/L	92
54) o-xylene	9.57	106	6371	2.474	uq/L	90
55) Styrene	9.59	104	10067	2.204	uq/L	97
56) Isopropylbenzene	9.95	105	14468	2.136	uq/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.26	83	6641	2.521	uq/L #	93
59) 1,2,3-Trichloropropane	10.30	75	5386	2.542	uq/L	93
61) Bromoform	9.76	173	3297	2.695	uq/L	96
62) 1,3-Dichlorobenzene	11.21	146	8537	2.619	uq/L	97
63) 1,4-Dichlorobenzene	11.29	146	9177	2.694	uq/L	97
65) 1,2-Dichlorobenzene	11.67	146	9320	2.836	uq/L	93
66) 1,2-Dibromo-3-chloropropan	12.45	75	1509	2.599	uq/L	95
67) 1,3,5-Trichlorobenzene	12.67	180	6449	2.897	uq/L	98
68) 1,2,4-trichlorobenzene	13.29	180	5756	2.742	uq/L	95
69) Naphthalene	13.53	128	13635	2.108	uq/L	96
70) 1,2,3-Trichlorobenzene	13.77	180	5362	2.521	uq/L	98

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



#2

Dichlorodifluoromethane

Concen: 2.137 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion: 85 Resp: 3674

Ion Ratio Lower Upper

85 100

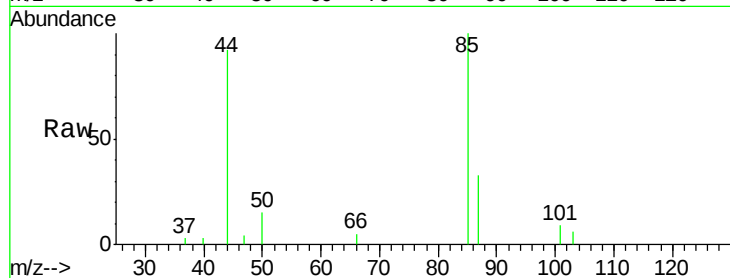
87 32.0 25.5 38.3

Manual Integrations

APPROVED

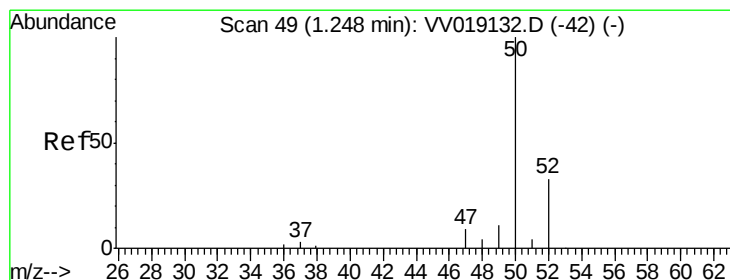
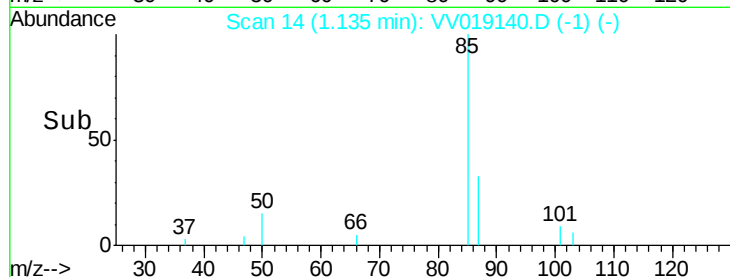
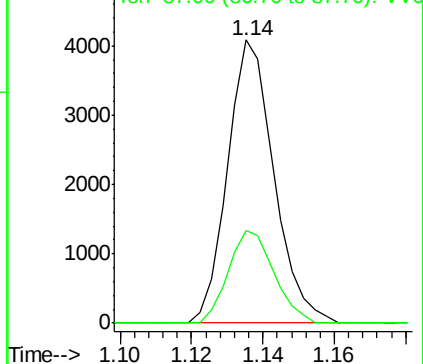
MMDadoda

10/29/2020 2:58:24 PM



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 2.040 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV019140.D

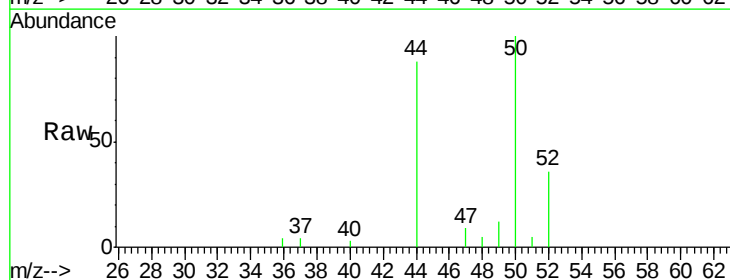
Acq: 28 Oct 2020 17:33

Tgt Ion: 50 Resp: 4363

Ion Ratio Lower Upper

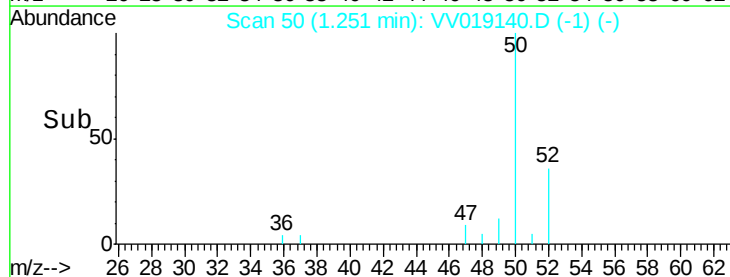
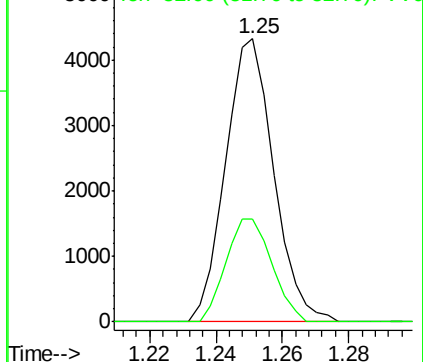
50 100

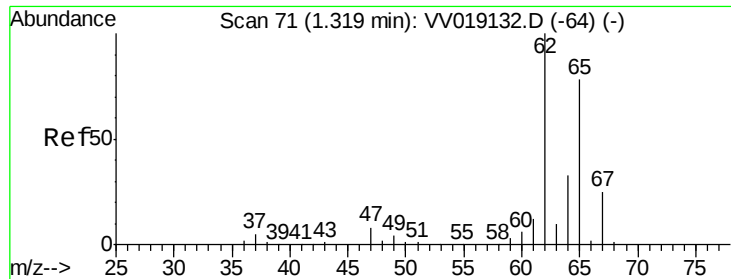
52 36.3 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.199 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Instrument :

MSVOA_V

ClientSampled :

MDL05

Tot Ion: 62 Resp: 4633

Ion Ratio Lower Upper

62 100

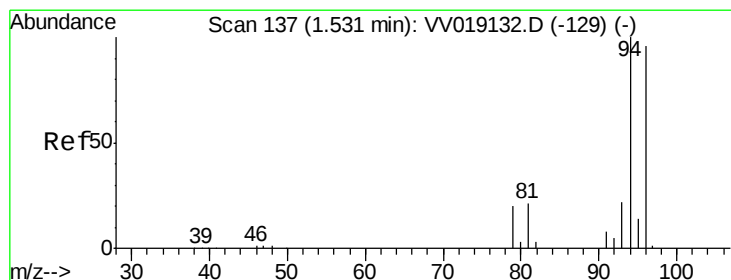
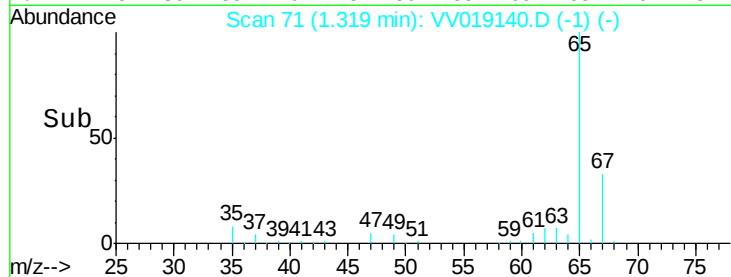
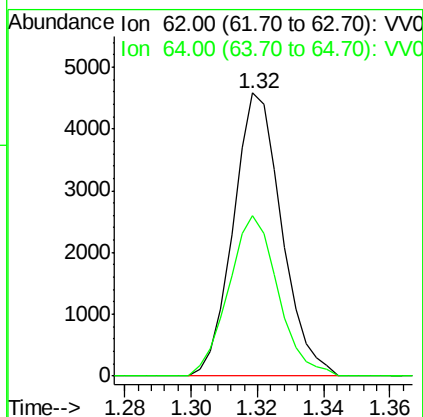
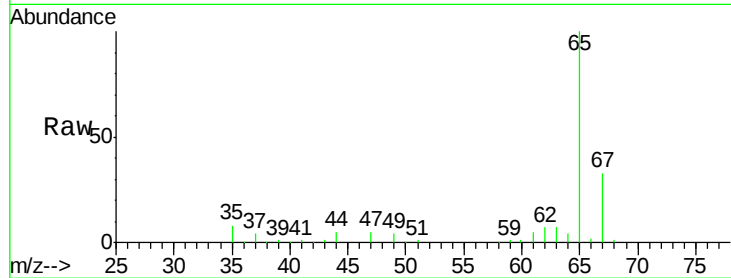
64 56.6 22.9 42.5#

Manual Integrations

APPROVED

MMDadoda

10/29/2020 2:58:24 PM



#6

Bromomethane

Concen: 2.690 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV019140.D

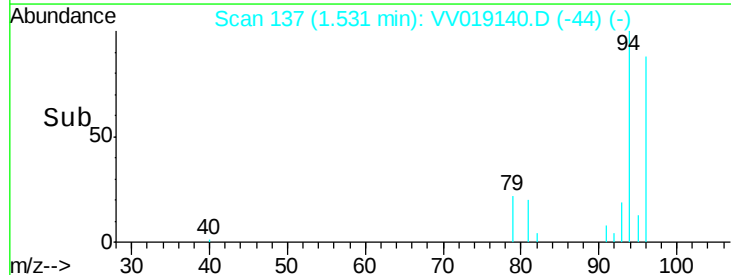
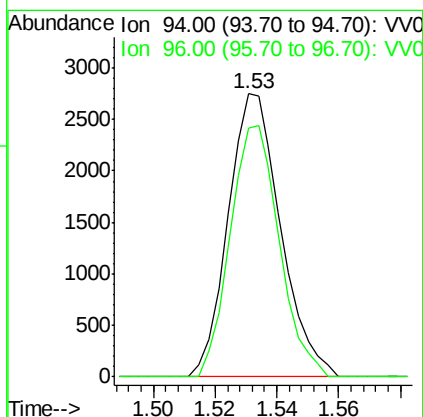
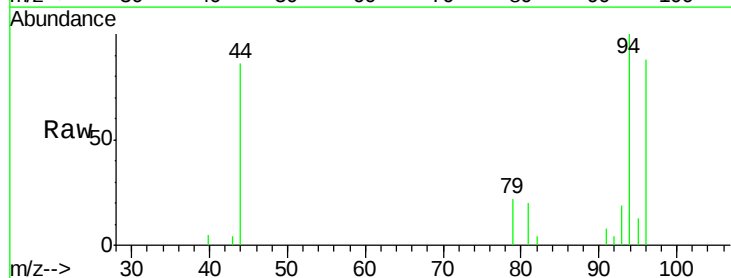
Acq: 28 Oct 2020 17:33

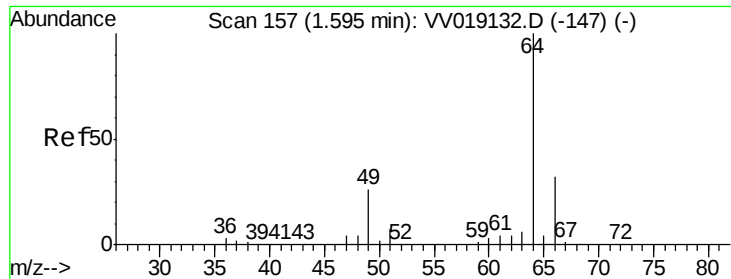
Tgt Ion: 94 Resp: 3242

Ion Ratio Lower Upper

94 100

96 87.7 65.3 121.3





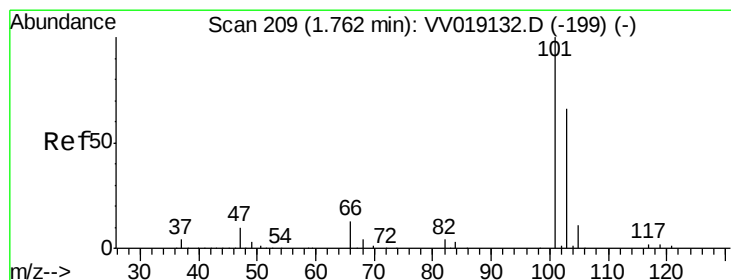
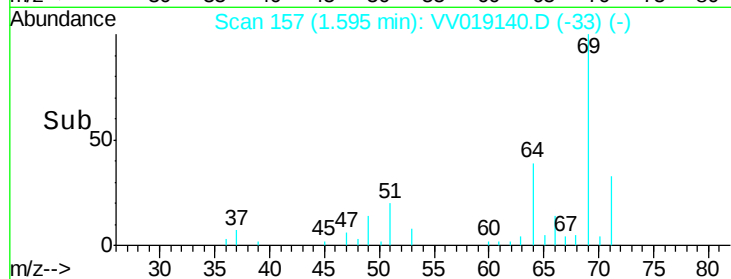
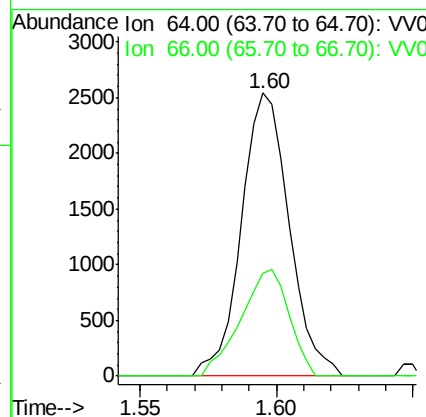
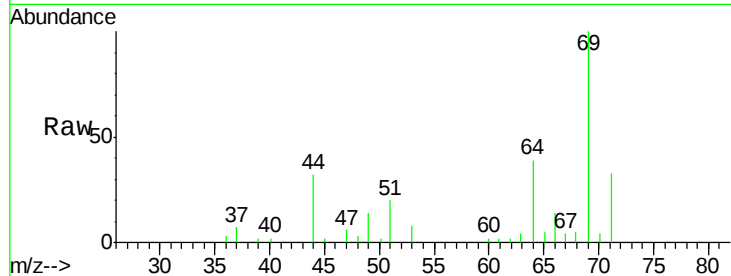
#8
Chloroethane
Concen: 2.335 ug/L
RT: 1.60 min Scan# 157
Delta R.T. -0.00 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
64	100		
66	36.4	22.5	41.9

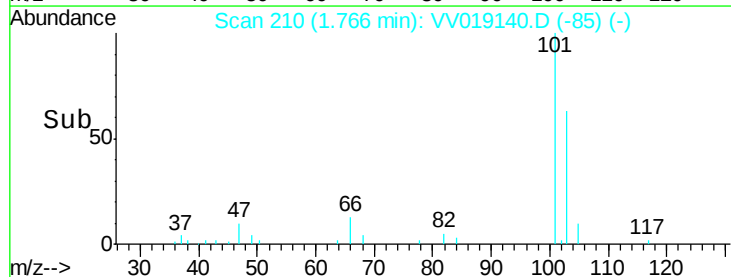
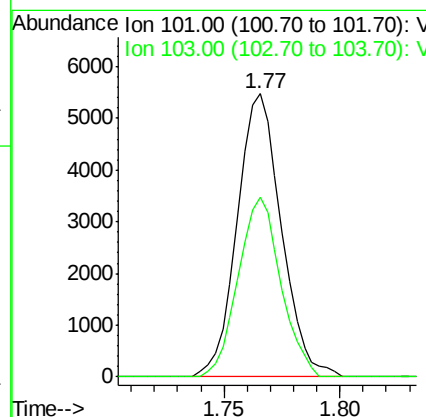
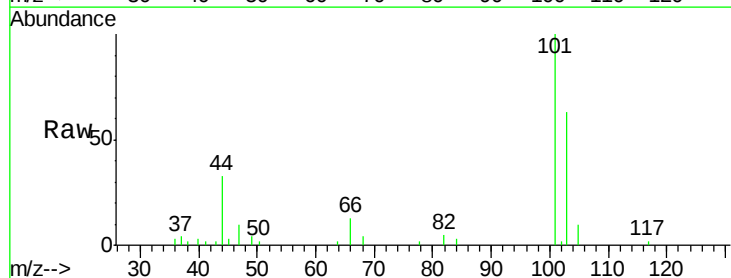
Manual Integrations
APPROVED

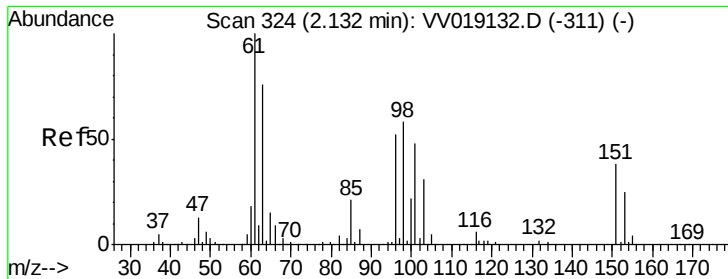
MMDadoda
10/29/2020 2:58:24 PM



#9
Trichlorofluoromethane
Concen: 2.613 ug/L
RT: 1.77 min Scan# 210
Delta R.T. 0.00 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Tgt Ion	Ratio	Lower	Upper
101	100		
103	61.1	51.7	77.5





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.734 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Instrument :

MSVOA_V

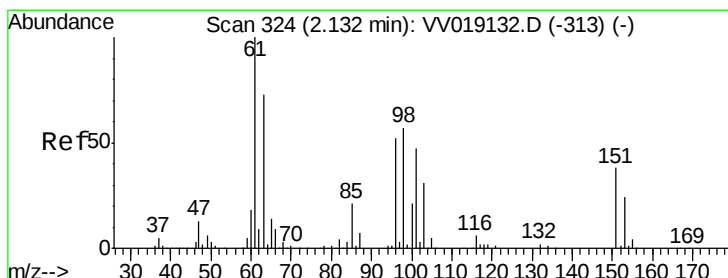
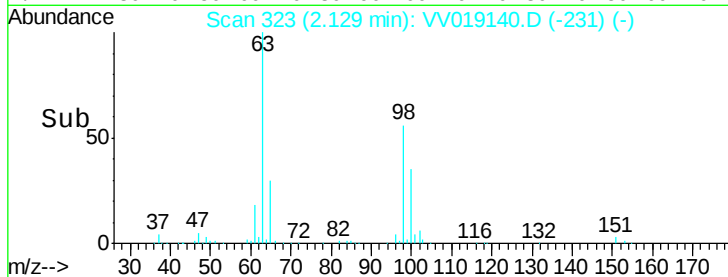
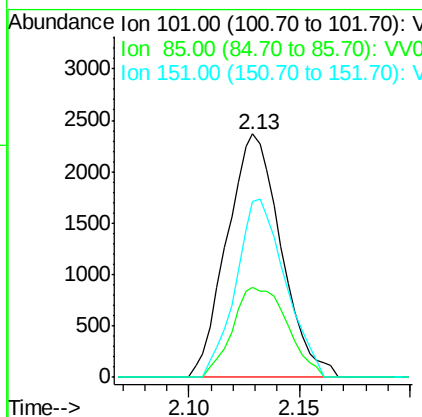
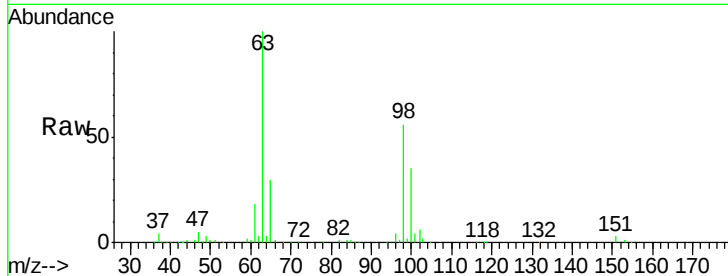
ClientSampleId :

MDL05

Tot Ion:	101	Resp:	4029
Ion Ratio	Lower	Upper	
101	100		
85	37.5	36.9	55.3
151	66.9	58.2	87.2

Manual Integrations
APPROVED

MMDadoda
10/29/2020 2:58:24 PM



#12

1,1-Dichloroethene

Concen: 3.023 ug/L

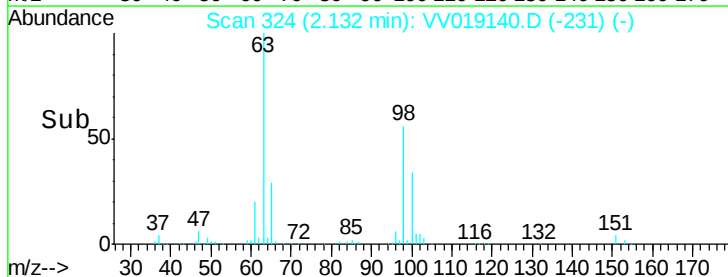
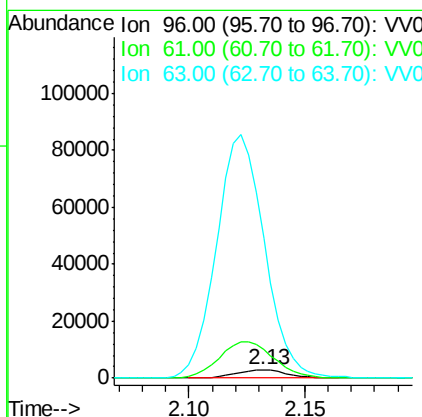
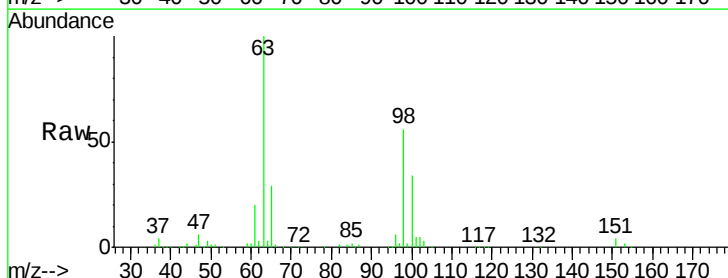
RT: 2.13 min Scan# 324

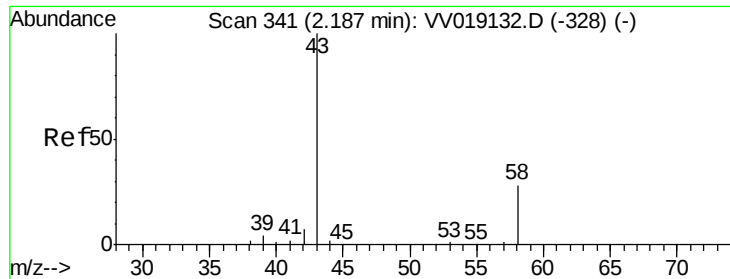
Delta R.T. -0.00 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Tgt Ion:	96	Resp:	4457
Ion Ratio	Lower	Upper	
96	100		
61	346.3	138.7	257.7#
63	1696.5	126.3	234.6#





#13

Acetone

Concen: 5.592 ug/L m

RT: 2.21 min Scan# 349

Delta R.T. 0.03 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Instrument :

MSVOA_V

ClientSampled :

MDL05

Tot Ion: 43 Resp: 5112

Ion Ratio Lower Upper

43 100

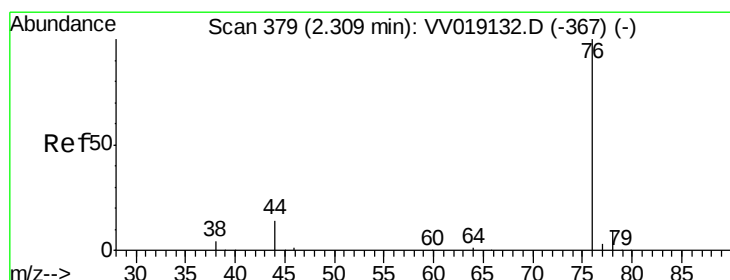
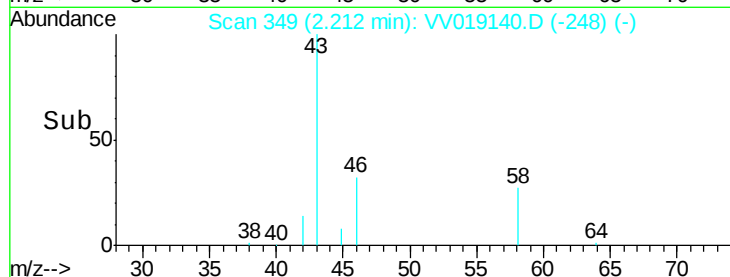
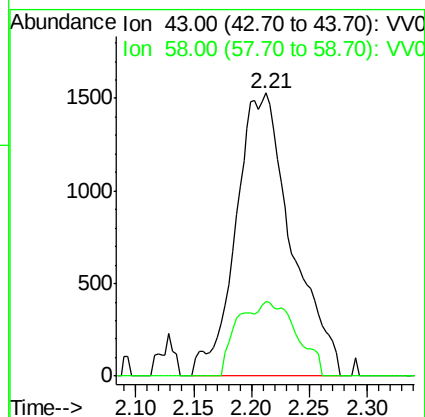
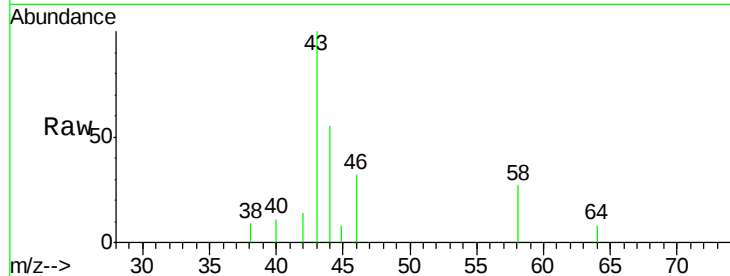
58 9.7 0.0 60.2

Manual Integrations

APPROVED

MMDadoda

10/29/2020 2:58:24 PM



#14

Carbon disulfide

Concen: 2.172 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV019140.D

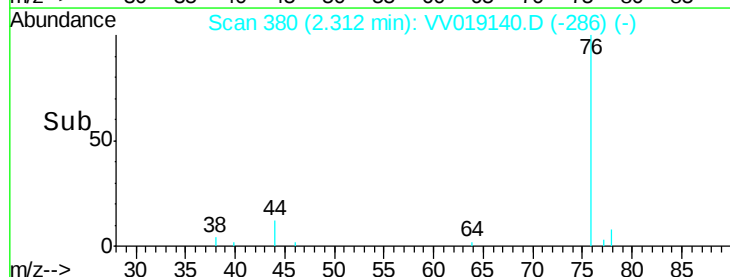
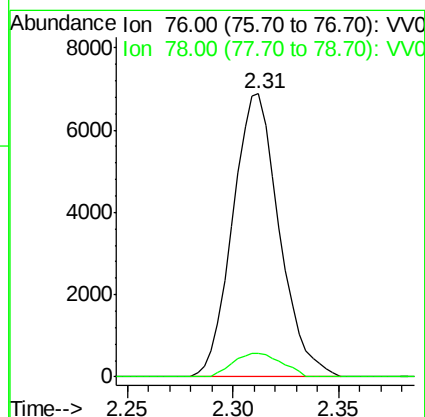
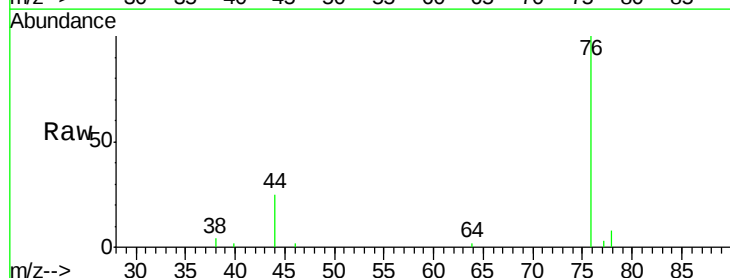
Acq: 28 Oct 2020 17:33

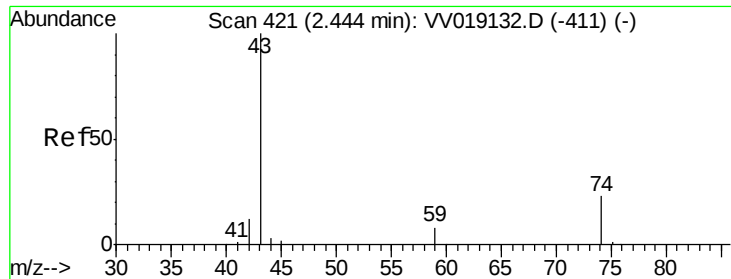
Tgt Ion: 76 Resp: 10558

Ion Ratio Lower Upper

76 100

78 8.2 7.4 11.0





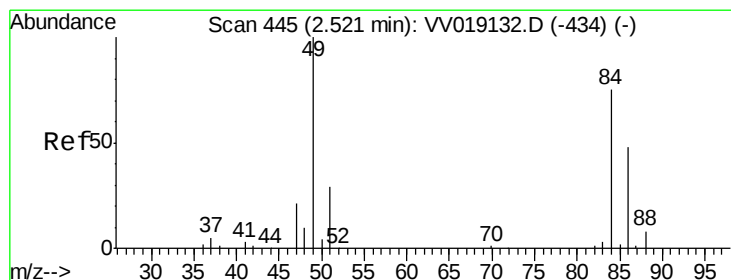
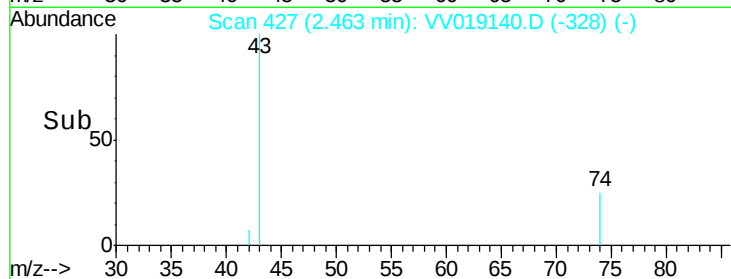
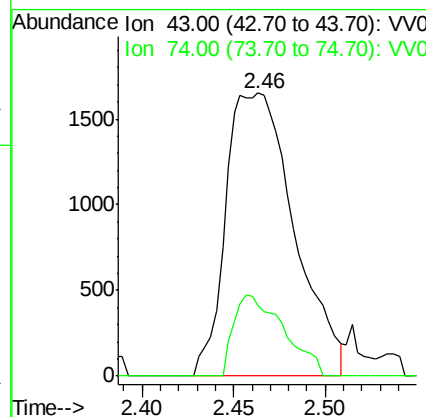
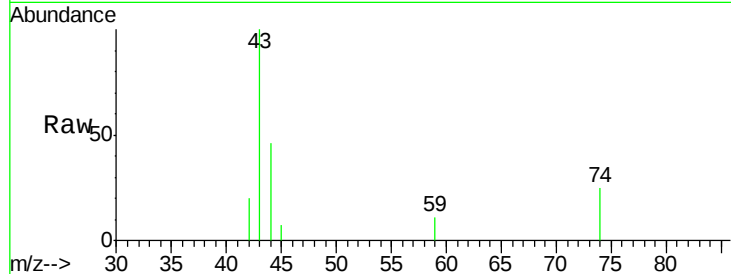
#15
Methvl Acetate
Concen: 2.232 ug/L m
RT: 2.46 min Scan# 427
Delta R.T. 0.02 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion: 43 Resp: 4287
Ion Ratio Lower Upper
43 100
74 13.7 16.4 24.6#

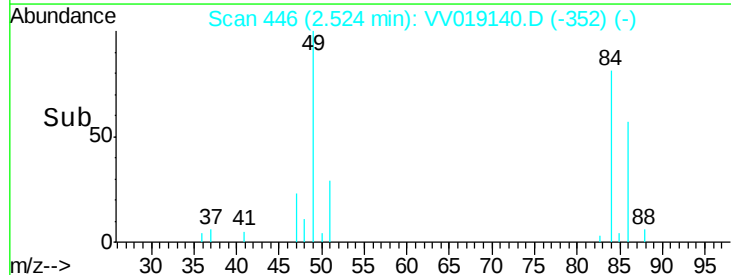
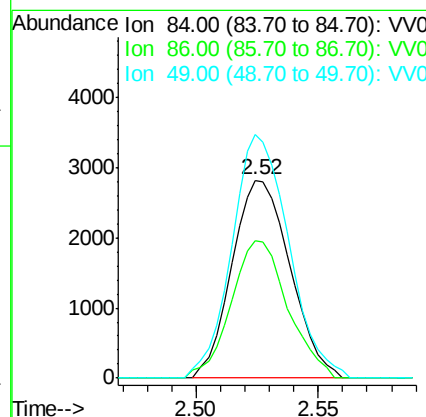
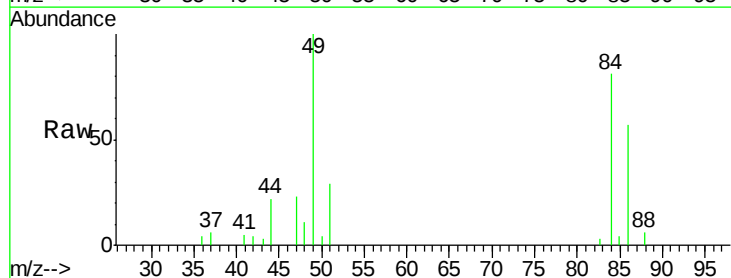
Manual Integrations
APPROVED

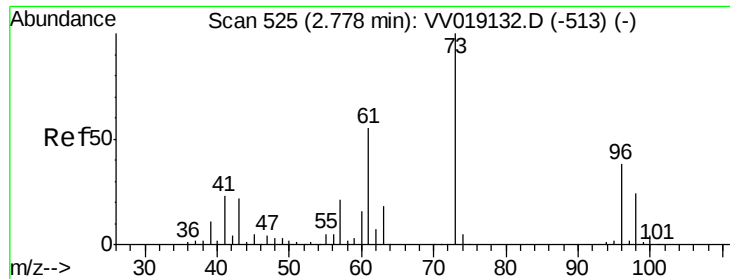
MMDadoda
10/29/2020 2:58:24 PM



#16
Methylene chloride
Concen: 2.718 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Tgt Ion: 84 Resp: 4671
Ion Ratio Lower Upper
84 100
86 69.6 44.2 82.2
49 123.1 98.0 182.0





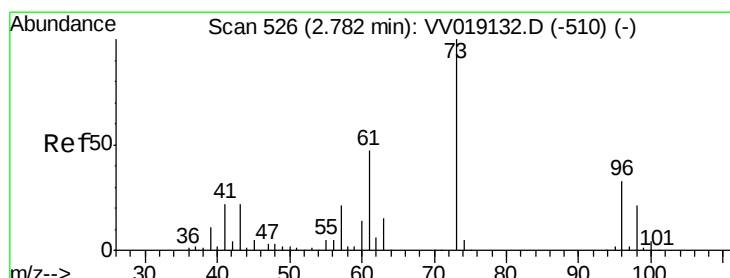
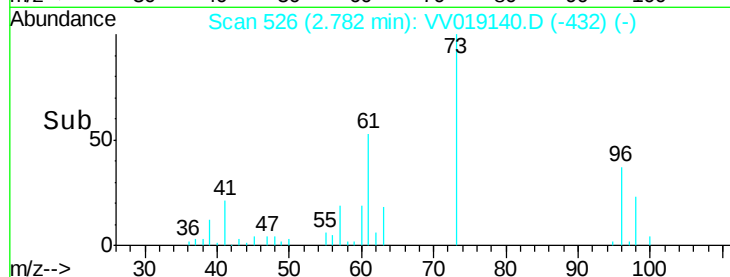
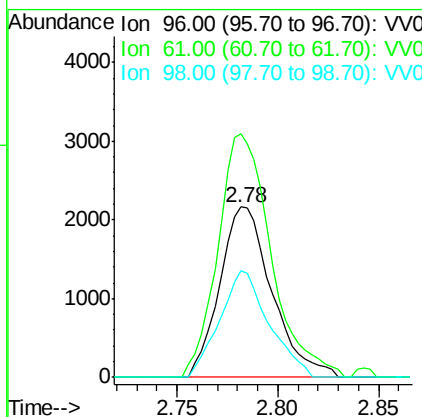
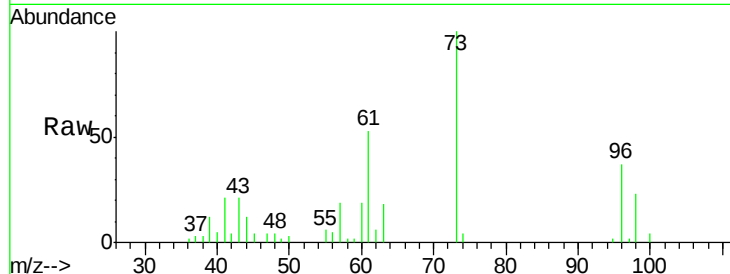
#17
trans-1,2-Dichloroethene
Concen: 2.511 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.00 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Instrument :
MSVOA_V
ClientSampled :
MDL05

Tot Ion	Ratio	Lower	Upper
96	100		
61	142.9	108.6	201.8
98	62.8	45.7	84.9

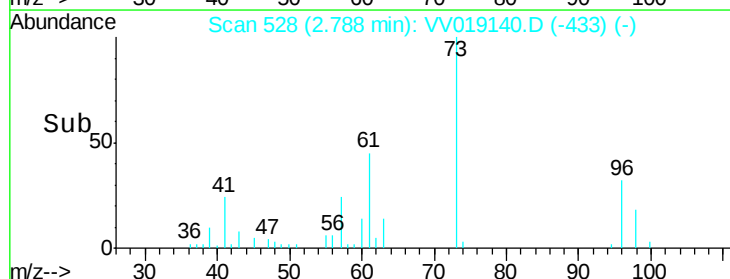
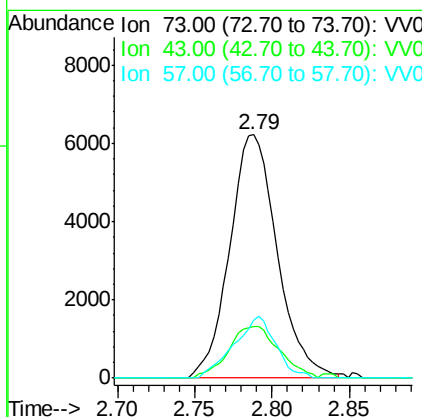
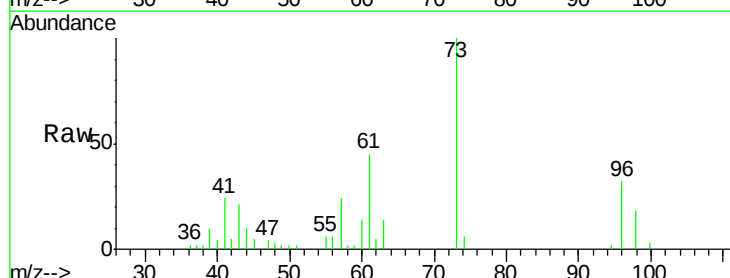
Manual Integrations
APPROVED

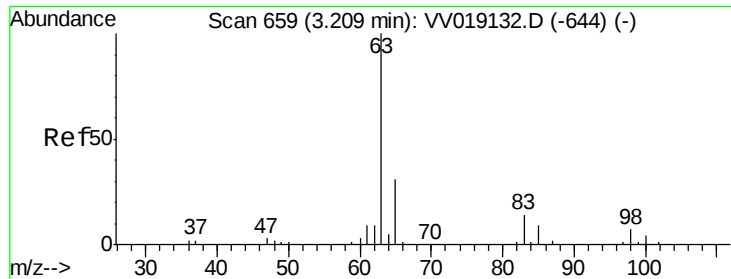
MMDadoda
10/29/2020 2:58:24 PM



#18
Methyl tert-butyl Ether
Concen: 2.636 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.01 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Tgt Ion	Ratio	Lower	Upper
73	100		
43	22.6	17.2	25.8
57	22.0	18.5	27.7





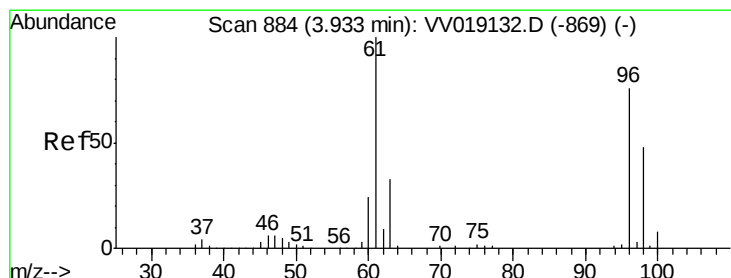
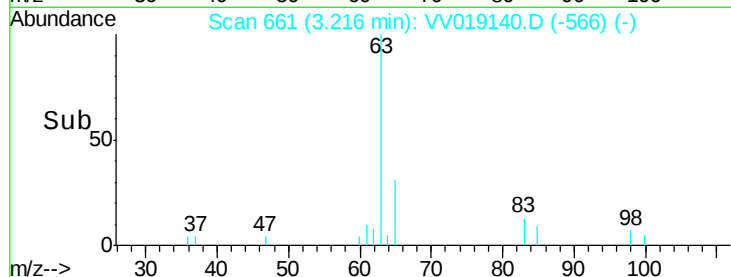
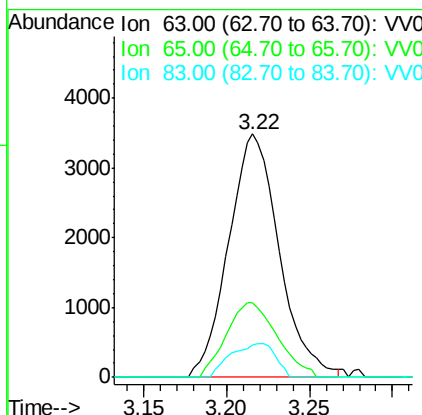
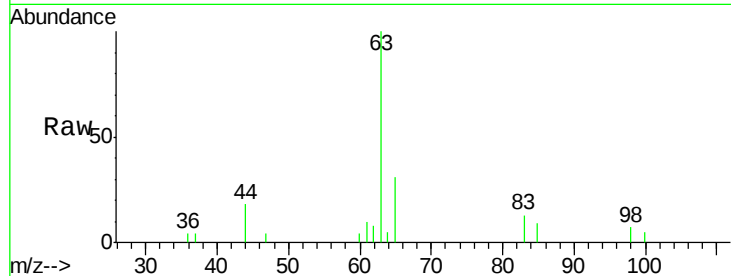
#19
 1,1-Dichloroethane
 Concen: 2.354 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.01 min
 Lab File: VV019140.D
 Acq: 28 Oct 2020 17:33

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.9	22.7	42.1
83	13.1	9.0	16.8

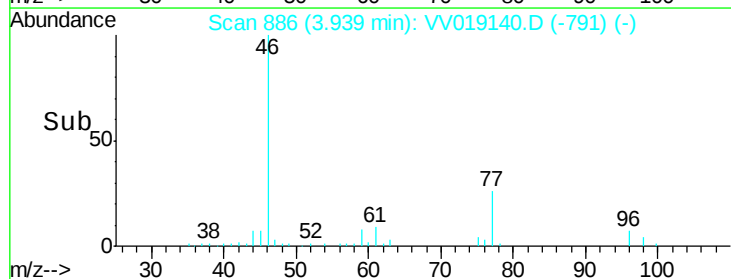
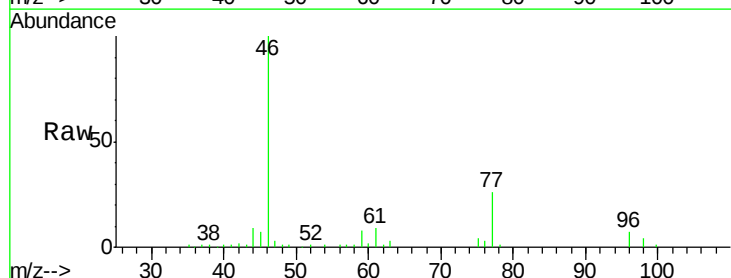
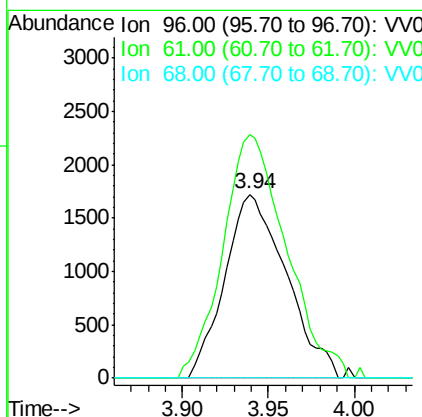
Manual Integrations
 APPROVED

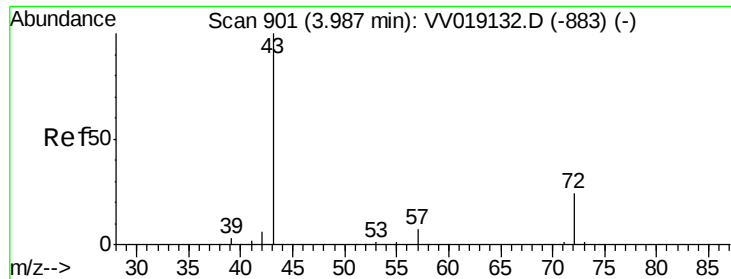
MMDadoda
 10/29/2020 2:58:24 PM



#20
 cis-1,2-Dichloroethene
 Concen: 2.566 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.01 min
 Lab File: VV019140.D
 Acq: 28 Oct 2020 17:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	132.4	99.4	184.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.586 ug/L m

RT: 4.02 min Scan# 912

Delta R.T. 0.04 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Instrument :

MSVOA_V

ClientSampled :

MDL05

Tot Ion: 43 Resp: 4494

Ion Ratio Lower Upper

43 100

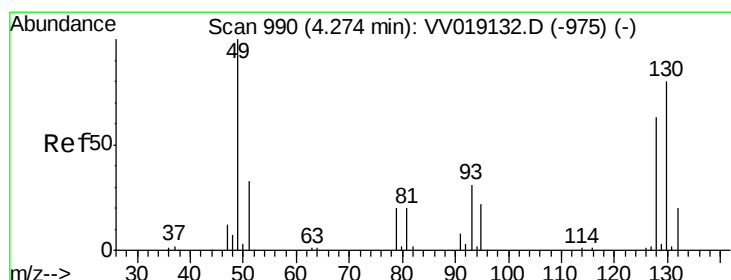
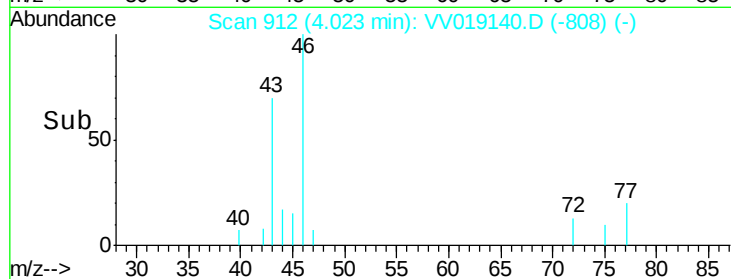
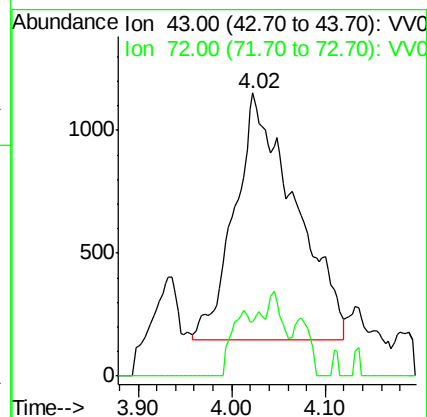
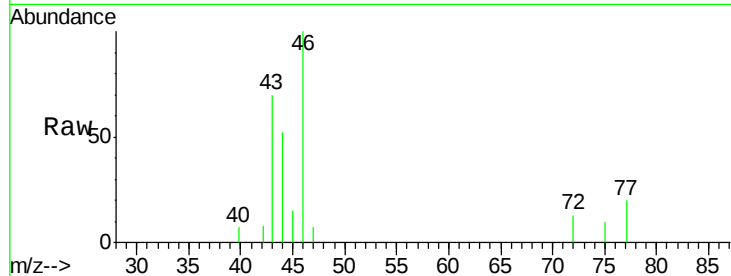
72 8.0 10.8 32.4#

Manual Integrations

APPROVED

MMDadoda

10/29/2020 2:58:24 PM



#23

Bromochloromethane

Concen: 2.613 ug/L

RT: 4.29 min Scan# 994

Delta R.T. 0.01 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Tgt Ion: 128 Resp: 2216

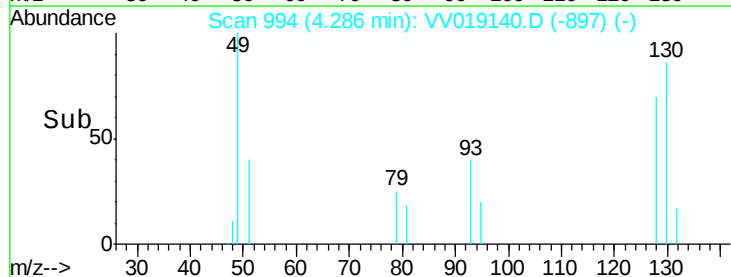
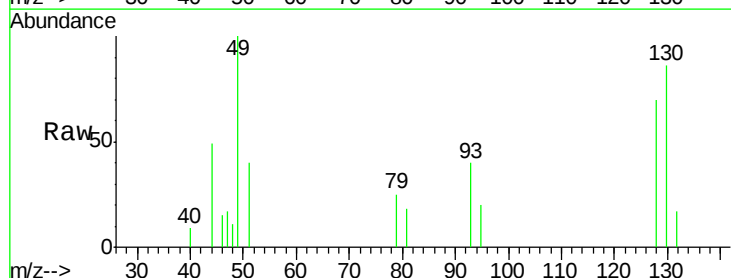
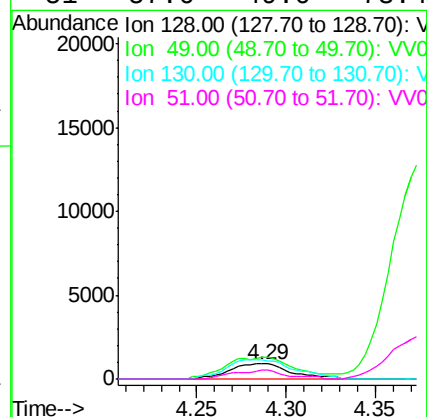
Ion Ratio Lower Upper

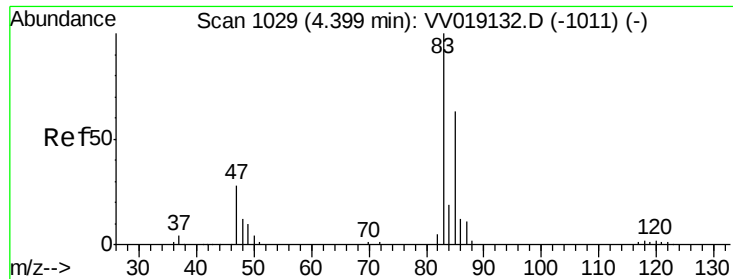
128 100

49 142.4 137.1 254.5

130 123.0 92.0 170.9

51 57.6 49.0 73.4





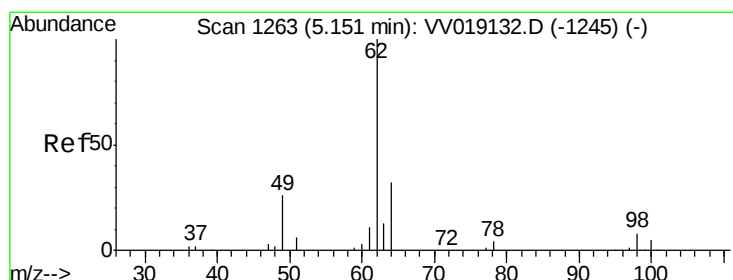
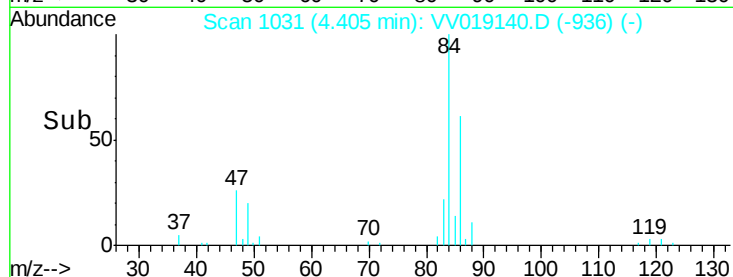
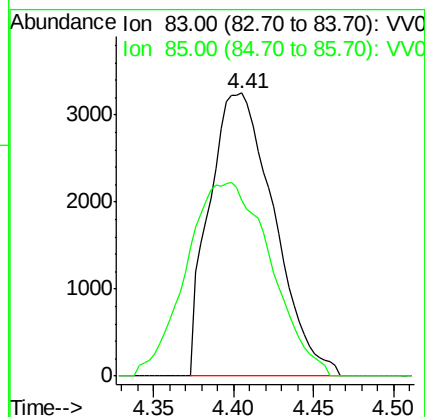
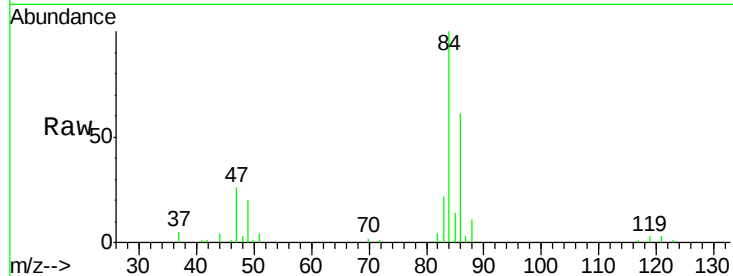
#25
Chloroform
Concen: 2.912 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion: 83 Resp: 9024
Ion Ratio Lower Upper
83 100
85 62.2 44.5 82.7

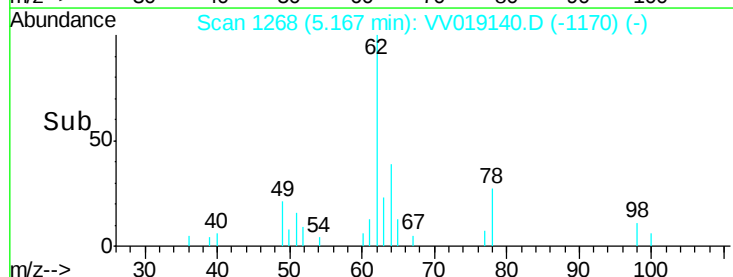
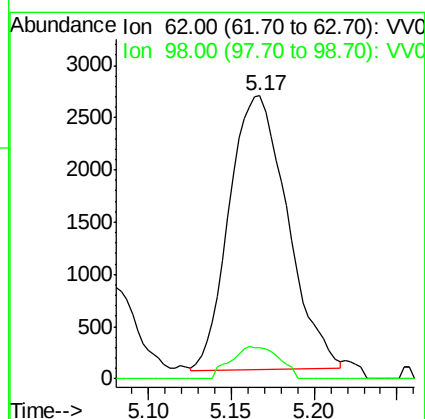
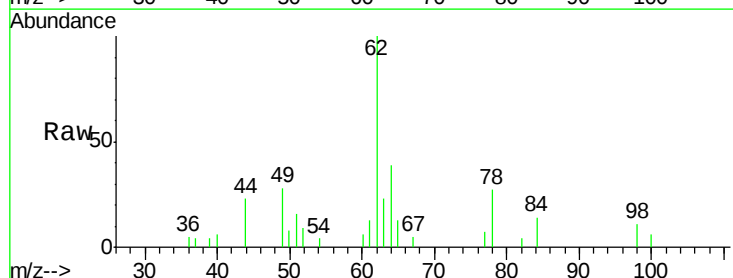
Manual Integrations
APPROVED

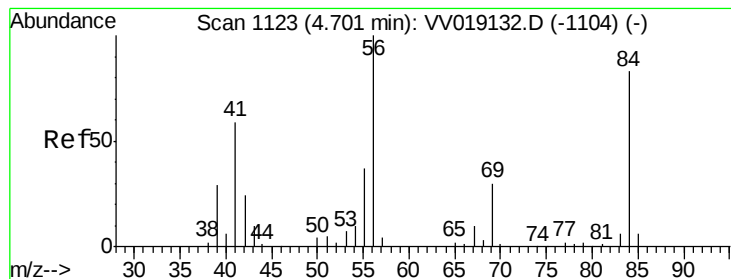
MMDadoda
10/29/2020 2:58:24 PM



#27
1,2-Dichloroethane
Concen: 2.481 ug/L
RT: 5.17 min Scan# 1268
Delta R.T. 0.02 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Tgt Ion: 62 Resp: 6381
Ion Ratio Lower Upper
62 100
98 10.9 6.9 10.3#





#29

Cyclohexane

Concen: 1.661 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Instrument :

MSVOA_V

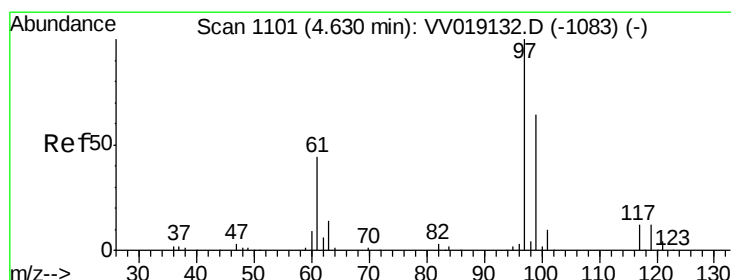
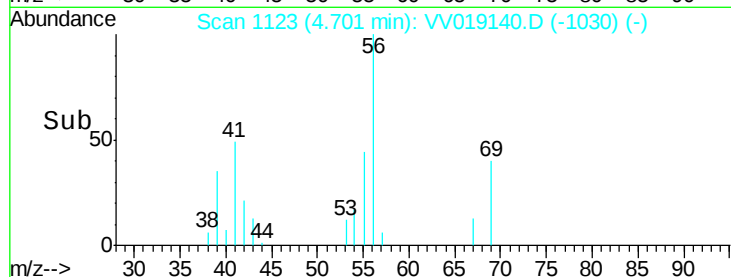
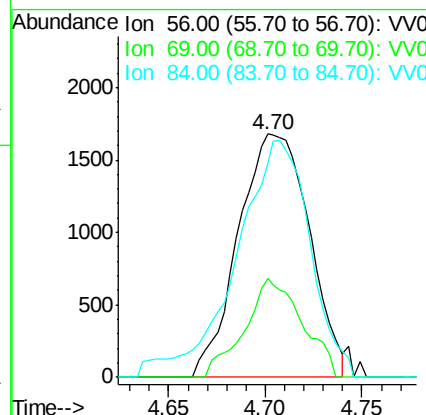
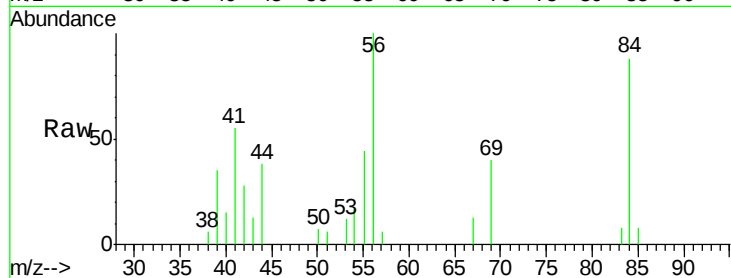
ClientSampleId :

MDL05

Tot Ion:	56	Resp:	4275
Ion	Ratio	Lower	Upper
56	100		
69	33.1	22.7	34.1
84	99.1	63.5	95.3#

Manual Integrations
APPROVED

MMDadoda
10/29/2020 2:58:24 PM



#30

1,1,1-Trichloroethane

Concen: 2.662 ug/L

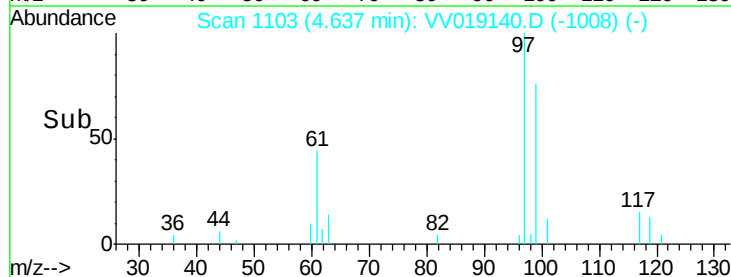
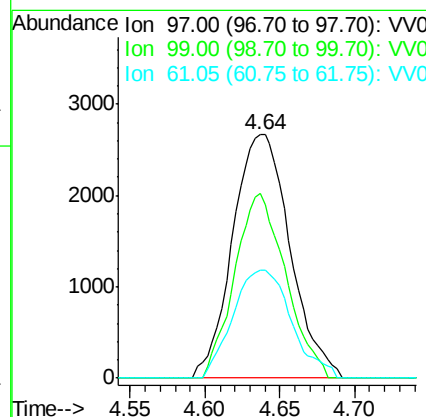
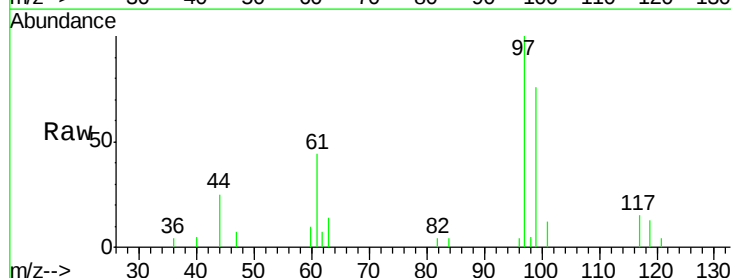
RT: 4.64 min Scan# 1103

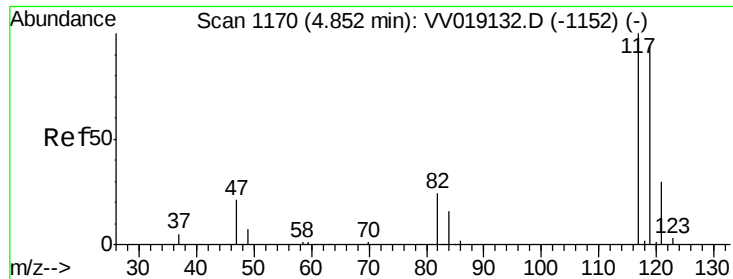
Delta R.T. 0.01 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Tgt Ion:	97	Resp:	7128
Ion	Ratio	Lower	Upper
97	100		
99	67.4	50.5	75.7
61	45.1	38.1	57.1





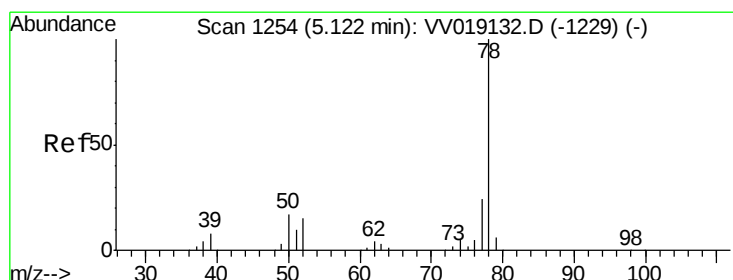
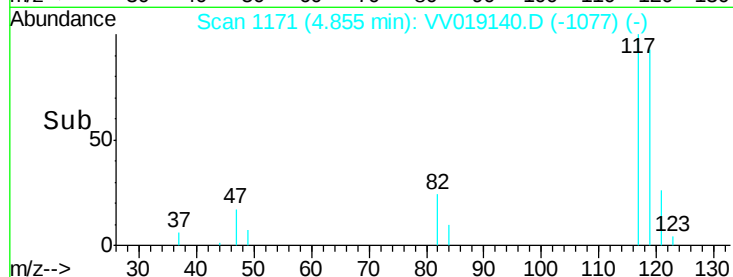
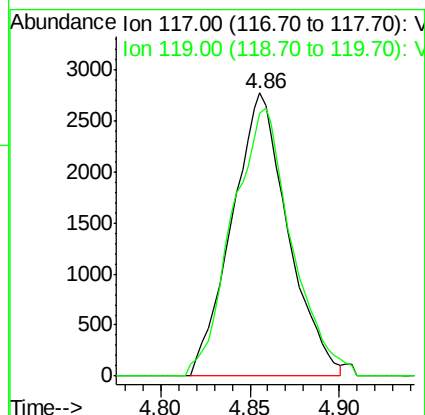
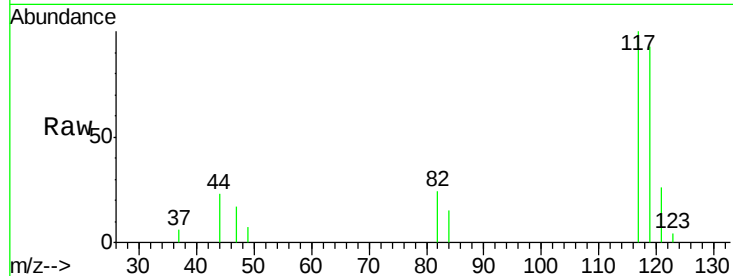
#31
Carbon tetrachloride
Concen: 2.602 ug/L
RT: 4.86 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion:117 Resp: 6073
Ion Ratio Lower Upper
117 100
119 100.5 77.2 115.8

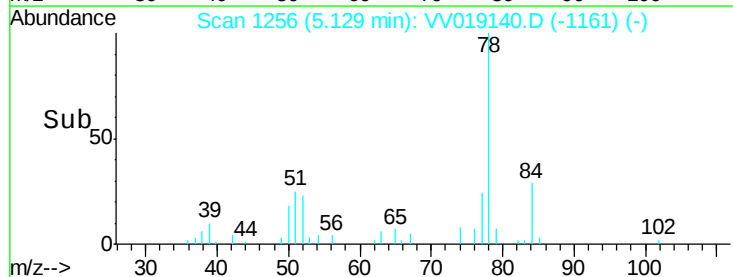
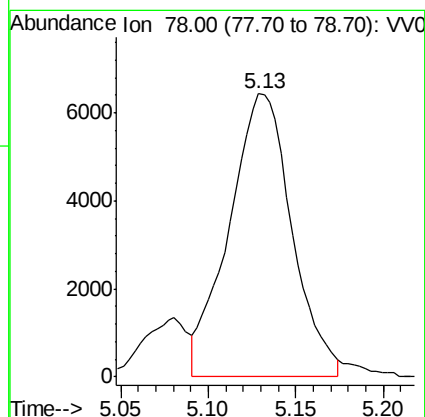
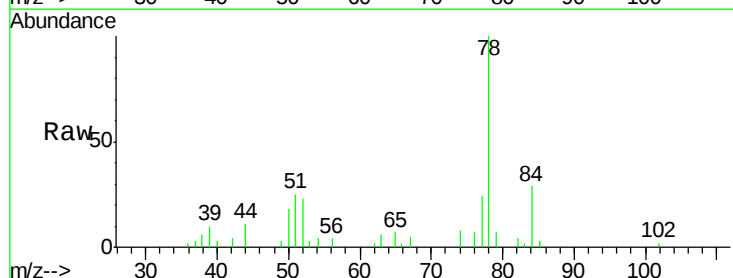
Manual Integrations
APPROVED

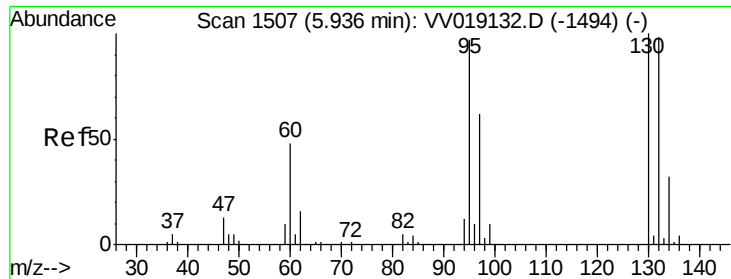
MMDadoda
10/29/2020 2:58:24 PM



#33
Benzene
Concen: 2.439 ug/L m
RT: 5.13 min Scan# 1256
Delta R.T. 0.01 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Tgt Ion: 78 Resp: 16055





#34

Trichloroethene

Concen: 2.606 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Instrument :

MSVOA_V

ClientSampled :

MDL05

Tot Ion: 95 Resp: 4336

Ion Ratio Lower Upper

95 100

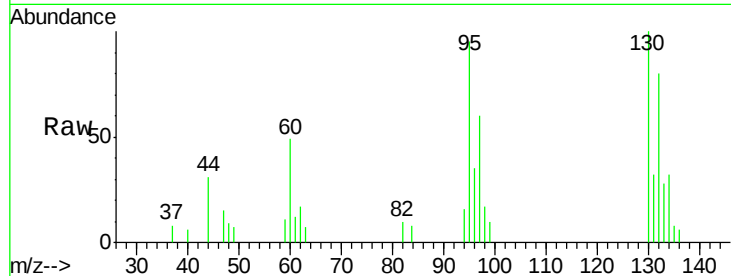
97 63.3 44.6 82.8

132 84.8 66.0 122.6

130 105.8 67.6 125.6

Manual Integrations
APPROVED

MMDadoda
10/29/2020 2:58:24 PM



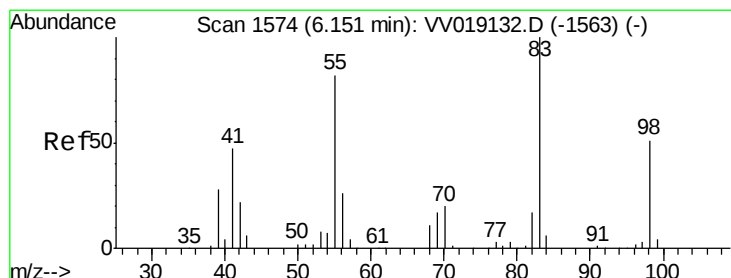
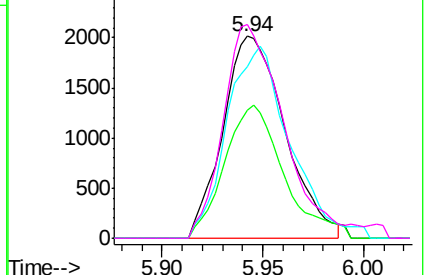
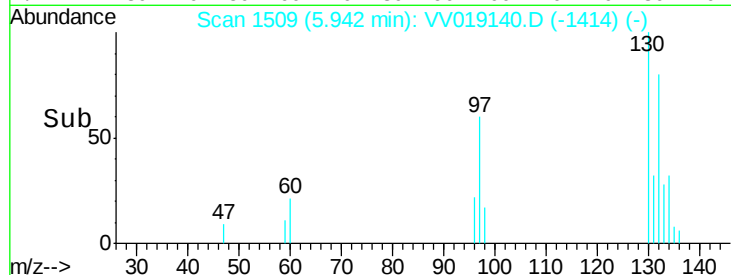
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Time-->



#35

Methylcyclohexane

Concen: 1.929 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

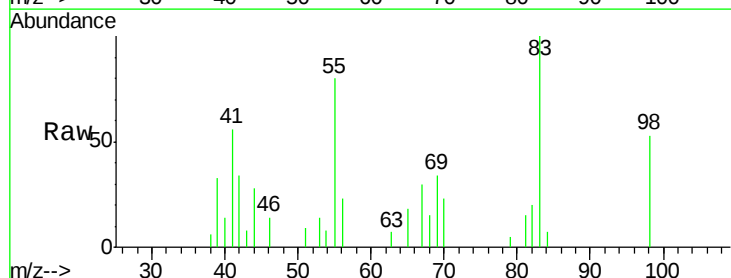
Tgt Ion: 83 Resp: 4390

Ion Ratio Lower Upper

83 100

55 73.9 68.1 102.1

98 54.5 37.9 56.9

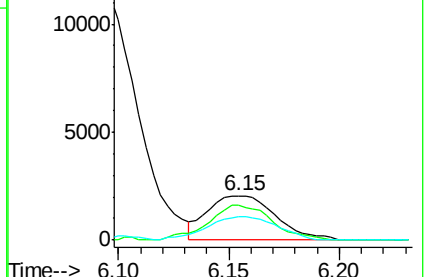
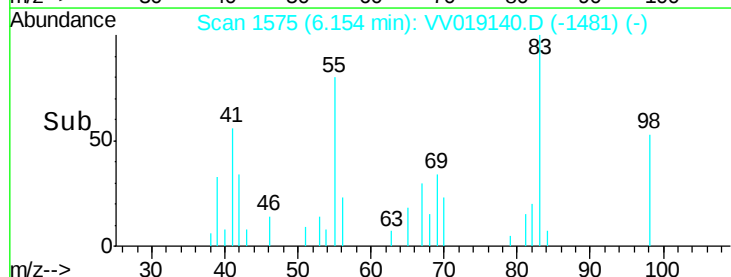


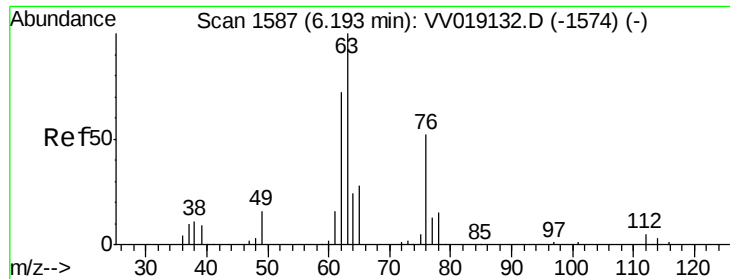
Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

Time-->





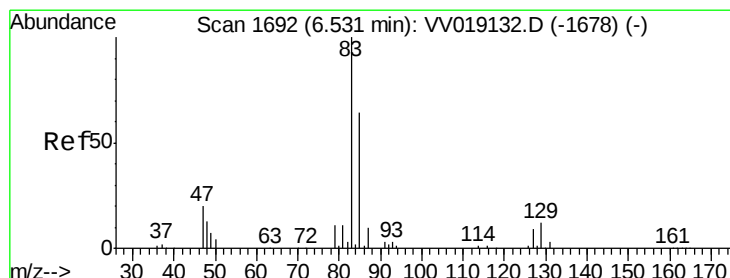
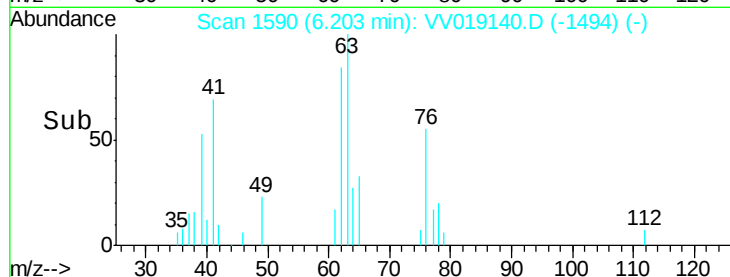
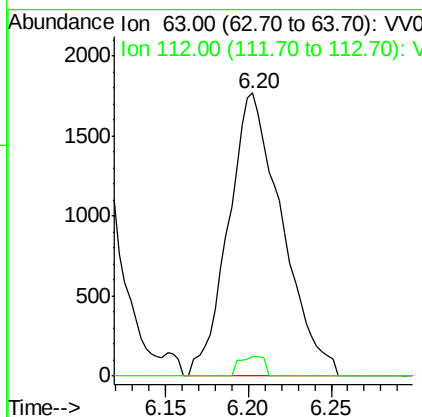
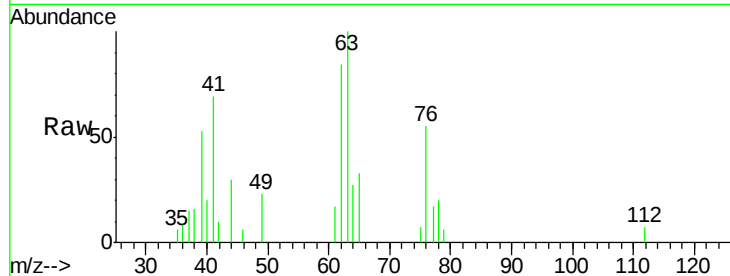
#37
 1,2-Dichloropropane
 Concen: 2.193 ug/L
 RT: 6.20 min Scan# 1590
 Delta R.T. 0.01 min
 Lab File: VV019140.D
 Acq: 28 Oct 2020 17:33

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion: 63 Resp: 3974
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#

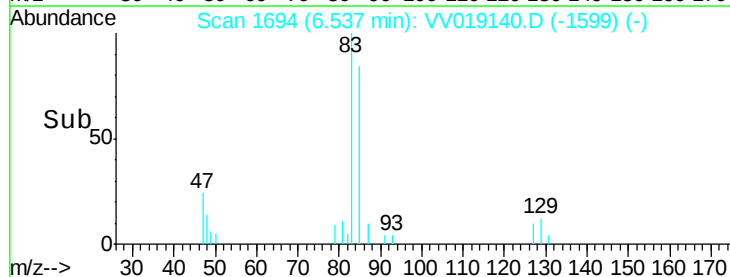
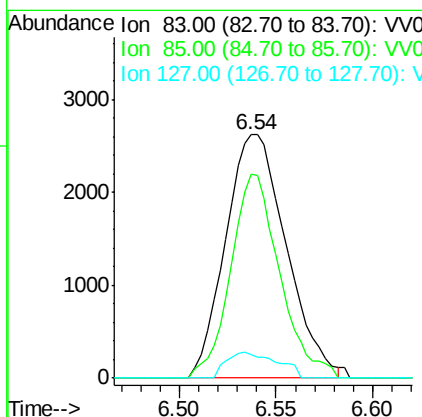
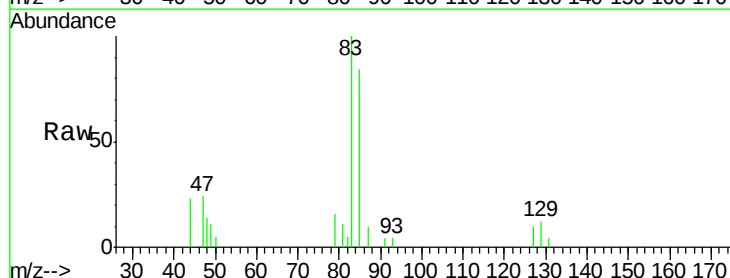
Manual Integrations
 APPROVED

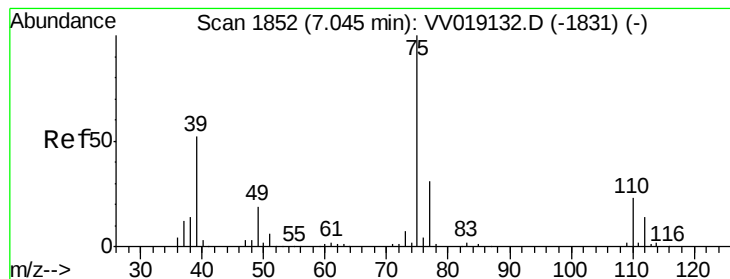
MMDadoda
 10/29/2020 2:58:24 PM



#38
 Bromodichloromethane
 Concen: 2.493 ug/L
 RT: 6.54 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VV019140.D
 Acq: 28 Oct 2020 17:33

Tgt Ion: 83 Resp: 5716
 Ion Ratio Lower Upper
 83 100
 85 83.7 44.9 83.3#
 127 9.6 7.0 10.4





#39

cis-1,3-Dichloropropene

Concen: 2.332 ug/L

RT: 7.05 min Scan# 1855

Delta R.T. 0.01 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion: 75 Resp: 6246

Ion Ratio Lower Upper

75 100

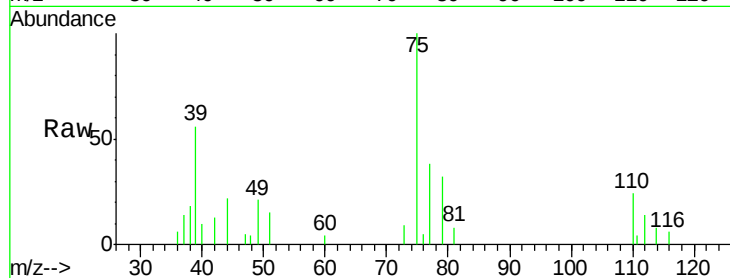
77 38.2 22.1 41.1

Manual Integrations

APPROVED

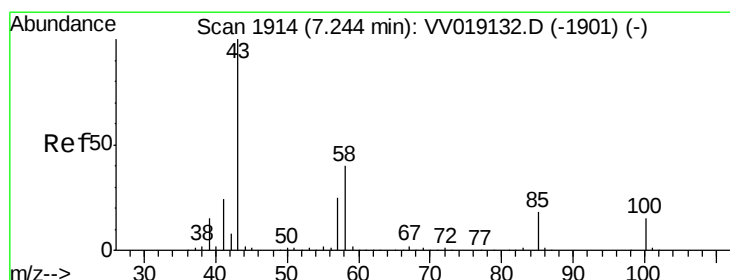
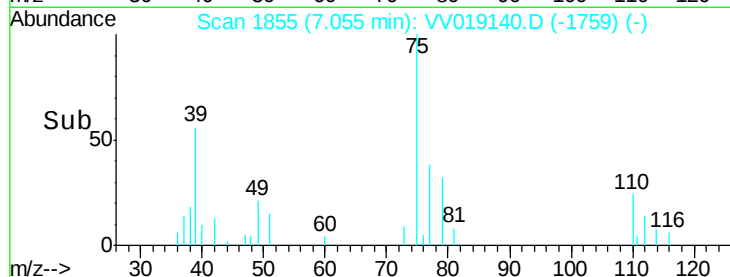
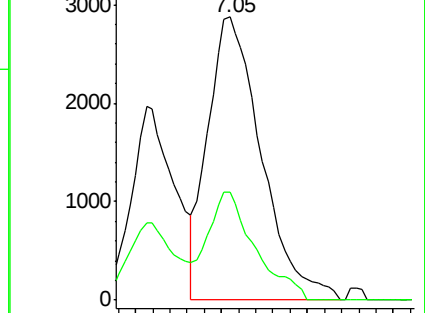
MMDadoda

10/29/2020 2:58:24 PM



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#40

4-Methyl-2-pentanone

Concen: 4.189 ug/L

RT: 7.25 min Scan# 1916

Delta R.T. 0.01 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

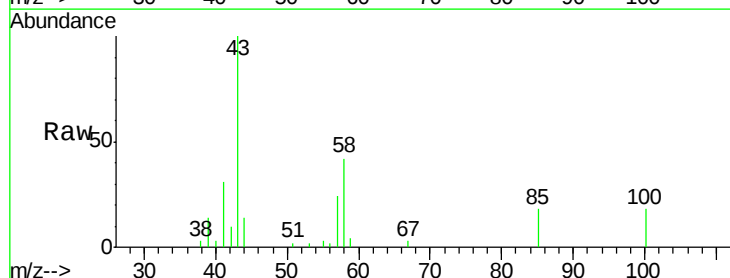
Tgt Ion: 43 Resp: 10243

Ion Ratio Lower Upper

43 100

58 41.2 29.6 44.4

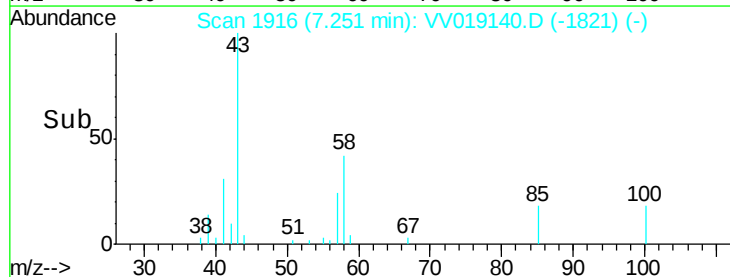
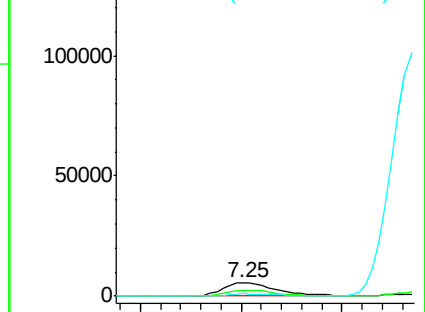
100 17.0 10.9 16.3#

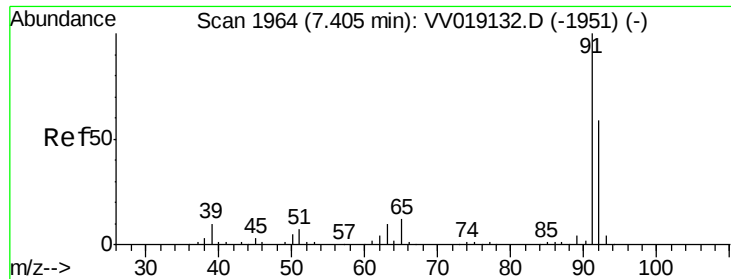


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#42

Toluene

Concen: 2.419 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion: 91 Resp: 16348

Ion Ratio Lower Upper

91 100

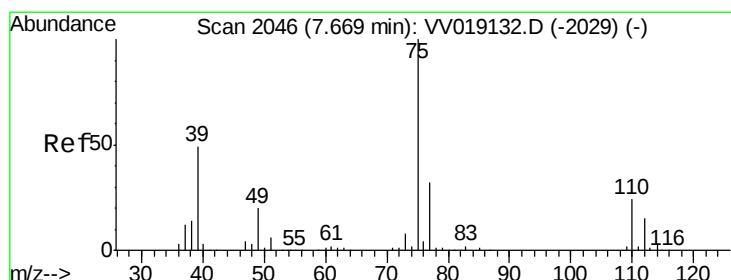
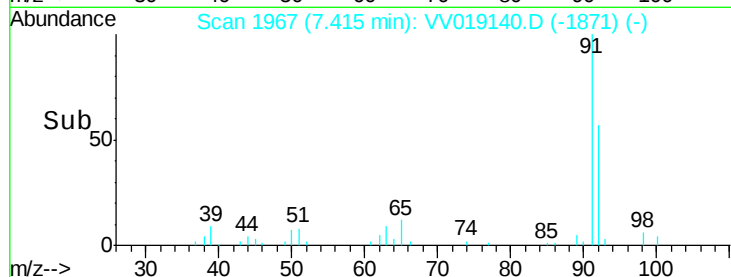
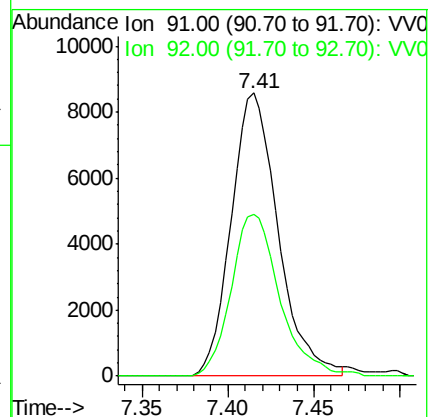
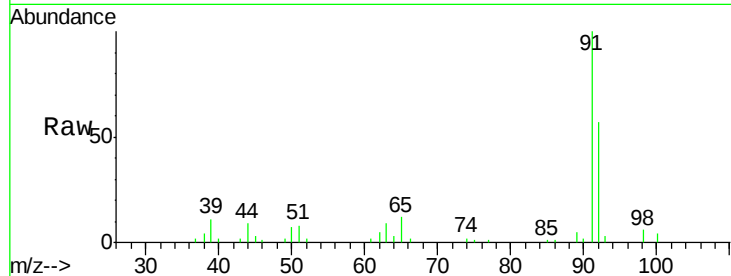
92 56.9 40.9 76.0

Manual Integrations

APPROVED

MMDadoda

10/29/2020 2:58:24 PM



#44

trans-1,3-Dichloropropene

Concen: 2.600 ug/L m

RT: 7.68 min Scan# 2048

Delta R.T. 0.01 min

Lab File: VV019140.D

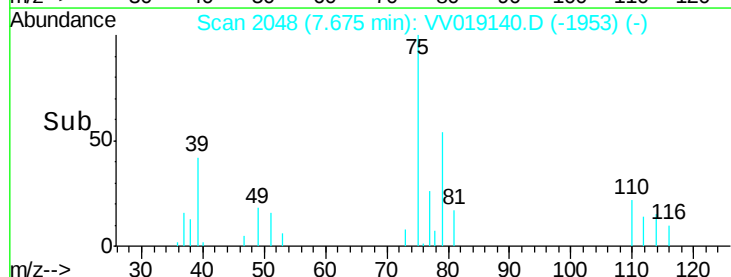
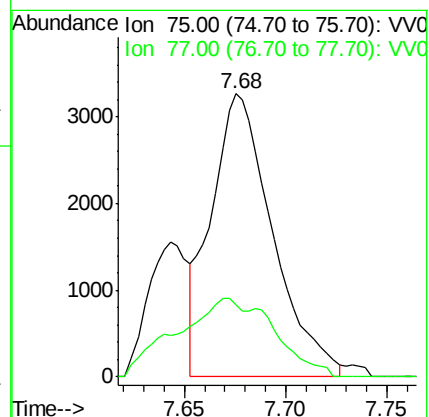
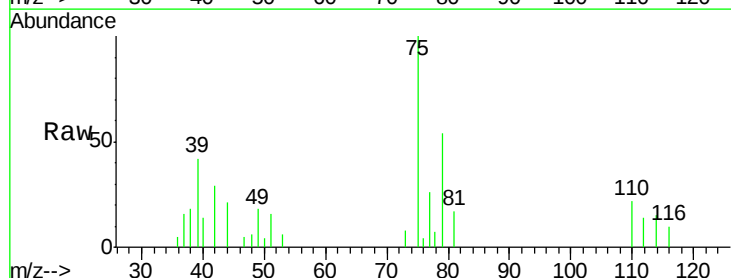
Acq: 28 Oct 2020 17:33

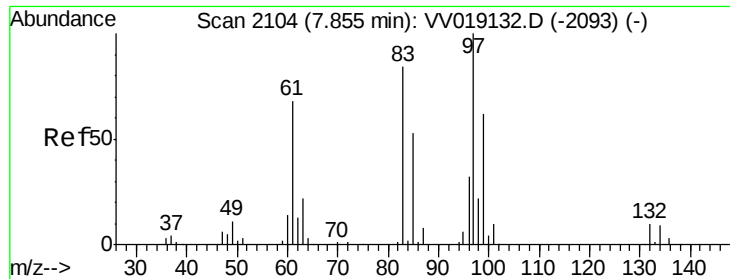
Tgt Ion: 75 Resp: 6909

Ion Ratio Lower Upper

75 100

77 25.7 21.5 39.9





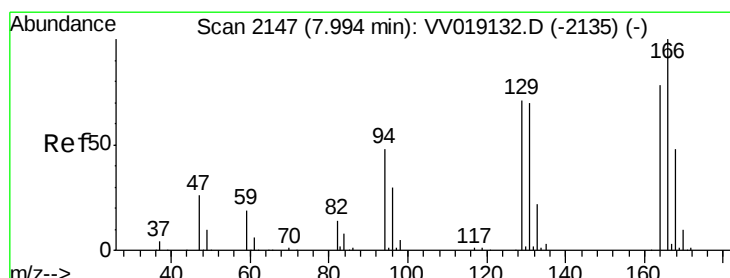
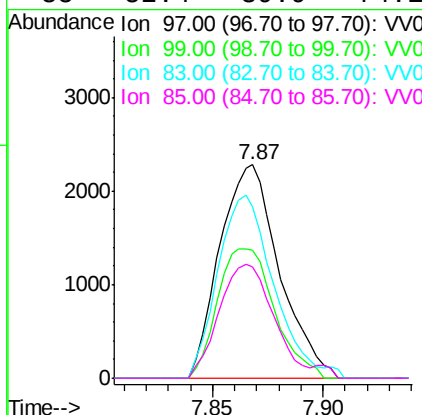
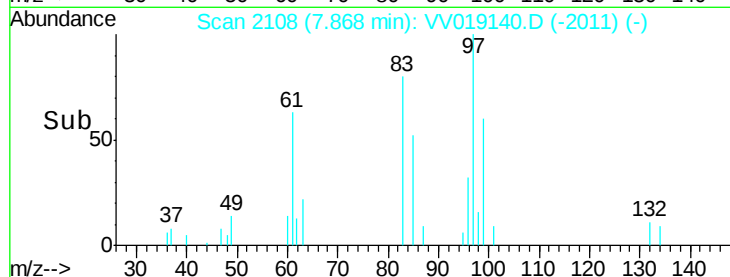
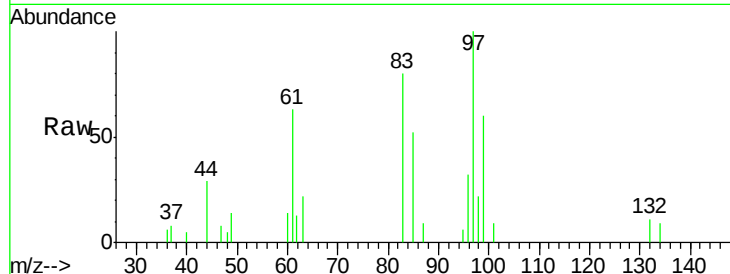
#45
1,1,2-Trichloroethane
Concen: 2.665 ug/L
RT: 7.87 min Scan# 2108
Delta R.T. 0.01 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion:	97	Resp:	4266
Ion	Ratio	Lower	Upper
97	100		
99	59.9	43.5	80.9
83	80.2	62.2	115.4
85	52.4	39.9	74.1

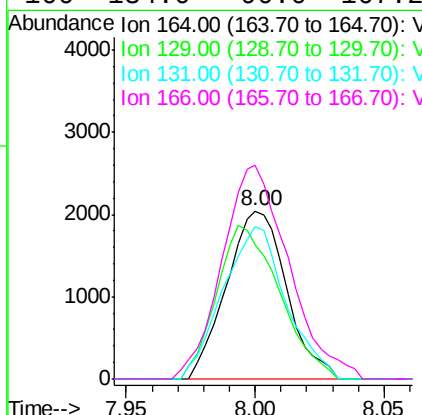
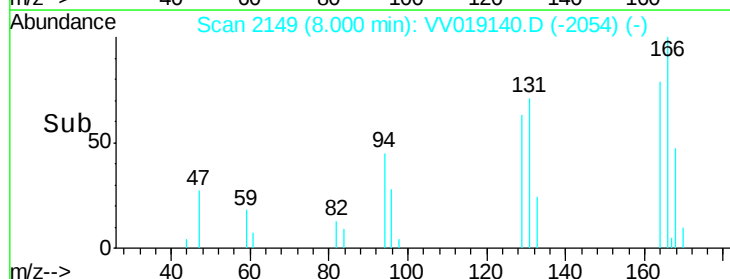
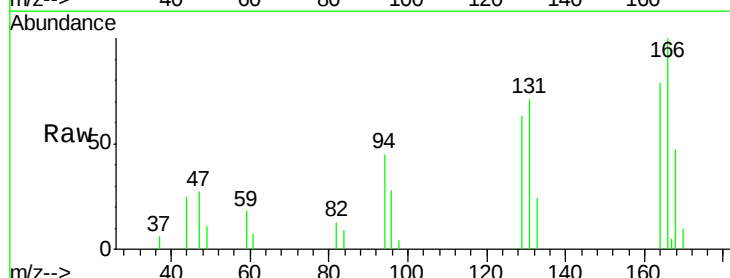
Manual Integrations
APPROVED

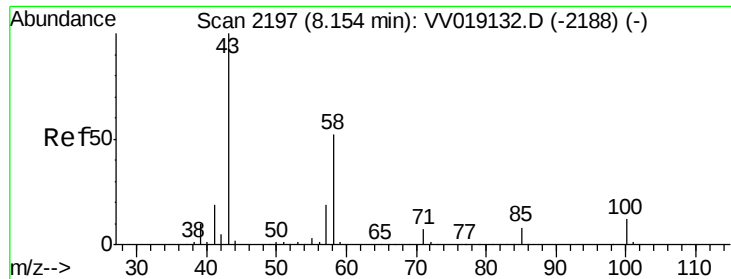
MMDadoda
10/29/2020 2:58:24 PM



#46
Tetrachloroethene
Concen: 2.596 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.01 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Tgt Ion:	164	Resp:	3314
Ion	Ratio	Lower	Upper
164	100		
129	80.4	65.5	121.6
131	90.7	62.4	115.8
166	134.0	90.0	167.2





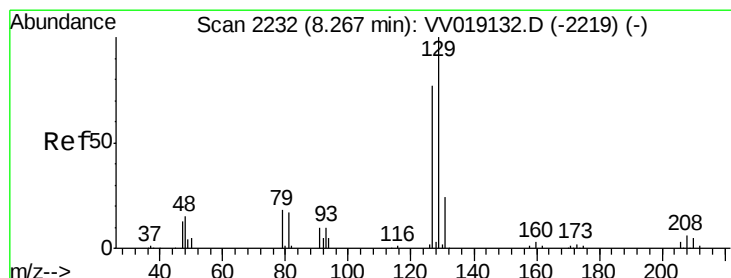
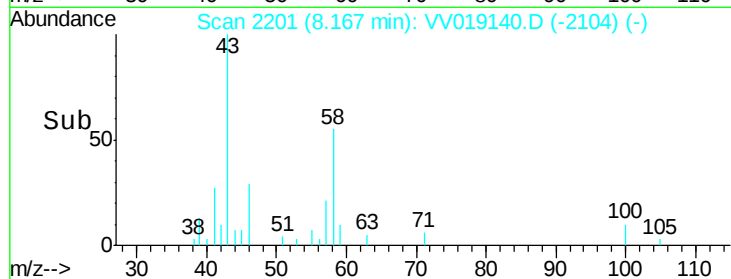
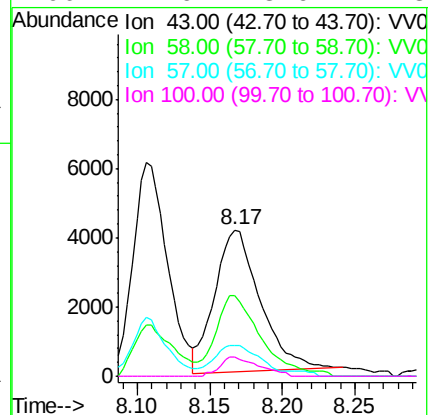
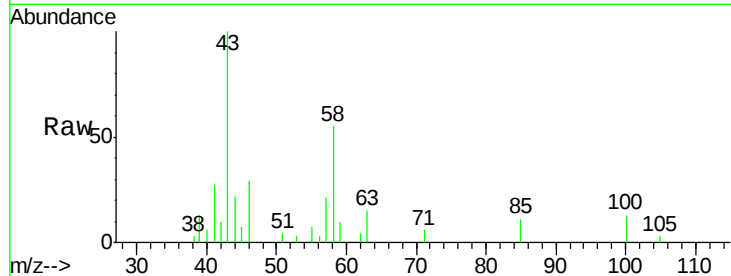
#48
2-Hexanone
Concen: 4.739 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.01 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.3	41.1	61.7
57	23.8	14.7	22.1
100	11.6	8.6	12.8

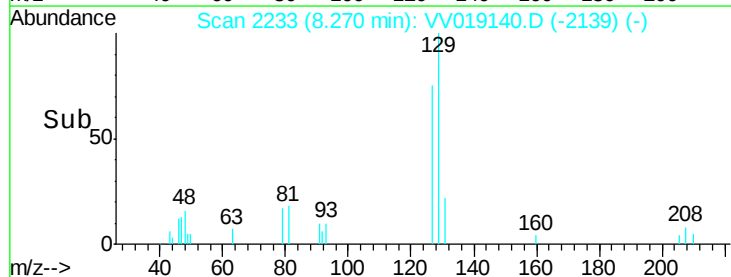
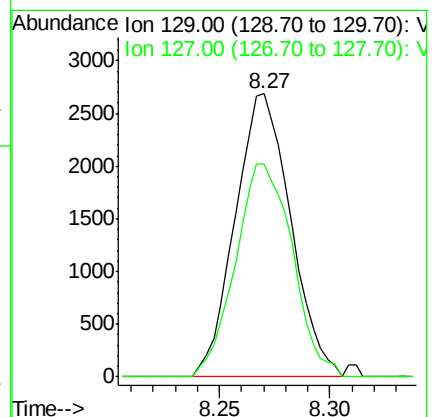
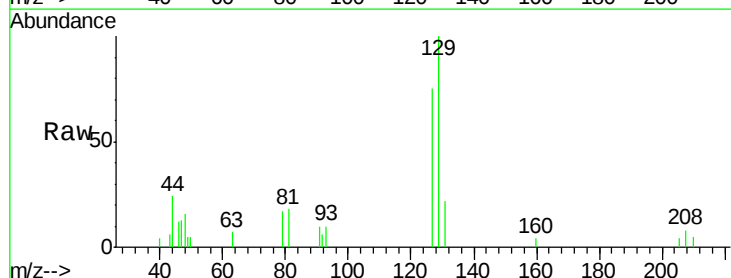
Manual Integrations
APPROVED

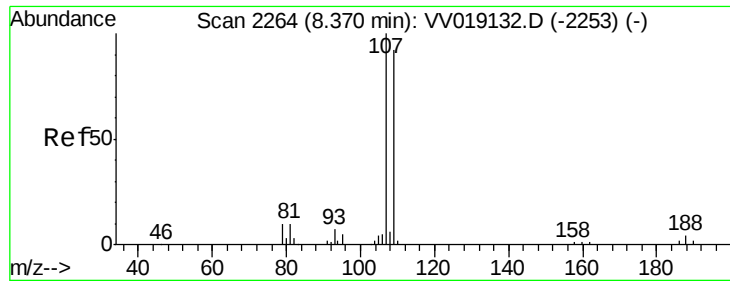
MMDadoda
10/29/2020 2:58:24 PM



#49
Dibromochloromethane
Concen: 2.685 ug/L
RT: 8.27 min Scan# 2233
Delta R.T. 0.00 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.1	53.7	99.7





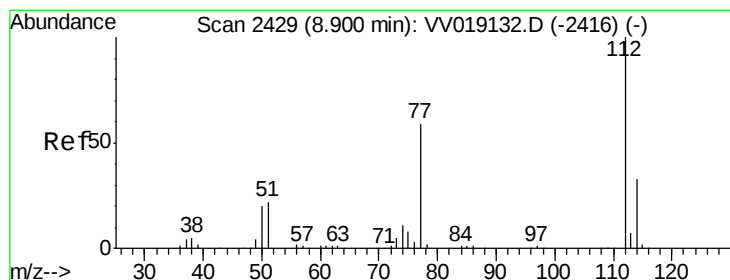
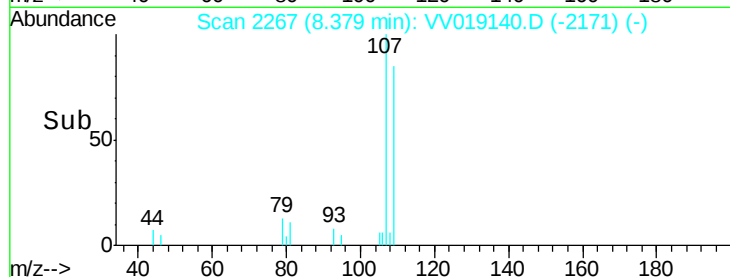
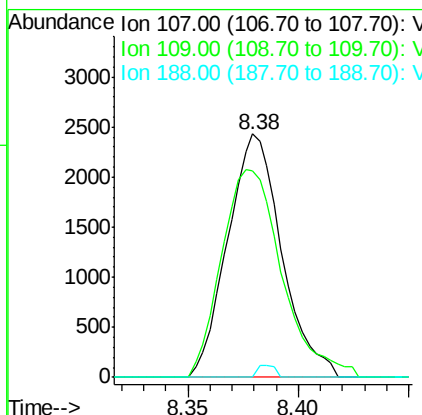
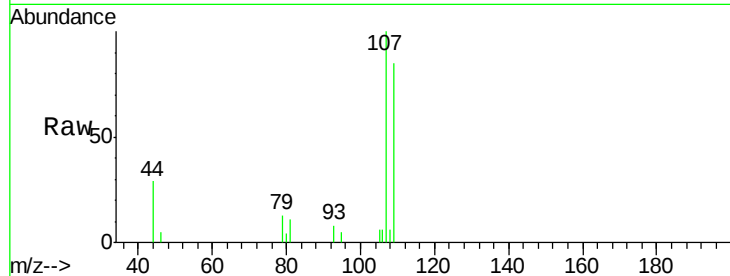
#50
1,2-Dibromoethane
Concen: 2.493 ug/L
RT: 8.38 min Scan# 2267
Delta R.T. 0.01 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
107	100		
109	85.0	66.1	122.7
188	0.0	3.2	4.8#

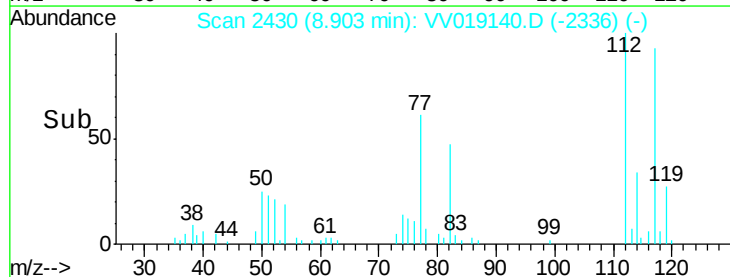
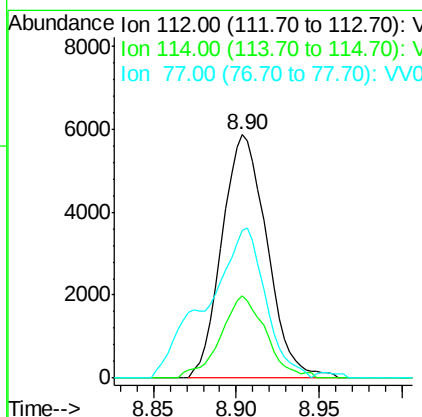
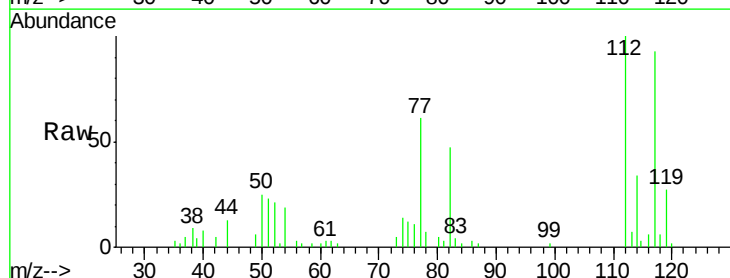
Manual Integrations
APPROVED

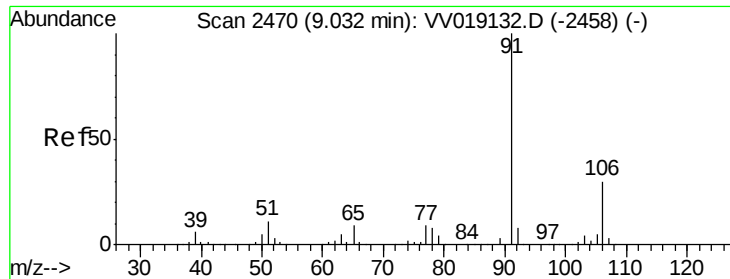
MMDadoda
10/29/2020 2:58:24 PM



#51
Chlorobenzene
Concen: 2.564 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.6	22.2	41.2
77	60.6	49.1	73.7





#52

Ethylbenzene

Concen: 2.311 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion: 91 Resp: 16890

Ion Ratio Lower Upper

91 100

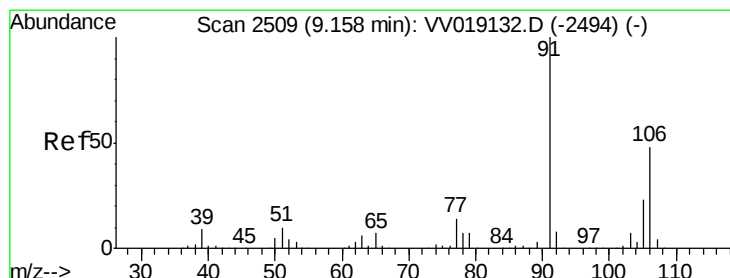
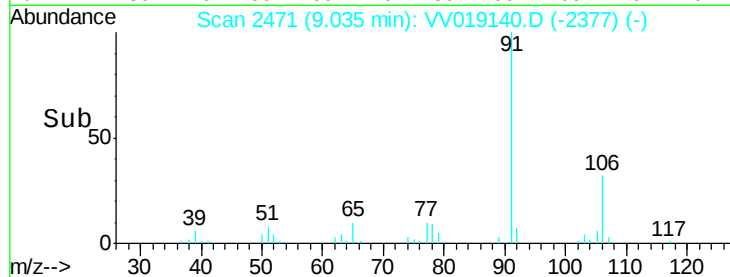
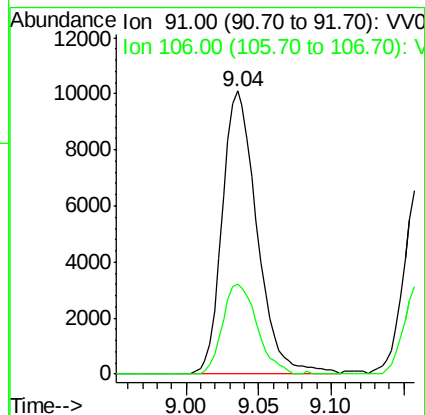
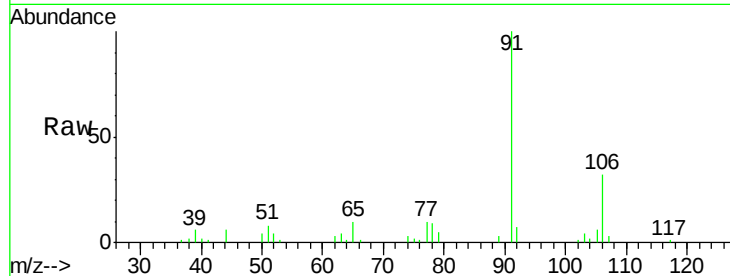
106 31.7 20.9 38.7

Manual Integrations

APPROVED

MMDadoda

10/29/2020 2:58:24 PM



#53

m,p-Xylene

Concen: 2.156 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV019140.D

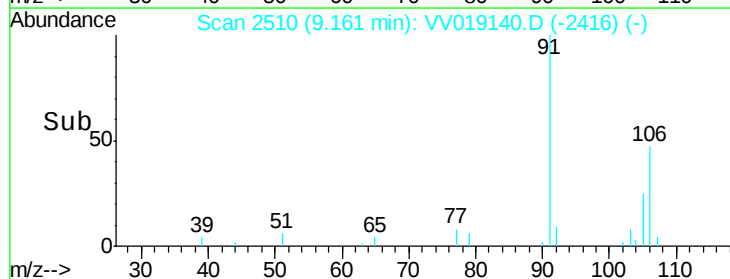
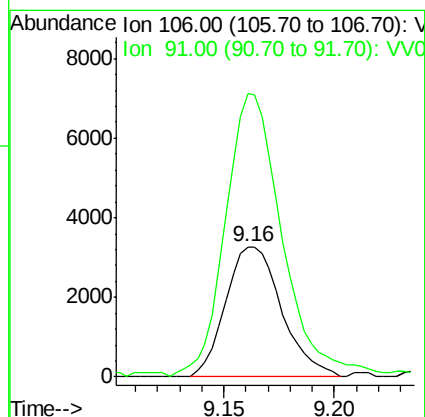
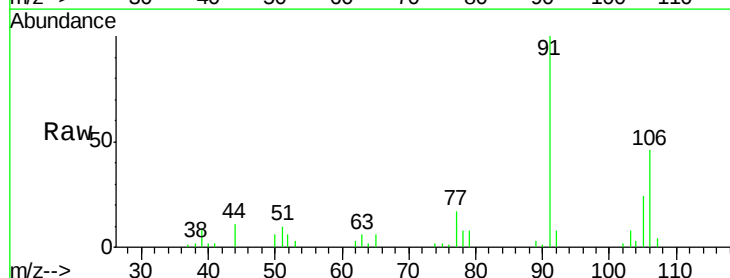
Acq: 28 Oct 2020 17:33

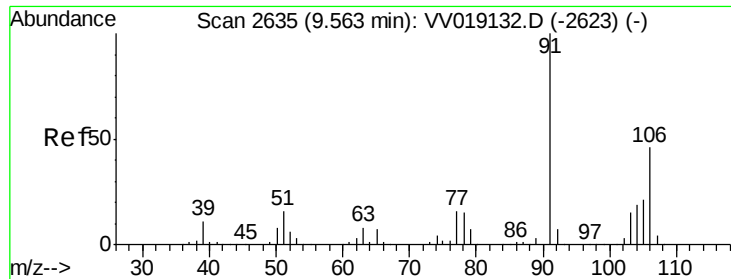
Tgt Ion: 106 Resp: 5766

Ion Ratio Lower Upper

106 100

91 217.7 143.4 266.2





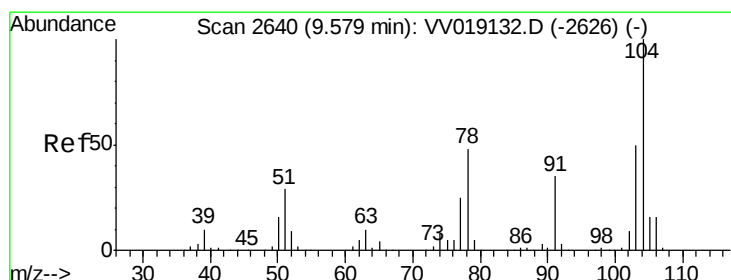
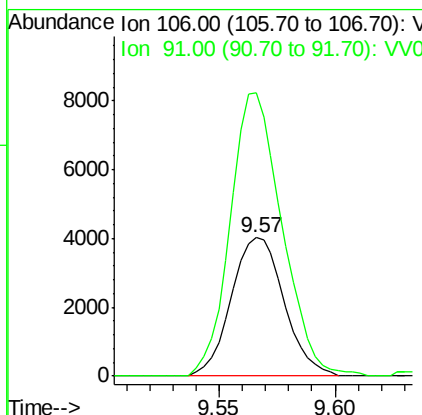
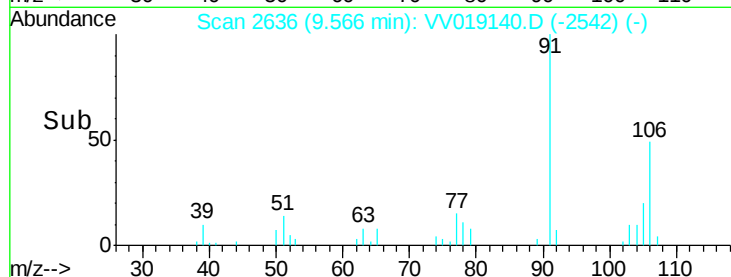
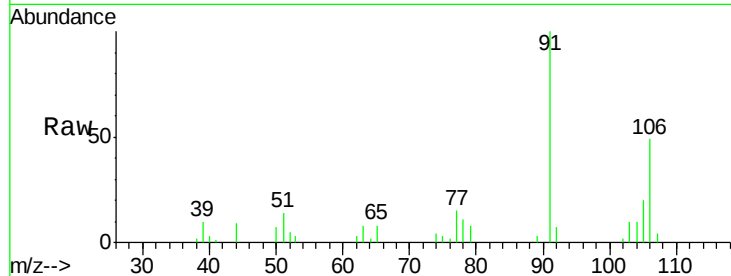
#54
o-xylene
Concen: 2.474 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion:106 Resp: 6371
Ion Ratio Lower Upper
106 100
91 204.9 154.3 286.5

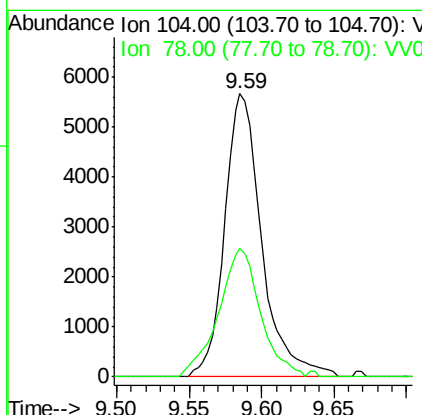
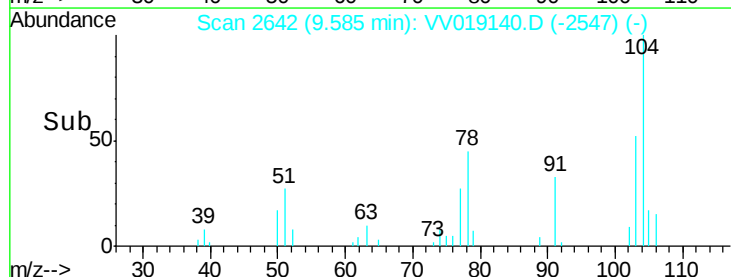
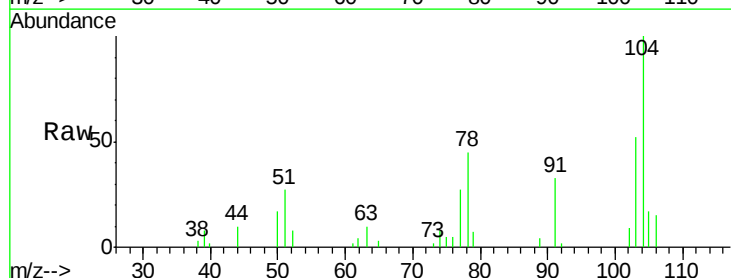
Manual Integrations
APPROVED

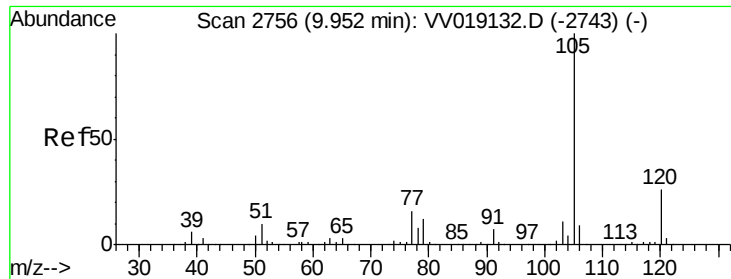
MMDadoda
10/29/2020 2:58:24 PM



#55
Styrene
Concen: 2.204 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.01 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Tgt Ion:104 Resp: 10067
Ion Ratio Lower Upper
104 100
78 45.5 33.2 61.7





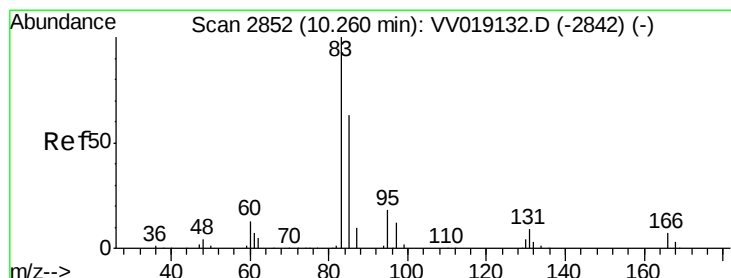
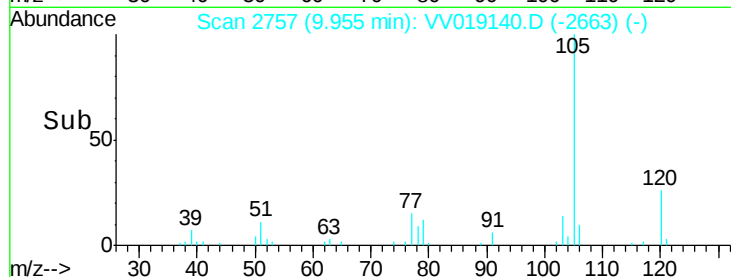
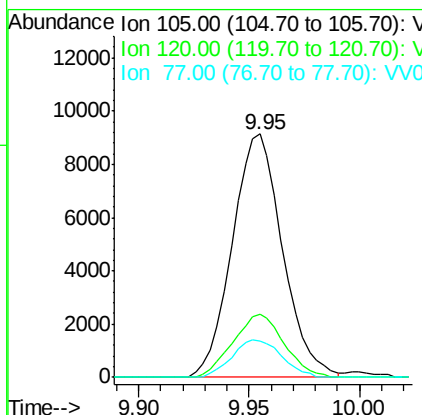
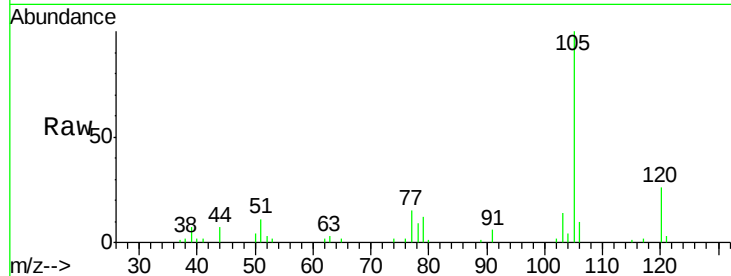
#56
Isopropylbenzene
Concen: 2.136 ug/L
RT: 9.95 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.2	20.6	31.0
77	15.1	13.4	20.0

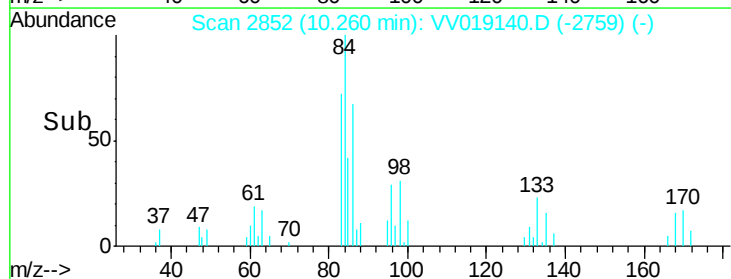
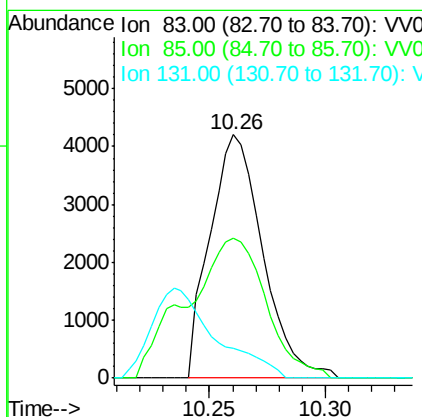
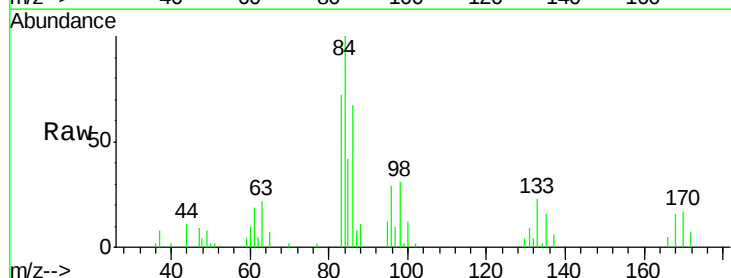
Manual Integrations
APPROVED

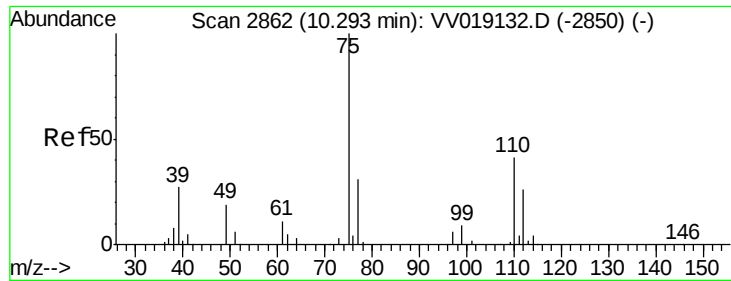
MMDadoda
10/29/2020 2:58:24 PM



#58
1,1,2,2-Tetrachloroethane
Concen: 2.521 ug/L
RT: 10.26 min Scan# 2852
Delta R.T. -0.00 min
Lab File: VV019140.D
Acq: 28 Oct 2020 17:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	57.6	44.2	82.2
131	12.3	7.4	11.2





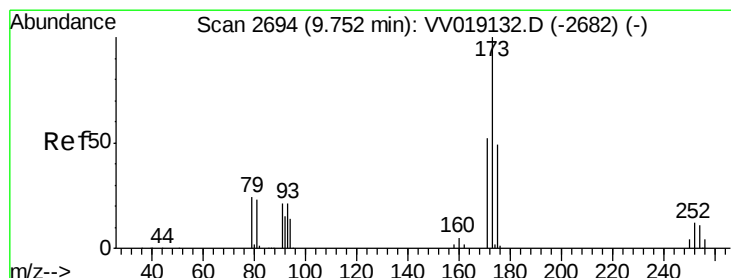
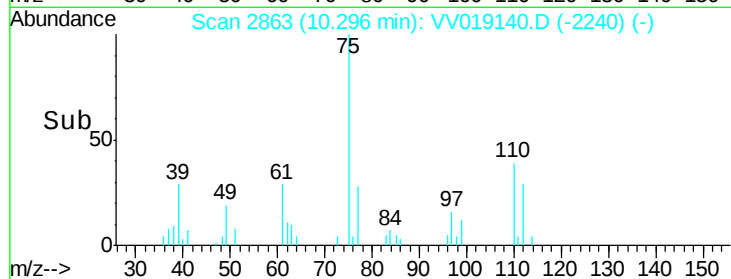
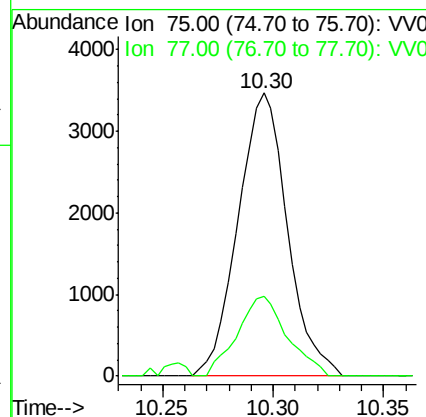
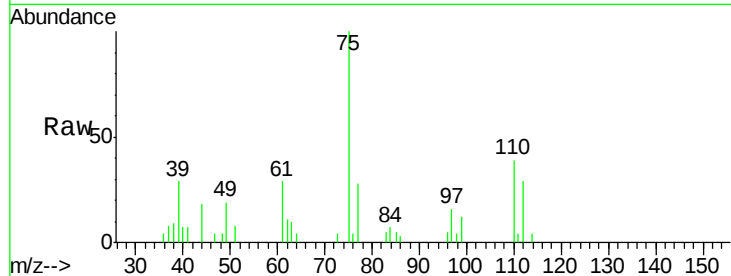
#59
 1,2,3-Trichloropropane
 Concen: 2.542 ug/L
 RT: 10.30 min Scan# 2863
 Delta R.T. 0.00 min
 Lab File: VV019140.D
 Acq: 28 Oct 2020 17:33

Instrument :
 MSVOA_V
 ClientSampled :
 MDL05

Tot Ion: 75 Resp: 5386
 Ion Ratio Lower Upper
 75 100
 77 28.5 25.9 38.9

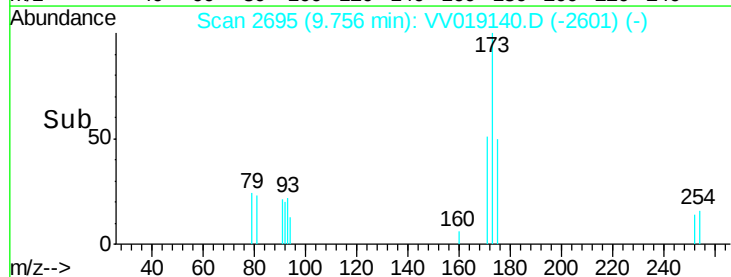
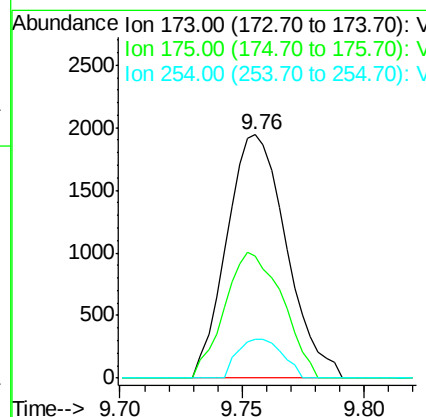
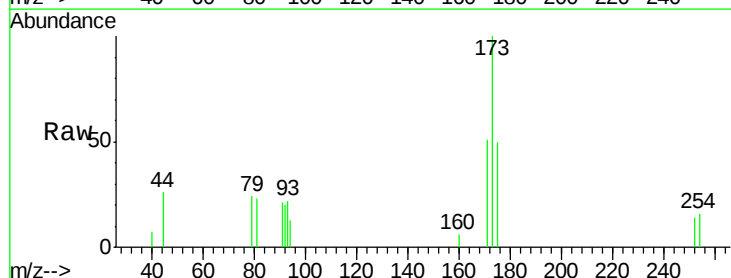
Manual Integrations
 APPROVED

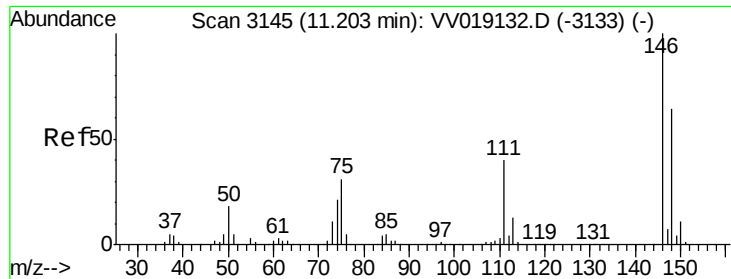
MMDadoda
 10/29/2020 2:58:24 PM



#61
 Bromoform
 Concen: 2.695 ug/L
 RT: 9.76 min Scan# 2695
 Delta R.T. 0.00 min
 Lab File: VV019140.D
 Acq: 28 Oct 2020 17:33

Tgt Ion: 173 Resp: 3297
 Ion Ratio Lower Upper
 173 100
 175 50.2 38.3 57.5
 254 12.0 8.3 12.5





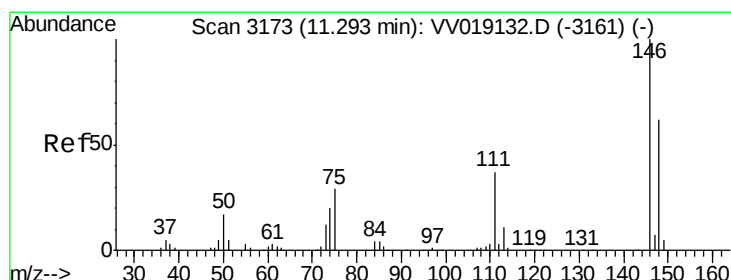
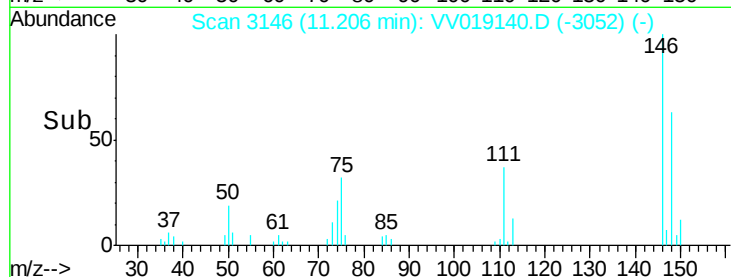
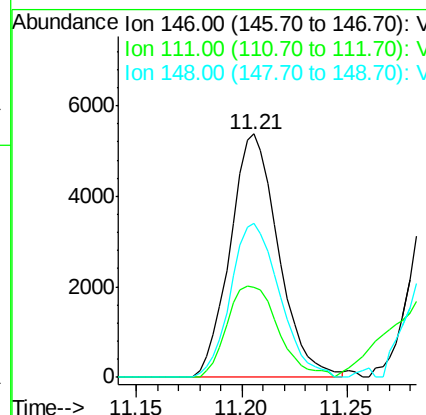
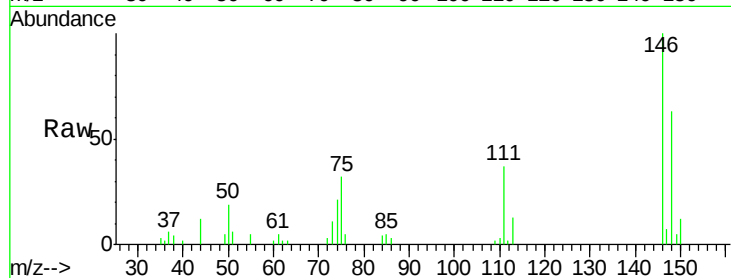
#62
 1,3-Dichlorobenzene
 Concen: 2.619 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV019140.D
 Acq: 28 Oct 2020 17:33

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	28.8	53.4
148	63.2	44.5	82.7

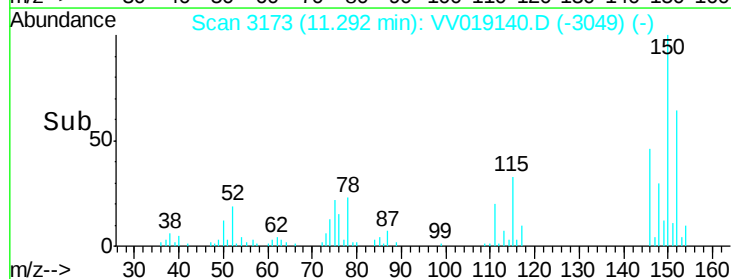
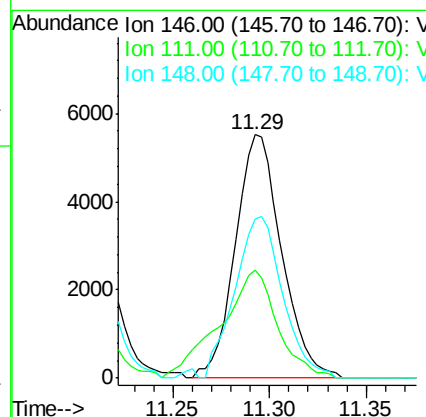
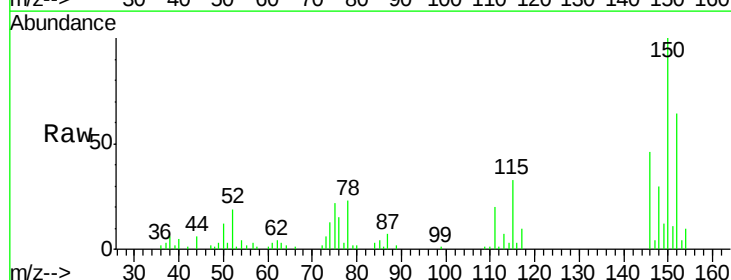
Manual Integrations
 APPROVED

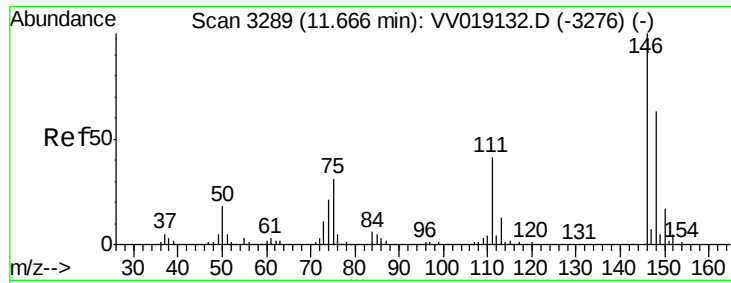
MMDadoda
 10/29/2020 2:58:24 PM



#63
 1,4-Dichlorobenzene
 Concen: 2.694 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. -0.00 min
 Lab File: VV019140.D
 Acq: 28 Oct 2020 17:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.3	27.8	51.6
148	65.1	45.1	83.9





#65

1,2-Dichlorobenzene

Concen: 2.836 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Instrument :

MSVOA_V

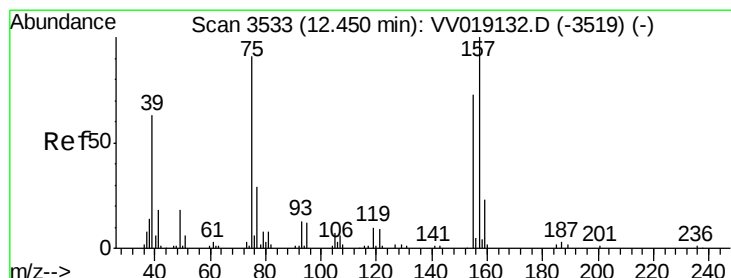
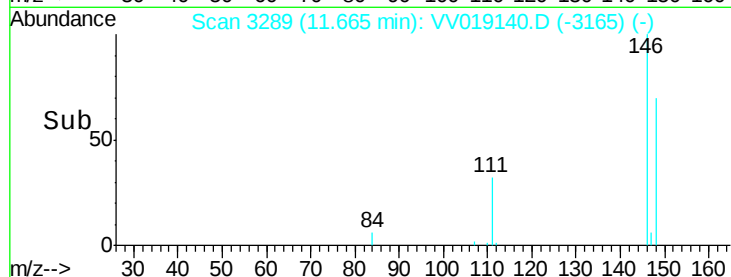
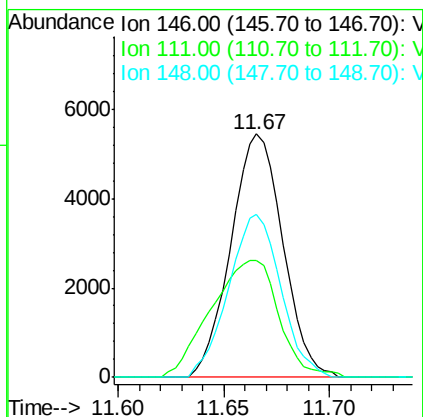
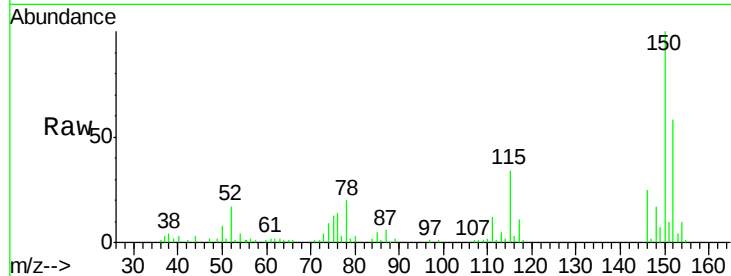
ClientSampleId :

MDL05

Tot Ion:	146	Resp:	9320
Ion Ratio	Lower	Upper	
146	100		
111	48.1	33.3	49.9
148	67.1	51.1	76.7

Manual Integrations
APPROVED

MMDadoda
10/29/2020 2:58:24 PM



#66

1,2-Dibromo-3-chloropropane

Concen: 2.599 ug/L

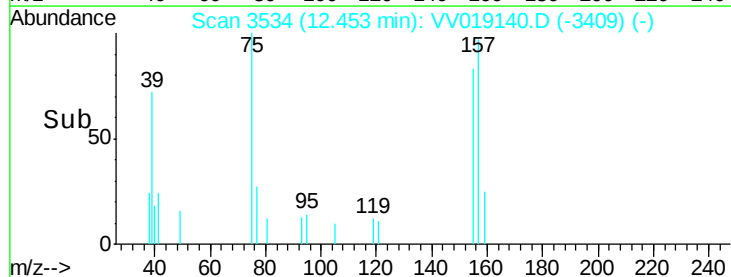
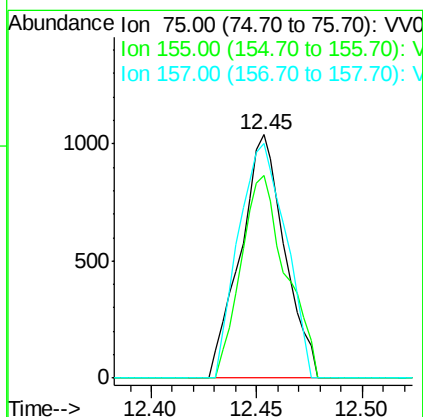
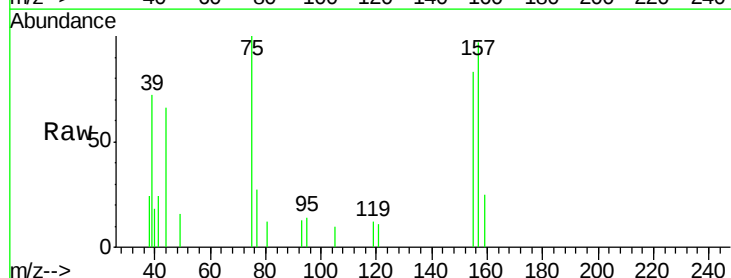
RT: 12.45 min Scan# 3534

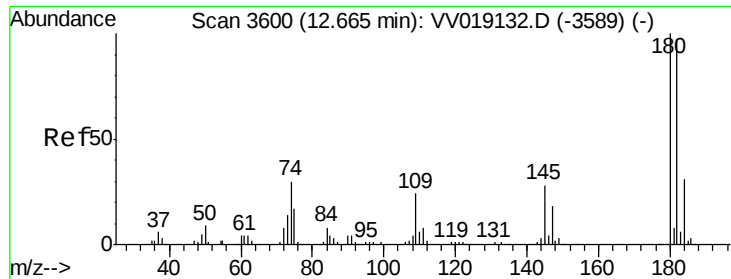
Delta R.T. 0.00 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Tgt Ion:	75	Resp:	1509
Ion Ratio	Lower	Upper	
75	100		
155	83.2	62.2	93.4
157	96.5	79.9	119.9





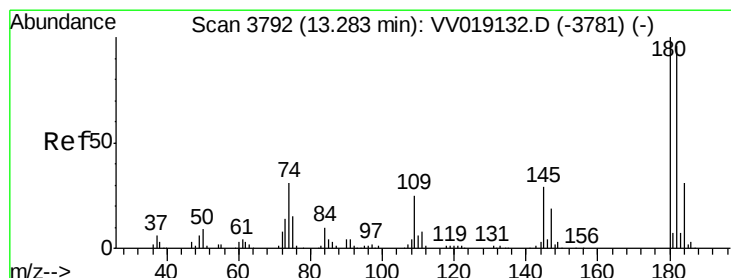
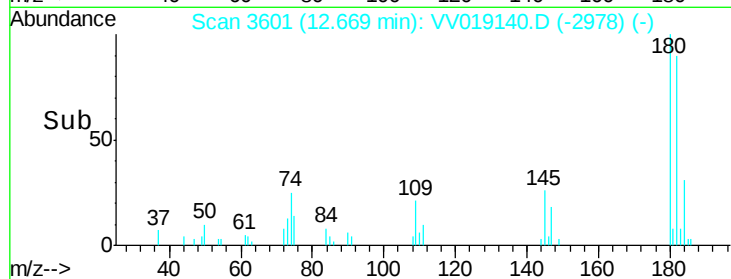
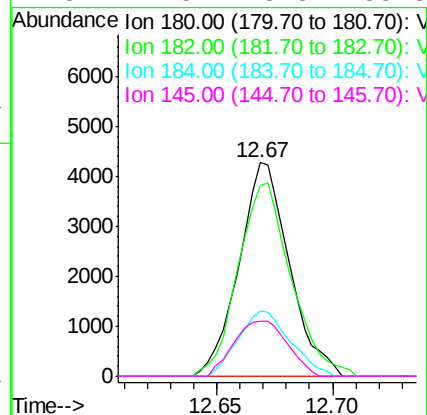
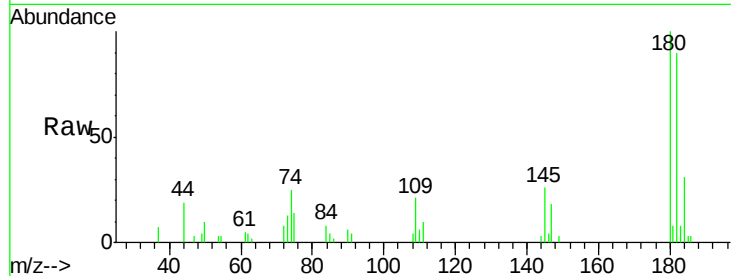
#67
 1,3,5-Trichlorobenzene
 Concen: 2.897 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV019140.D
 Acq: 28 Oct 2020 17:33

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.4	116.0
184	31.6	24.7	37.1
145	27.5	23.5	35.3

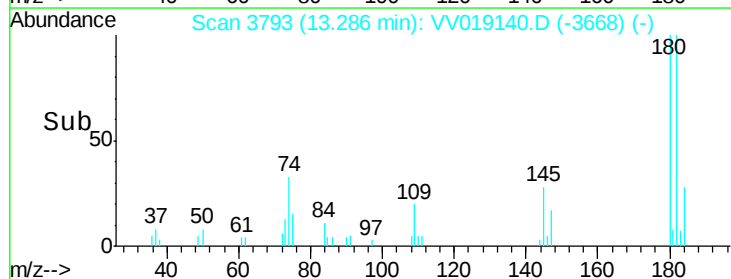
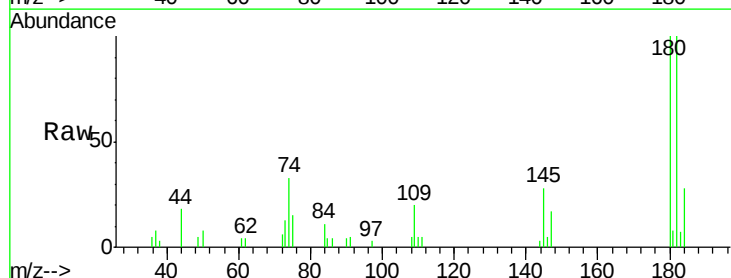
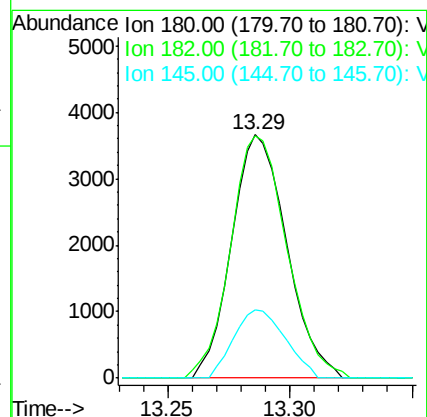
Manual Integrations
 APPROVED

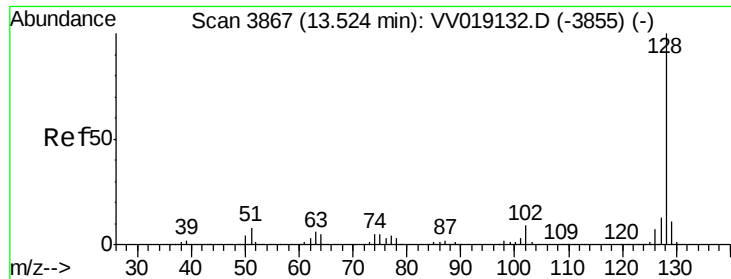
MMDadoda
 10/29/2020 2:58:24 PM



#68
 1,2,4-trichlorobenzene
 Concen: 2.742 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV019140.D
 Acq: 28 Oct 2020 17:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	101.3	77.4	116.2
145	26.0	23.7	35.5





#69

Naphthalene

Concen: 2.108 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.01 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Instrument :

MSVOA_V

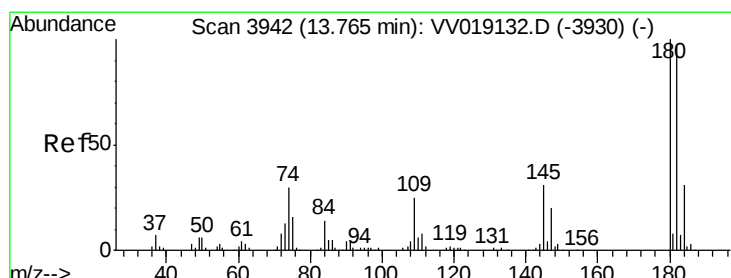
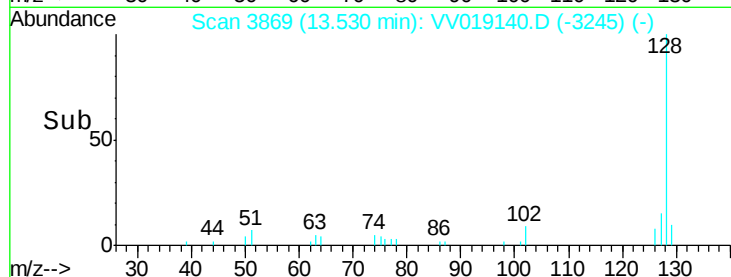
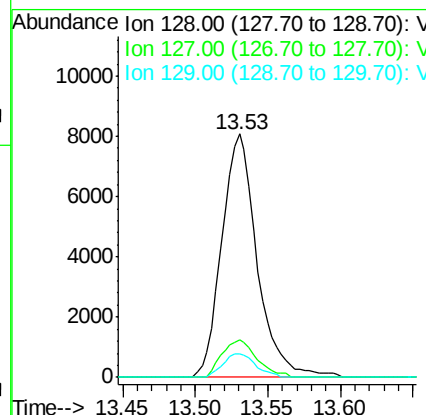
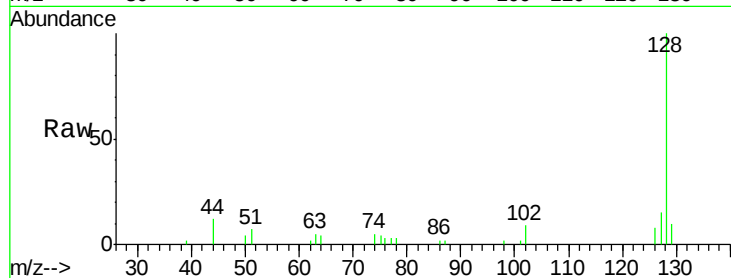
ClientSampled :

MDL05

Tot Ion:	128	Resp:	13635
Ion Ratio	Lower	Upper	
128	100		
127	14.7	10.6	15.8
129	8.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
10/29/2020 2:58:24 PM



#70

1,2,3-Trichlorobenzene

Concen: 2.521 ug/L

RT: 13.77 min Scan# 3944

Delta R.T. 0.01 min

Lab File: VV019140.D

Acq: 28 Oct 2020 17:33

Tgt Ion:	180	Resp:	5362
Ion Ratio	Lower	Upper	
180	100		
182	95.7	76.9	115.3
145	29.1	25.6	38.4

