

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR091719\
 Data File : VR026644.D
 Acq On : 17 Sep 2019 17:42
 Operator : SY/MD
 Sample : MDL04
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:41:53 AM

Quant Time: Sep 18 07:34:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR091219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Sep 18 07:10:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.48	114	320721	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.30	117	266032	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.24	152	118122	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.19	65	49314	5.60	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	112.00%
7) Chloroethane-d5	2.64	69	42464	5.45	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	109.00%
11) 1,1-Dichloroethene-d2	3.65	63	86752	3.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.20%
20) 2-Butanone-d5	6.62	46	85790	44.89	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.78%
24) Chloroform-d	7.23	84	163314	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.20%
26) 1,2-Dichloroethane-d4	7.92	65	57137	5.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.00%
32) Benzene-d6	7.88	84	302612	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.40%
36) 1,2-Dichloropropane-d6	8.92	67	81550	4.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.80%
41) Toluene-d8	9.99	98	210174	4.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.60%
43) trans-1,3-Dichloropropene-	10.25	79	17723	4.42	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.40%
46) 2-Hexanone-d5	10.61	63	58162	48.25	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.50%
57) 1,1,2,2-Tetrachloroethane-	12.38	84	43346	4.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.80%
64) 1,2-Dichlorobenzene-d4	13.53	152	64123	4.28	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	85.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.86	85	9709	0.268 ug/L	96
3) Chloromethane	2.07	50	5167m	0.273 ug/L	
5) Vinyl chloride	2.21	62	4990m	0.263 ug/L	
6) Bromomethane	2.55	94	3248	0.273 ug/L	90
8) Chloroethane	2.69	64	3084m	0.282 ug/L	
9) Trichlorofluoromethane	2.99	101	9510	0.290 ug/L #	35
10) 1,1,2-Trichloro-1,2,2-trif	3.68	101	4551m	0.316 ug/L	
12) 1,1-Dichloroethene	3.65	96	4211m	0.298 ug/L	
13) Acetone	3.75	43	5263	3.662 ug/L	99
14) Carbon disulfide	3.97	76	12421	0.205 ug/L #	87
15) Methyl Acetate	4.22	43	1798	0.298 ug/L	98
16) Methylene chloride	4.43	84	10402m	0.353 ug/L	
17) Methyl tert-butyl Ether	4.94	73	6393m	0.209 ug/L	
18) trans-1,2-Dichloroethene	4.91	96	6789	0.230 ug/L	80
19) 1,1-Dichloroethane	5.73	63	13158	0.237 ug/L	97
21) 2-Butanone	6.73	43	7300	2.780 ug/L	95
22) cis-1,2-Dichloroethene	6.70	96	6588	0.233 ug/L #	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR091719\
 Data File : VR026644.D
 Acq On : 17 Sep 2019 17:42
 Operator : SY/MD
 Sample : MDL04
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:41:53 AM

Quant Time: Sep 18 07:34:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR091219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Sep 18 07:10:19 2019
 Response via : Initial Calibration

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

23) Bromochloromethane	7.09	128	2581m	0.328	ug/L	
25) Chloroform	7.25	83	19502	0.367	ug/L	87
27) 1,2-Dichloroethane	8.02	62	5313	0.284	ug/L #	83
29) 1,1,1-Trichloroethane	7.46	97	10430	0.244	ug/L	92
30) Cyclohexane	7.54	56	5832	0.128	ug/L	87
31) Carbon tetrachloride	7.67	117	8725	0.241	ug/L	92
33) Benzene	7.93	78	26736	0.227	ug/L	100
34) Trichloroethene	8.73	95	8069	0.275	ug/L	85
35) Methylcyclohexane	8.98	83	7561	0.171	ug/L	89
37) 1,2-Dichloropropane	9.02	63	4949	0.208	ug/L #	87
38) Bromodichloromethane	9.30	83	7095	0.280	ug/L #	88
39) cis-1,3-Dichloropropene	9.73	75	4734m	0.187	ug/L	
40) 4-Methyl-2-pentanone	9.88	43	9343	1.566	ug/L #	89
42) Toluene	10.05	91	24248	0.235	ug/L	97
44) trans-1,3-Dichloropropene	10.29	75	3979m	0.245	ug/L	
45) 1,1,2-Trichloroethane	10.46	97	2895	0.285	ug/L #	69
47) Tetrachloroethene	10.52	164	4159	0.240	ug/L #	76
48) 2-Hexanone	10.65	43	10277	2.710	ug/L #	94
49) Dibromochloromethane	10.80	129	2950	0.267	ug/L	99
50) 1,2-Dibromoethane	10.91	107	2582	0.293	ug/L #	66
51) Chlorobenzene	11.33	112	15268	0.255	ug/L #	84
52) Ethylbenzene	11.41	91	21382	0.183	ug/L	89
53) m,p-Xylene	11.52	106	7581	0.181	ug/L	68
54) o-Xylene	11.84	106	6293	0.153	ug/L	89
55) Styrene	11.86	104	9395	0.159	ug/L	90
56) Isopropylbenzene	12.14	105	17809	0.153	ug/L	96
58) 1,1,1,2,2-Tetrachloroethane	12.40	83	2890	0.246	ug/L #	93
59) 1,2,3-Trichloropropane	12.45	75	2439	0.283	ug/L #	84
61) Bromoform	12.02	173	1510	0.327	ug/L #	74
62) 1,3-Dichlorobenzene	13.18	146	9199	0.219	ug/L #	76
63) 1,4-Dichlorobenzene	13.26	146	10593	0.254	ug/L	85
65) 1,2-Dichlorobenzene	13.55	146	11109	0.312	ug/L #	82
66) 1,2-Dibromo-3-chloropropan	14.16	75	602m	0.339	ug/L	
67) 1,3,5-Trichlorobenzene	14.31	180	6775	0.199	ug/L #	93
68) 1,2,4-trichlorobenzene	14.81	180	5068	0.211	ug/L	93
69) Naphthalene	15.02	128	4098	0.128	ug/L #	67
70) 1,2,3-Trichlorobenzene	15.20	180	5158	0.243	ug/L	86

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

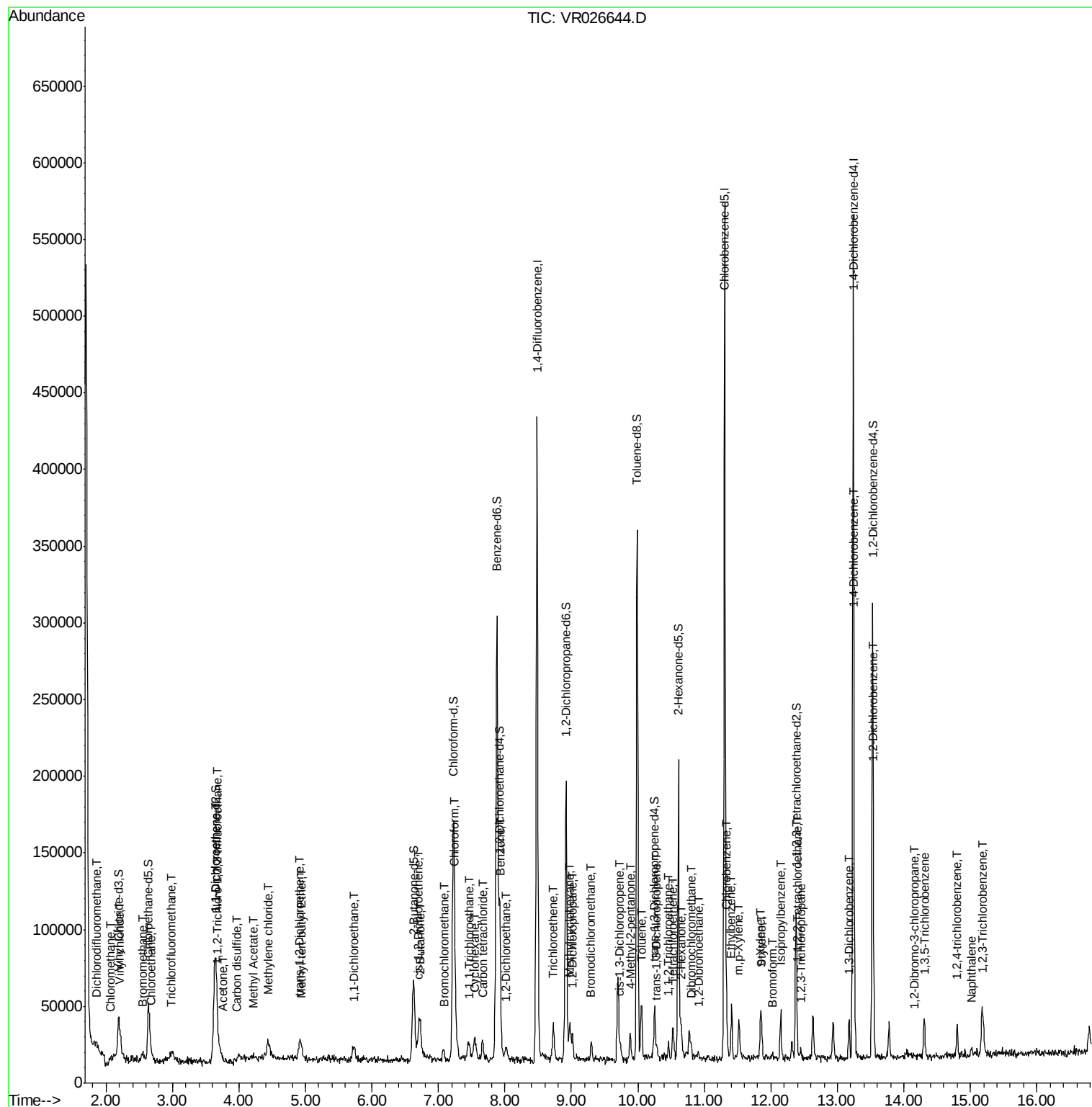
Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR091719\
Data File : VR026644.D
Acq On : 17 Sep 2019 17:42
Operator : SY/MD
Sample : MDL04
Misc : 25mL/MSVOA R/WATER
ALS Vial : 8 Sample Multiplier: 1

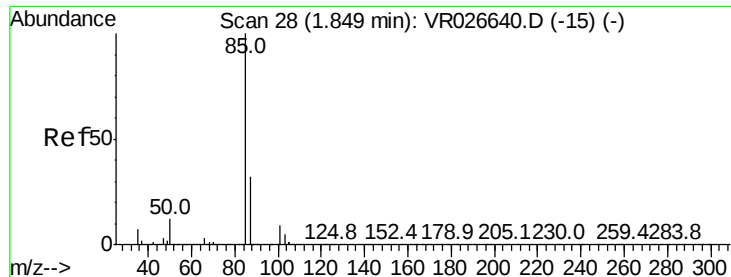
Instrument :
MSVOA_R
ClientSampleId :
MDL04

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:41:53 AM

Quant Time: Sep 18 07:34:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR091219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Sep 18 07:10:19 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.268 ug/L

RT: 1.86 min Scan# 29

Delta R.T. 0.01 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Instrument :

MSVOA_R

ClientSampleId :

MDL04

Tot Ion: 85 Resp: 9709

Ion Ratio Lower Upper

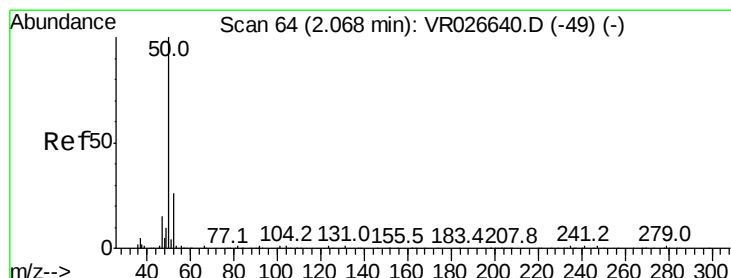
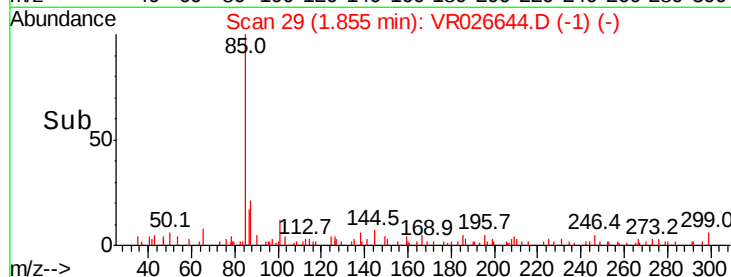
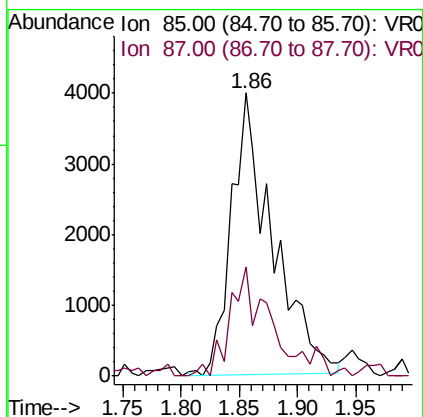
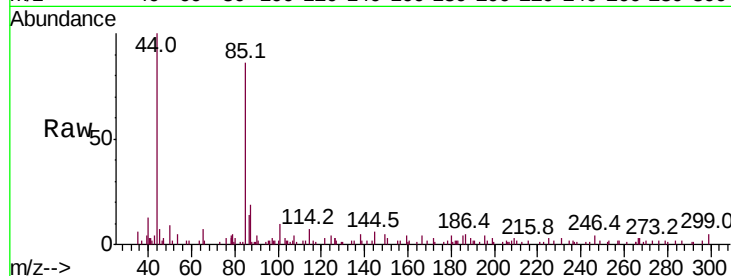
85 100

87 34.7 26.0 39.0

Manual Integrations
APPROVED

MMDadoda

9/20/2019 12:41:53 AM



#3

Chloromethane

Concen: 0.273 ug/L m

RT: 2.07 min Scan# 64

Delta R.T. 0.00 min

Lab File: VR026644.D

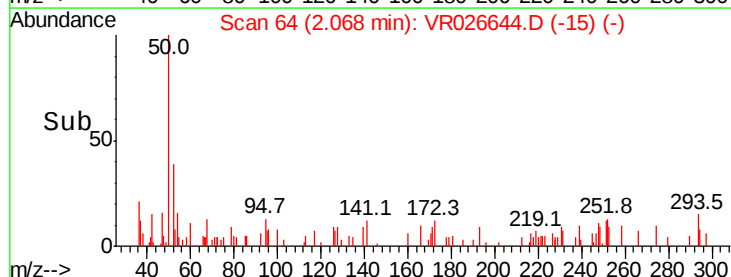
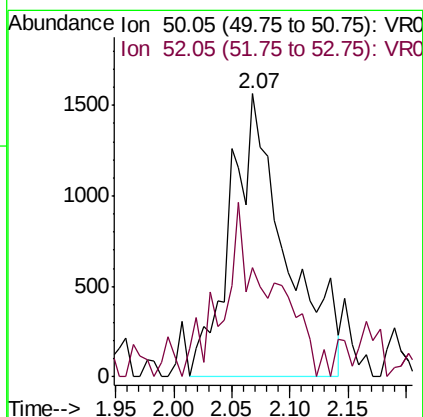
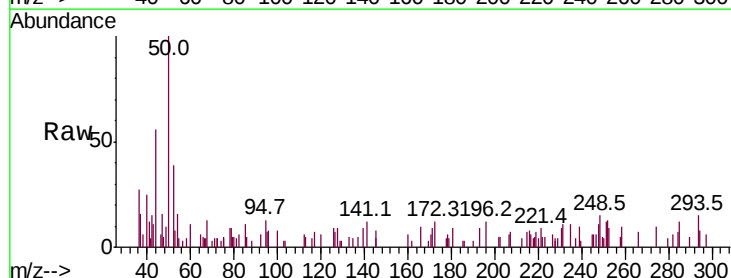
Acq: 17 Sep 2019 17:42

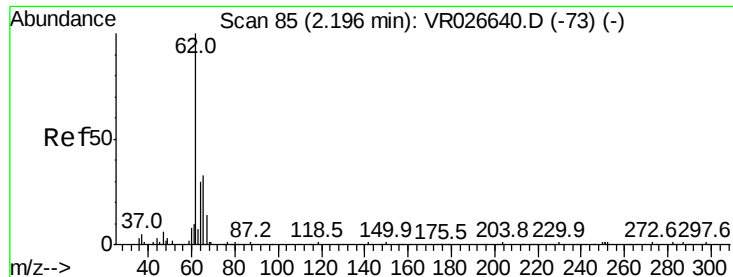
Tgt Ion: 50 Resp: 5167

Ion Ratio Lower Upper

50 100

52 38.7 21.7 40.3





#5

Vinyl chloride

Concen: 0.263 ug/L m

RT: 2.21 min Scan# 87

Delta R.T. 0.01 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Instrument :

MSVOA_R

ClientSampleId :

MDL04

Tot Ion: 62 Resp: 4990

Ion Ratio Lower Upper

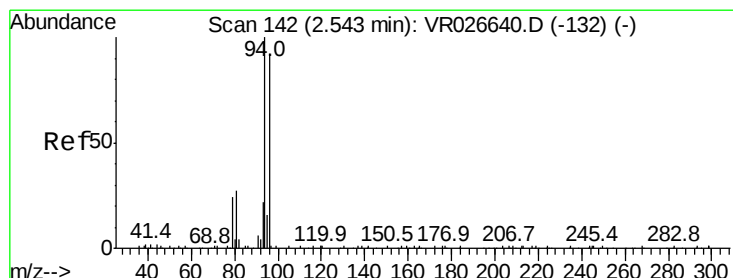
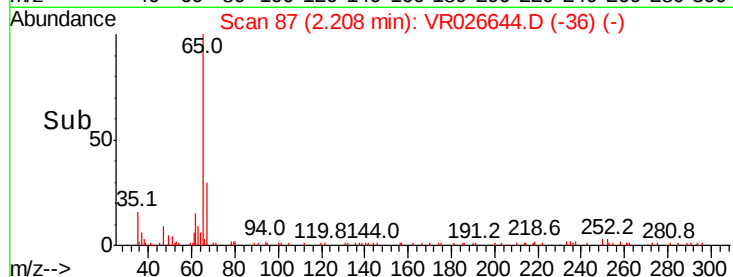
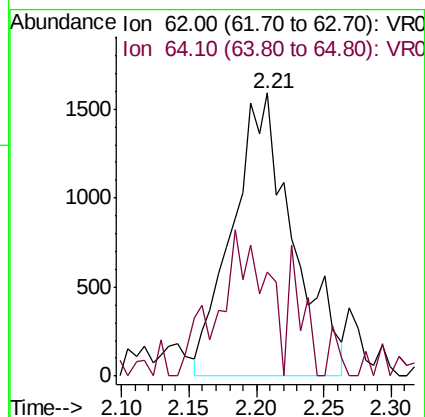
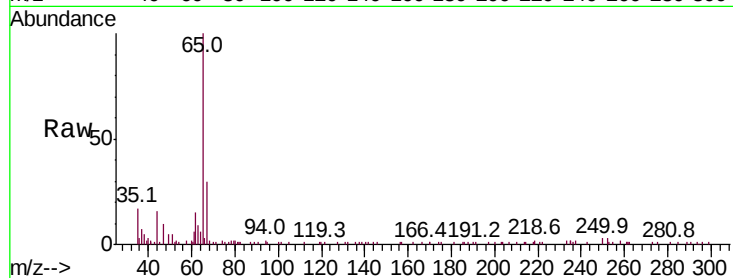
62 100

64 37.0 21.2 39.4

Manual Integrations
APPROVED

MMDadoda

9/20/2019 12:41:53 AM



#6

Bromomethane

Concen: 0.273 ug/L

RT: 2.55 min Scan# 144

Delta R.T. 0.01 min

Lab File: VR026644.D

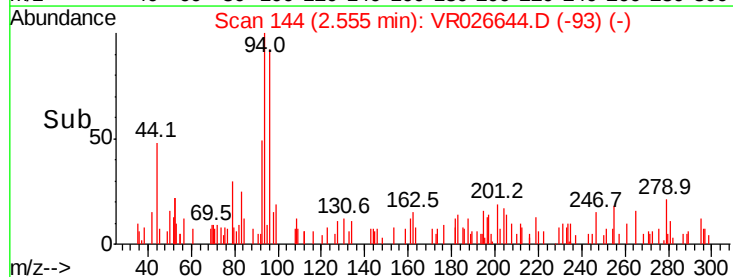
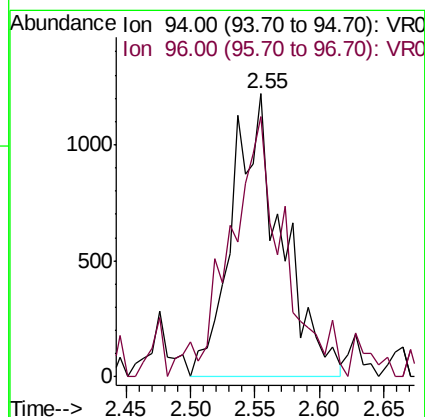
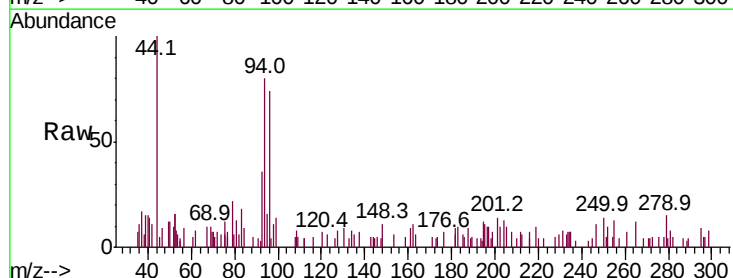
Acq: 17 Sep 2019 17:42

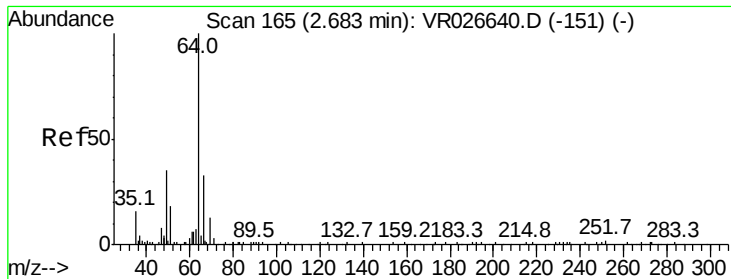
Tgt Ion: 94 Resp: 3248

Ion Ratio Lower Upper

94 100

96 96.9 61.0 113.4





#8

Chloroethane

Concen: 0.282 ug/L m

RT: 2.69 min Scan# 166

Delta R.T. 0.01 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Instrument :

MSVOA_R

ClientSampled :

MDL04

Tot Ion: 64 Resp: 3084

Ion Ratio Lower Upper

64 100

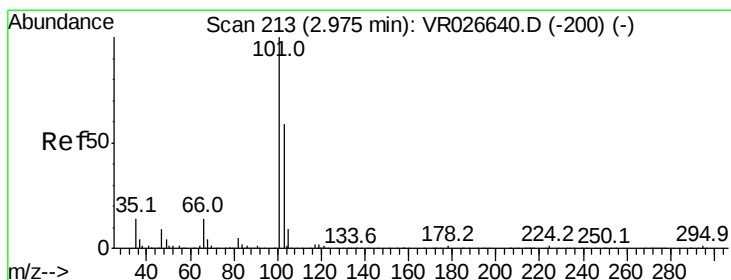
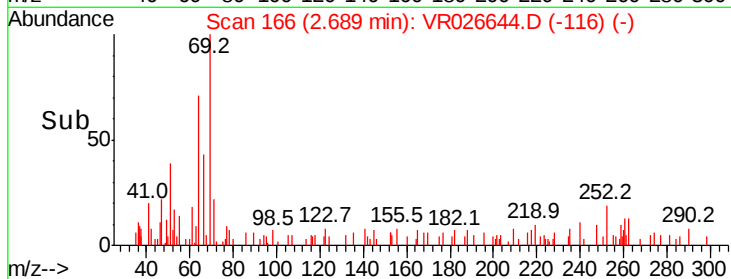
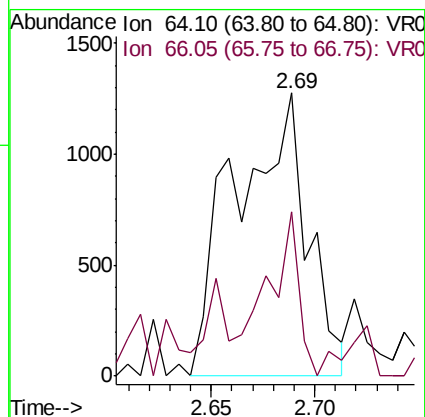
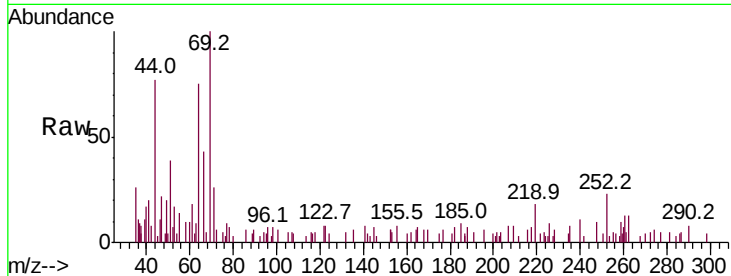
66 58.2 22.3 41.3#

Manual Integrations

APPROVED

MMDadoda

9/20/2019 12:41:53 AM



#9

Trichlorofluoromethane

Concen: 0.290 ug/L

RT: 2.99 min Scan# 215

Delta R.T. 0.01 min

Lab File: VR026644.D

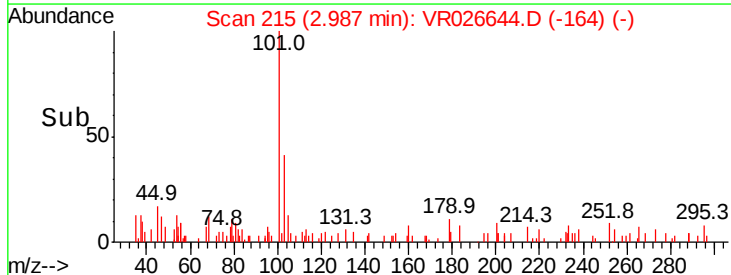
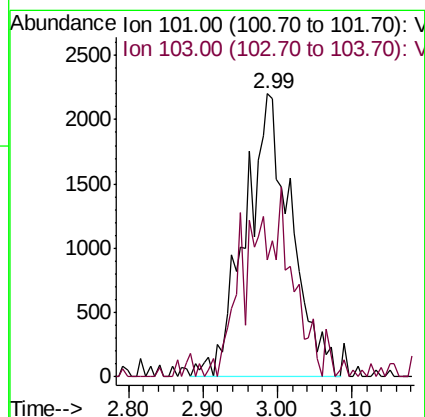
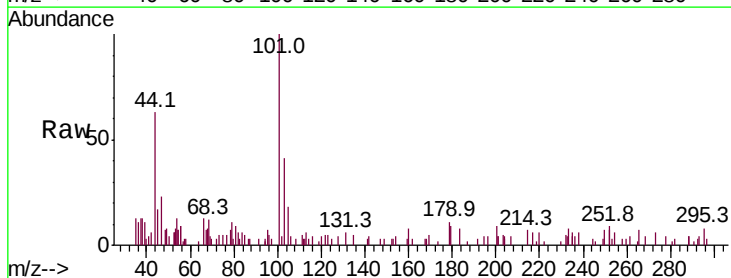
Acq: 17 Sep 2019 17:42

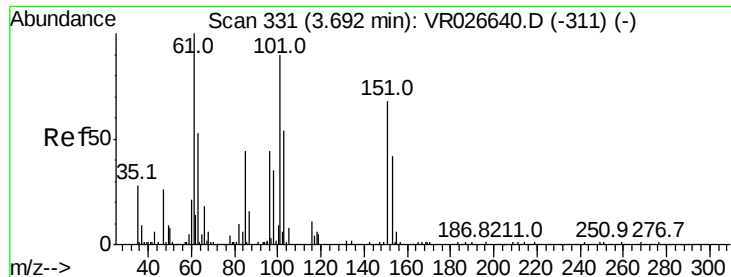
Tgt Ion: 101 Resp: 9510

Ion Ratio Lower Upper

101 100

103 13.3 50.9 76.3#





#10

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

Concen: 0.316 ug/L m

RT: 3.68 min Scan# 329

Delta R.T. -0.01 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Instrument :

MSVOA_R

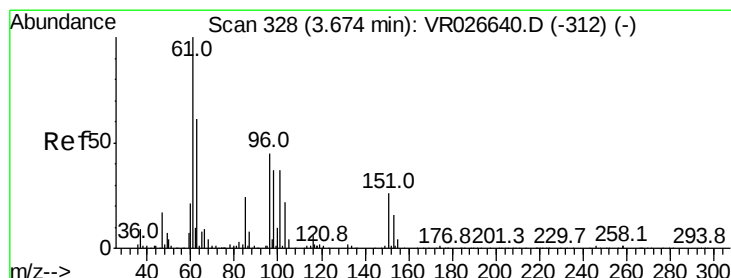
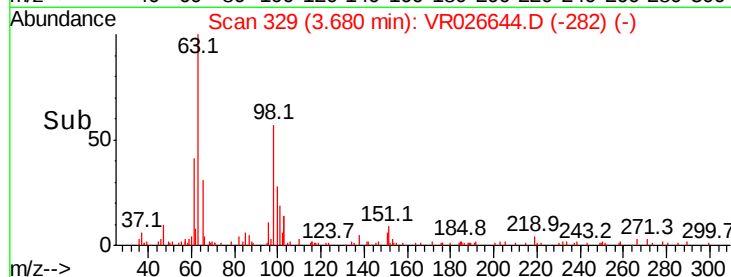
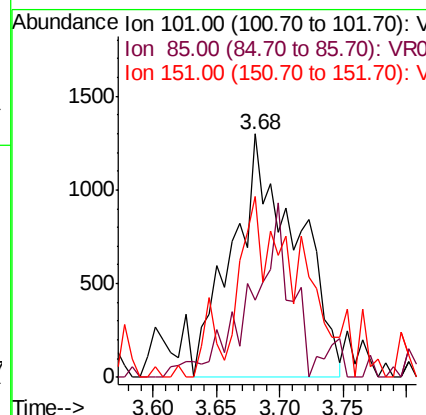
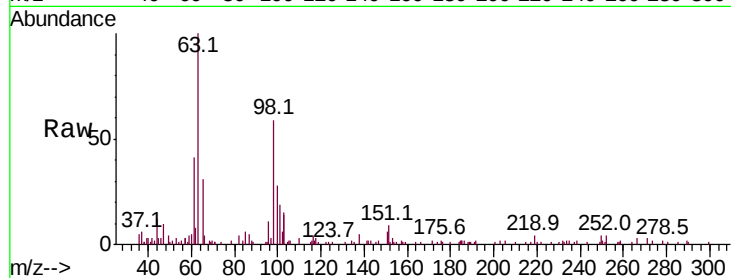
ClientSampleId :

MDL04

Tot Ion:	101	Resp:	4551
Ion Ratio	Lower	Upper	
101	100		
85	46.4	39.7	59.5
151	21.1	58.4	87.6#

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:41:53 AM



#12

1,1-Dichloroethene

Concen: 0.298 ug/L m

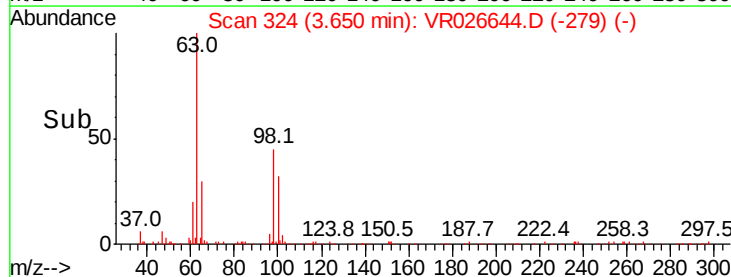
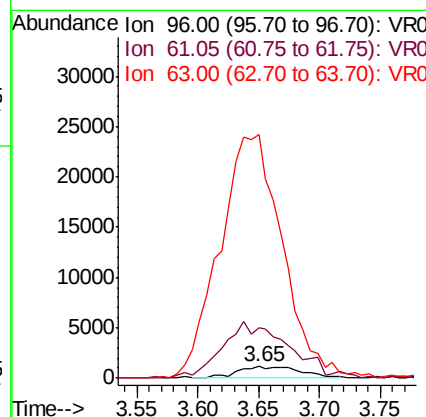
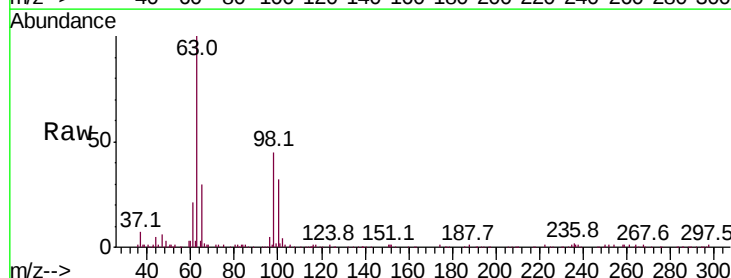
RT: 3.65 min Scan# 324

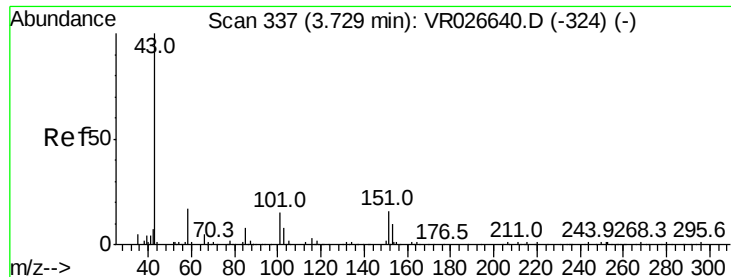
Delta R.T. -0.02 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Tgt Ion:	96	Resp:	4211
Ion Ratio	Lower	Upper	
96	100		
61	441.3	143.3	266.1#
63	2127.2	112.6	209.0#





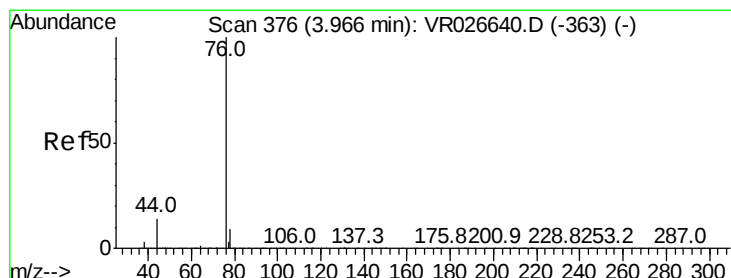
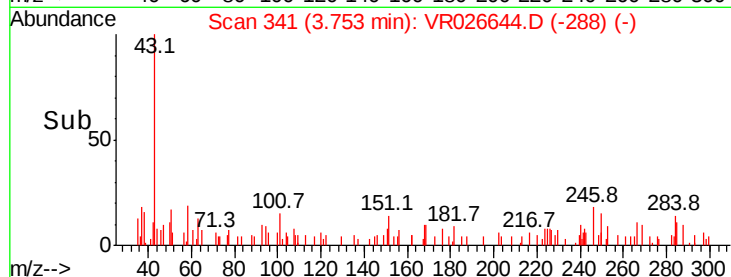
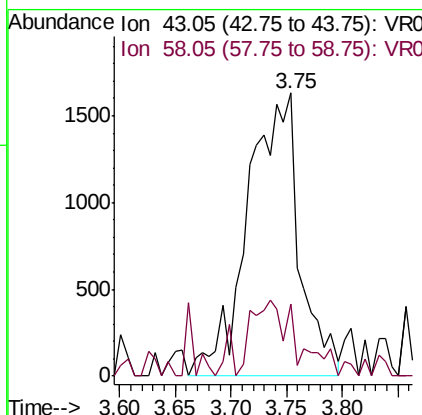
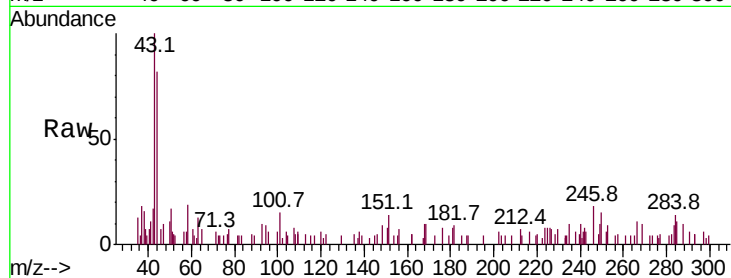
#13
Acetone
Concen: 3.662 ug/L
RT: 3.75 min Scan# 341
Delta R.T. 0.02 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Instrument :
MSVOA_R
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
43	100		
58	20.6	0.0	41.8

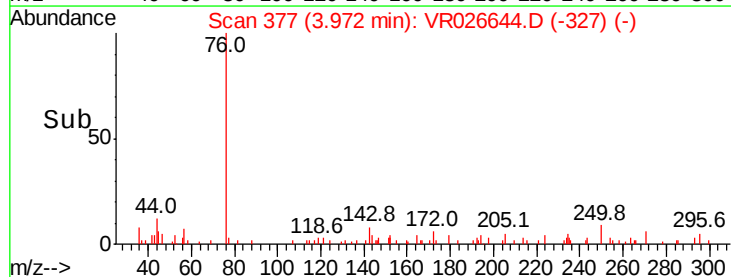
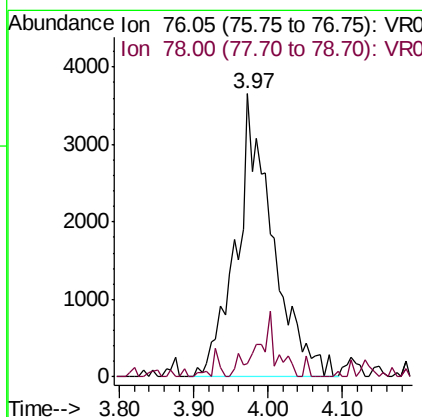
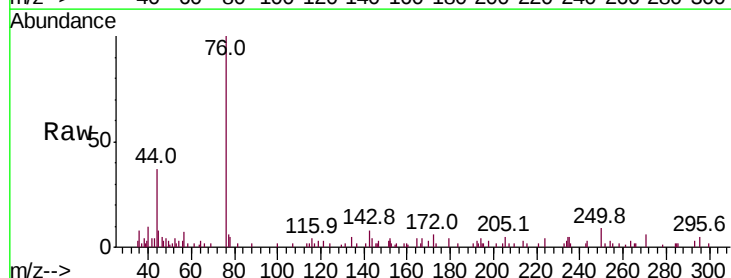
Manual Integrations
APPROVED

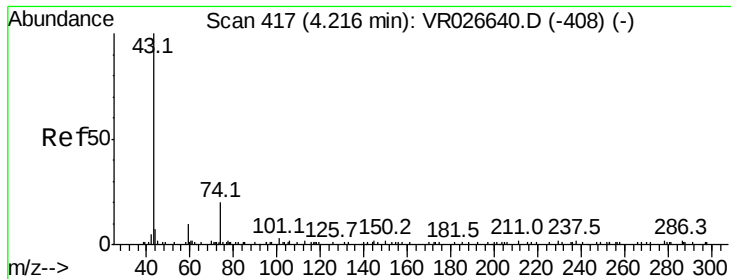
MMDadoda
9/20/2019 12:41:53 AM



#14
Carbon disulfide
Concen: 0.205 ug/L
RT: 3.97 min Scan# 377
Delta R.T. 0.01 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Tgt Ion	Ratio	Lower	Upper
76	100		
78	4.5	7.4	11.0#





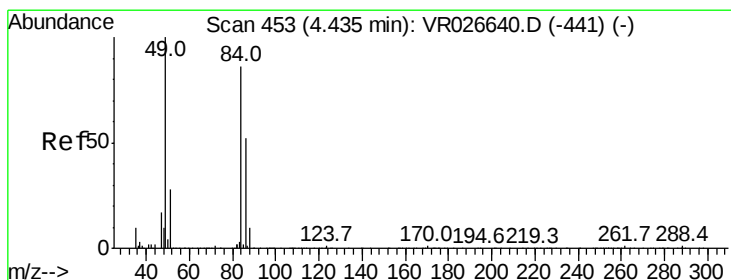
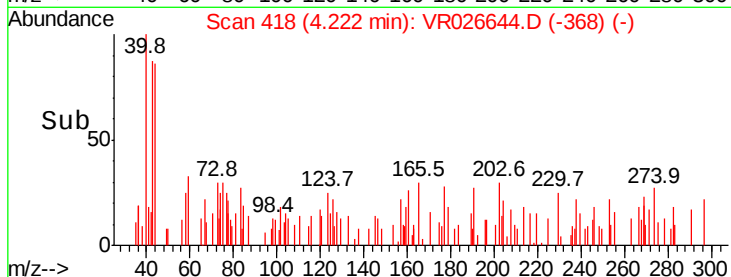
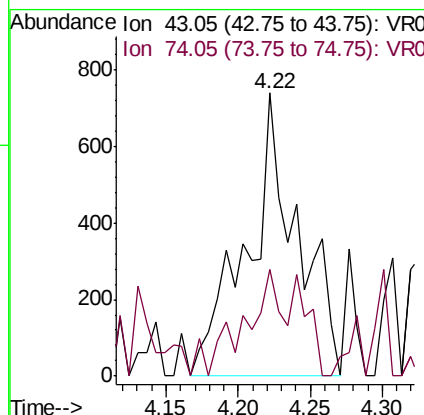
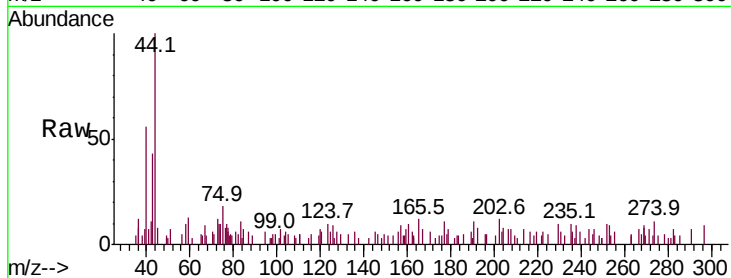
#15
Methyl Acetate
Concen: 0.298 ug/L
RT: 4.22 min Scan# 418
Delta R.T. 0.01 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Instrument :
MSVOA_R
ClientSampleId :
MDL04

Tot Ion: 43 Resp: 1798
Ion Ratio Lower Upper
43 100
74 20.8 17.5 26.3

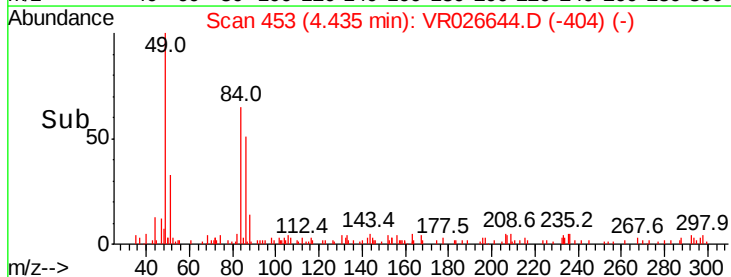
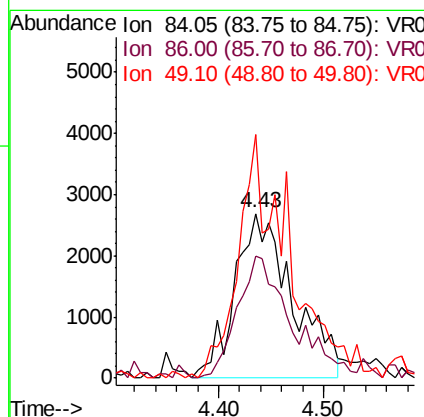
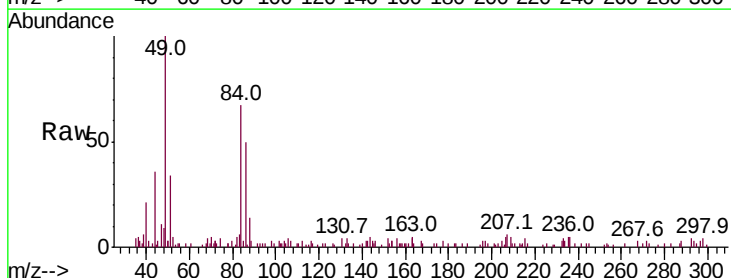
Manual Integrations
APPROVED

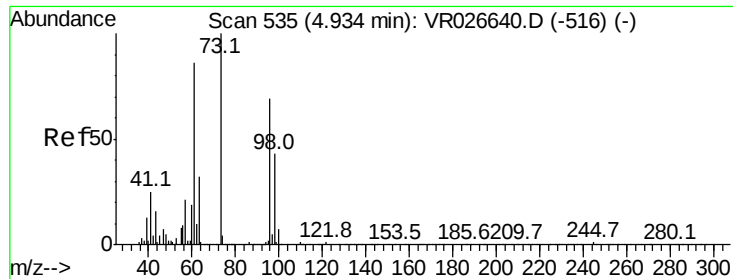
MMDadoda
9/20/2019 12:41:53 AM



#16
Methylene chloride
Concen: 0.353 ug/L m
RT: 4.43 min Scan# 453
Delta R.T. 0.00 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Tgt Ion: 84 Resp: 10402
Ion Ratio Lower Upper
84 100
86 73.9 44.2 82.0
49 148.2 82.3 152.9





#17

Methyl tert-butyl Ether

Concen: 0.209 ug/L m

RT: 4.94 min Scan# 536

Delta R.T. 0.01 min

Lab File: VR026644.D

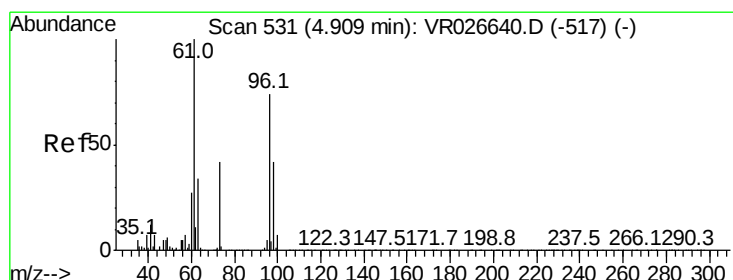
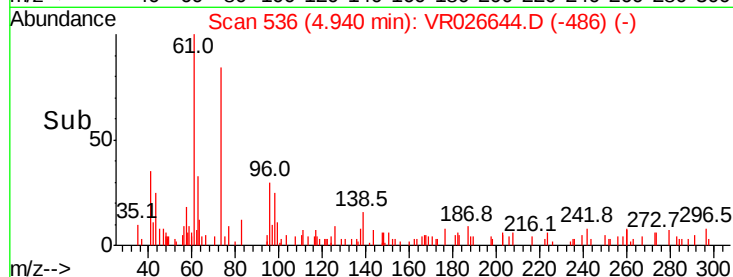
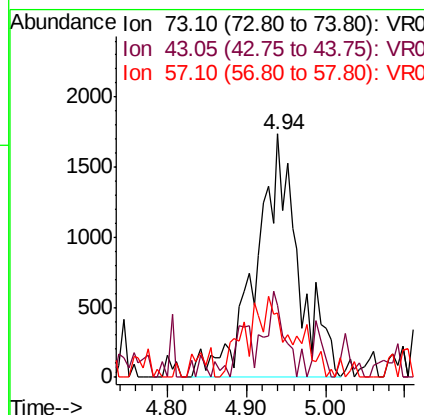
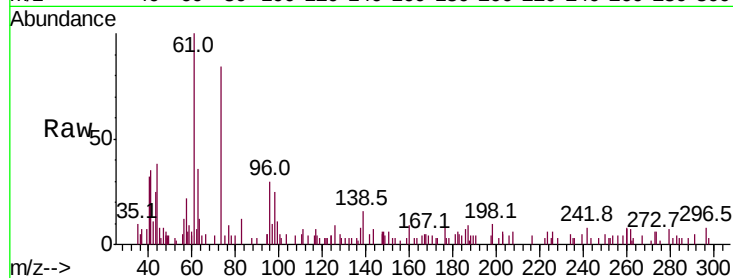
Acq: 17 Sep 2019 17:42

Instrument :
MSVOA_R
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
73	100		
43	15.7	14.7	22.1
57	5.6	18.9	28.3#

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:41:53 AM



#18

trans-1,2-Dichloroethene

Concen: 0.230 ug/L

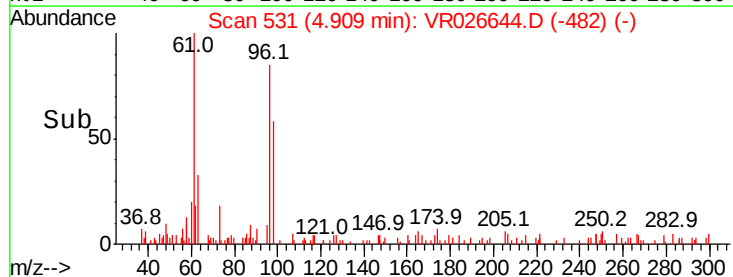
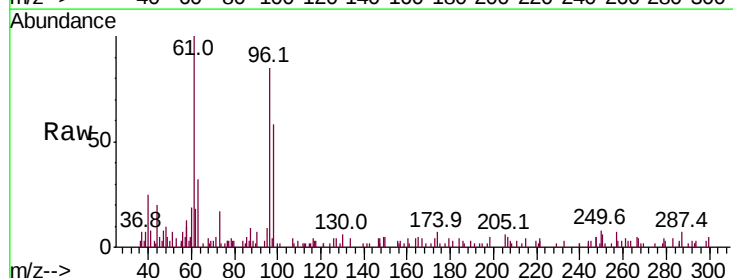
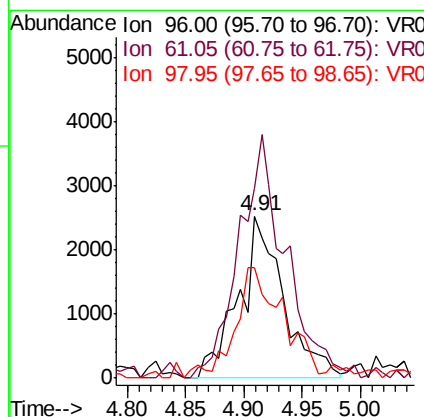
RT: 4.91 min Scan# 531

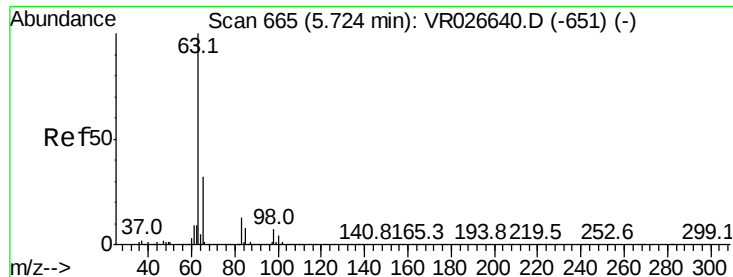
Delta R.T. 0.00 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Tgt Ion	Ratio	Lower	Upper
96	100		
61	117.2	104.4	194.0
98	68.5	44.2	82.0





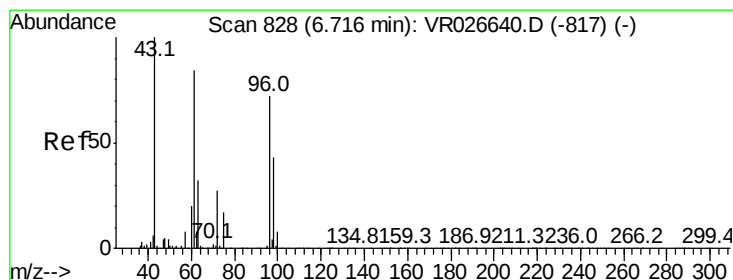
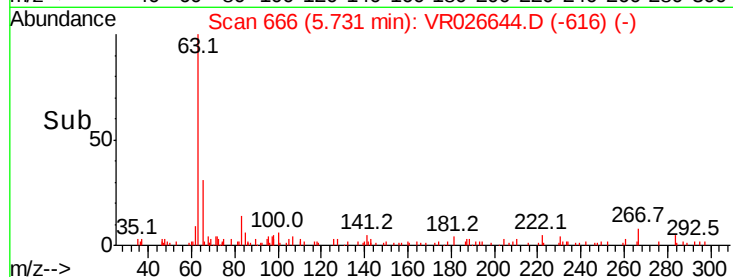
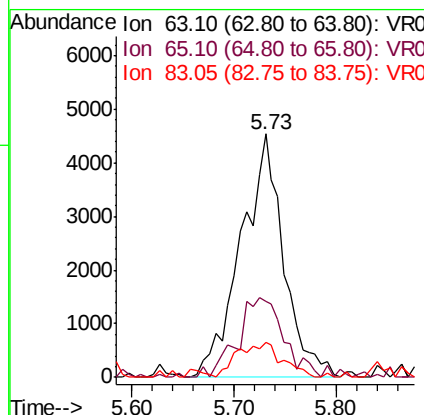
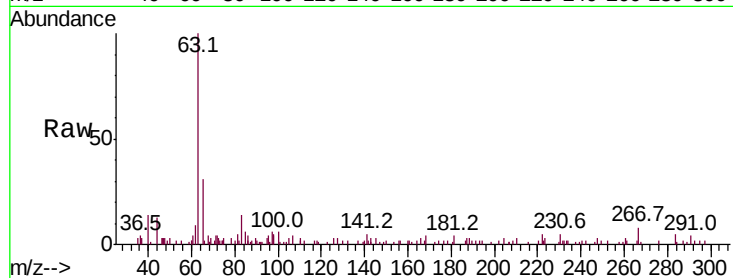
#19
 1,1-Dichloroethane
 Concen: 0.237 ug/L
 RT: 5.73 min Scan# 666
 Delta R.T. 0.01 min
 Lab File: VR026644.D
 Acq: 17 Sep 2019 17:42

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL04

Tot Ion:	63	Resp:	13158
Ion Ratio	Lower	Upper	
63	100		
65	31.1	22.5	41.9
83	14.4	8.6	16.0

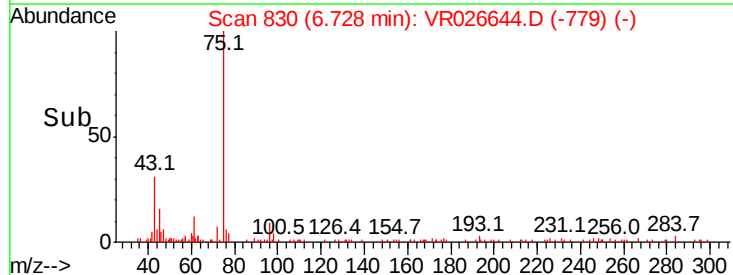
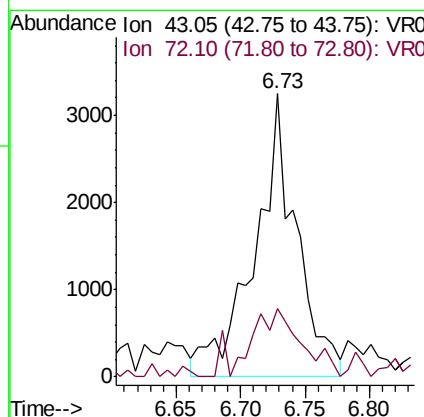
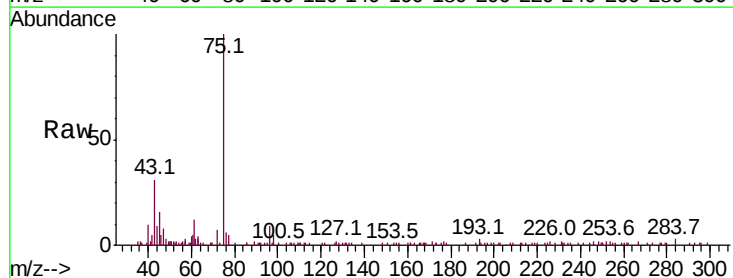
Manual Integrations
 APPROVED

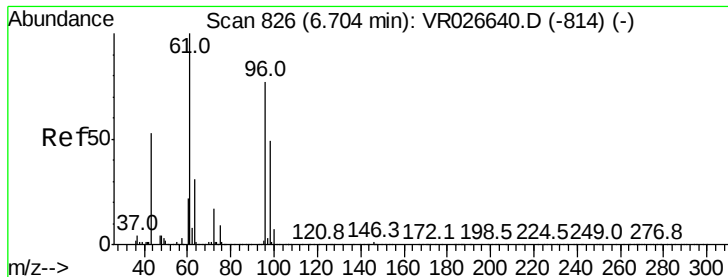
MMDadoda
 9/20/2019 12:41:53 AM



#21
 2-Butanone
 Concen: 2.780 ug/L
 RT: 6.73 min Scan# 830
 Delta R.T. 0.01 min
 Lab File: VR026644.D
 Acq: 17 Sep 2019 17:42

Tgt Ion:	43	Resp:	7300
Ion Ratio	Lower	Upper	
43	100		
72	27.4	15.0	45.1





#22

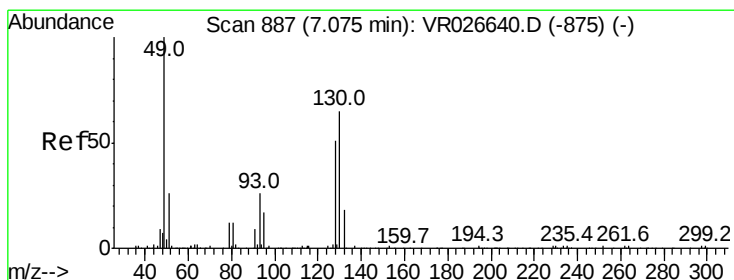
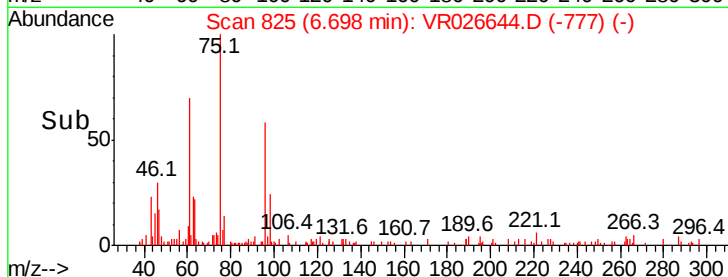
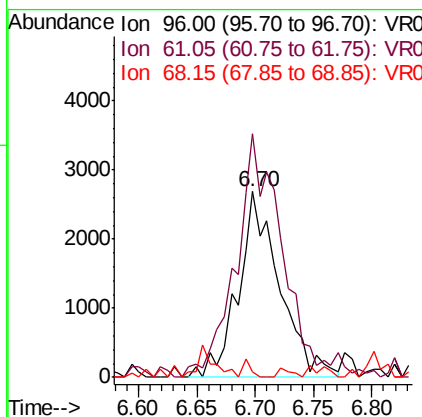
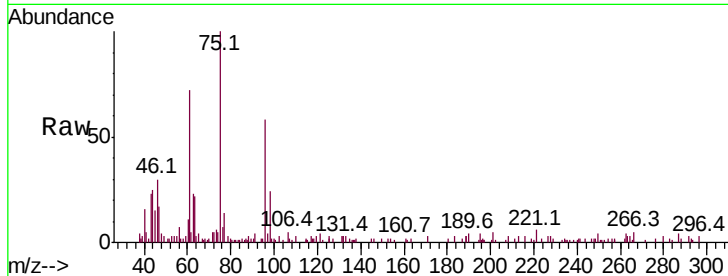
cis-1,2-Dichloroethene
Concen: 0.233 ug/L
RT: 6.70 min Scan# 825
Delta R.T. -0.01 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Instrument :
MSVOA_R
ClientSampleId :
MDL04

Tot Ion	Ratio	Resp	Lower	Upper
96	100	6588		
61	131.3		95.4	177.2
68	2.7		0.0	0.0#

Manual Integrations
APPROVED

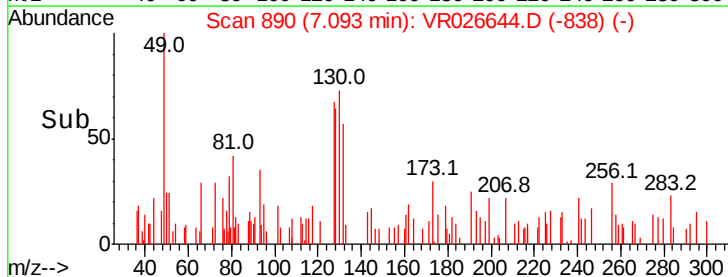
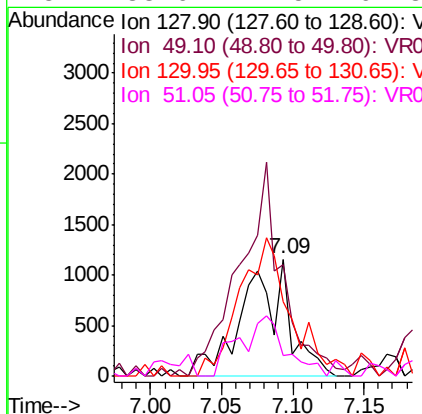
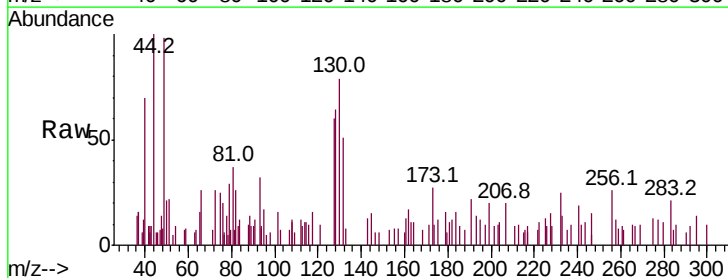
MMDadoda
9/20/2019 12:41:53 AM

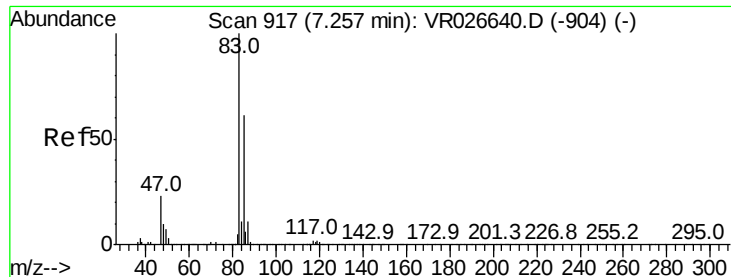


#23

Bromochloromethane
Concen: 0.328 ug/L m
RT: 7.09 min Scan# 890
Delta R.T. 0.02 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	2581		
49	151.4		118.6	220.3
130	123.1		80.6	149.6
51	33.6		41.5	62.3#





#25

Chloroform

Concen: 0.367 ug/L

RT: 7.25 min Scan# 916

Delta R.T. -0.01 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Instrument :

MSVOA_R

ClientSampleId :

MDL04

Tot Ion: 83 Resp: 19502

Ion Ratio Lower Upper

83 100

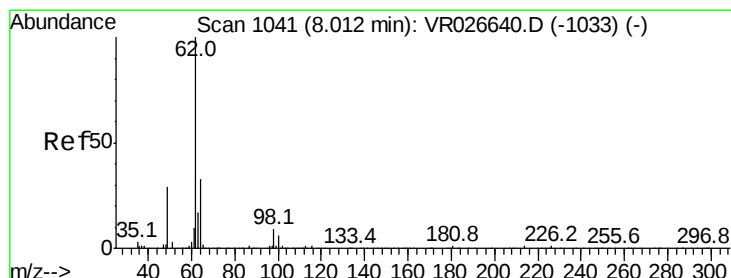
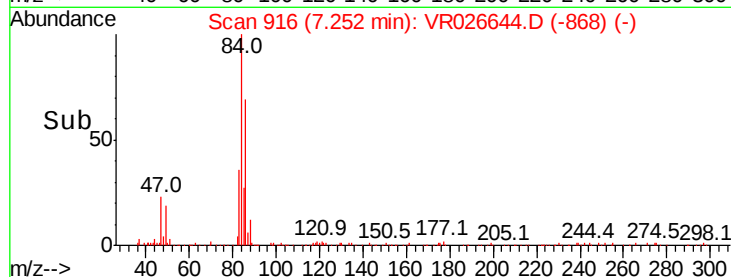
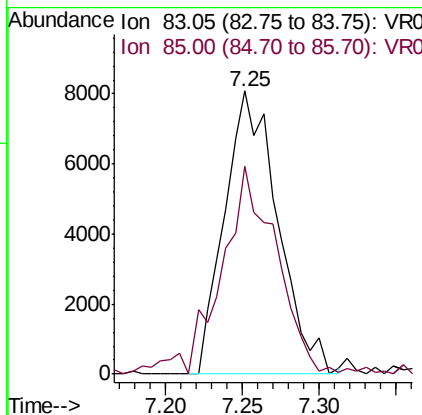
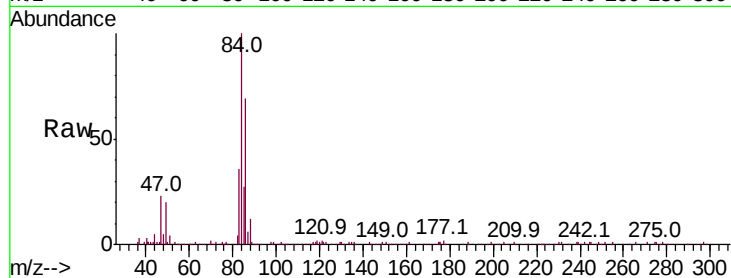
85 73.4 44.3 82.3

Manual Integrations

APPROVED

MMDadoda

9/20/2019 12:41:53 AM



#27

1,2-Dichloroethane

Concen: 0.284 ug/L

RT: 8.02 min Scan# 1042

Delta R.T. 0.01 min

Lab File: VR026644.D

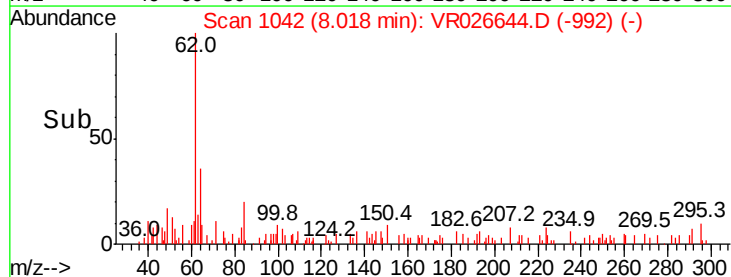
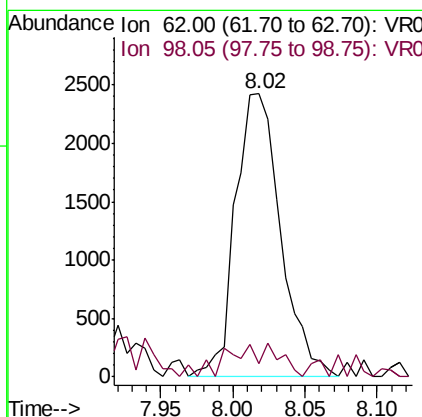
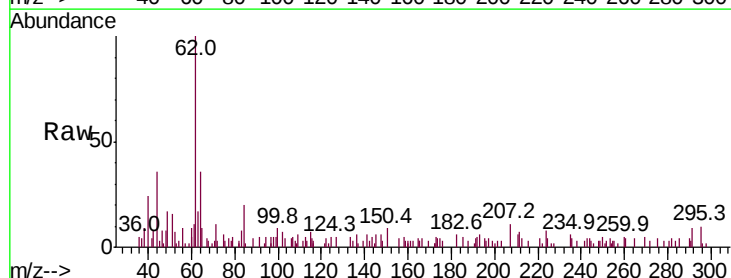
Acq: 17 Sep 2019 17:42

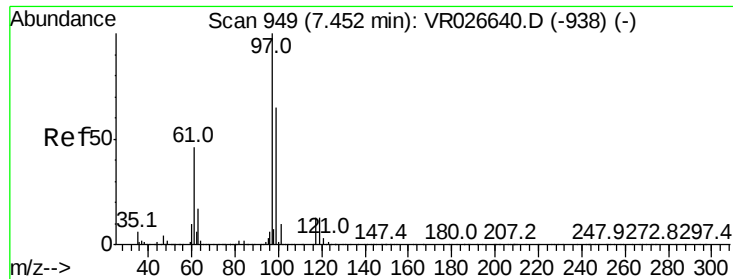
Tgt Ion: 62 Resp: 5313

Ion Ratio Lower Upper

62 100

98 4.7 9.0 13.4#





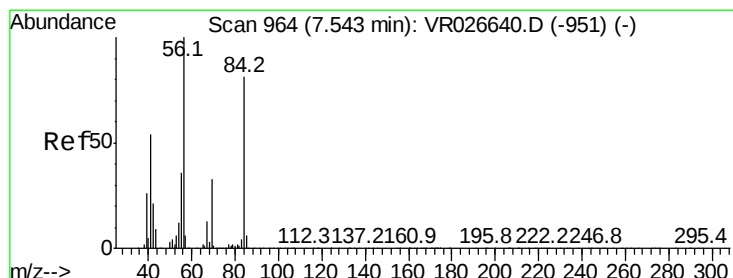
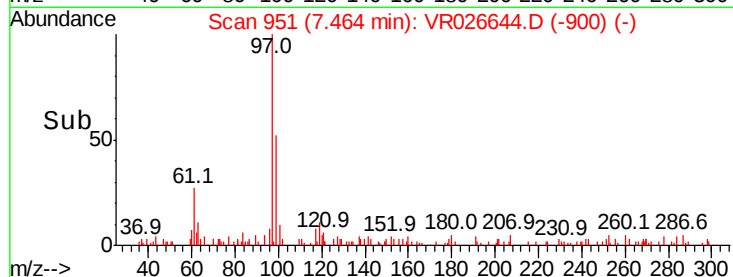
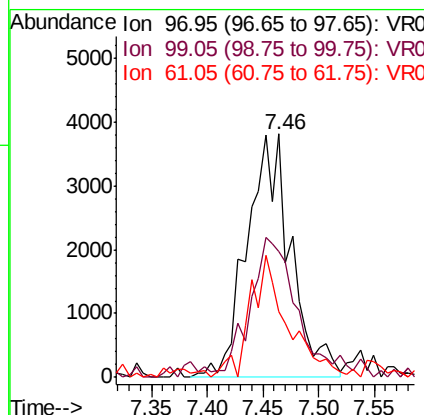
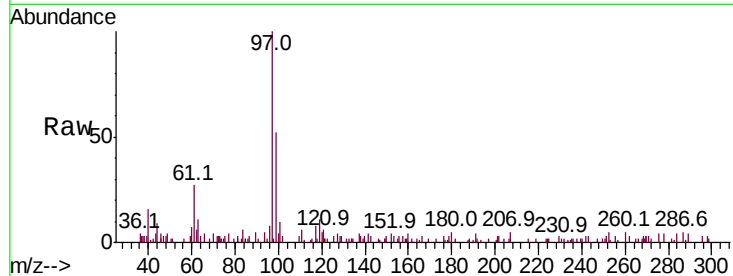
#29
1,1,1-Trichloroethane
Concen: 0.244 ug/L
RT: 7.46 min Scan# 951
Delta R.T. 0.01 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Instrument :
MSVOA_R
ClientSampled :
MDL04

Tot Ion	Ratio	Resp	Lower	Upper
97	100			
99	55.6		50.1	75.1
61	43.5		37.8	56.8

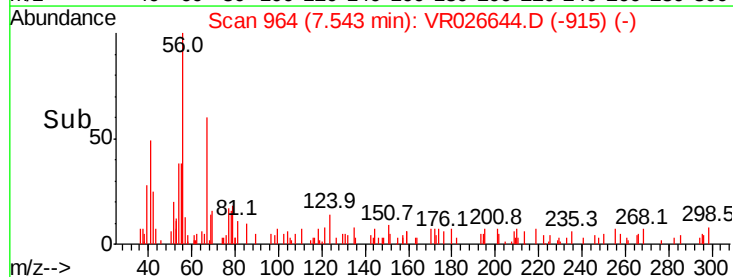
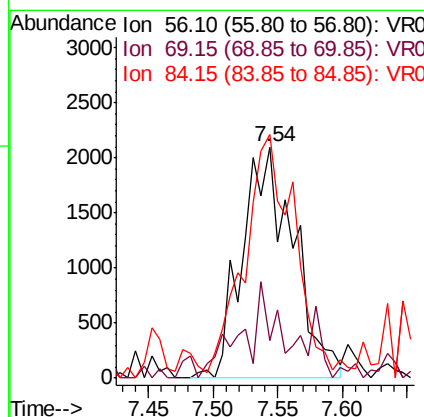
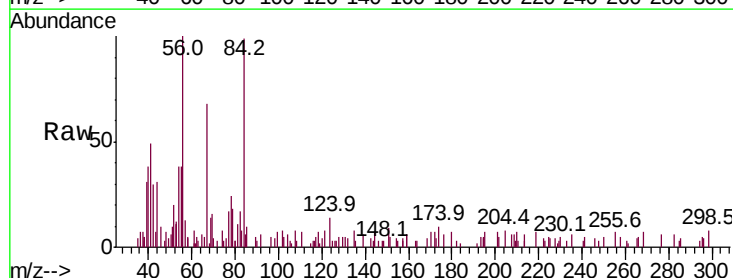
Manual Integrations
APPROVED

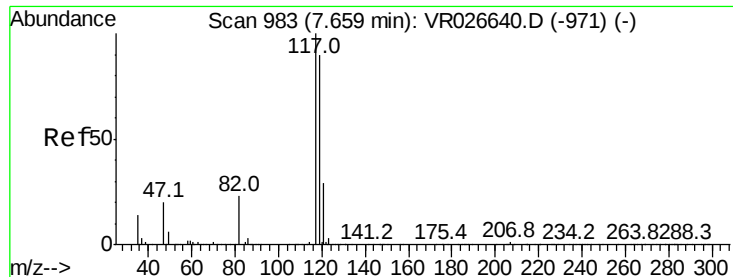
MMDadoda
9/20/2019 12:41:53 AM



#30
Cyclohexane
Concen: 0.128 ug/L
RT: 7.54 min Scan# 964
Delta R.T. 0.00 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
56	100			
69	27.0		25.9	38.9
84	97.0		67.6	101.4





#31

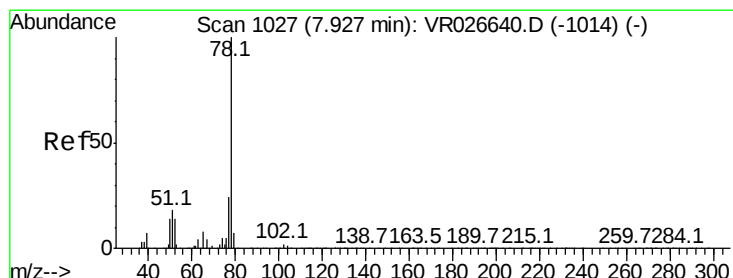
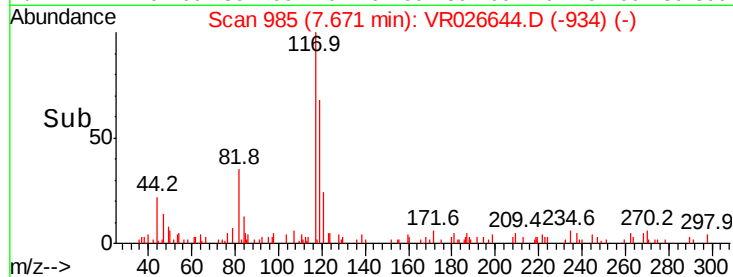
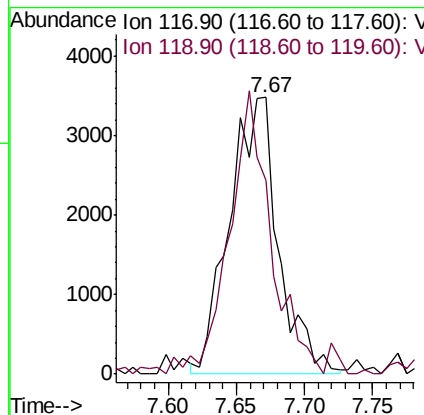
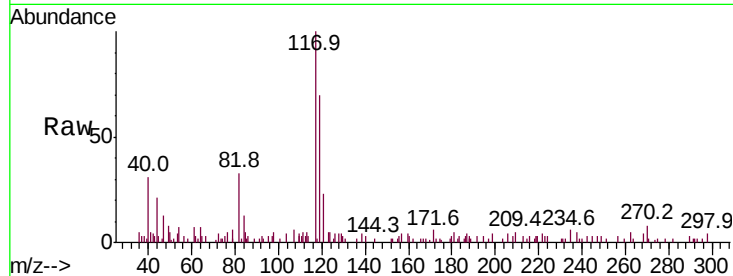
Carbon tetrachloride
Concen: 0.241 ug/L
RT: 7.67 min Scan# 985
Delta R.T. 0.01 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Instrument :
MSVOA_R
ClientSampleId :
MDL04

Tot Ion:117 Resp: 8725
Ion Ratio Lower Upper
117 100
119 87.6 76.6 115.0

Manual Integrations
APPROVED

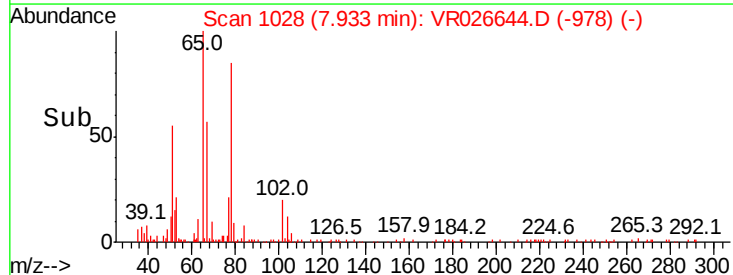
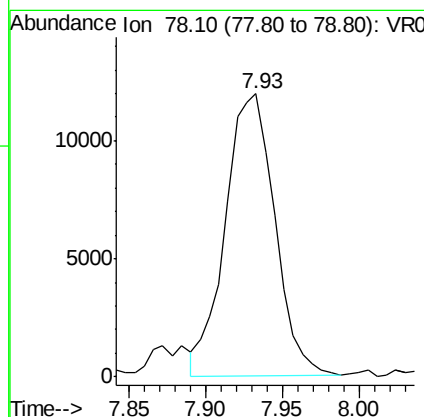
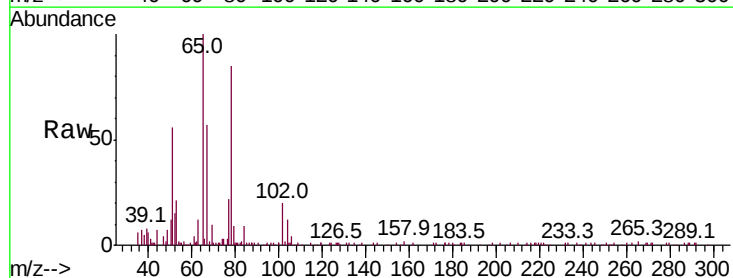
MMDadoda
9/20/2019 12:41:53 AM

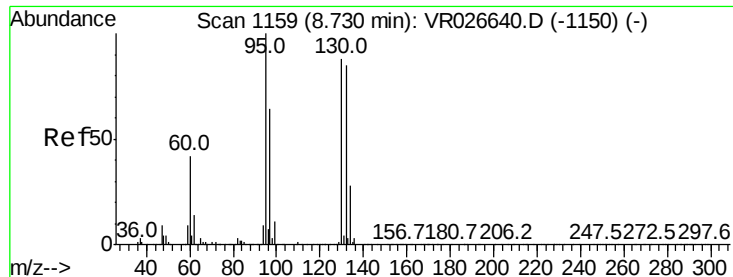


#33

Benzene
Concen: 0.227 ug/L
RT: 7.93 min Scan# 1028
Delta R.T. 0.01 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Tgt Ion: 78 Resp: 26736





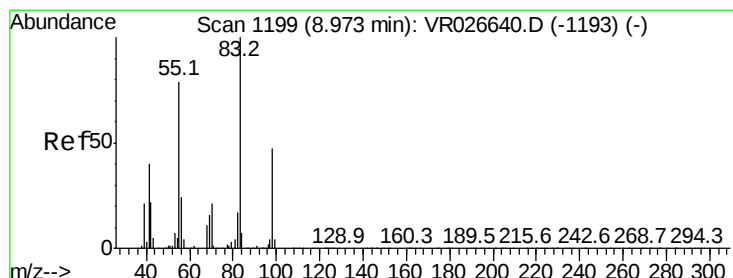
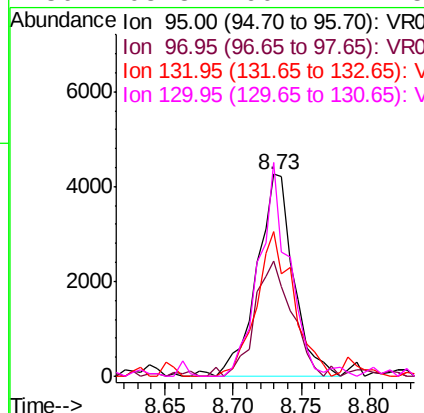
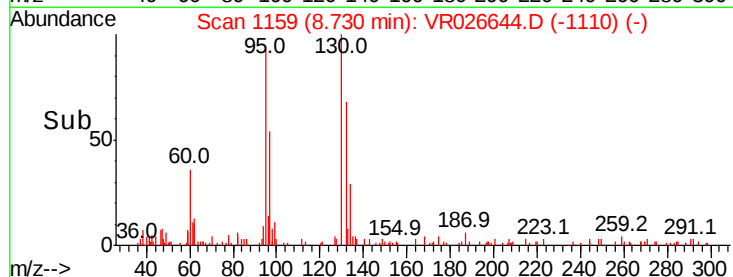
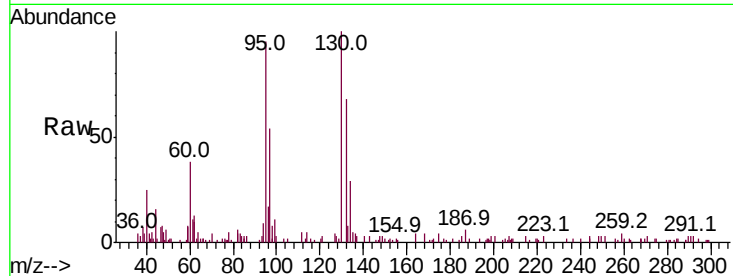
#34
 Trichloroethene
 Concen: 0.275 ug/L
 RT: 8.73 min Scan# 1159
 Delta R.T. 0.00 min
 Lab File: VR026644.D
 Acq: 17 Sep 2019 17:42

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL04

Tot Ion	95	Resp:	8069
Ion	Ratio	Lower	Upper
95	100		
97	56.8	45.6	84.6
132	71.8	57.3	106.5
130	105.8	60.1	111.5

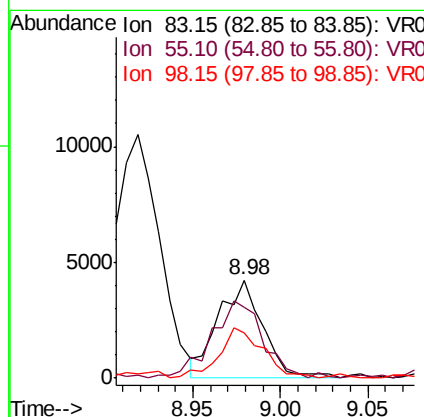
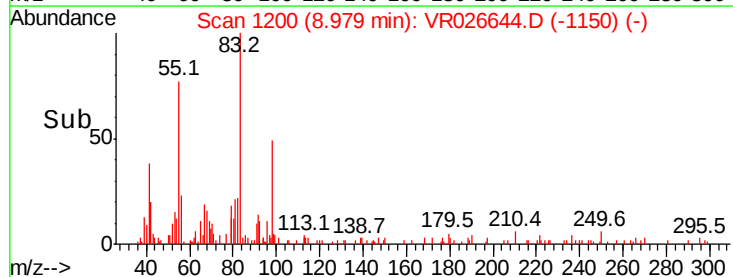
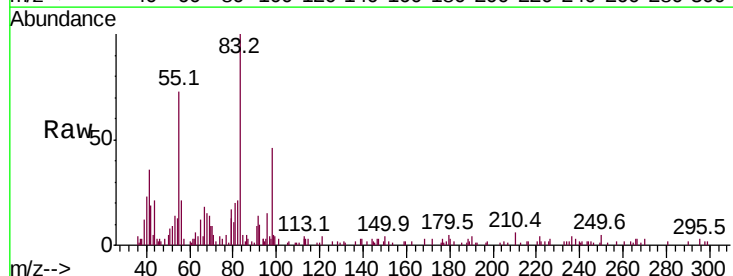
Manual Integrations
 APPROVED

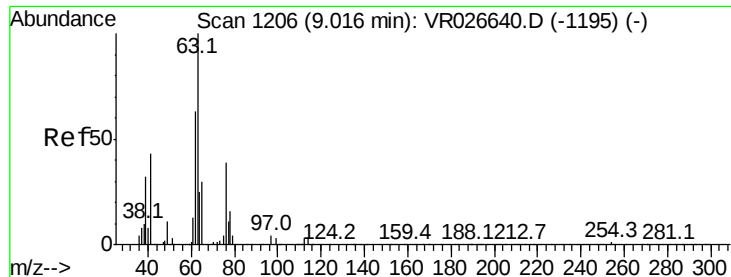
MMDadoda
 9/20/2019 12:41:53 AM



#35
 Methylcyclohexane
 Concen: 0.171 ug/L
 RT: 8.98 min Scan# 1200
 Delta R.T. 0.01 min
 Lab File: VR026644.D
 Acq: 17 Sep 2019 17:42

Tgt Ion	83	Resp:	7561
Ion	Ratio	Lower	Upper
83	100		
55	89.4	63.5	95.3
98	50.1	35.4	53.0





#37

1,2-Dichloropropane

Concen: 0.208 ug/L

RT: 9.02 min Scan# 1207

Delta R.T. 0.01 min

Lab File: VR026644.D

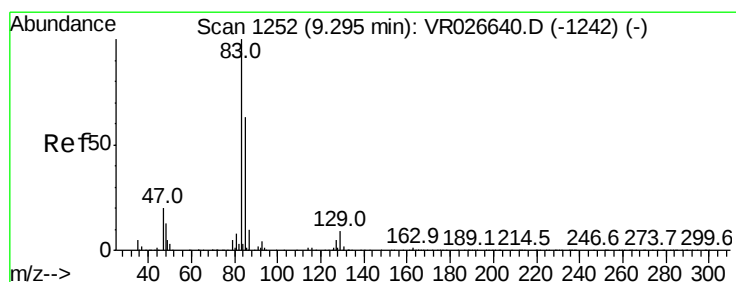
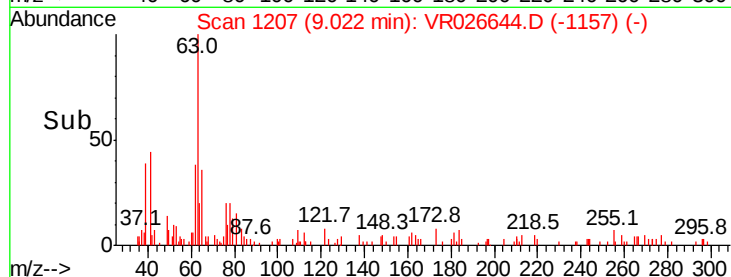
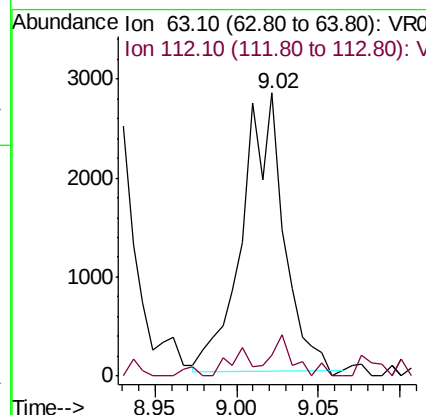
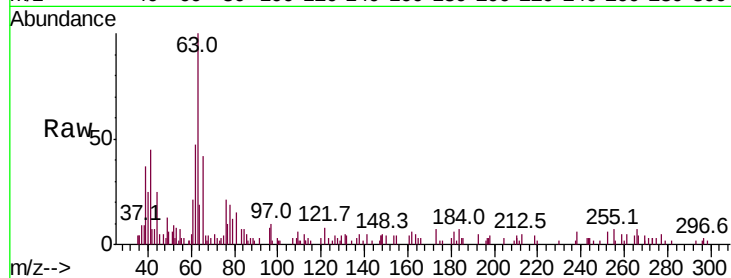
Acq: 17 Sep 2019 17:42

Instrument :
MSVOA_R
ClientSampleId :
MDL04

Tot Ion	Ratio	Resp	Lower	Upper
63	100	4949		
112	8.3		3.1	4.7#

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:41:53 AM



#38

Bromodichloromethane

Concen: 0.280 ug/L

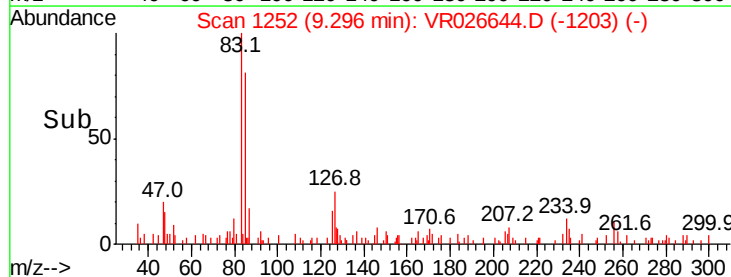
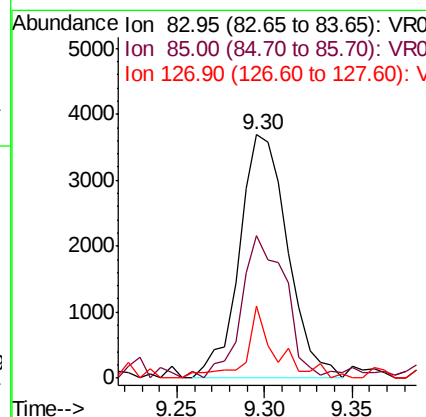
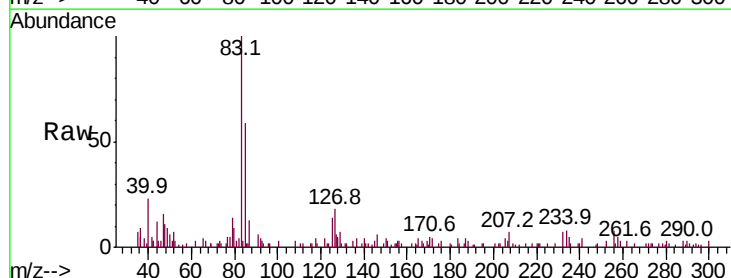
RT: 9.30 min Scan# 1252

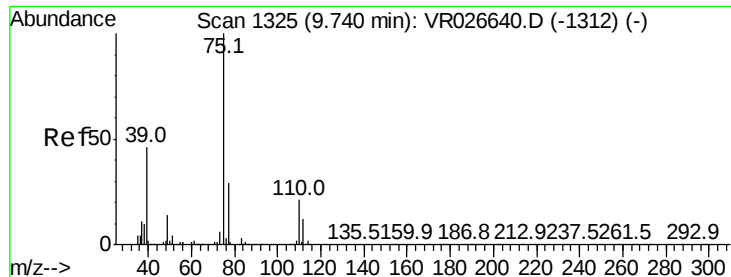
Delta R.T. 0.00 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	7095		
85	58.5		44.0	81.8
127	29.6		6.4	9.6#





#39

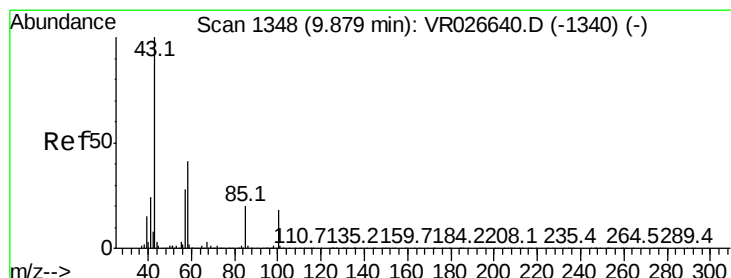
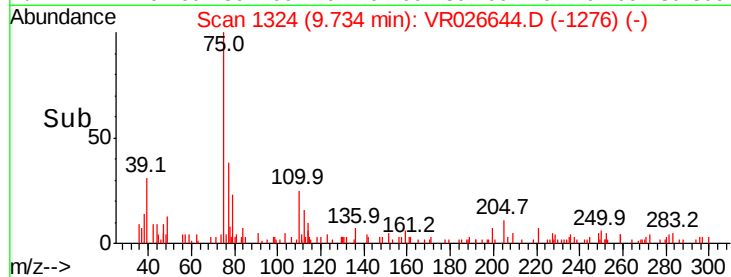
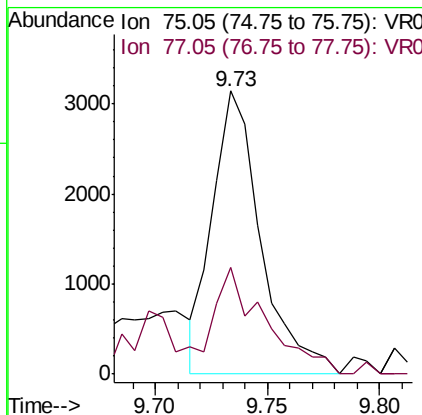
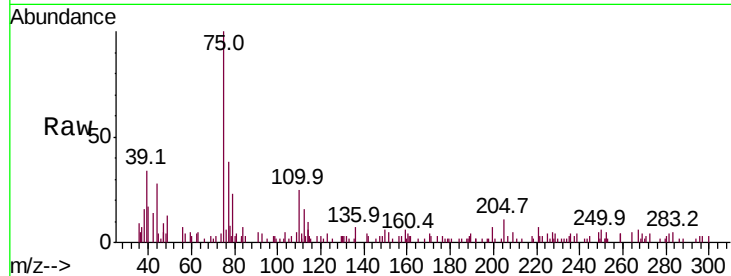
cis-1,3-Dichloropropene
Concen: 0.187 ug/L m
RT: 9.73 min Scan# 1324
Delta R.T. -0.01 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Instrument :
MSVOA_R
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
75	100		
77	37.7	21.8	40.6

Manual Integrations
APPROVED

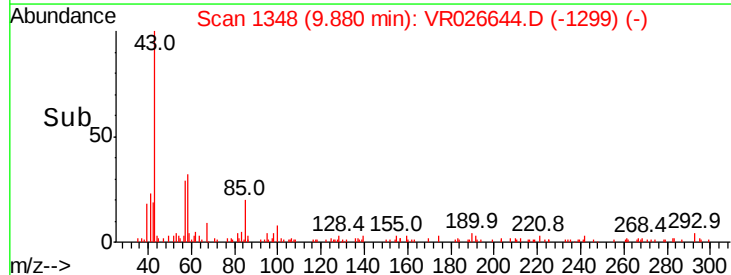
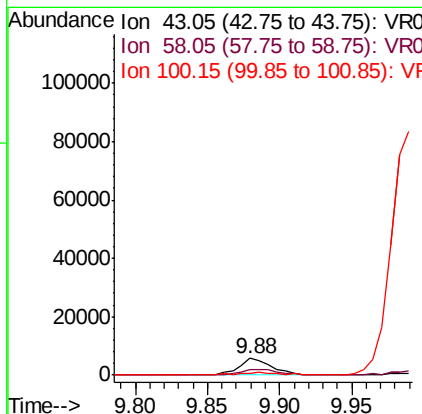
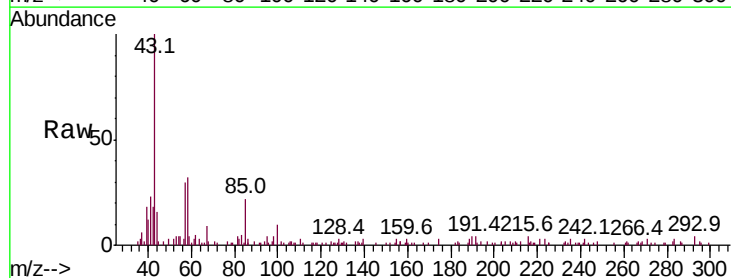
MMDadoda
9/20/2019 12:41:53 AM

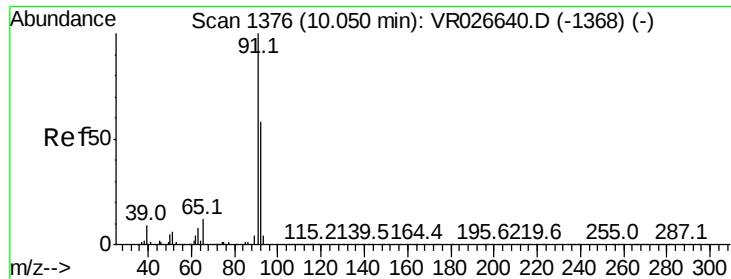


#40

4-Methyl-2-pentanone
Concen: 1.566 ug/L
RT: 9.88 min Scan# 1348
Delta R.T. 0.00 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.4	32.6	48.8
100	0.0	11.7	17.5





#42

Toluene

Concen: 0.235 ug/L

RT: 10.05 min Scan# 1376

Delta R.T. 0.00 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Instrument :

MSVOA_R

ClientSampleId :

MDL04

Tot Ion: 91 Resp: 24248

Ion Ratio Lower Upper

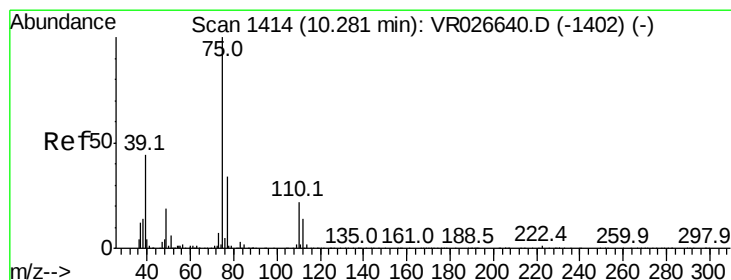
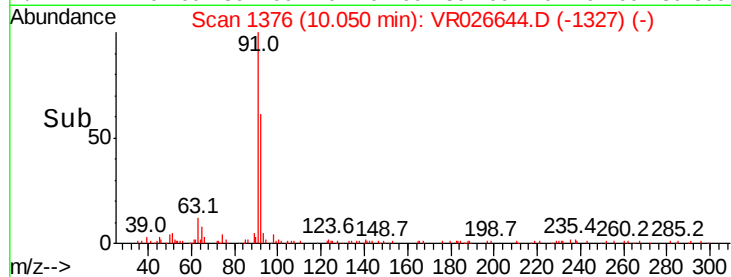
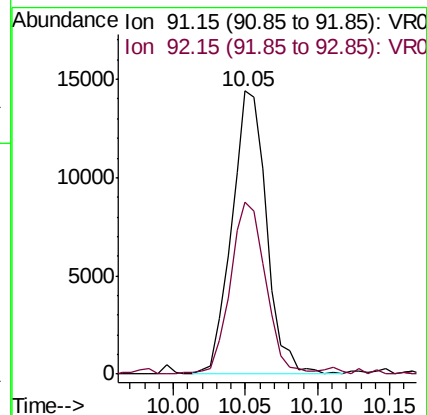
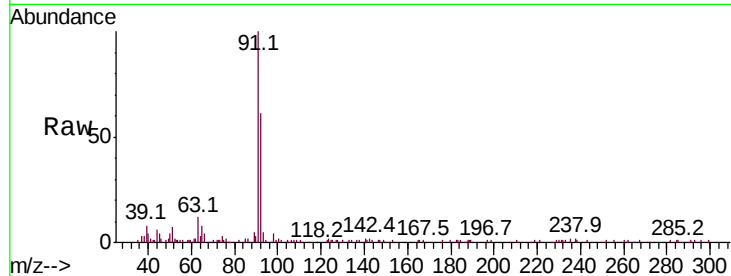
91 100

92 60.8 40.8 75.8

Manual Integrations
APPROVED

MMDadoda

9/20/2019 12:41:53 AM



#44

trans-1,3-Dichloropropene

Concen: 0.245 ug/L m

RT: 10.29 min Scan# 1415

Delta R.T. 0.01 min

Lab File: VR026644.D

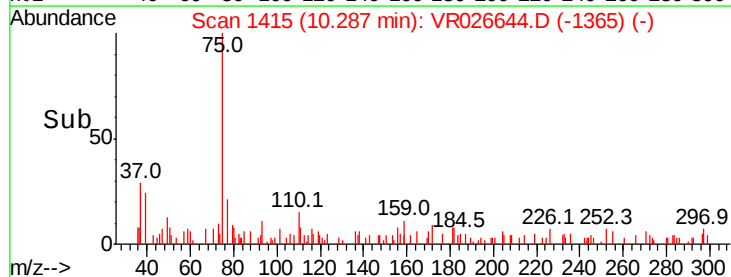
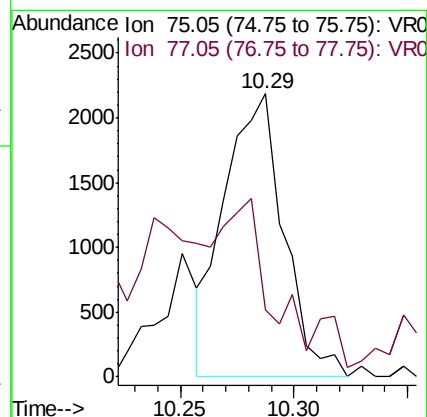
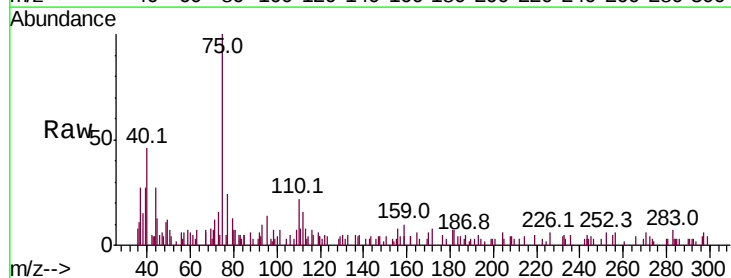
Acq: 17 Sep 2019 17:42

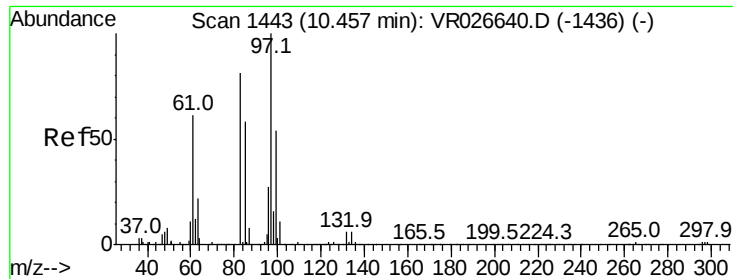
Tgt Ion: 75 Resp: 3979

Ion Ratio Lower Upper

75 100

77 23.9 23.1 42.9





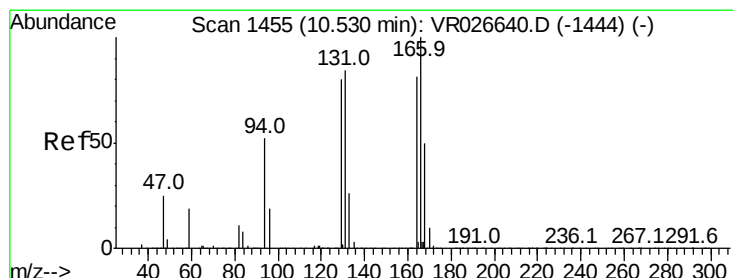
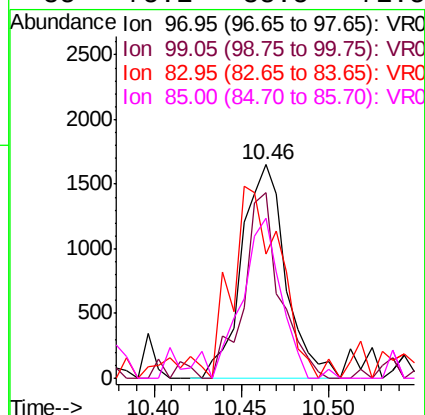
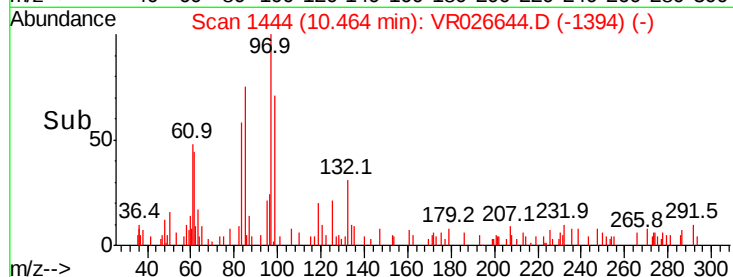
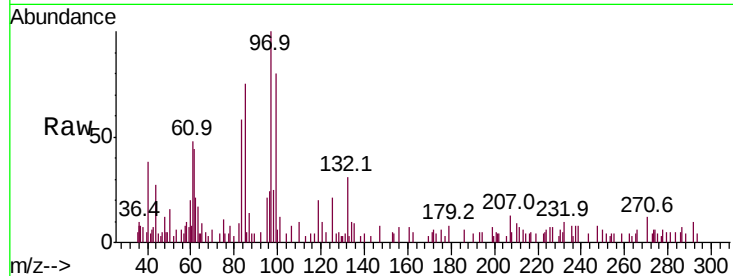
#45
1,1,2-Trichloroethane
Concen: 0.285 ug/L
RT: 10.46 min Scan# 1444
Delta R.T. 0.01 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Instrument :
MSVOA_R
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
97	100		
99	86.7	45.6	84.6#
83	58.0	64.5	119.9#
85	75.1	38.5	71.5#

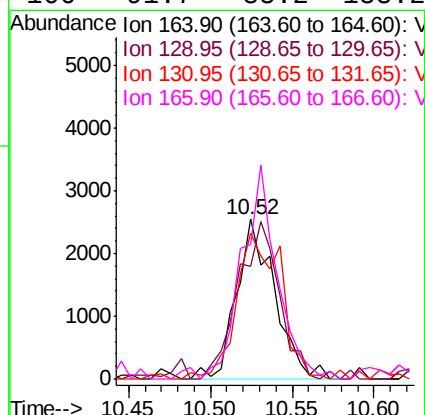
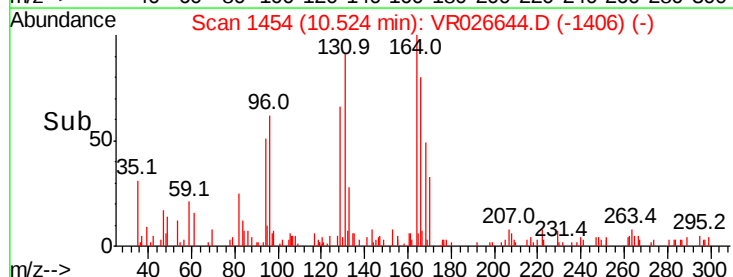
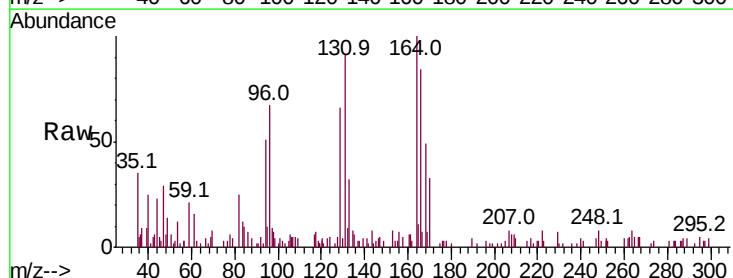
Manual Integrations
APPROVED

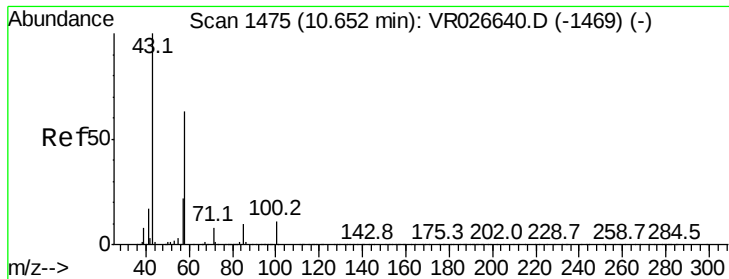
MMDadoda
9/20/2019 12:41:53 AM



#47
Tetrachloroethene
Concen: 0.240 ug/L
RT: 10.52 min Scan# 1454
Delta R.T. -0.01 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Tgt Ion	Ratio	Lower	Upper
164	100		
129	70.5	74.8	139.0#
131	91.3	69.1	128.3
166	91.7	85.2	158.2





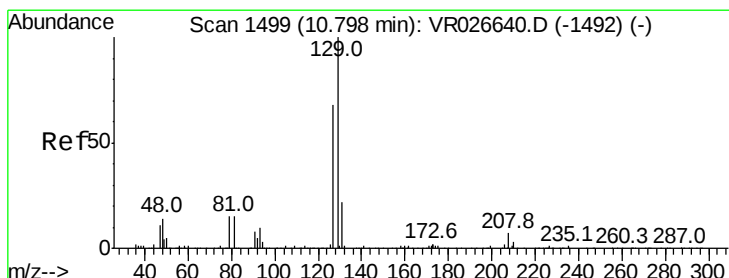
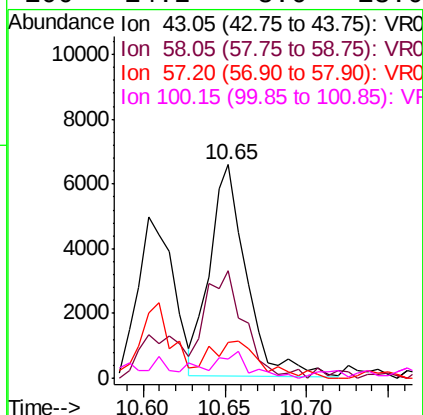
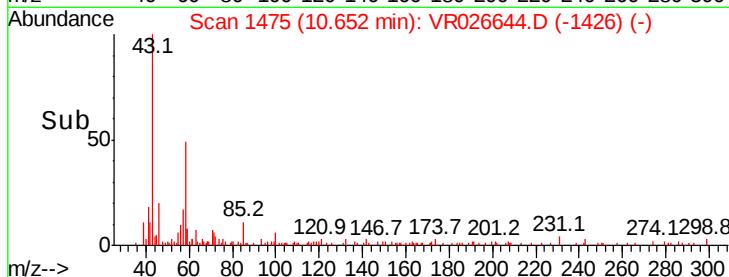
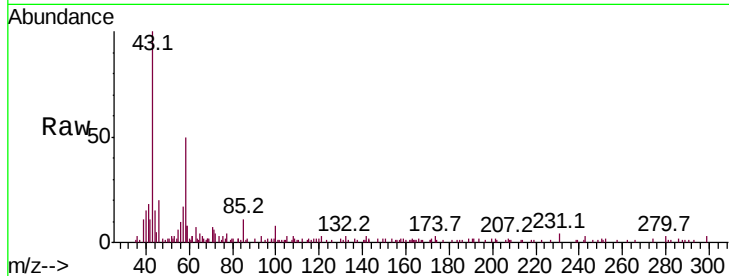
#48
2-Hexanone
Concen: 2.710 ug/L
RT: 10.65 min Scan# 1475
Delta R.T. 0.00 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Instrument :
MSVOA_R
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.2	46.4	69.6
57	18.9	16.7	25.1
100	14.2	8.6	13.0

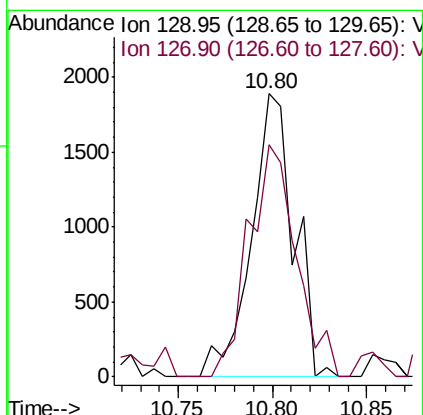
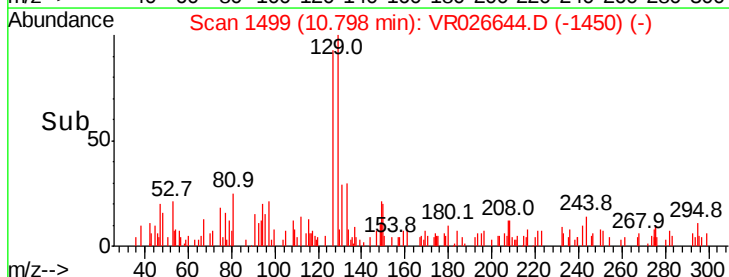
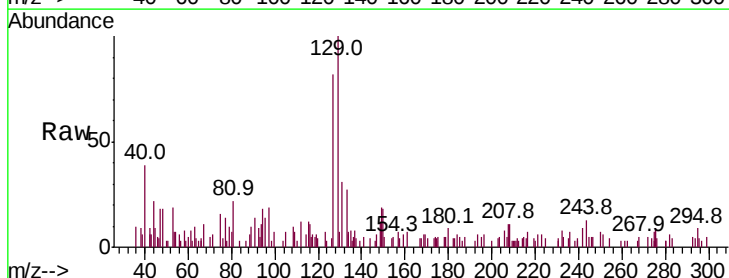
Manual Integrations
APPROVED

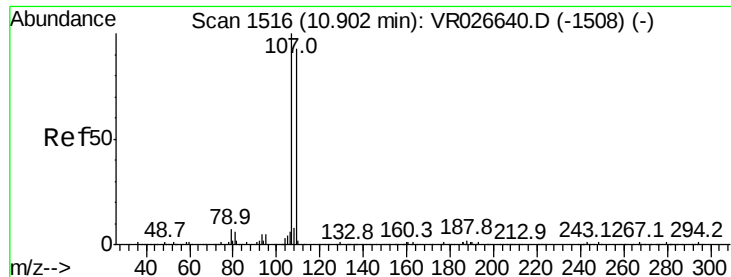
MMDadoda
9/20/2019 12:41:53 AM



#49
Dibromochloromethane
Concen: 0.267 ug/L
RT: 10.80 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Tgt Ion	Ratio	Lower	Upper
129	100		
127	82.0	57.0	105.9





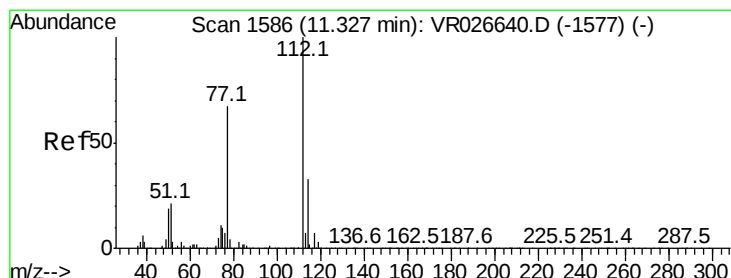
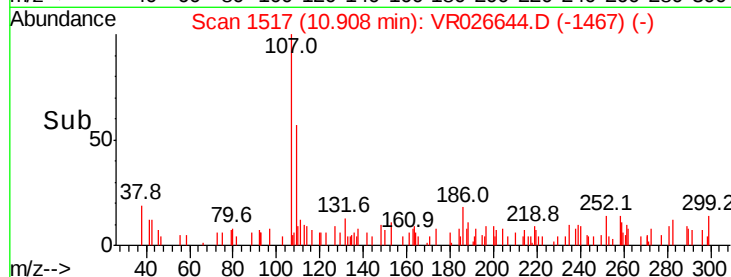
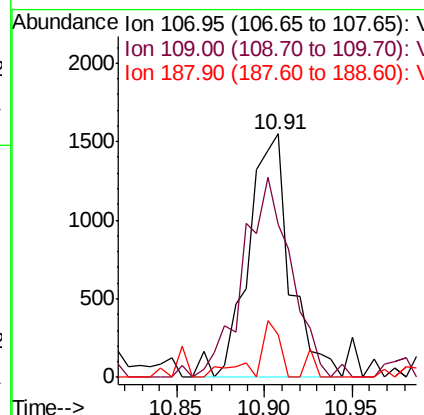
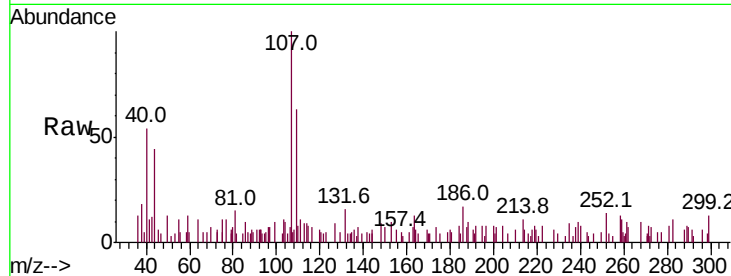
#50
 1,2-Dibromoethane
 Concen: 0.293 ug/L
 RT: 10.91 min Scan# 1517
 Delta R.T. 0.01 min
 Lab File: VR026644.D
 Acq: 17 Sep 2019 17:42

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL04

Tot Ion:	107	Resp:	2582
Ion Ratio	Lower	Upper	
107	100		
109	62.6	67.2	124.8#
188	17.6	1.8	2.8#

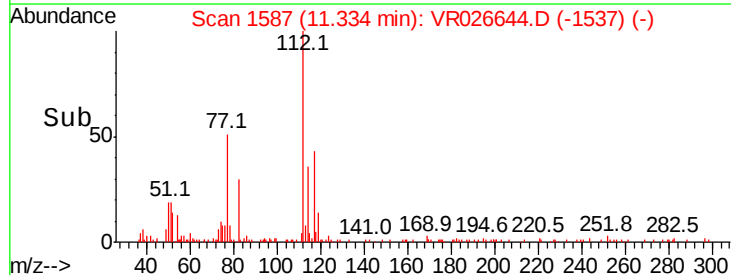
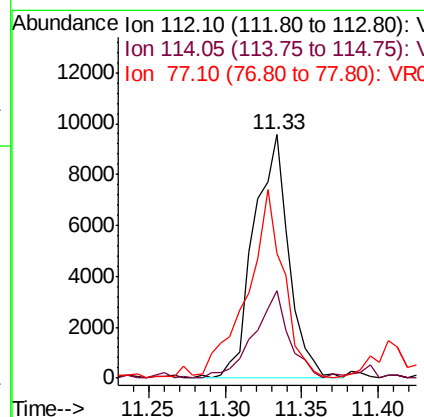
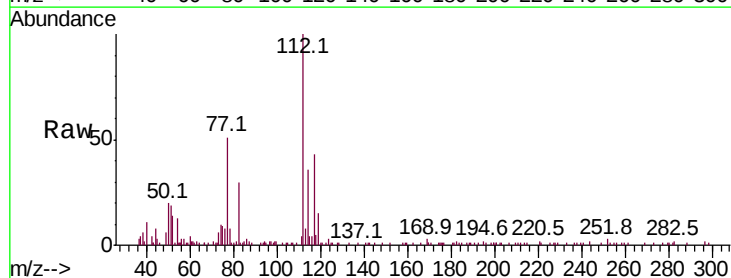
Manual Integrations
 APPROVED

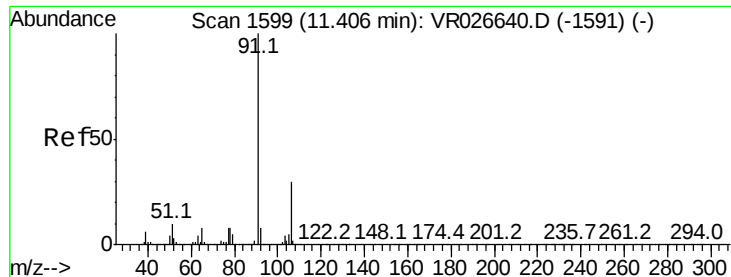
MMDadoda
 9/20/2019 12:41:53 AM



#51
 Chlorobenzene
 Concen: 0.255 ug/L
 RT: 11.33 min Scan# 1587
 Delta R.T. 0.01 min
 Lab File: VR026644.D
 Acq: 17 Sep 2019 17:42

Tgt Ion:	112	Resp:	15268
Ion Ratio	Lower	Upper	
112	100		
114	35.7	22.7	42.1
77	51.3	54.0	81.0#





#52

Ethylbenzene

Concen: 0.183 ug/L

RT: 11.41 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Instrument :

MSVOA_R

ClientSampleId :

MDL04

Tot Ion: 91 Resp: 21382

Ion Ratio Lower Upper

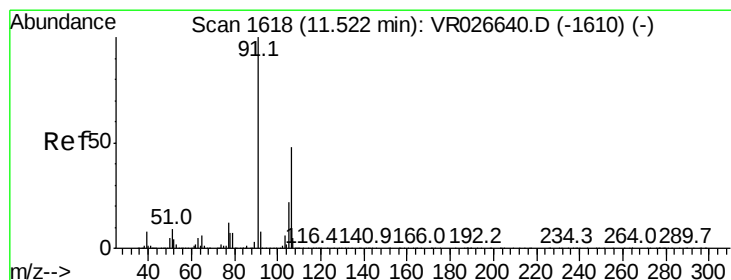
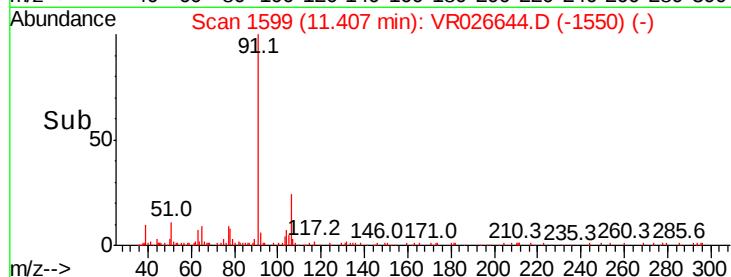
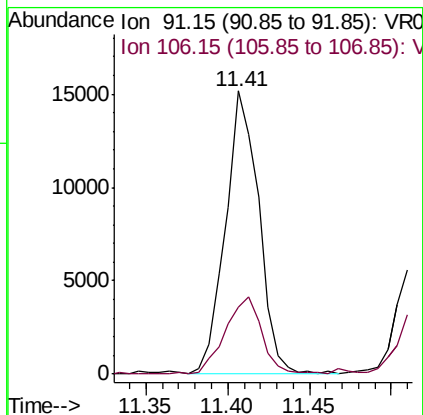
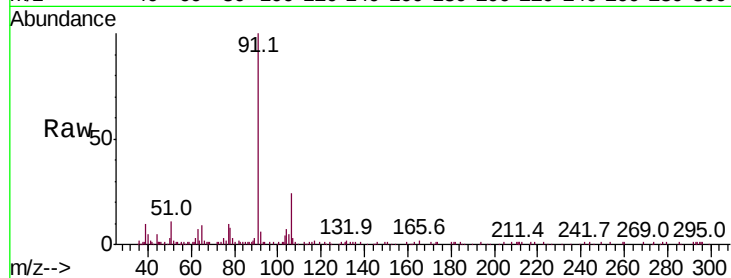
91 100

106 23.8 21.0 39.0

Manual Integrations
APPROVED

MMDadoda

9/20/2019 12:41:53 AM



#53

m,p-Xylene

Concen: 0.181 ug/L

RT: 11.52 min Scan# 1617

Delta R.T. -0.01 min

Lab File: VR026644.D

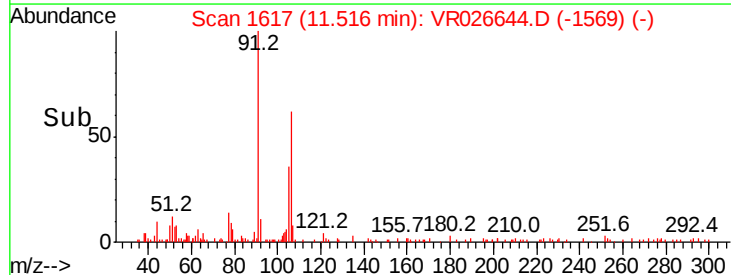
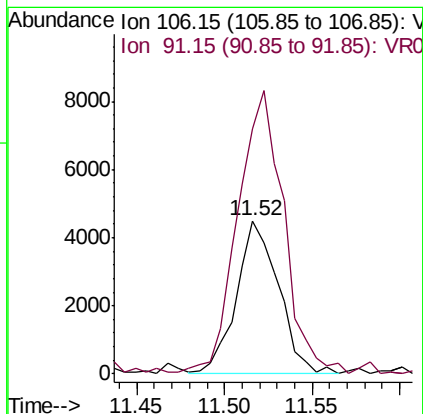
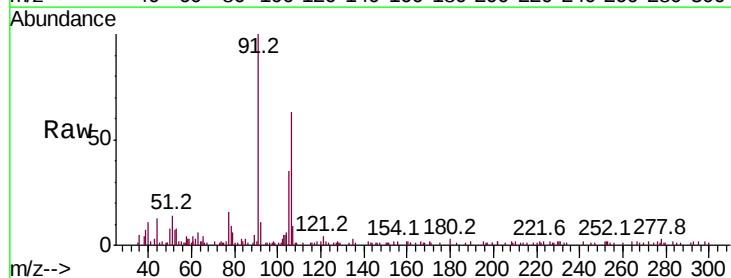
Acq: 17 Sep 2019 17:42

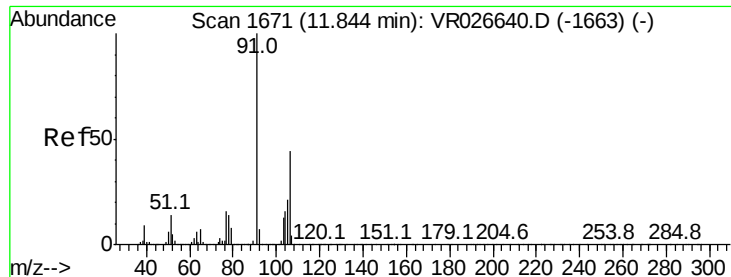
Tgt Ion: 106 Resp: 7581

Ion Ratio Lower Upper

106 100

91 159.8 146.5 272.1





#54

o-Xylene

Concen: 0.153 ug/L

RT: 11.84 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Instrument :

MSVOA_R

ClientSampleId :

MDL04

Tot Ion:106 Resp: 6293

Ion Ratio Lower Upper

106 100

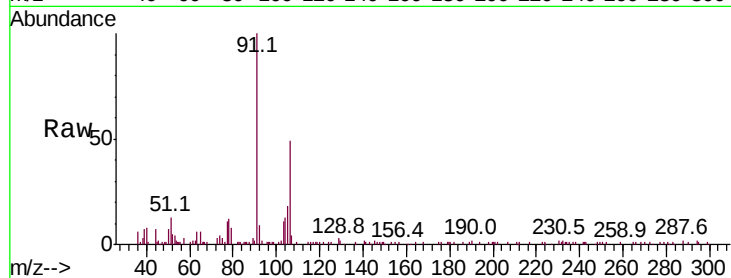
91 202.4 154.3 286.5

Manual Integrations

APPROVED

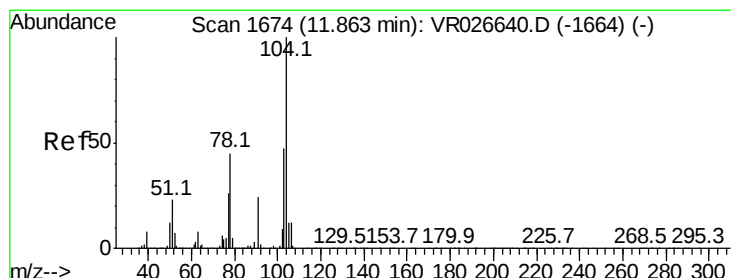
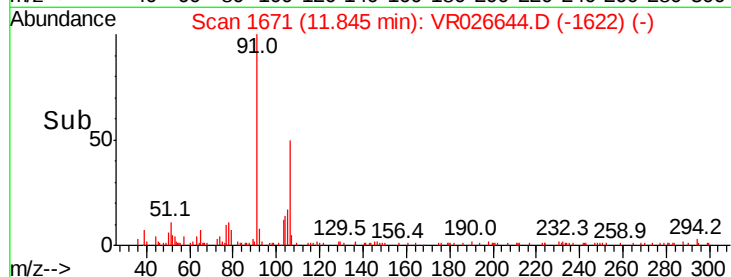
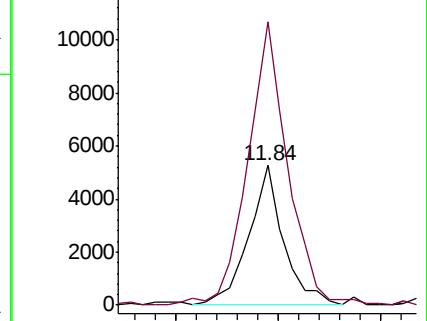
MMDadoda

9/20/2019 12:41:53 AM



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0



#55

Styrene

Concen: 0.159 ug/L

RT: 11.86 min Scan# 1673

Delta R.T. -0.01 min

Lab File: VR026644.D

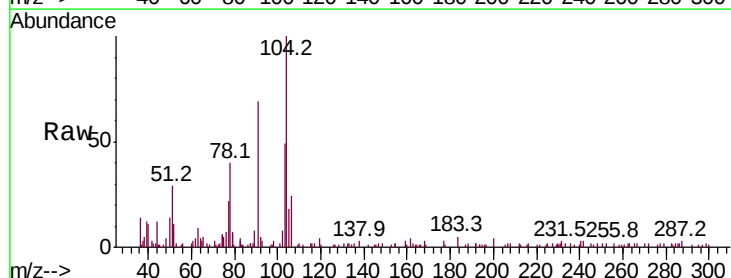
Acq: 17 Sep 2019 17:42

Tgt Ion:104 Resp: 9395

Ion Ratio Lower Upper

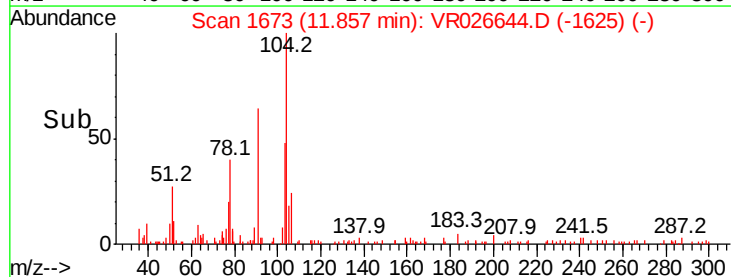
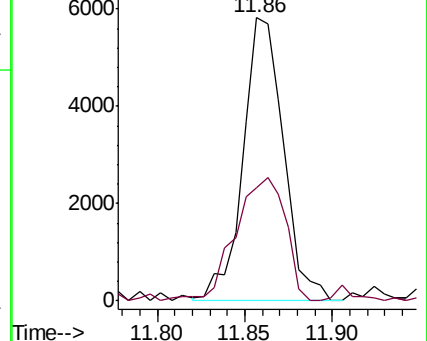
104 100

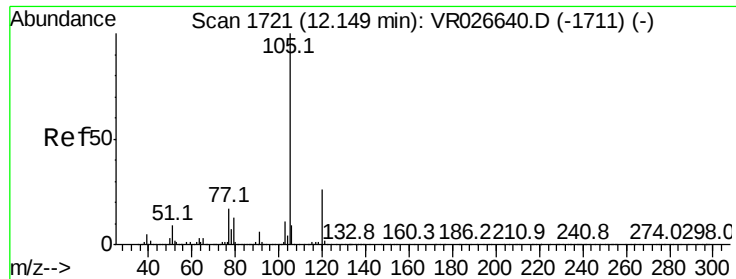
78 39.8 32.5 60.3



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VR0





#56

Isopropylbenzene

Concen: 0.153 ug/L

RT: 12.14 min Scan# 1720

Delta R.T. -0.01 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Instrument :

MSVOA_R

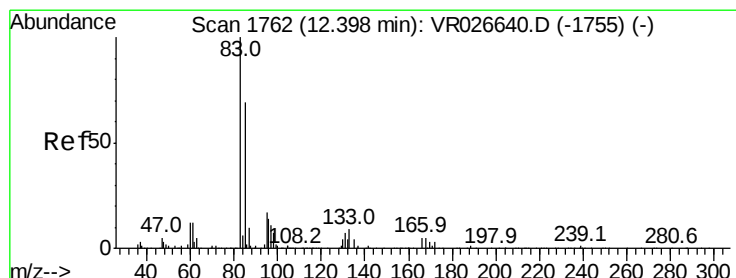
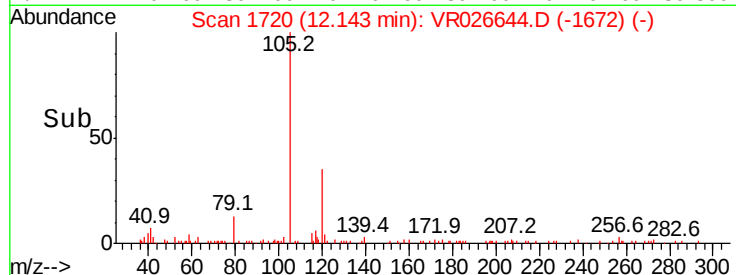
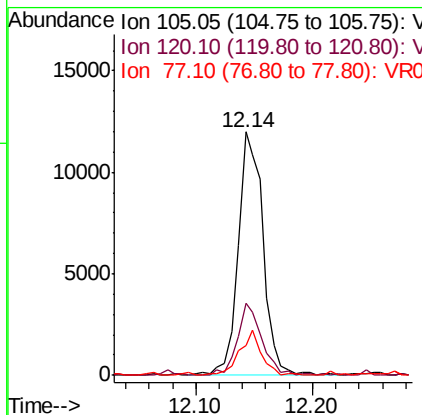
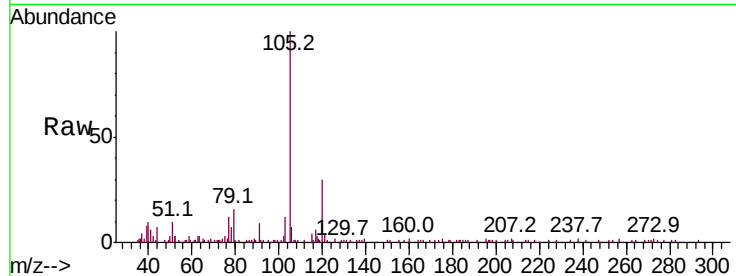
ClientSampleId :

MDL04

Tot Ion:	105	Resp:	17809
Ion Ratio	Lower	Upper	
105	100		
120	29.1	20.7	31.1
77	16.1	13.3	19.9

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:41:53 AM



#58

1,1,2,2-Tetrachloroethane

Concen: 0.246 ug/L

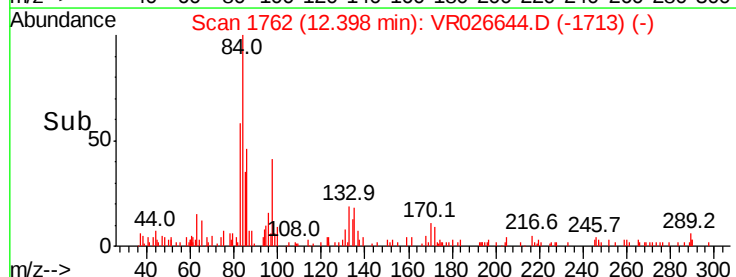
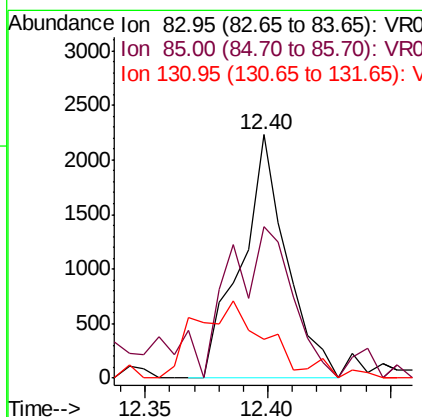
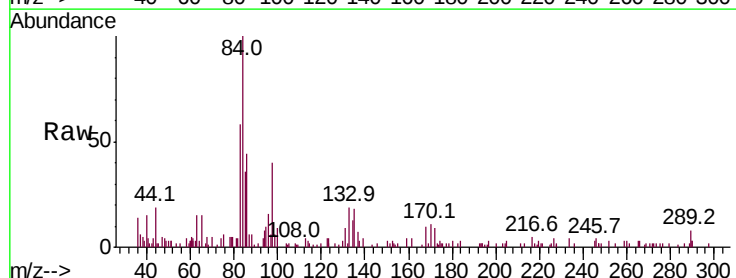
RT: 12.40 min Scan# 1762

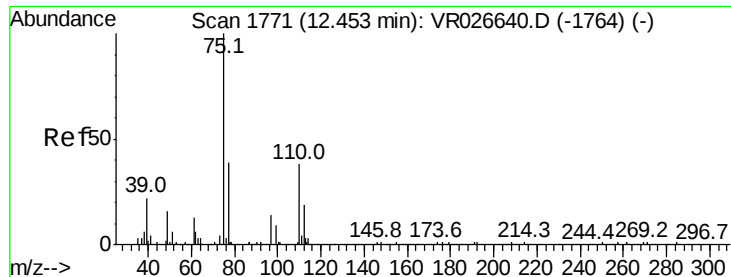
Delta R.T. 0.00 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Tgt Ion:	83	Resp:	2890
Ion Ratio	Lower	Upper	
83	100		
85	62.0	46.1	85.7
131	15.8	6.8	10.2#





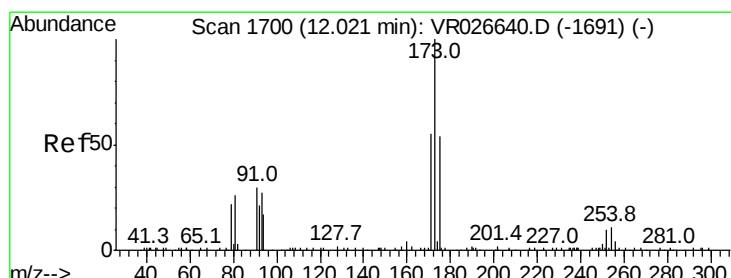
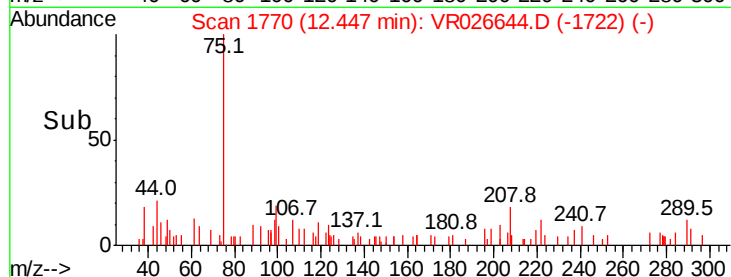
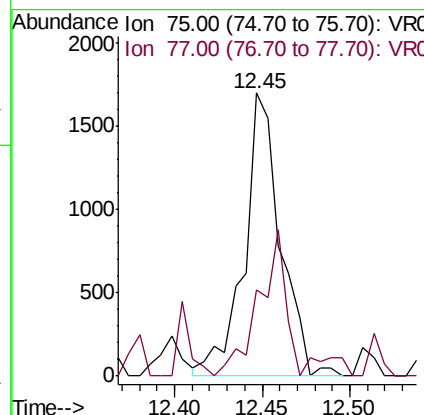
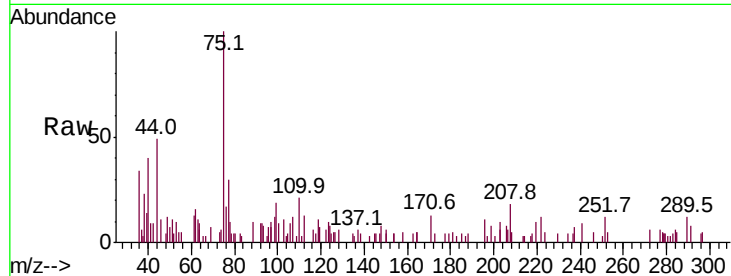
#59
 1,2,3-Trichloropropane
 Concen: 0.283 ug/L
 RT: 12.45 min Scan# 1770
 Delta R.T. -0.01 min
 Lab File: VR026644.D
 Acq: 17 Sep 2019 17:42

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
75	100		
77	41.0	25.8	38.6#

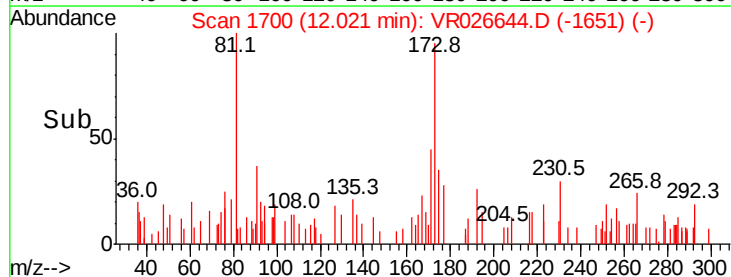
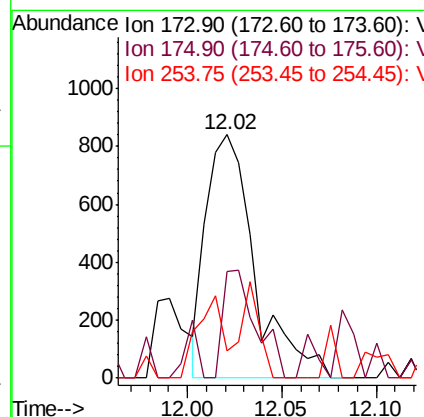
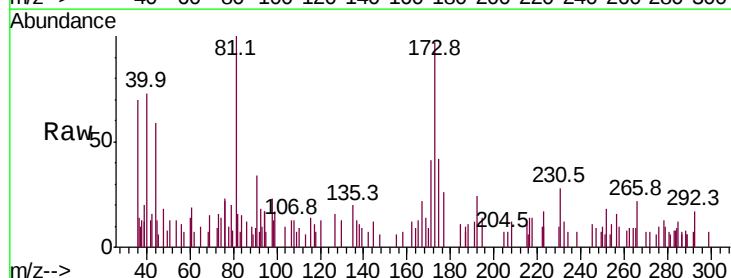
Manual Integrations
 APPROVED

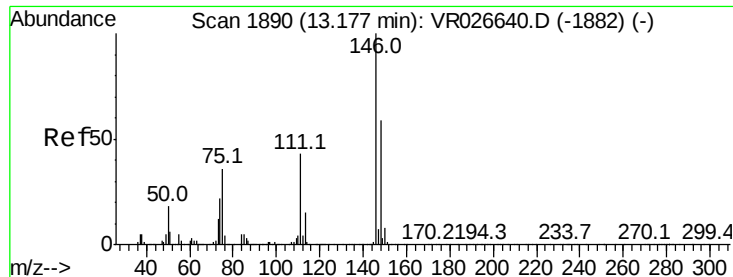
MMDadoda
 9/20/2019 12:41:53 AM



#61
 Bromoform
 Concen: 0.327 ug/L
 RT: 12.02 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VR026644.D
 Acq: 17 Sep 2019 17:42

Tgt Ion	Ratio	Lower	Upper
173	100		
175	29.8	40.2	60.2#
254	14.5	8.7	13.1#





#62

1,3-Dichlorobenzene

Concen: 0.219 ug/L

RT: 13.18 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Instrument :

MSVOA_R

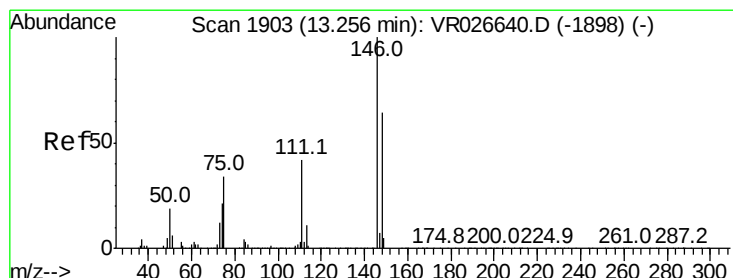
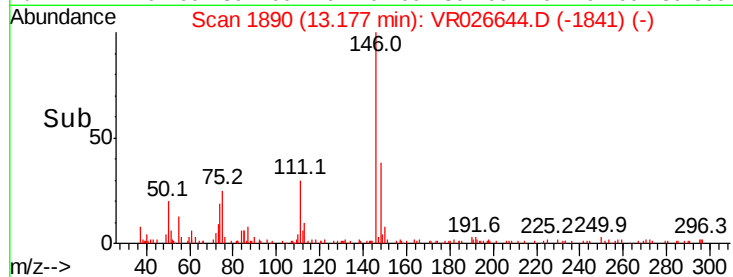
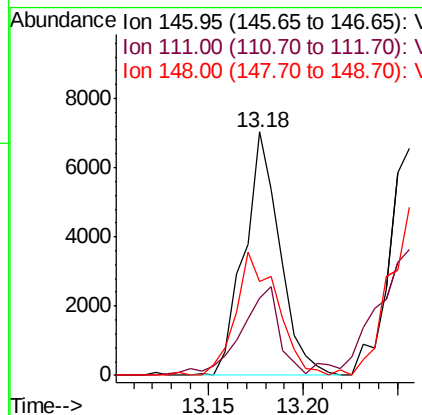
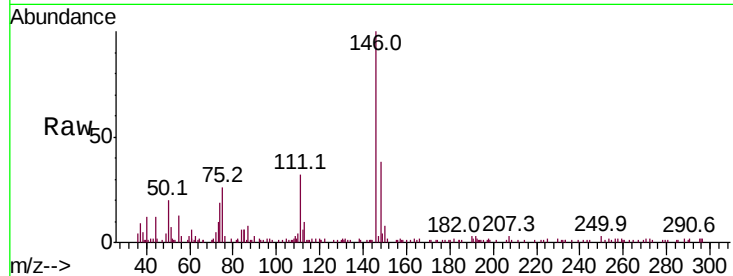
ClientSampleId :

MDL04

Tot Ion:	146	Resp:	9199
Ion Ratio	Lower	Upper	
146	100		
111	31.5	29.5	54.9
148	38.4	42.8	79.4#

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:41:53 AM



#63

1,4-Dichlorobenzene

Concen: 0.254 ug/L

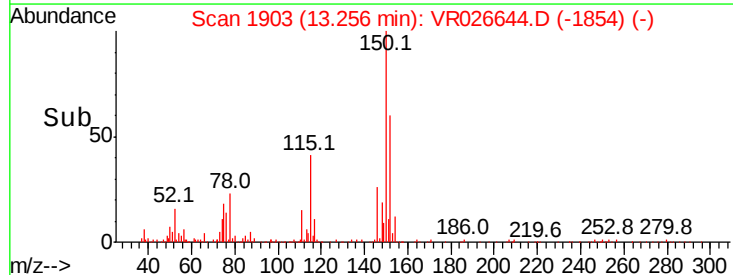
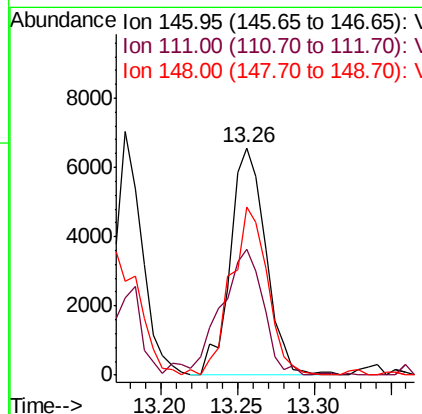
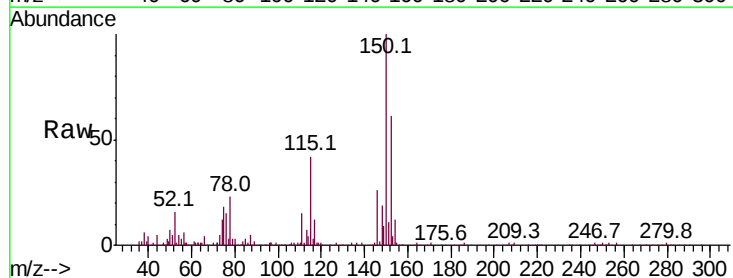
RT: 13.26 min Scan# 1903

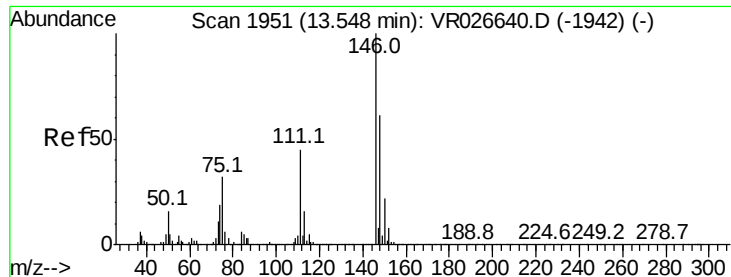
Delta R.T. 0.00 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Tgt Ion:	146	Resp:	10593
Ion Ratio	Lower	Upper	
146	100		
111	55.4	31.1	57.9
148	74.1	44.6	82.8





#65

1,2-Dichlorobenzene

Concen: 0.312 ug/L

RT: 13.55 min Scan# 1951

Delta R.T. 0.00 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Instrument :

MSVOA_R

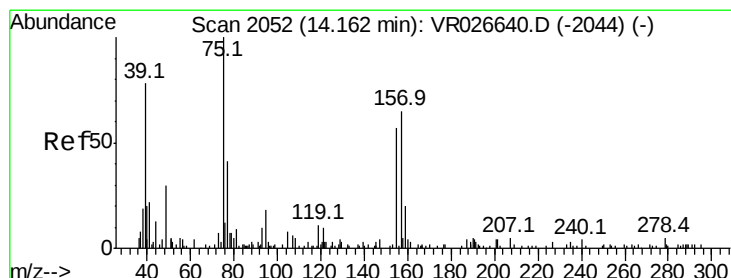
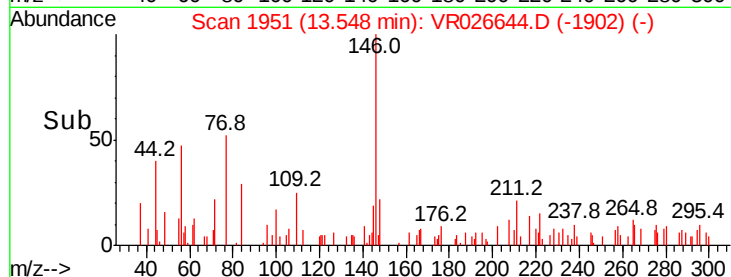
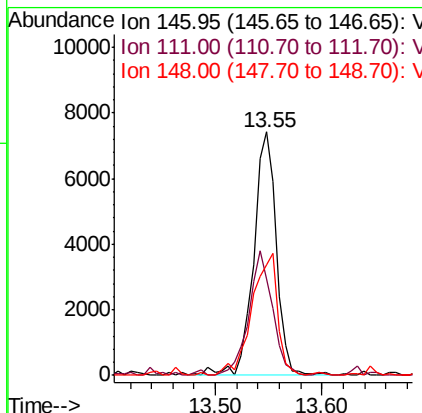
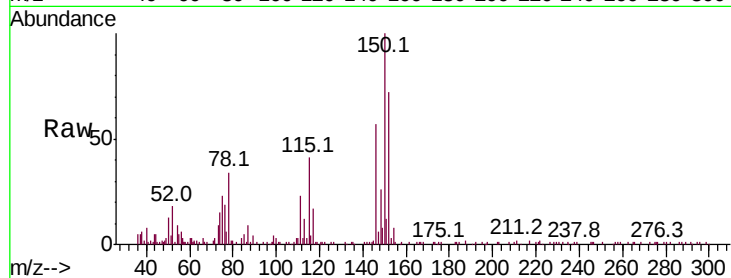
ClientSampled :

MDL04

Tot Ion:	146	Resp:	11109
Ion Ratio	Lower	Upper	
146	100		
111	39.8	38.2	57.2
148	45.5	50.1	75.1#

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:41:53 AM



#66

1,2-Dibromo-3-chloropropane

Concen: 0.339 ug/L m

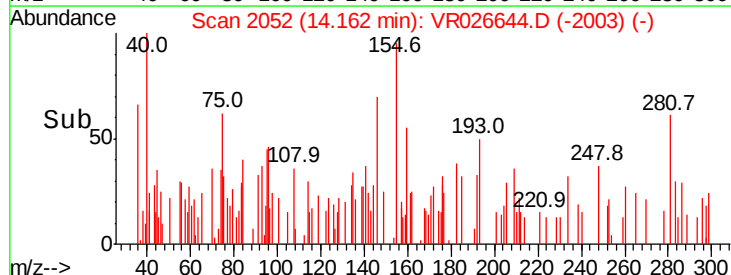
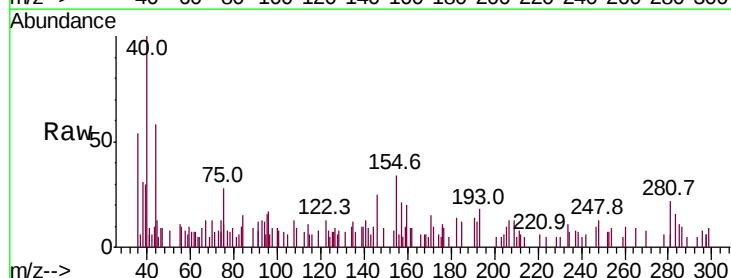
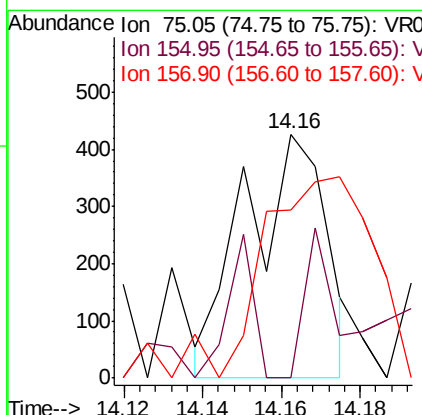
RT: 14.16 min Scan# 2052

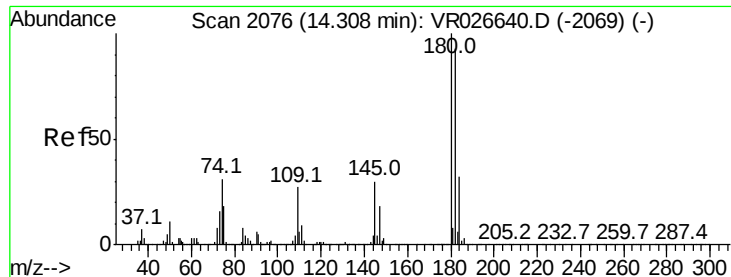
Delta R.T. 0.00 min

Lab File: VR026644.D

Acq: 17 Sep 2019 17:42

Tgt Ion:	75	Resp:	602
Ion Ratio	Lower	Upper	
75	100		
155	0.0	49.4	74.2#
157	74.5	65.2	97.8





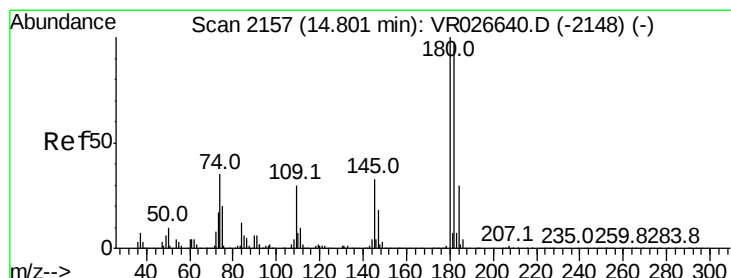
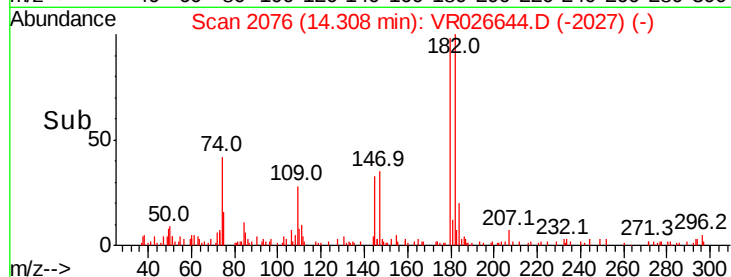
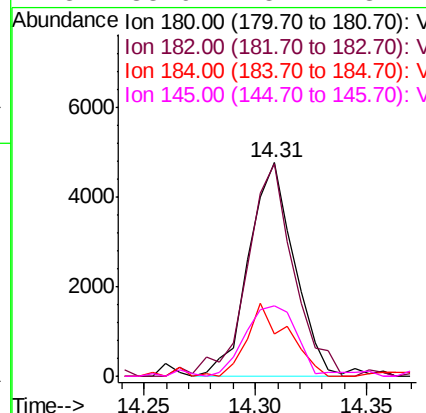
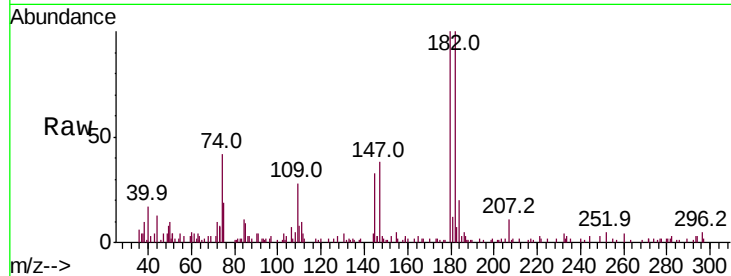
#67
 1,3,5-Trichlorobenzene
 Concen: 0.199 ug/L
 RT: 14.31 min Scan# 2076
 Delta R.T. 0.00 min
 Lab File: VR026644.D
 Acq: 17 Sep 2019 17:42

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL04

Tot Ion:	180	Resp:	6775
Ion Ratio	Lower	Upper	
180	100		
182	101.5	76.3	114.5
184	30.5	24.4	36.6
145	38.9	25.1	37.7#

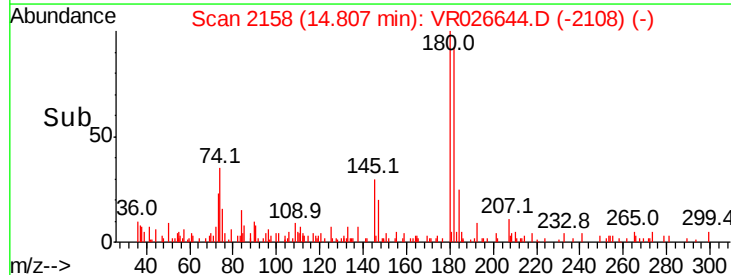
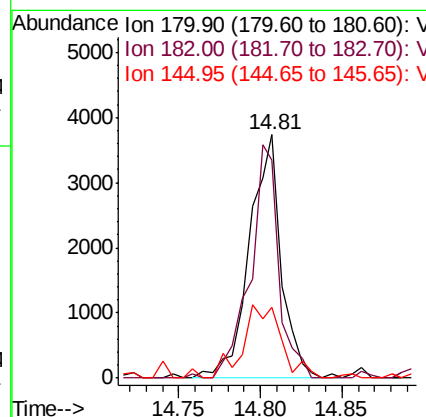
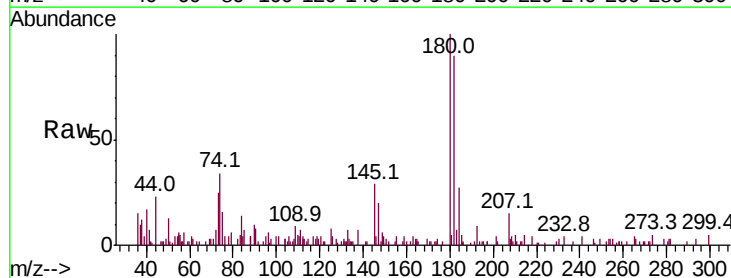
Manual Integrations
 APPROVED

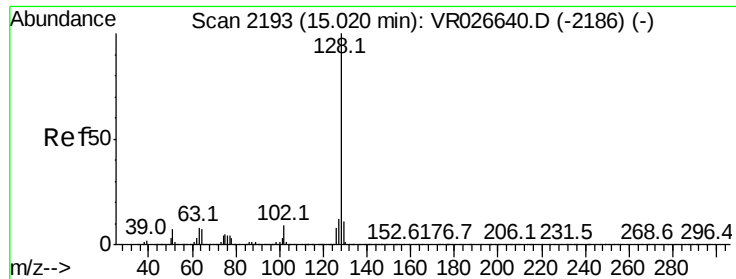
MMDadoda
 9/20/2019 12:41:53 AM



#68
 1,2,4-trichlorobenzene
 Concen: 0.211 ug/L
 RT: 14.81 min Scan# 2158
 Delta R.T. 0.01 min
 Lab File: VR026644.D
 Acq: 17 Sep 2019 17:42

Tgt Ion:	180	Resp:	5068
Ion Ratio	Lower	Upper	
180	100		
182	87.2	75.1	112.7
145	37.5	25.9	38.9





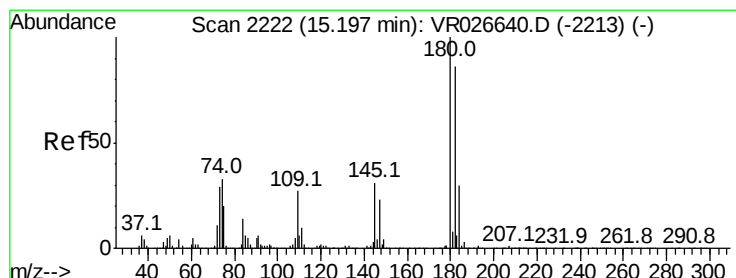
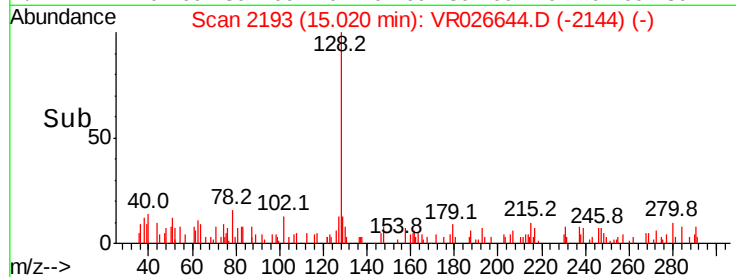
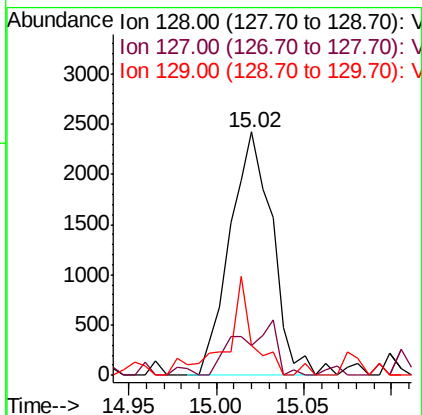
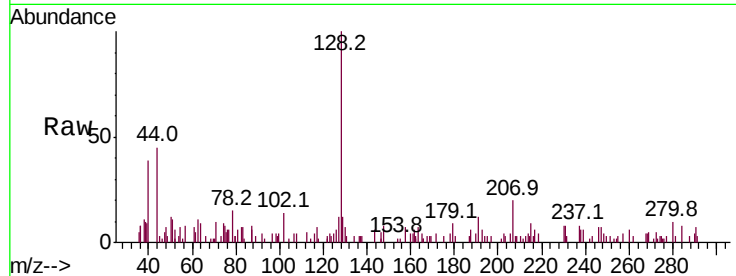
#69
Naphthalene
Concen: 0.128 ug/L
RT: 15.02 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Instrument :
MSVOA_R
ClientSampleId :
MDL04

Tot Ion	Ratio	Resp	Lower	Upper
128	100	4098		
127	1.3		10.8	16.2#
129	24.8		8.9	13.3#

Manual Integrations
APPROVED

MMDadoda
9/20/2019 12:41:53 AM



#70
1,2,3-Trichlorobenzene
Concen: 0.243 ug/L
RT: 15.20 min Scan# 2222
Delta R.T. 0.00 min
Lab File: VR026644.D
Acq: 17 Sep 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	5158		
182	77.3		76.2	114.4
145	35.7		28.6	42.8

