

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080719\
 Data File : VV012128.D
 Acq On : 07 Aug 2019 15:22
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.00µ/5.0mL/100µL/5mL/MSVOA_V/MEOH
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 11:45:33 AM

Quant Time: Aug 08 01:47:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM080619W.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 08 01:11:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	255402	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	229482	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	109720	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	59829	42.85	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.70%
7) Chloroethane-d5	1.58	69	43844	44.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.48%
11) 1,1-Dichloroethene-d2	2.13	63	84881	35.07	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.14%
21) 2-Butanone-d5	3.92	46	115681	113.72	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	113.72%
24) Chloroform-d	4.40	84	172692	49.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.60%
26) 1,2-Dichloroethane-d4	5.08	65	118767	52.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.56%
32) Benzene-d6	5.10	84	344202	52.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.24%
36) 1,2-Dichloropropane-d6	6.12	67	101545	53.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	106.16%
41) Toluene-d8	7.36	98	326093	51.21	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.42%
43) trans-1,3-Dichloropropene-	7.66	79	55946	51.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.88%
47) 2-Hexanone-d5	8.13	63	93107	117.20	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	117.20%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	146762	54.43	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	108.86%
66) 1,2-Dichlorobenzene-d4	11.67	152	139823	54.19	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.38%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	4128	2.288	ug/L	99
3) Chloromethane	1.25	50	3676	2.870	ug/L	98
5) Vinyl chloride	1.32	62	2857	2.311	ug/L #	55
6) Bromomethane	1.53	94	1829	2.548	ug/L	89
8) Chloroethane	1.60	64	1494	2.307	ug/L	86
9) Trichlorofluoromethane	1.77	101	5112	2.543	ug/L	89
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	3035	3.080	ug/L #	83
12) 1,1-Dichloroethene	2.14	96	2741	2.954	ug/L #	1
13) Acetone	2.19	43	2712	3.910	ug/L	99
14) Carbon disulfide	2.32	76	6840	2.181	ug/L #	93
15) Methyl Acetate	2.46	43	3073	2.532	ug/L	94
16) Methylene chloride	2.54	84	3762	2.672	ug/L	89
17) trans-1,2-Dichloroethene	2.79	96	3133	2.391	ug/L	94
18) Methyl tert-butyl Ether	2.80	73	10533	2.339	ug/L	97
19) 1,1-Dichloroethane	3.23	63	5745	2.404	ug/L	97
20) cis-1,2-Dichloroethene	3.97	96	3970	2.572	ug/L	99
22) 2-Butanone	4.01	43	4607m	5.154	ug/L	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080719\
 Data File : VV012128.D
 Acq On : 07 Aug 2019 15:22
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.00uL/5.0mL/100uL/5mL/MSVOA_V/MEOH
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

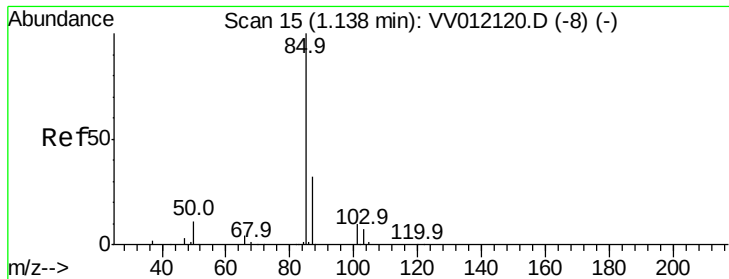
MMDadoda
 8/8/2019 11:45:33 AM

Quant Time: Aug 08 01:47:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM080619W.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 08 01:11:59 2019
 Response via : Initial Calibration

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

23) Bromochloromethane	4.30	128	2163m	2.549	ug/L	
25) Chloroform	4.43	83	10772	3.977	ug/L	96
27) 1,2-Dichloroethane	5.18	62	5397	2.564	ug/L #	92
29) Cyclohexane	4.73	56	4615	2.405	ug/L	89
30) 1,1,1-Trichloroethane	4.66	97	5889	2.416	ug/L	96
31) Carbon tetrachloride	4.88	117	5494	2.429	ug/L	94
33) Benzene	5.15	78	13365	2.530	ug/L	100
34) Trichloroethene	5.96	95	3469m	2.363	ug/L	
35) Methylcyclohexane	6.18	83	5108	2.337	ug/L	99
37) 1,2-Dichloropropane	6.22	63	3232	2.508	ug/L	98
38) Bromodichloromethane	6.56	83	5065	2.499	ug/L	87
39) cis-1,3-Dichloropropene	7.07	75	5524	2.432	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	8424	5.080	ug/L	96
42) Toluene	7.43	91	14939	2.545	ug/L	98
44) trans-1,3-Dichloropropene	7.69	75	5023	2.342	ug/L	84
45) 1,1,2-Trichloroethane	7.88	97	3613	2.601	ug/L	93
46) Tetrachloroethene	8.02	164	3234	2.364	ug/L	96
48) 2-Hexanone	8.18	43	7178	5.741	ug/L	97
49) Dibromochloromethane	8.29	129	4606	2.556	ug/L	98
50) 1,2-Dibromoethane	8.40	107	3686	2.400	ug/L #	98
51) Chlorobenzene	8.93	112	9596	2.425	ug/L	97
52) Ethylbenzene	9.05	91	15316	2.326	ug/L	96
53) m,p-Xylene	9.18	106	6116	2.407	ug/L	93
54) o-Xylene	9.59	106	5524	2.191	ug/L	96
55) Styrene	9.61	104	9354	2.202	ug/L	91
57) 1,1,2,2-Tetrachloroethane	10.28	83	5561	2.604	ug/L #	74
59) Bromoform	9.77	173	3549	2.758	ug/L #	94
60) Isopropylbenzene	9.97	105	15429	2.569	ug/L	100
61) 1,2,3-Trichloropropane	10.31	75	4470	3.000	ug/L	99
62) 1,3,5-Trimethylbenzene	10.58	105	12465	2.401	ug/L	98
63) 1,2,4-Trimethylbenzene	10.96	105	12833	2.504	ug/L	99
64) 1,3-Dichlorobenzene	11.22	146	7897	2.606	ug/L	98
65) 1,4-Dichlorobenzene	11.32	146	7946	2.594	ug/L	89
67) 1,2-Dichlorobenzene	11.69	146	8234	2.663	ug/L	94
68) 1,2-Dibromo-3-chloropropan	12.48	75	1162	2.366	ug/L	93
69) 1,3,5-Trichlorobenzene	12.69	180	5208	2.120	ug/L	98
70) 1,2,4-trichlorobenzene	13.31	180	3452	1.621	ug/L	95
71) Naphthalene	13.56	128	7138	1.322	ug/L	97
72) 1,2,3-Trichlorobenzene	13.79	180	3518	1.641	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 2.288 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Instrument :

MSVOA_V

ClientSampled :

MDL05

Tot Ion: 85 Resp: 4128

Ion Ratio Lower Upper

85 100

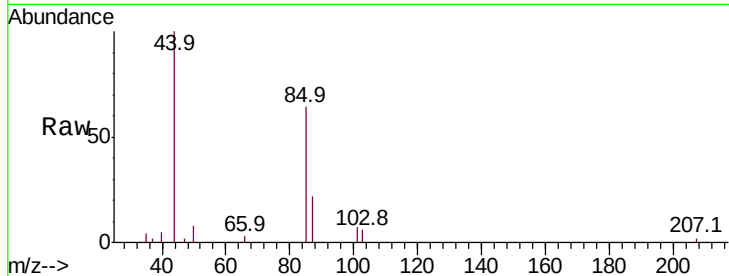
87 32.2 25.3 37.9

Manual Integrations

APPROVED

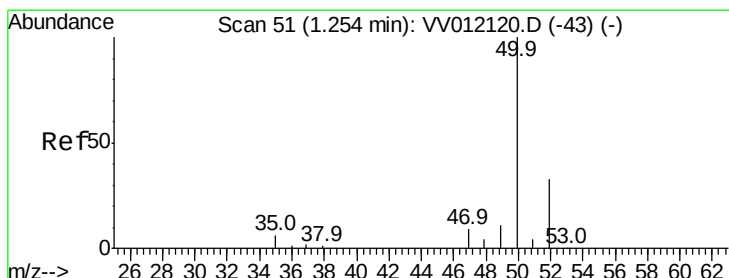
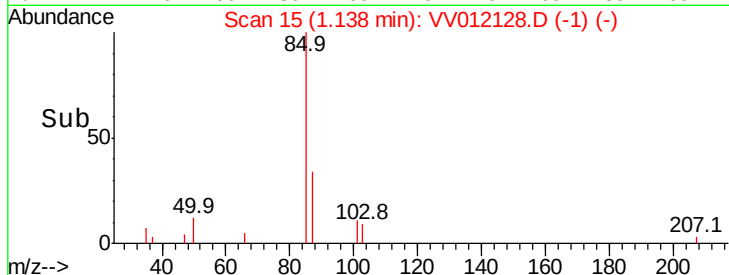
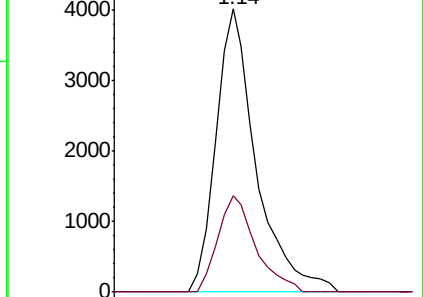
MMDadoda

8/8/2019 11:45:33 AM



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 2.870 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV012128.D

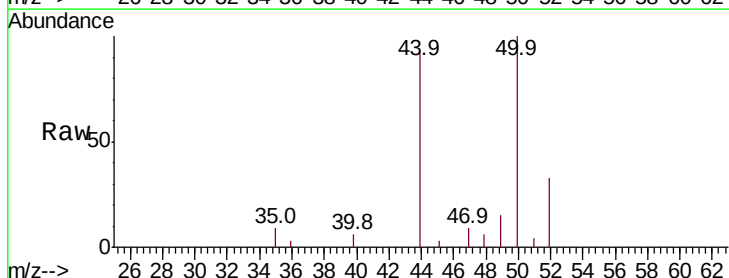
Acq: 07 Aug 2019 15:22

Tgt Ion: 50 Resp: 3676

Ion Ratio Lower Upper

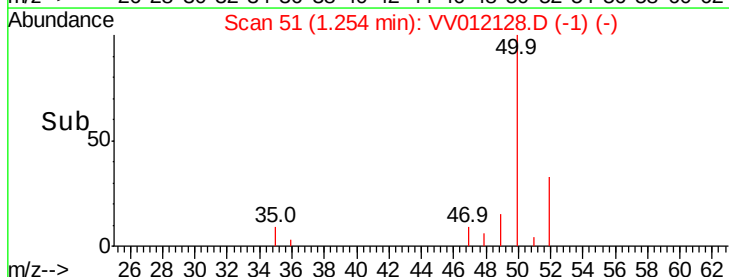
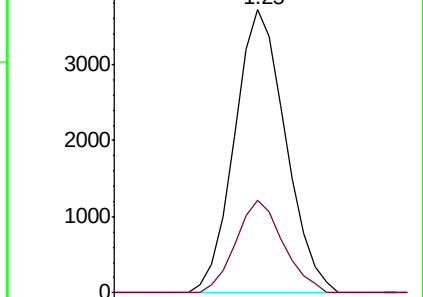
50 100

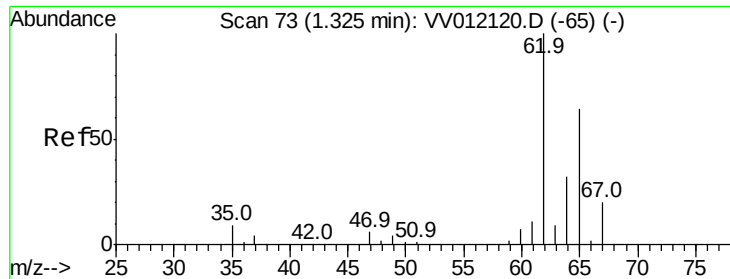
52 32.9 23.9 44.3



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.311 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Instrument :

MSVOA_V

ClientSampled :

MDL05

Tot Ion: 62 Resp: 2857

Ion Ratio Lower Upper

62 100

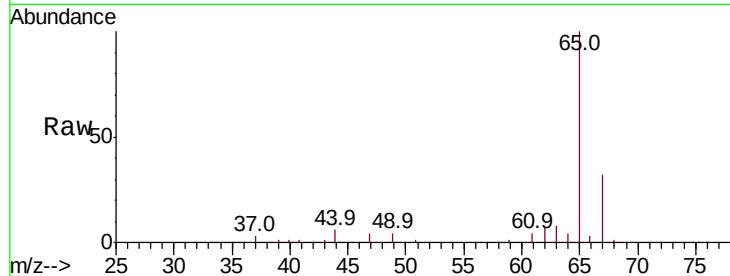
64 58.3 23.0 42.8#

Manual Integrations

APPROVED

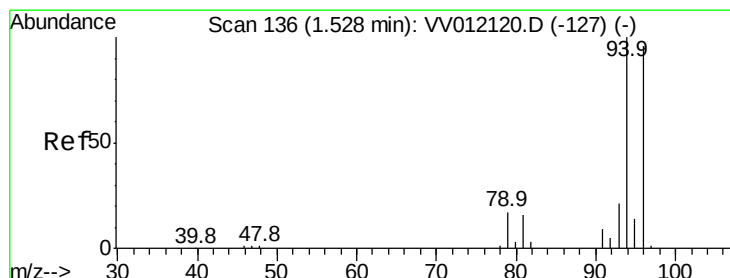
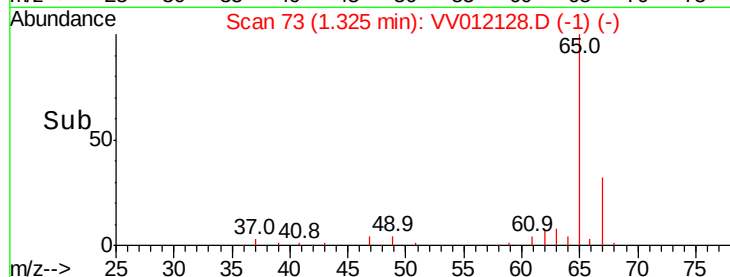
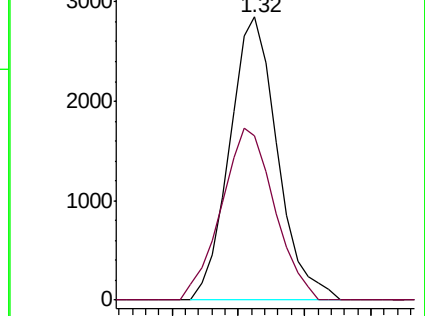
MMDadoda

8/8/2019 11:45:33 AM



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.548 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV012128.D

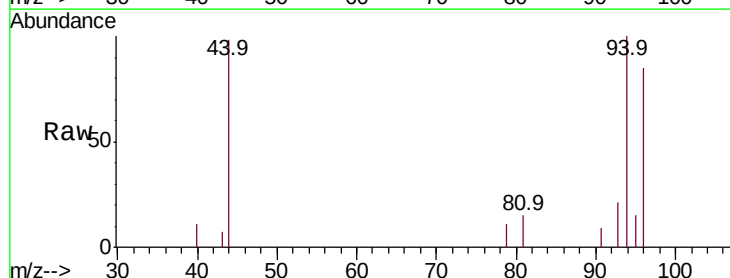
Acq: 07 Aug 2019 15:22

Tgt Ion: 94 Resp: 1829

Ion Ratio Lower Upper

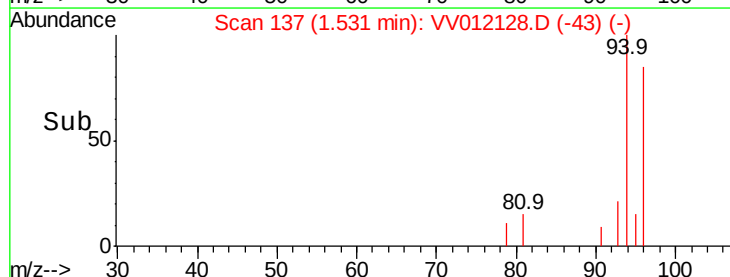
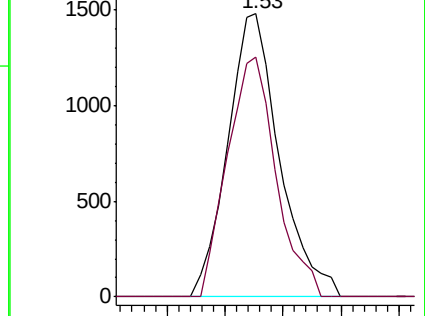
94 100

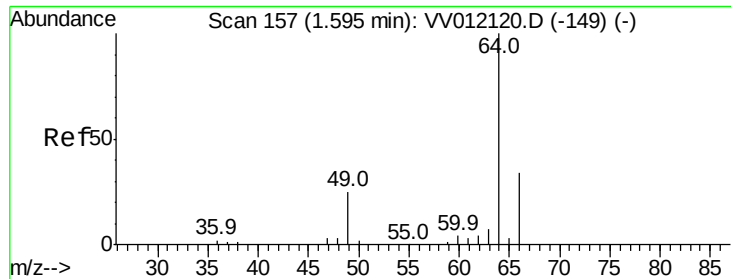
96 84.9 66.8 124.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 2.307 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Instrument :

MSVOA_V

ClientSampled :

MDL05

Tot Ion: 64 Resp: 1494

Ion Ratio Lower Upper

64 100

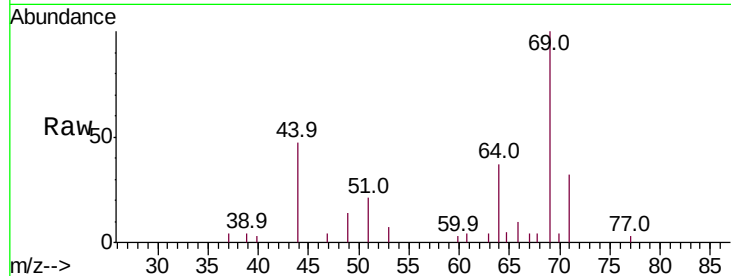
66 24.6 22.6 42.0

Manual Integrations

APPROVED

MMDadoda

8/8/2019 11:45:33 AM



Abundance Ion 64.00 (63.70 to 64.70): VV012120.D (-149) (-)

Ion 66.00 (65.70 to 66.70): VV012120.D (-149) (-)

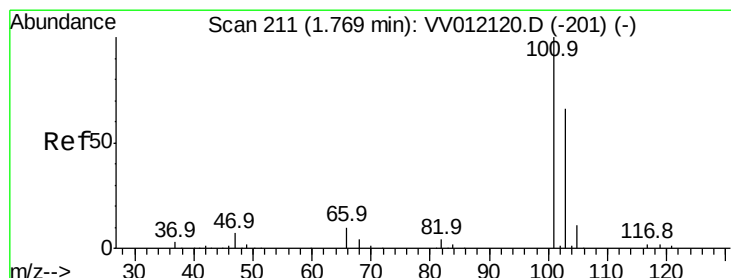
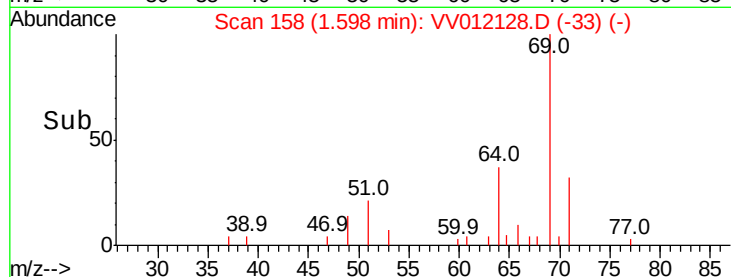
1.60

1000

500

0

Time-->



#9

Trichlorofluoromethane

Concen: 2.543 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV012128.D

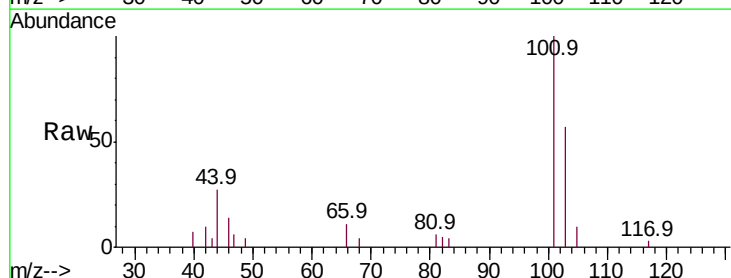
Acq: 07 Aug 2019 15:22

Tgt Ion: 101 Resp: 5112

Ion Ratio Lower Upper

101 100

103 56.7 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VV012120.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV012120.D (-201) (-)

1.77

4000

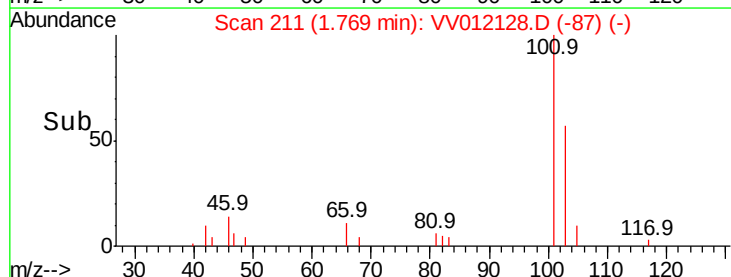
3000

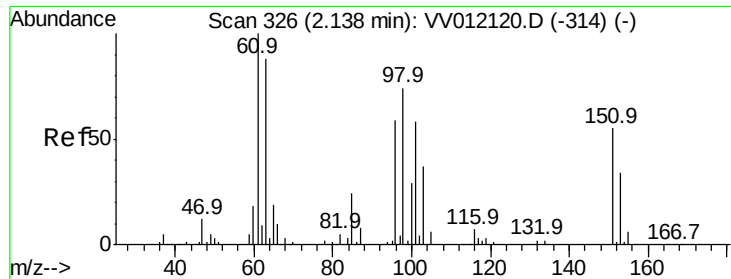
2000

1000

0

Time-->





#10

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

Concen: 3.080 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Instrument :

MSVOA_V

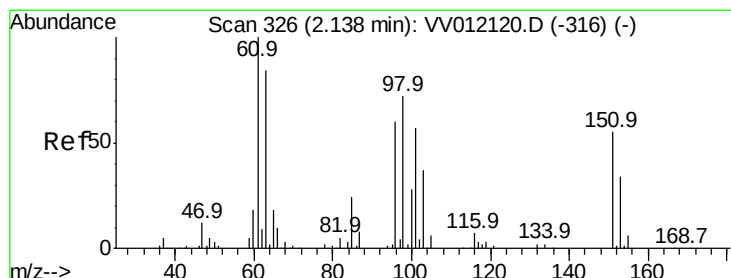
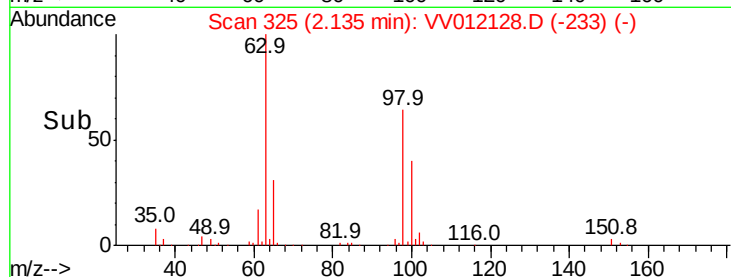
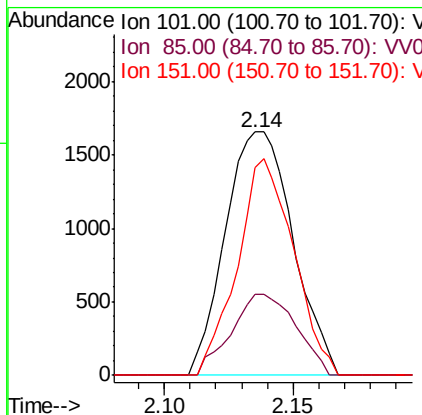
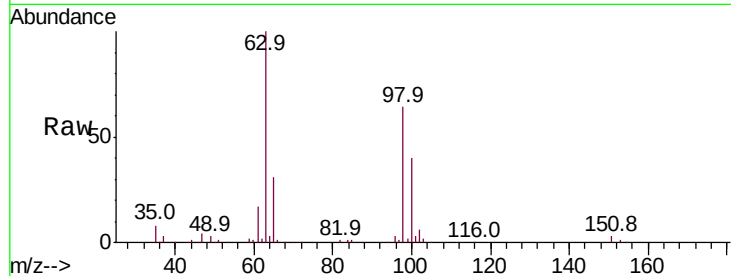
ClientSampleId :

MDL05

Tot Ion	Ratio	Lower	Upper
101	100		
85	31.8	34.4	51.6#
151	73.9	72.2	108.2

Manual Integrations
APPROVED

MMDadoda
8/8/2019 11:45:33 AM



#12

1,1-Dichloroethene

Concen: 2.954 ug/L

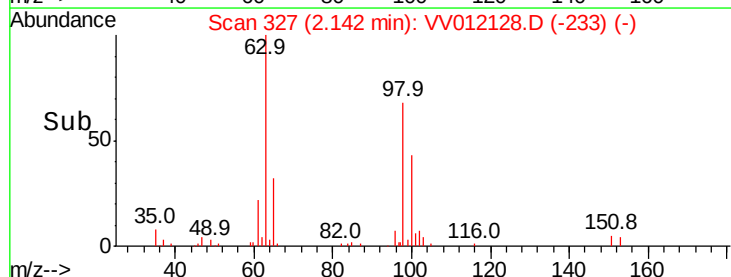
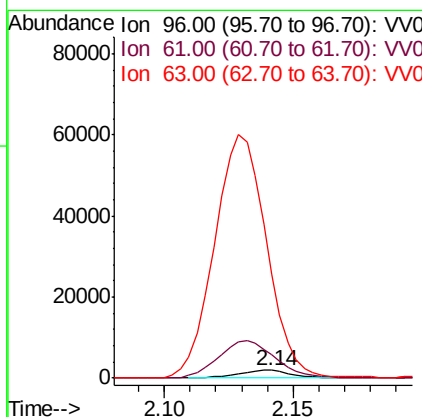
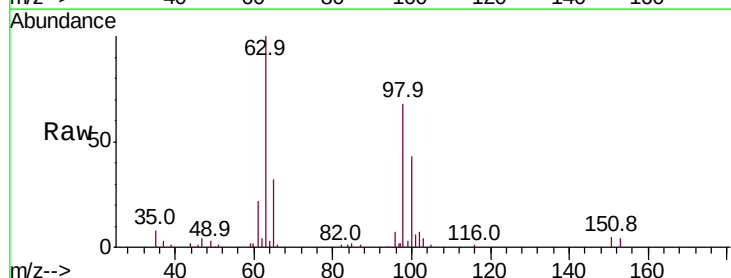
RT: 2.14 min Scan# 327

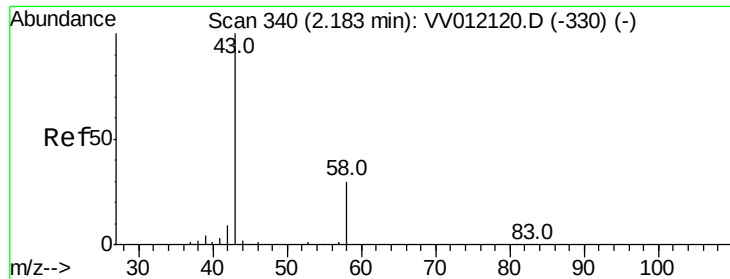
Delta R.T. 0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	303.4	120.0	223.0#
63	1376.8	98.3	182.7#





#13

Acetone

Concen: 3.910 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion: 43 Resp: 2712

Ion Ratio Lower Upper

43 100

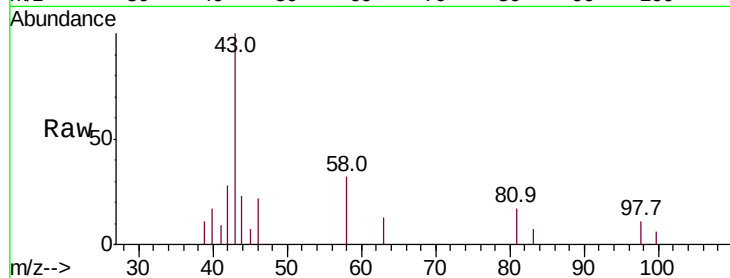
58 28.8 0.0 59.2

Manual Integrations

APPROVED

MMDadoda

8/8/2019 11:45:33 AM



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

2000

1500

1000

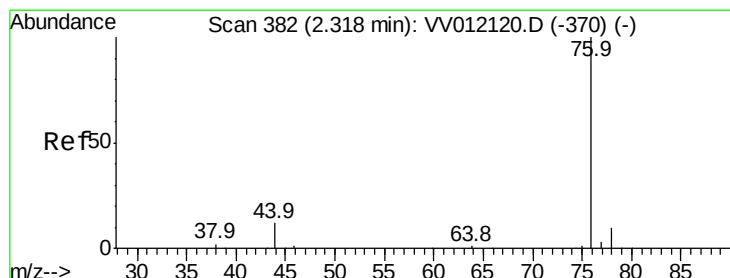
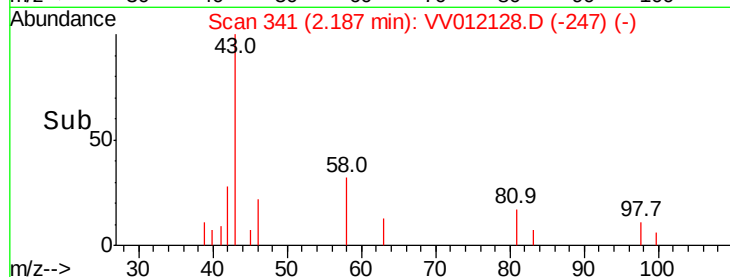
500

0

2.15

2.20

Time-->



#14

Carbon disulfide

Concen: 2.181 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV012128.D

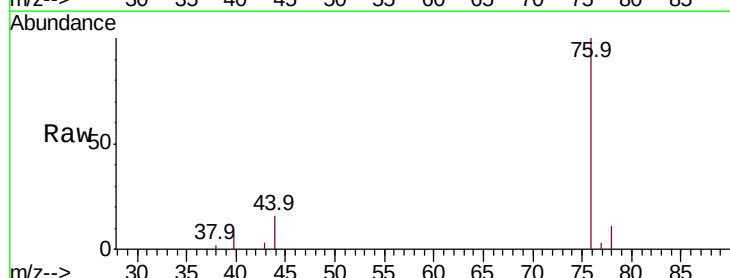
Acq: 07 Aug 2019 15:22

Tgt Ion: 76 Resp: 6840

Ion Ratio Lower Upper

76 100

78 11.3 7.1 10.7#



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

5000

4000

3000

2000

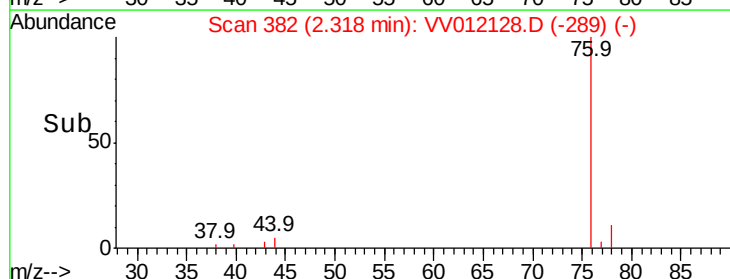
1000

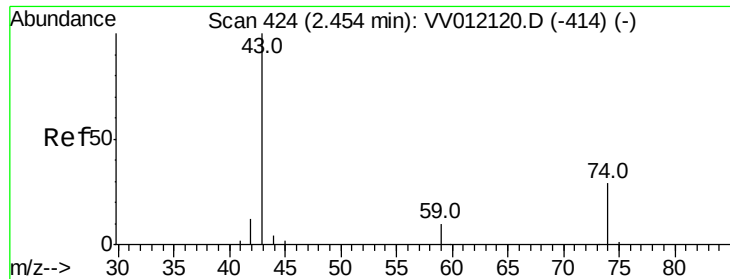
0

2.30

2.35

Time-->





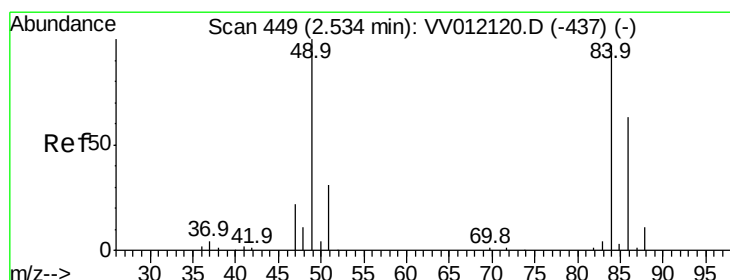
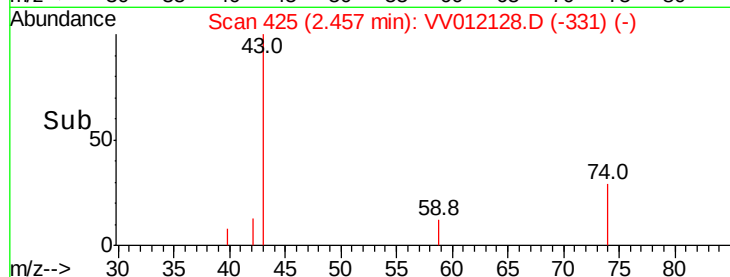
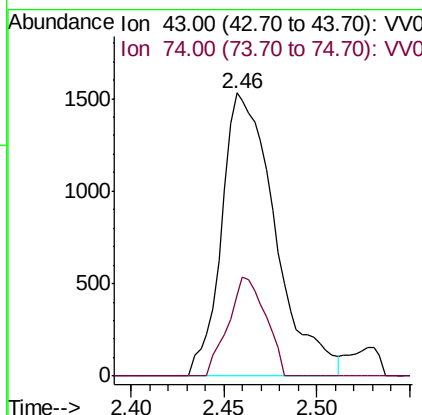
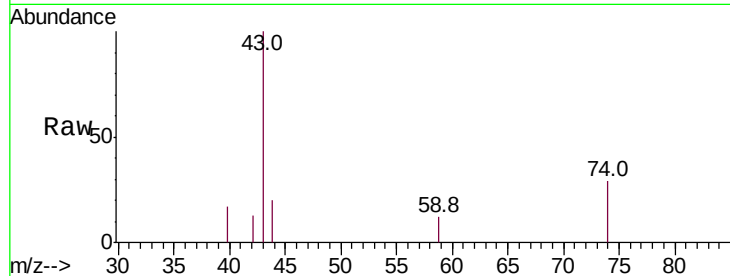
#15
Methyl Acetate
Concen: 2.532 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion: 43 Resp: 3073
Ion Ratio Lower Upper
43 100
74 24.2 21.8 32.6

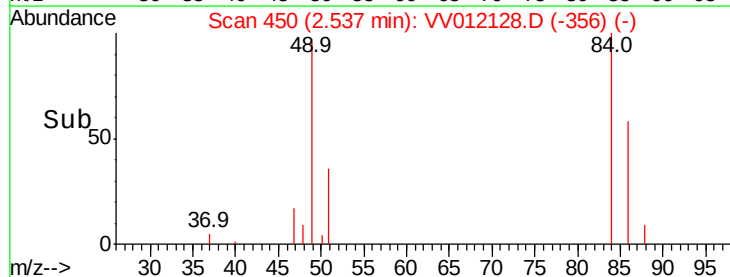
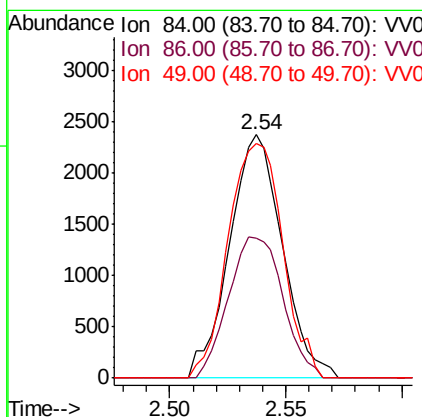
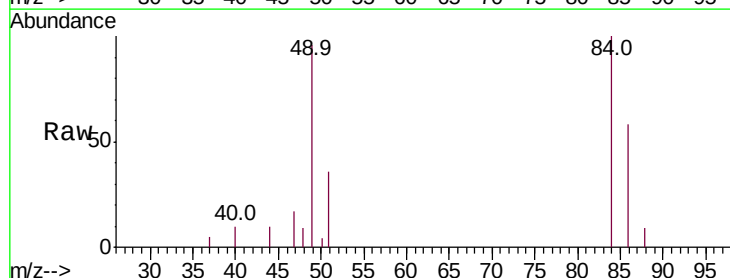
Manual Integrations
APPROVED

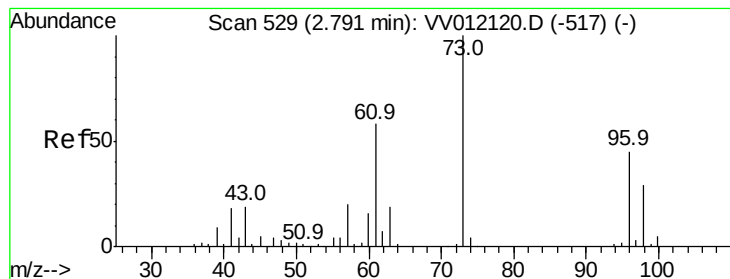
MMDadoda
8/8/2019 11:45:33 AM



#16
Methylene chloride
Concen: 2.672 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Tgt Ion: 84 Resp: 3762
Ion Ratio Lower Upper
84 100
86 57.7 45.7 84.9
49 96.3 76.6 142.2





#17

trans-1,2-Dichloroethene

Concen: 2.391 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Instrument :

MSVOA_V

ClientSampled :

MDL05

Tot Ion: 96 Resp: 3133

Ion Ratio Lower Upper

96 100

61 132.7 90.6 168.3

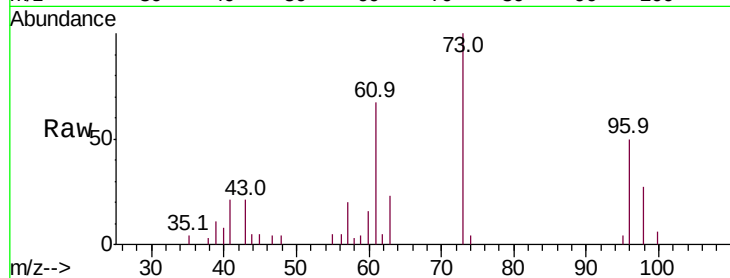
98 53.4 44.2 82.2

Manual Integrations

APPROVED

MMDadoda

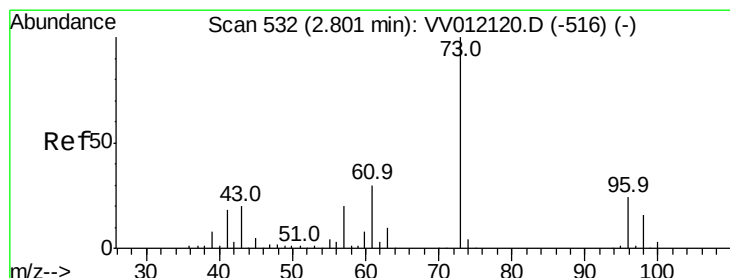
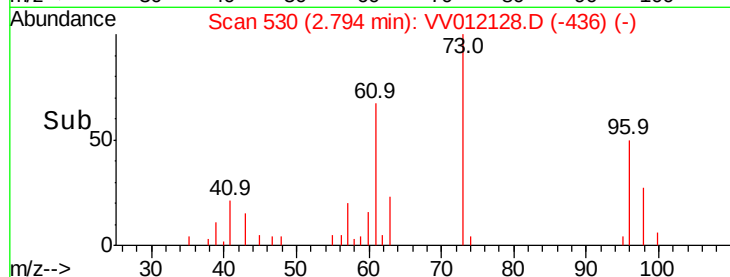
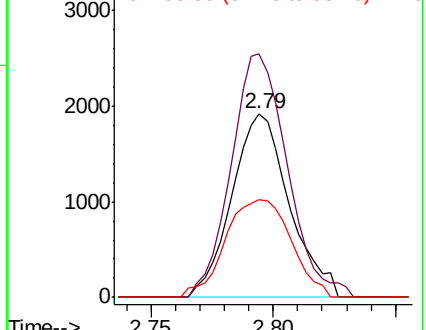
8/8/2019 11:45:33 AM



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 2.339 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

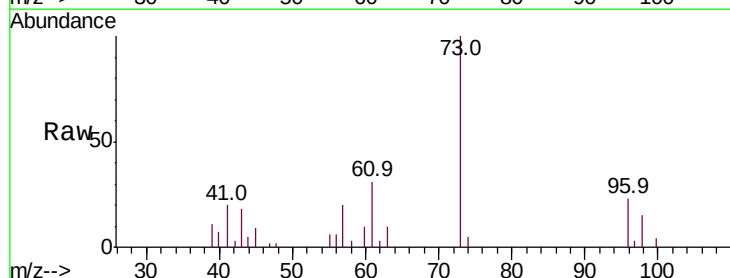
Tgt Ion: 73 Resp: 10533

Ion Ratio Lower Upper

73 100

43 22.4 15.6 23.4

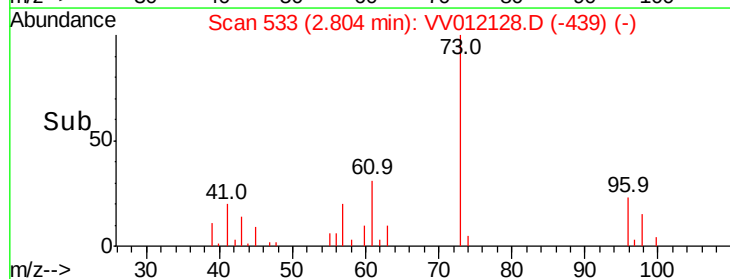
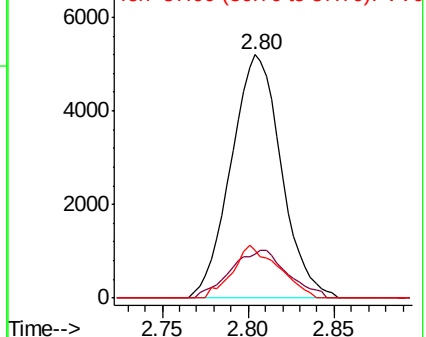
57 19.9 16.0 24.0

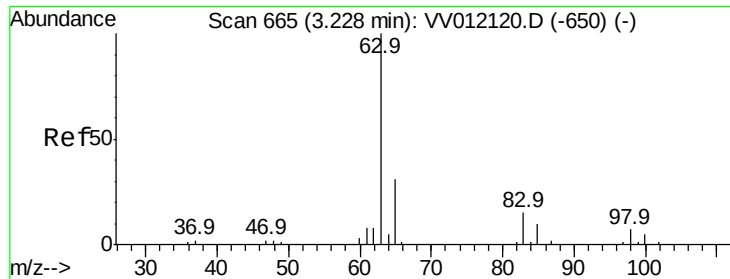


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





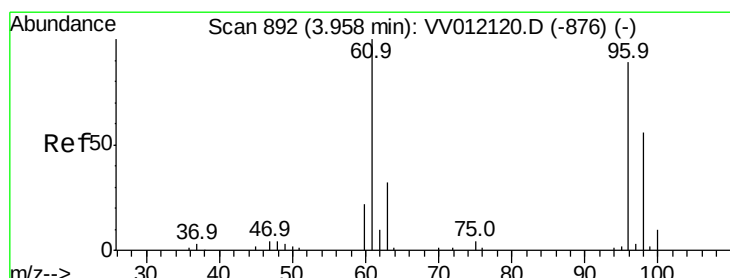
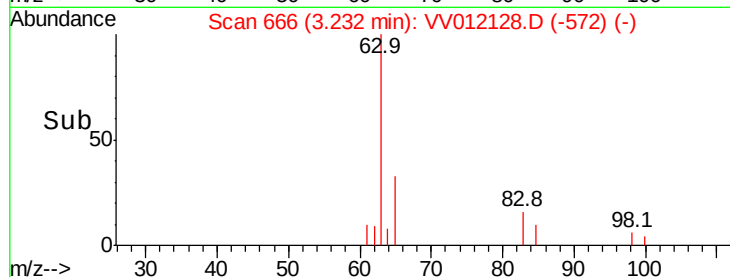
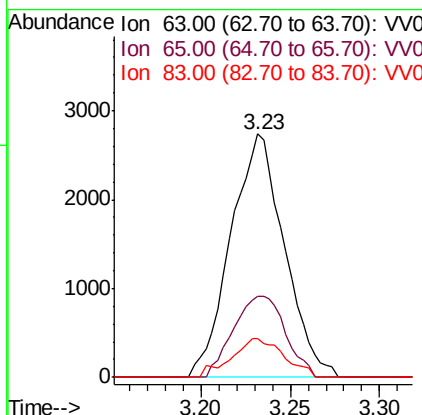
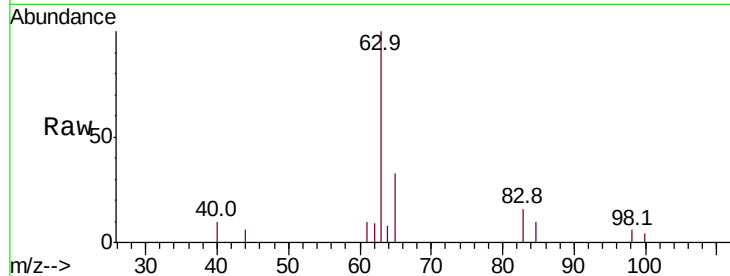
#19
 1,1-Dichloroethane
 Concen: 2.404 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VV012128.D
 Acq: 07 Aug 2019 15:22

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.3	22.3	41.3
83	16.0	10.3	19.1

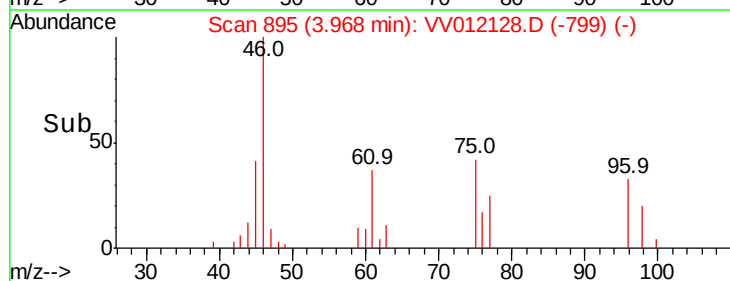
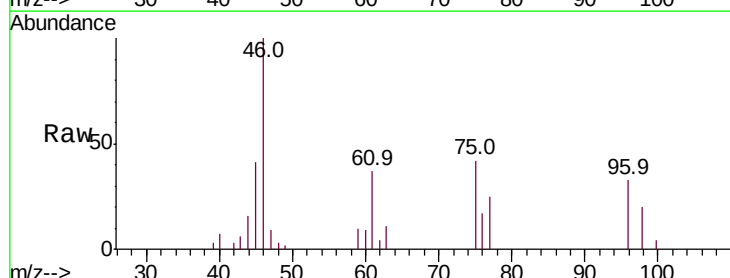
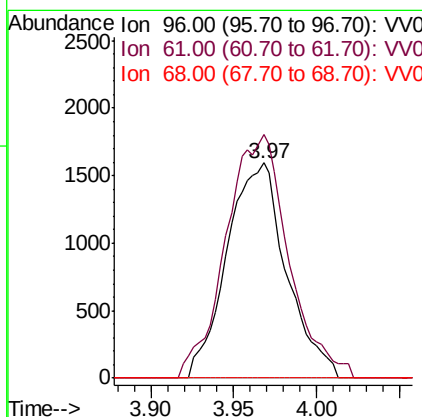
Manual Integrations
 APPROVED

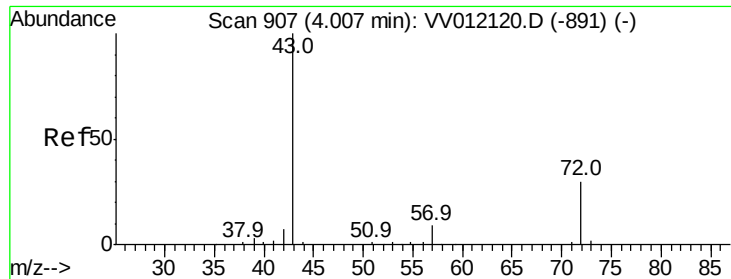
MMDadoda
 8/8/2019 11:45:33 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.572 ug/L
 RT: 3.97 min Scan# 895
 Delta R.T. 0.01 min
 Lab File: VV012128.D
 Acq: 07 Aug 2019 15:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	113.2	80.0	148.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 5.154 ug/L m

RT: 4.01 min Scan# 909

Delta R.T. 0.01 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Instrument :

MSVOA_V

ClientSampled :

MDL05

Tot Ion: 43 Resp: 4607

Ion Ratio Lower Upper

43 100

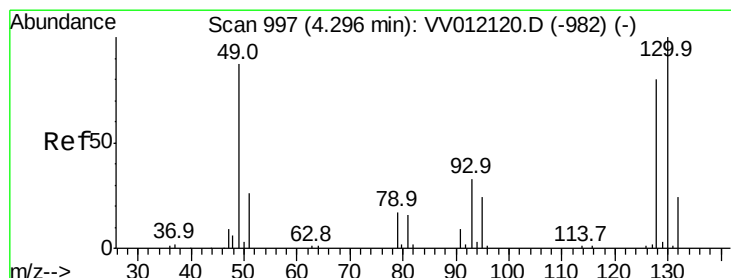
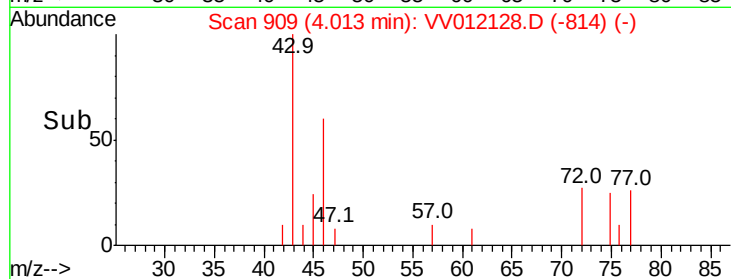
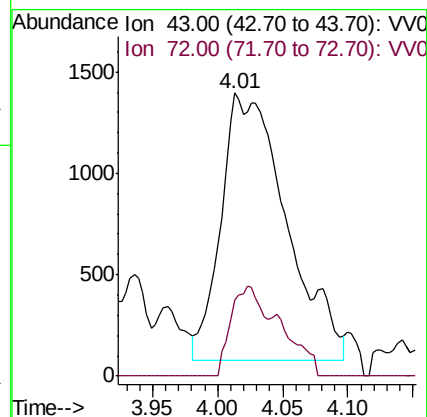
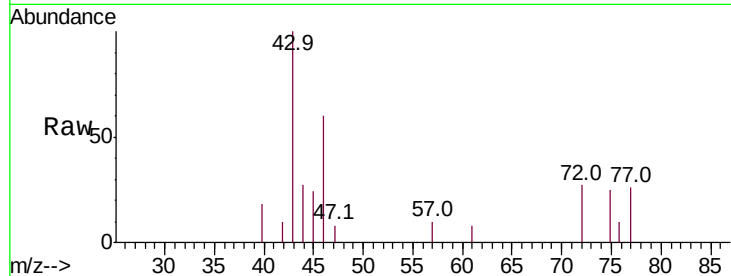
72 16.5 15.0 45.0

Manual Integrations

APPROVED

MMDadoda

8/8/2019 11:45:33 AM



#23

Bromochloromethane

Concen: 2.549 ug/L m

RT: 4.30 min Scan# 998

Delta R.T. 0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Tgt Ion: 128 Resp: 2163

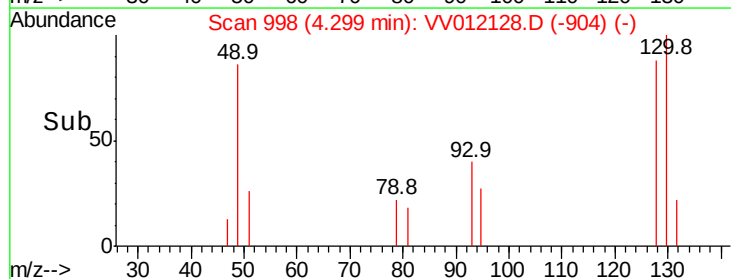
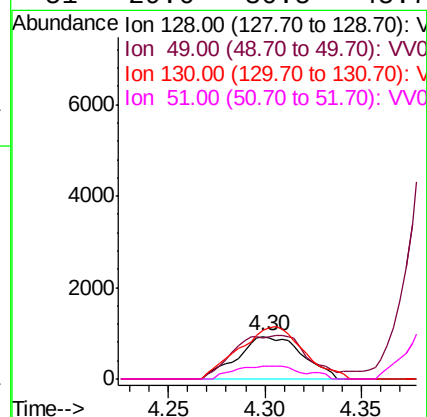
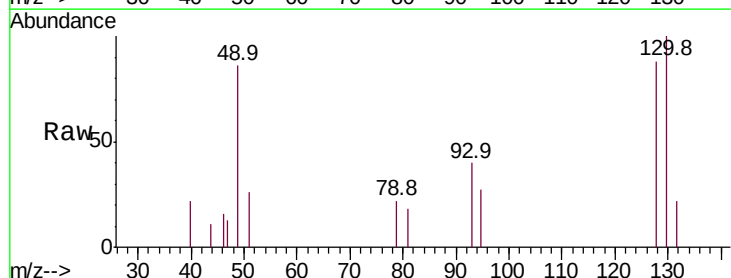
Ion Ratio Lower Upper

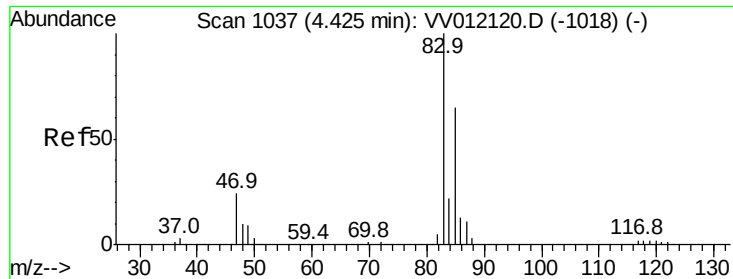
128 100

49 96.8 84.6 157.2

130 113.0 89.9 167.0

51 29.6 30.5 45.7#





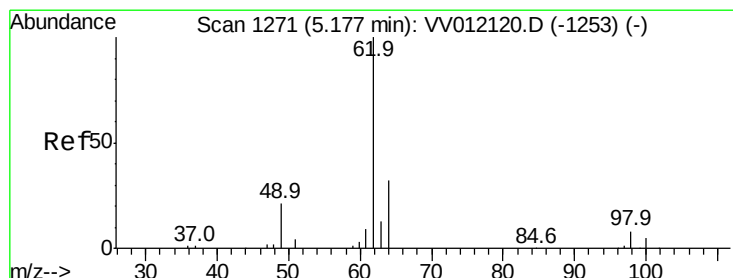
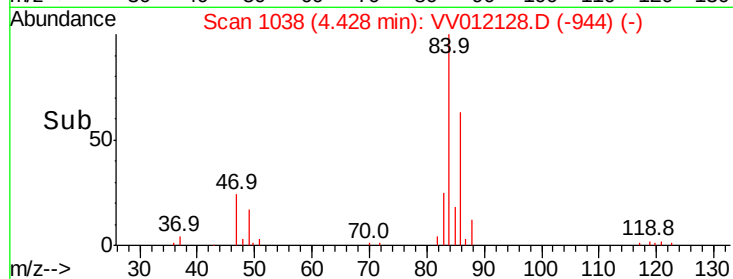
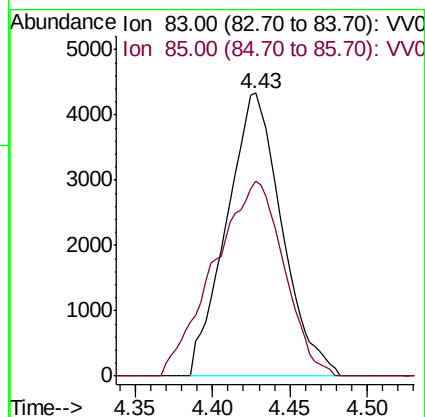
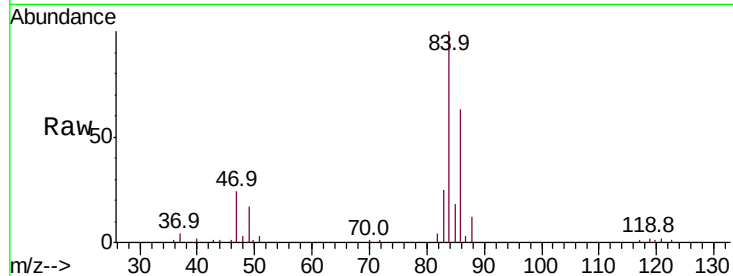
#25
Chloroform
Concen: 3.977 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Instrument :
MSVOA_V
ClientSampled :
MDL05

Tot Ion	83	Resp	10772
Ion Ratio	100	Lower	Upper
85	68.9	45.8	85.2

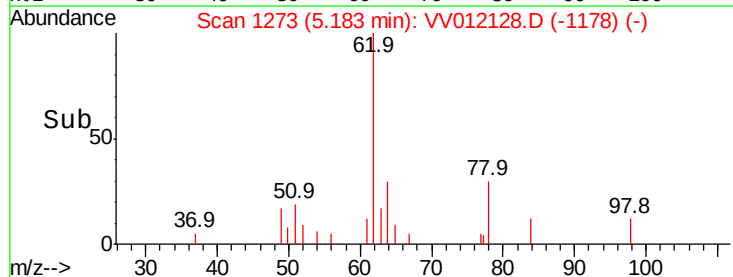
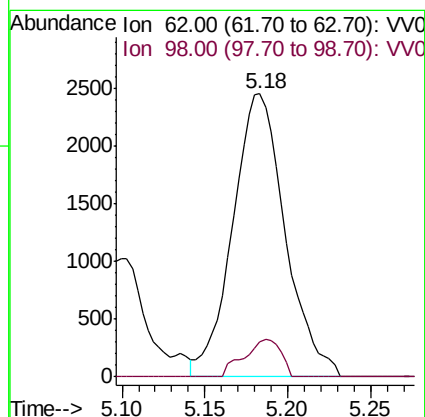
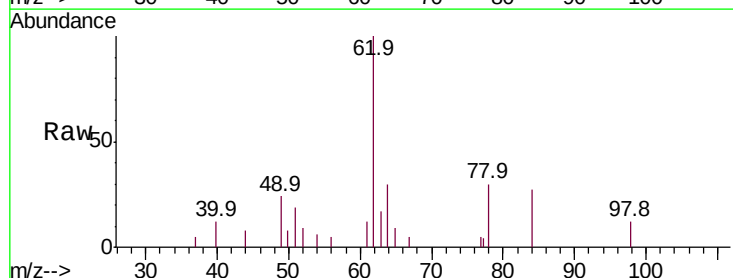
Manual Integrations
APPROVED

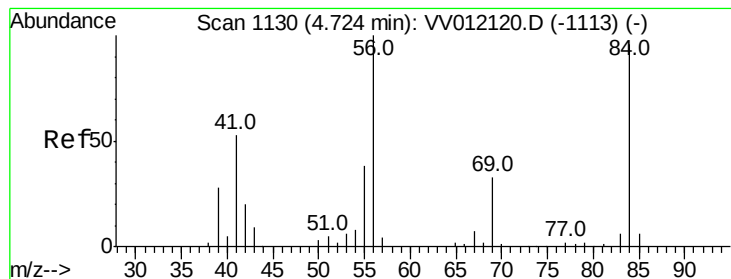
MMDadoda
8/8/2019 11:45:33 AM



#27
1,2-Dichloroethane
Concen: 2.564 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Tgt Ion	62	Resp	5397
Ion Ratio	100	Lower	Upper
98	12.4	7.5	11.3#





#29

Cyclohexane

Concen: 2.405 ug/L

RT: 4.73 min Scan# 1132

Delta R.T. 0.01 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Instrument :

MSVOA_V

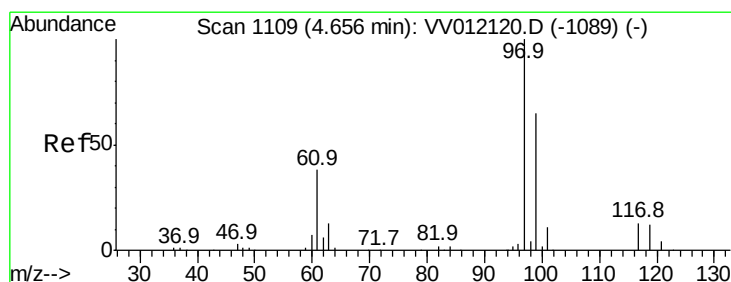
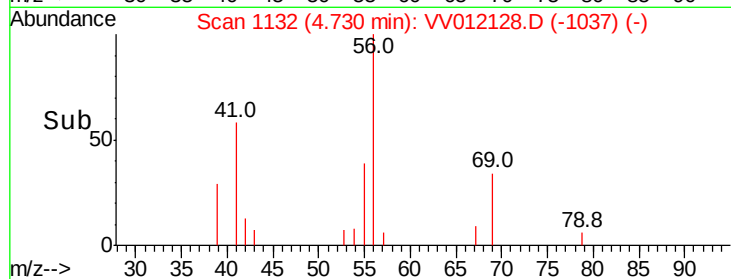
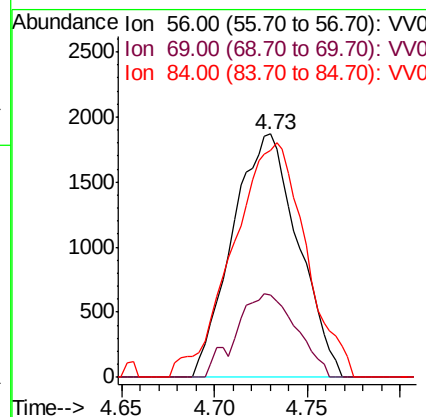
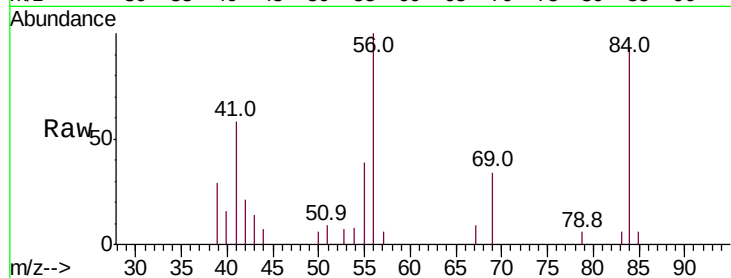
ClientSampleId :

MDL05

Tot Ion:	56	Resp:	4615
Ion	Ratio	Lower	Upper
56	100		
69	28.5	25.8	38.8
84	106.5	76.0	114.0

Manual Integrations
APPROVED

MMDadoda
8/8/2019 11:45:33 AM



#30

1,1,1-Trichloroethane

Concen: 2.416 ug/L

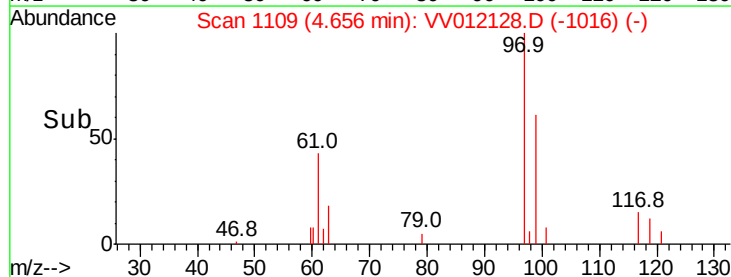
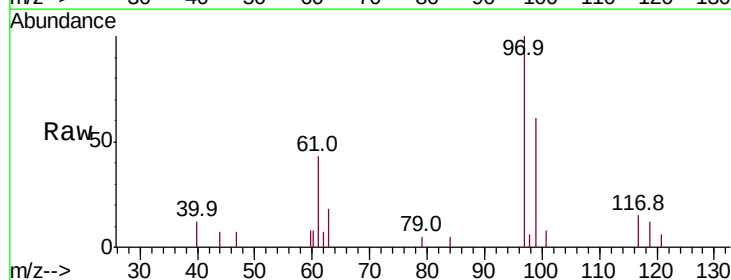
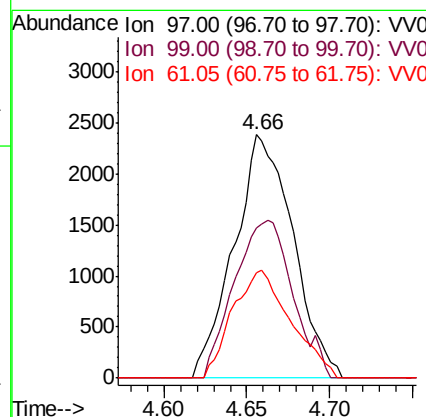
RT: 4.66 min Scan# 1109

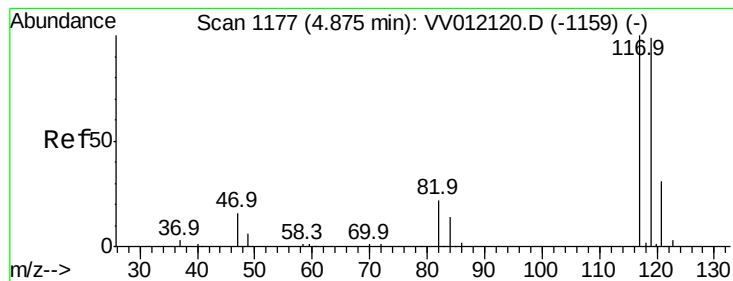
Delta R.T. -0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Tgt Ion:	97	Resp:	5889
Ion	Ratio	Lower	Upper
97	100		
99	61.8	51.1	76.7
61	43.5	31.3	46.9





#31

Carbon tetrachloride

Concen: 2.429 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion:117 Resp: 5494

Ion Ratio Lower Upper

117 100

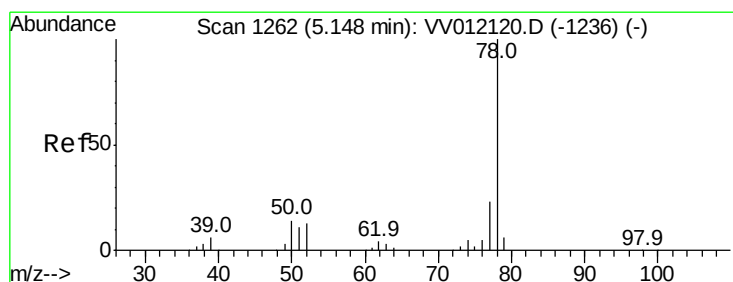
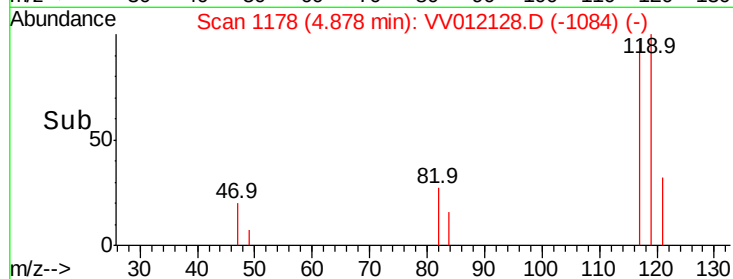
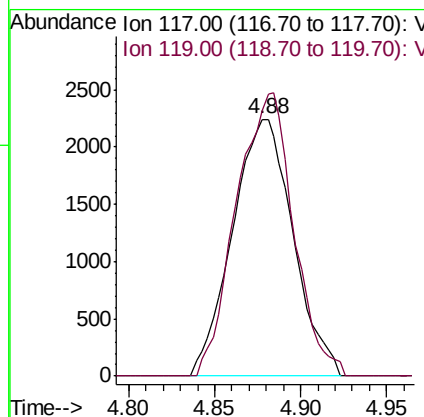
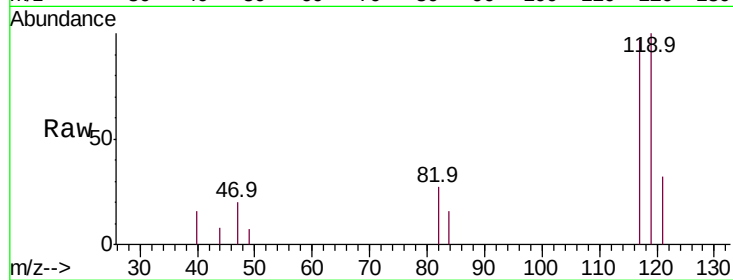
119 104.1 78.2 117.4

Manual Integrations

APPROVED

MMDadoda

8/8/2019 11:45:33 AM



#33

Benzene

Concen: 2.530 ug/L

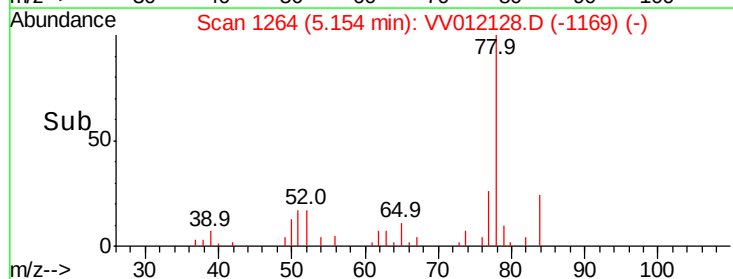
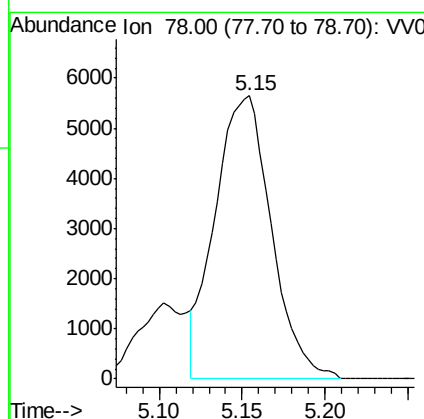
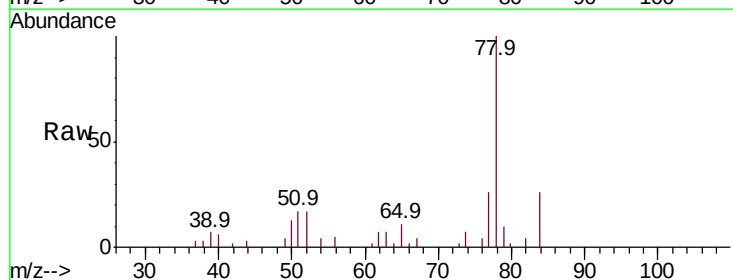
RT: 5.15 min Scan# 1264

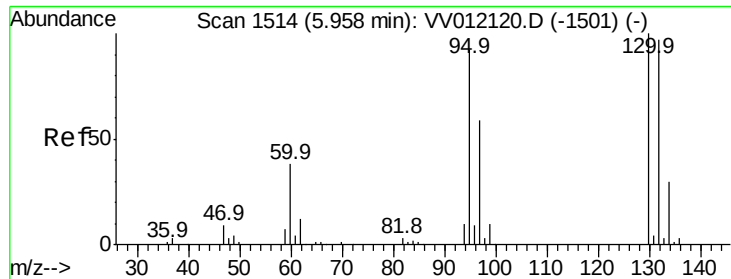
Delta R.T. 0.01 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Tgt Ion: 78 Resp: 13365





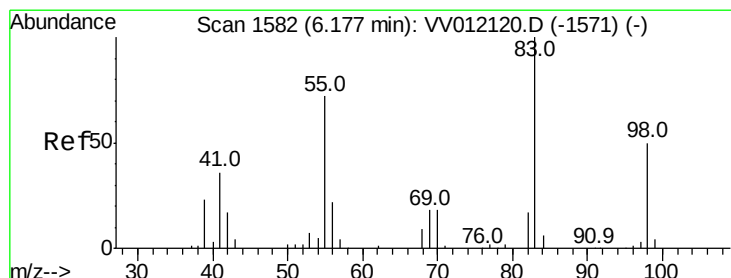
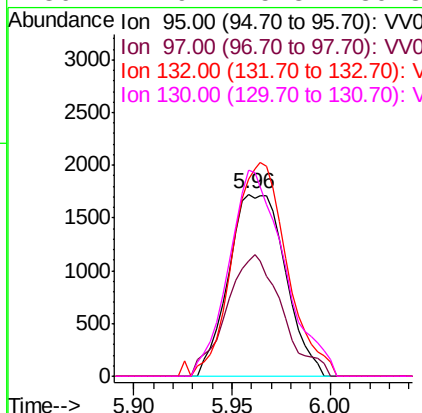
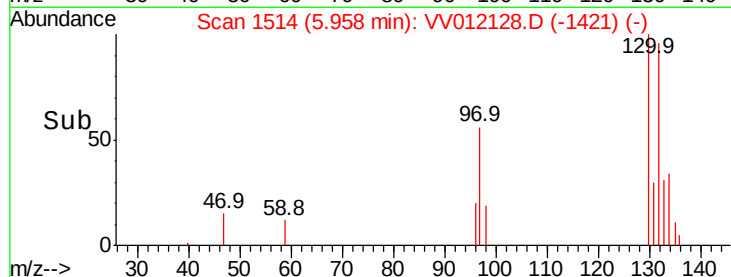
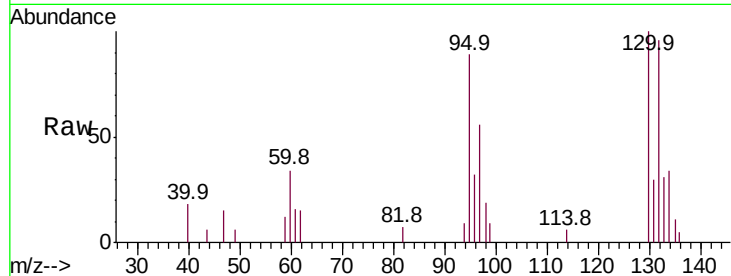
#34
 Trichloroethene
 Concen: 2.363 ug/L m
 RT: 5.96 min Scan# 1514
 Delta R.T. -0.00 min
 Lab File: VV012128.D
 Acq: 07 Aug 2019 15:22

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion: 95 Resp: 3469
 Ion Ratio Lower Upper
 95 100
 97 63.7 43.4 80.6
 132 108.3 73.1 135.8
 130 112.9 75.3 139.8

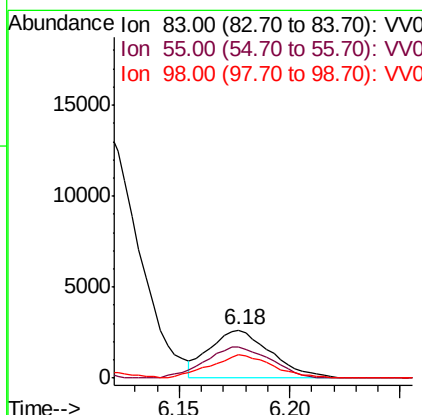
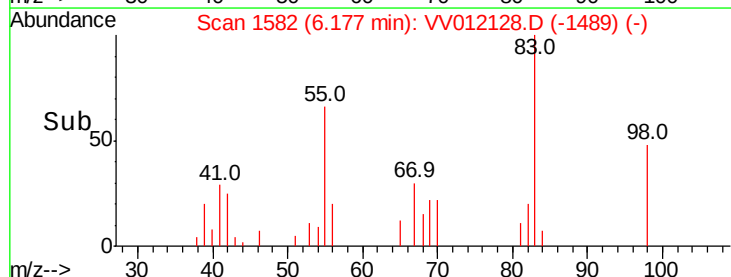
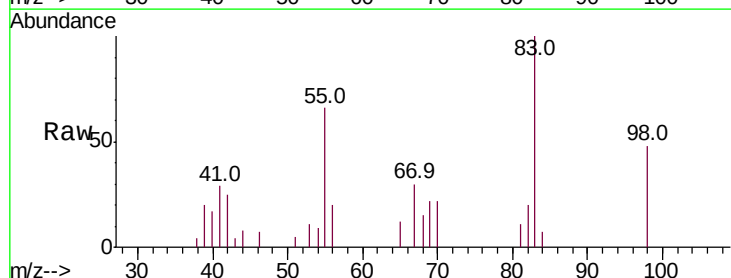
Manual Integrations
 APPROVED

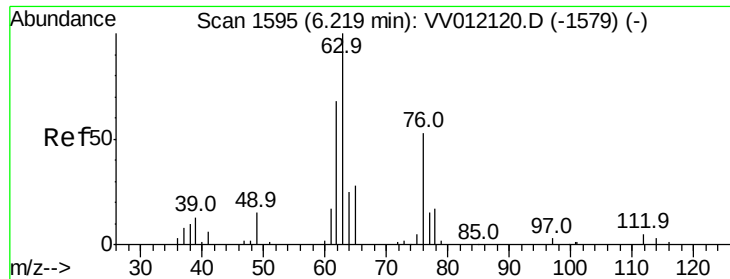
MMDadoda
 8/8/2019 11:45:33 AM



#35
 Methylcyclohexane
 Concen: 2.337 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV012128.D
 Acq: 07 Aug 2019 15:22

Tgt Ion: 83 Resp: 5108
 Ion Ratio Lower Upper
 83 100
 55 68.8 55.5 83.3
 98 48.5 38.5 57.7





#37

1,2-Dichloropropane

Concen: 2.508 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

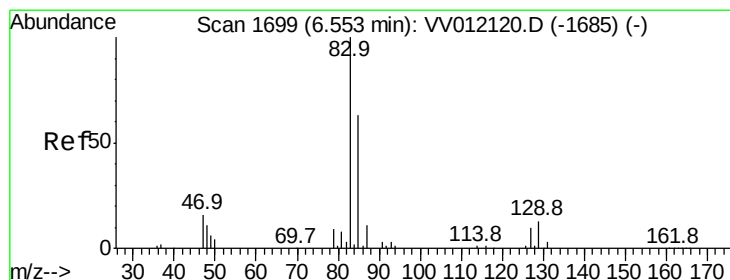
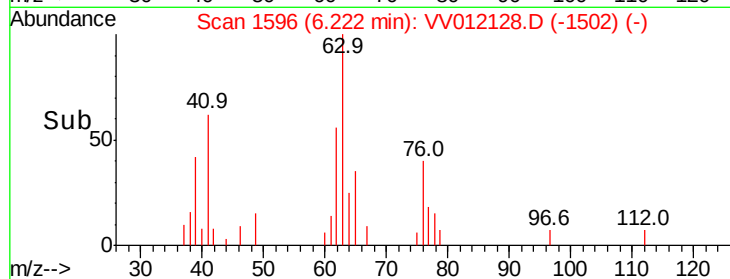
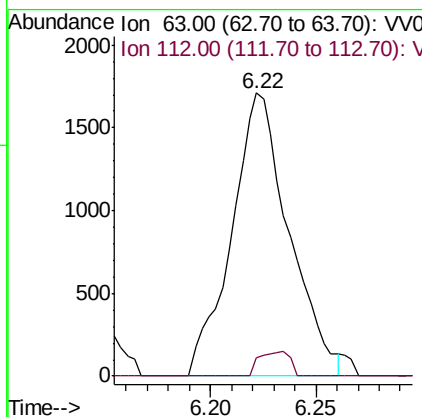
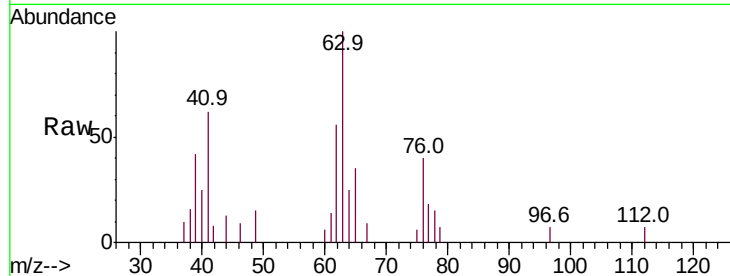
Instrument :
MSVOA_V

ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
63	100		
112	4.7	4.2	6.2

Manual Integrations
APPROVED

MMDadoda
8/8/2019 11:45:33 AM



#38

Bromodichloromethane

Concen: 2.499 ug/L

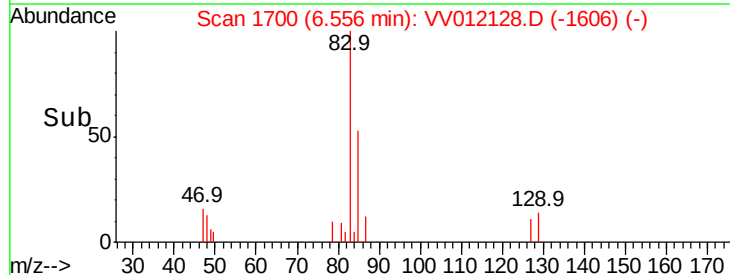
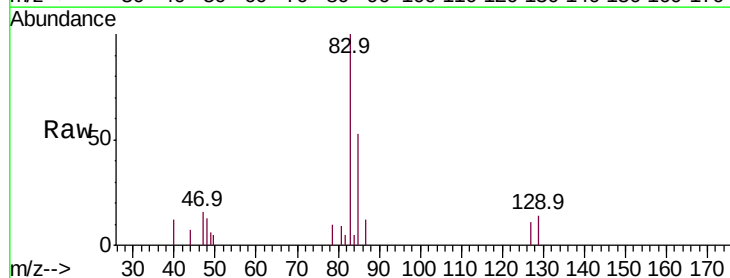
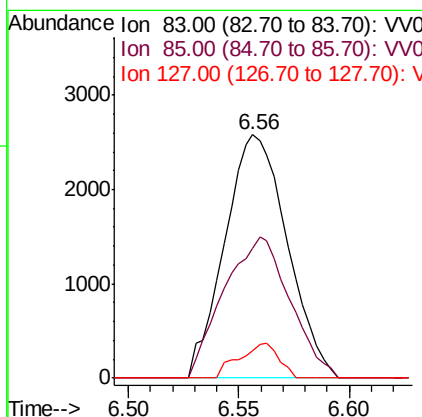
RT: 6.56 min Scan# 1700

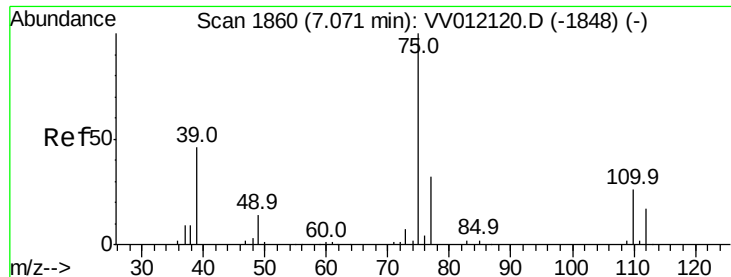
Delta R.T. 0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	53.3	45.0	83.6
127	11.2	7.9	11.9





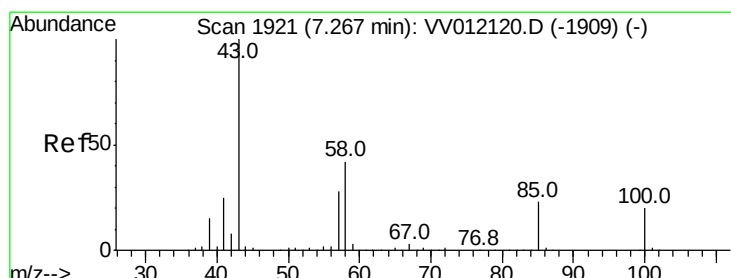
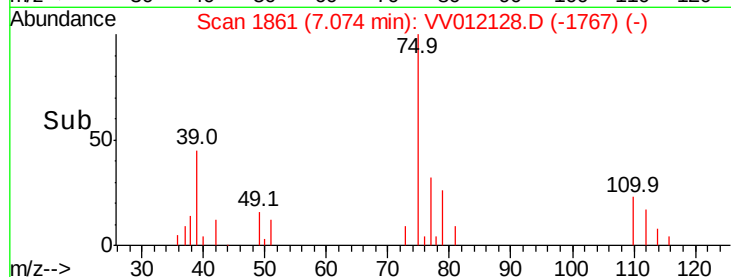
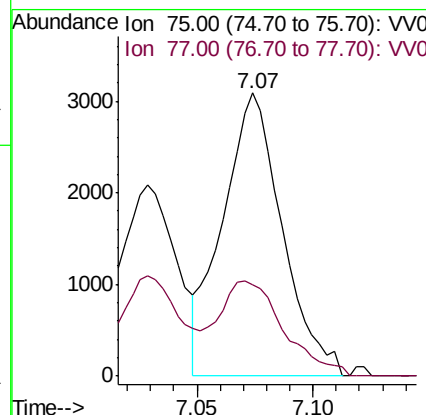
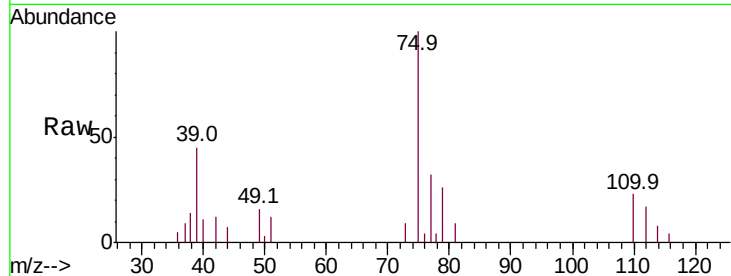
#39
 cis-1,3-Dichloropropene
 Concen: 2.432 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VV012128.D
 Acq: 07 Aug 2019 15:22

Instrument :
 MSVOA_V
 ClientSampled :
 MDL05

Tot Ion: 75 Resp: 5524
 Ion Ratio Lower Upper
 75 100
 77 32.4 22.3 41.5

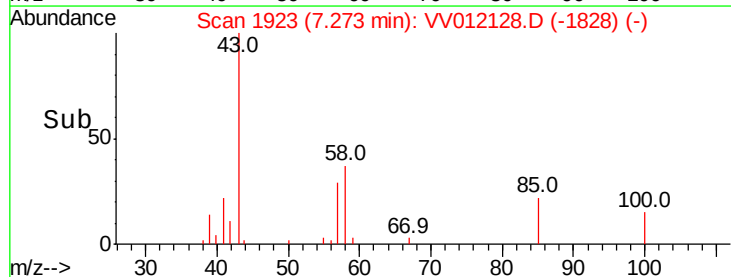
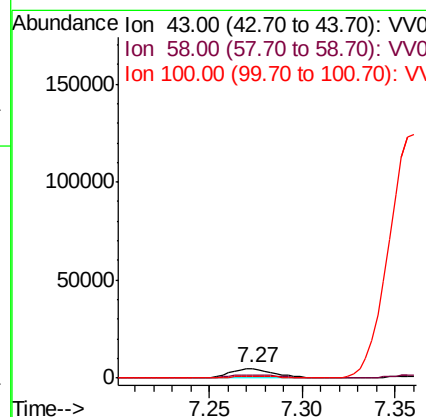
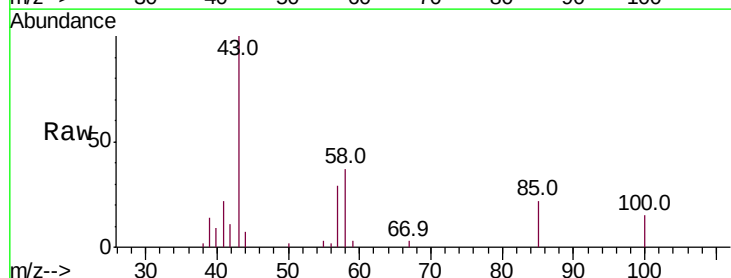
Manual Integrations
 APPROVED

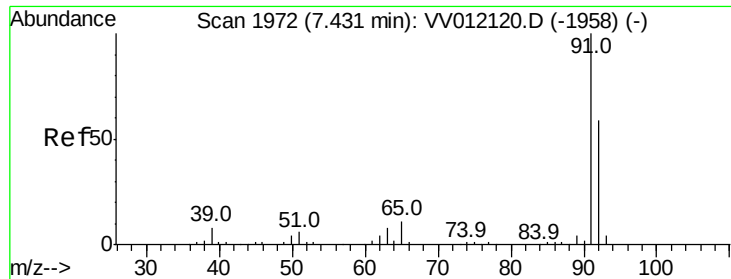
MMDadoda
 8/8/2019 11:45:33 AM



#40
 4-Methyl-2-pentanone
 Concen: 5.080 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.01 min
 Lab File: VV012128.D
 Acq: 07 Aug 2019 15:22

Tgt Ion: 43 Resp: 8424
 Ion Ratio Lower Upper
 43 100
 58 39.6 33.4 50.2
 100 16.5 15.0 22.4





#42

Toluene

Concen: 2.545 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion: 91 Resp: 14939

Ion Ratio Lower Upper

91 100

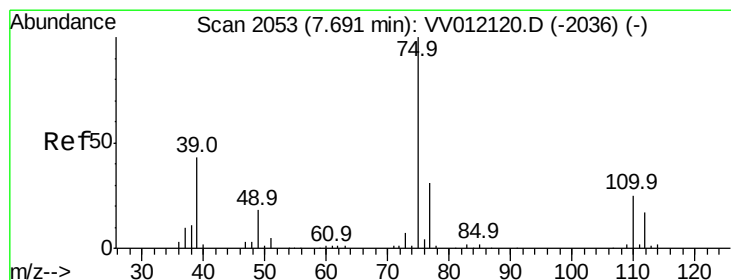
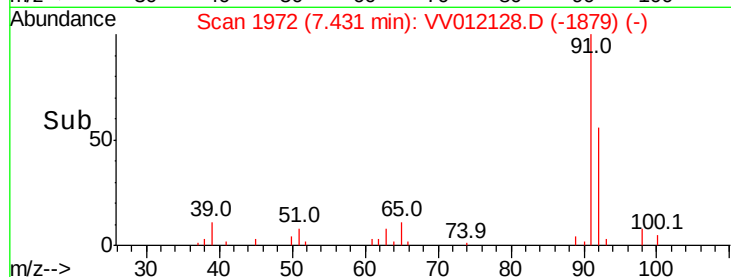
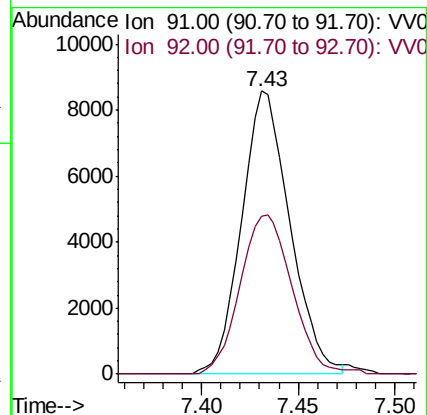
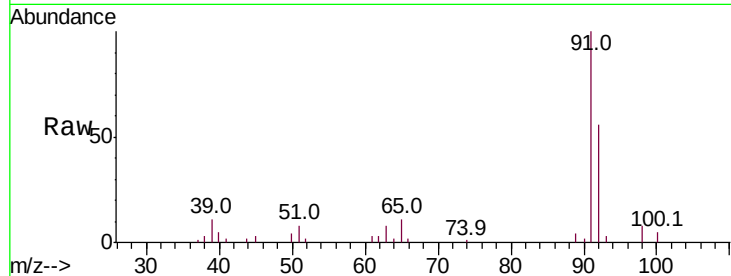
92 55.8 40.1 74.5

Manual Integrations

APPROVED

MMDadoda

8/8/2019 11:45:33 AM



#44

trans-1,3-Dichloropropene

Concen: 2.342 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012128.D

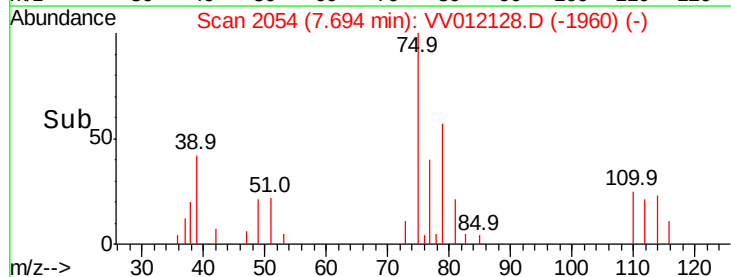
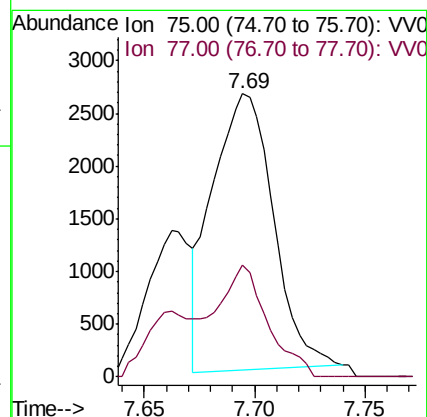
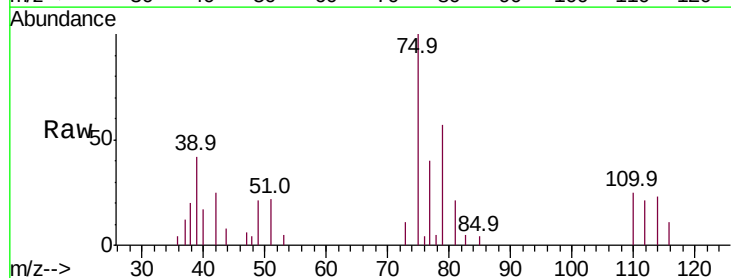
Acq: 07 Aug 2019 15:22

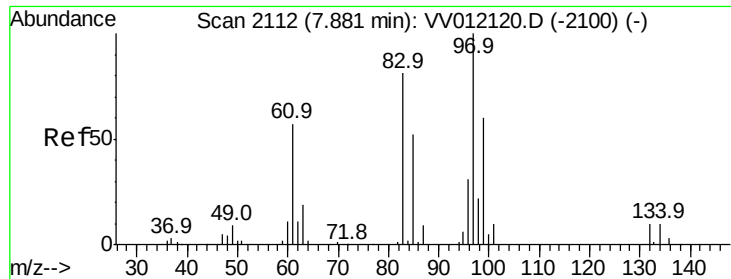
Tgt Ion: 75 Resp: 5023

Ion Ratio Lower Upper

75 100

77 39.7 21.8 40.4





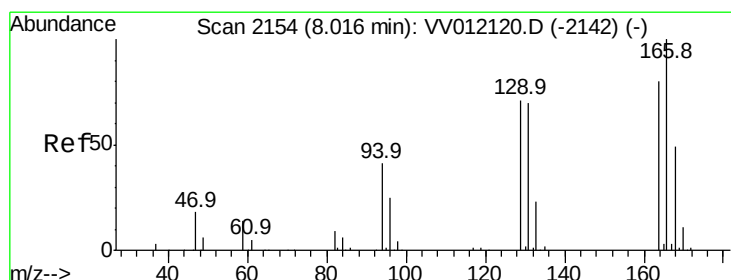
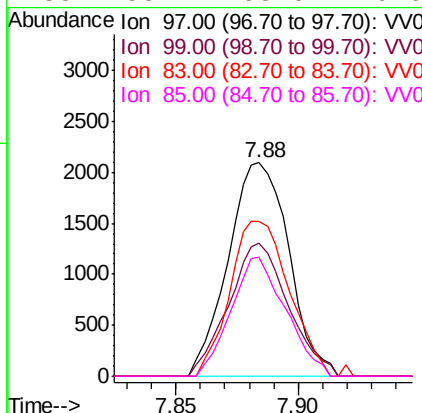
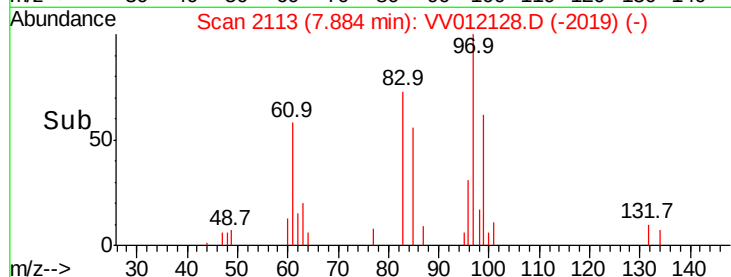
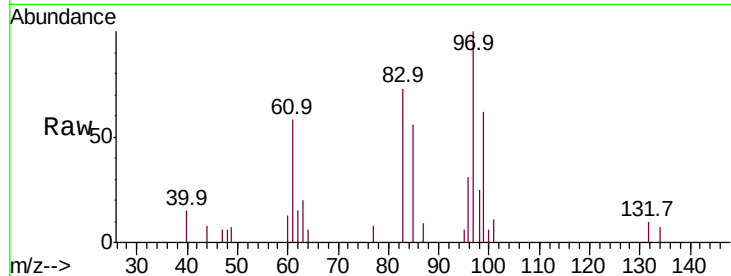
#45
1,1,2-Trichloroethane
Concen: 2.601 ug/L
RT: 7.88 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Instrument :
MSVOA_V
ClientSampled :
MDL05

Tot Ion:	97	Resp:	3613
Ion	Ratio	Lower	Upper
97	100		
99	62.2	47.2	87.6
83	72.6	58.0	107.6
85	55.7	38.0	70.6

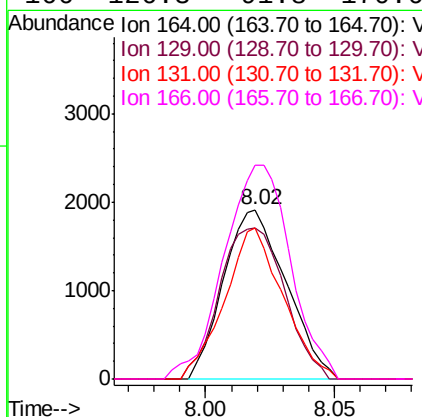
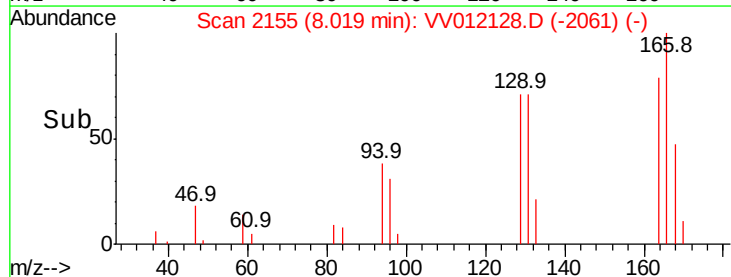
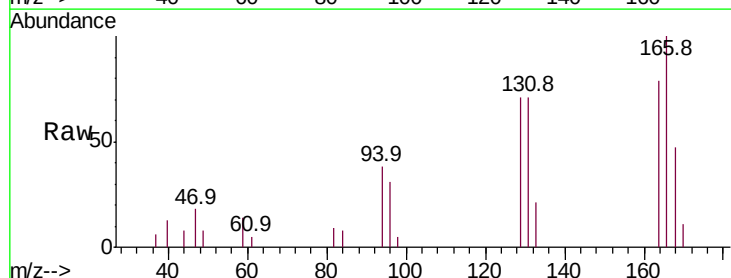
Manual Integrations
APPROVED

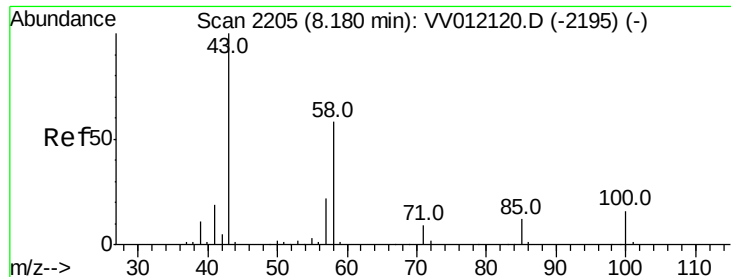
MMDadoda
8/8/2019 11:45:33 AM



#46
Tetrachloroethene
Concen: 2.364 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. 0.00 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Tgt Ion:	164	Resp:	3234
Ion	Ratio	Lower	Upper
164	100		
129	89.6	64.3	119.5
131	89.3	60.1	111.7
166	126.3	91.8	170.6





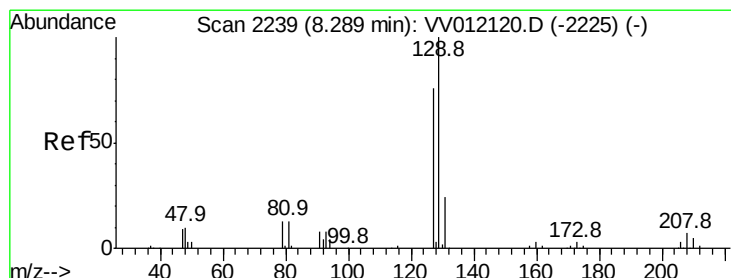
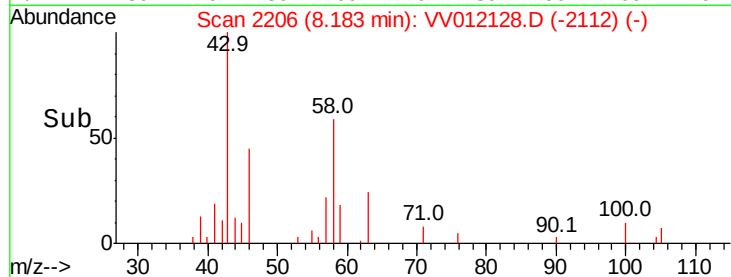
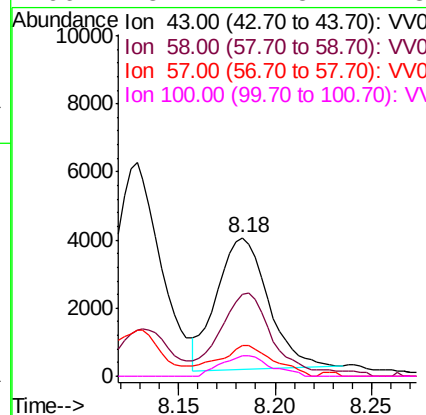
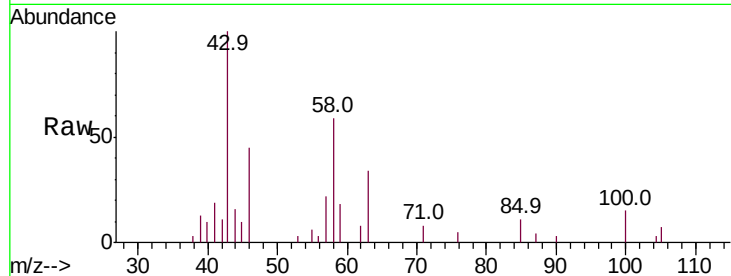
#48
2-Hexanone
Concen: 5.741 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
43	100		
58	58.2	45.6	68.4
57	24.7	17.0	25.6
100	15.1	11.5	17.3

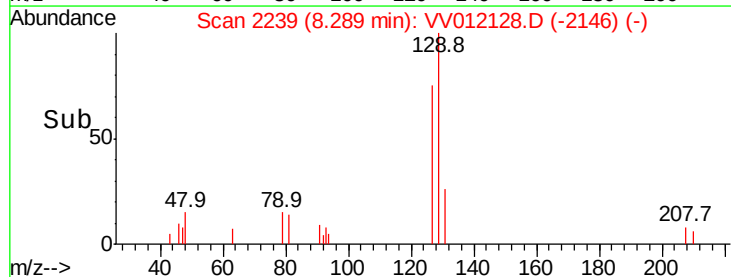
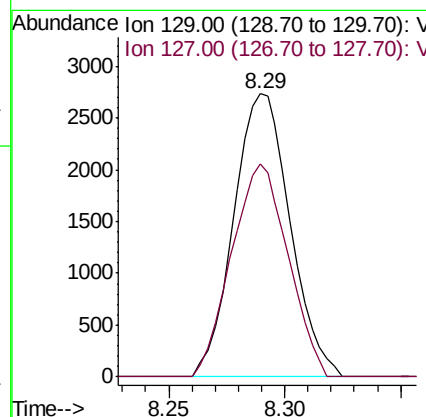
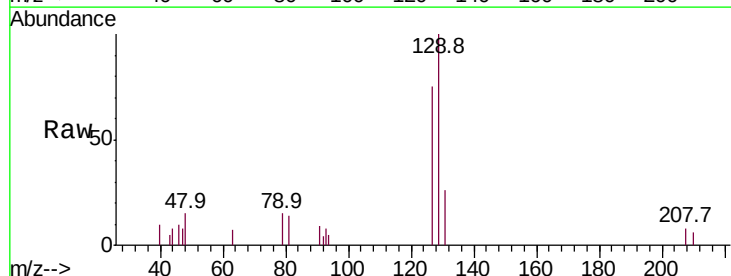
Manual Integrations
APPROVED

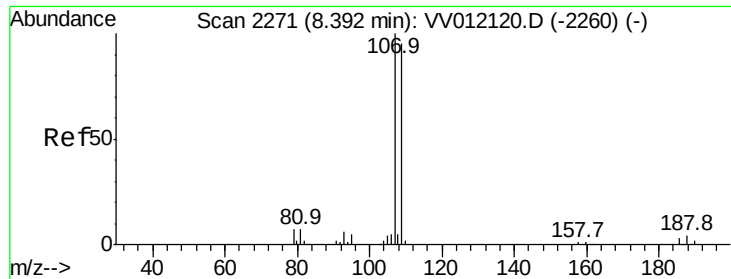
MMDadoda
8/8/2019 11:45:33 AM



#49
Dibromochloromethane
Concen: 2.556 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.4	53.8	100.0





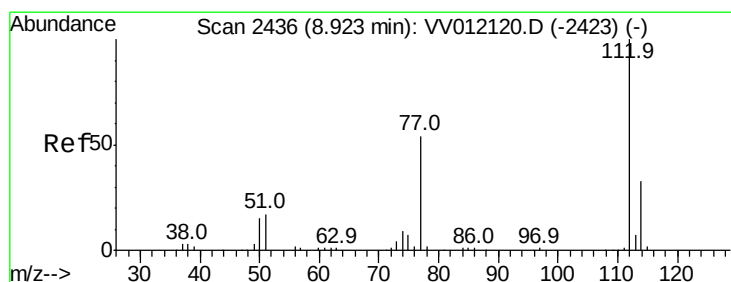
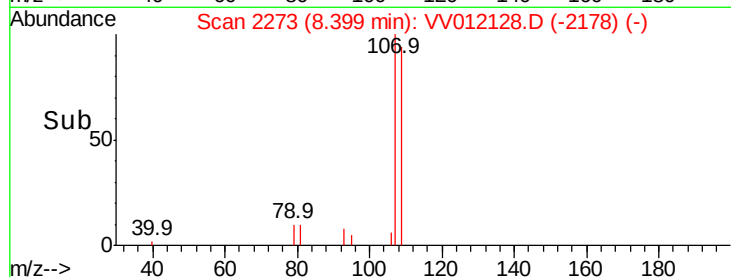
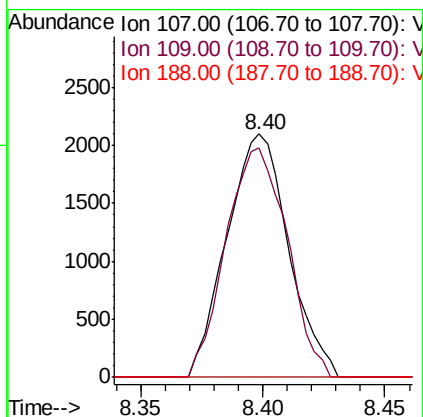
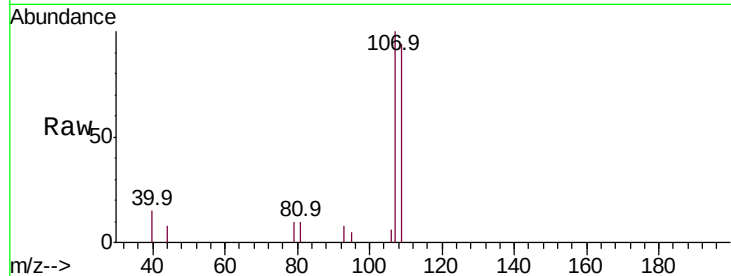
#50
1,2-Dibromoethane
Concen: 2.400 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. 0.01 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Instrument :
MSVOA_V
ClientSampled :
MDL05

Tot Ion	Ratio	Resp	Lower	Upper
107	100	3686		
109	94.3	67.0	124.4	
188	0.0	3.9	5.9#	

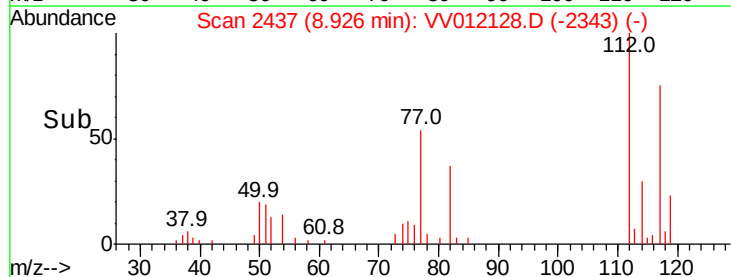
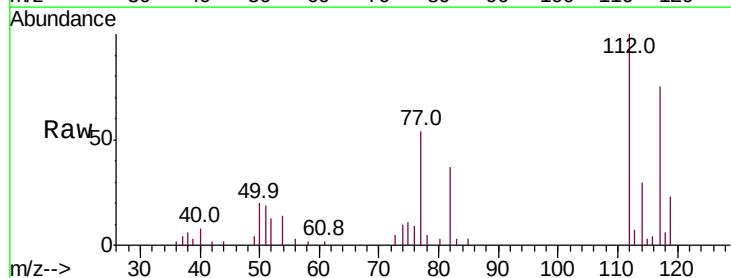
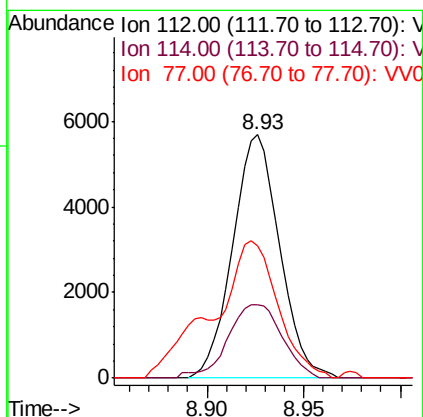
Manual Integrations
APPROVED

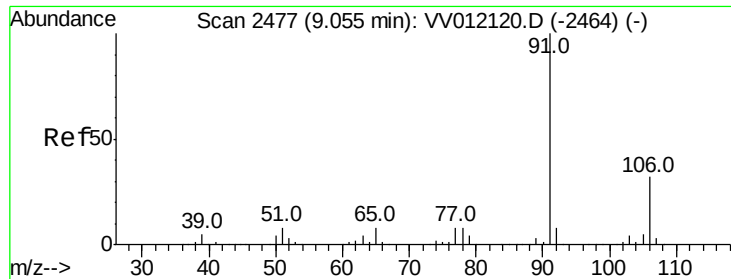
MMDadoda
8/8/2019 11:45:33 AM



#51
Chlorobenzene
Concen: 2.425 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. 0.00 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	9596		
114	30.4	22.8	42.4	
77	54.1	44.7	67.1	





#52

Ethylbenzene

Concen: 2.326 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Instrument :

MSVOA_V

ClientSampled :

MDL05

Tot Ion: 91 Resp: 15316

Ion Ratio Lower Upper

91 100

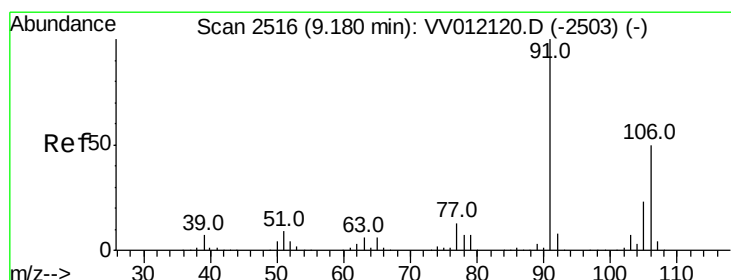
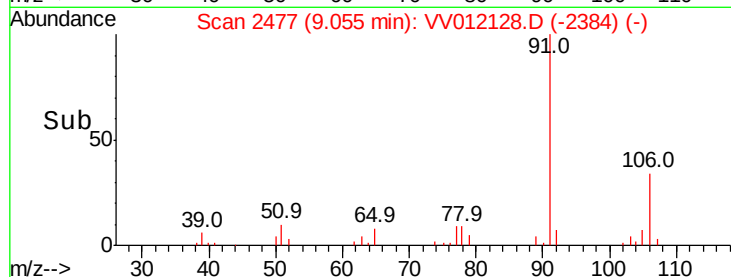
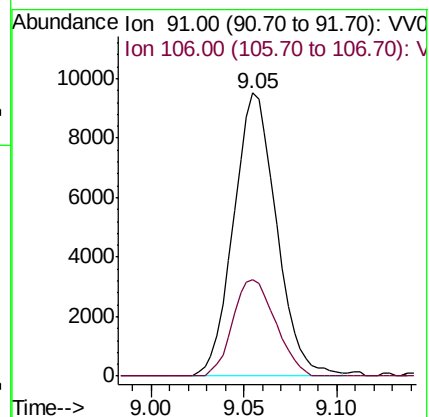
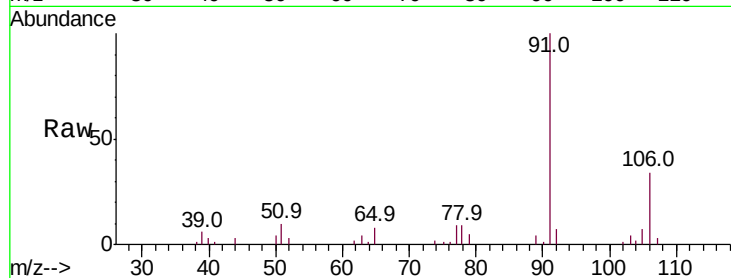
106 33.9 22.3 41.5

Manual Integrations

APPROVED

MMDadoda

8/8/2019 11:45:33 AM



#53

m,p-Xylene

Concen: 2.407 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV012128.D

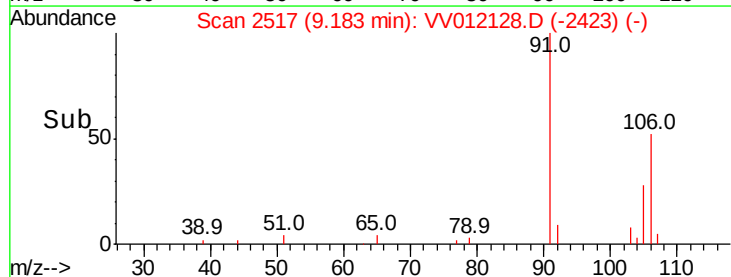
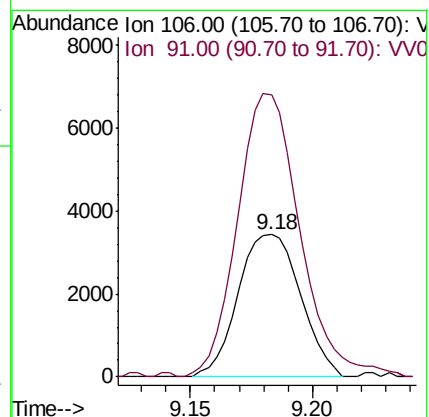
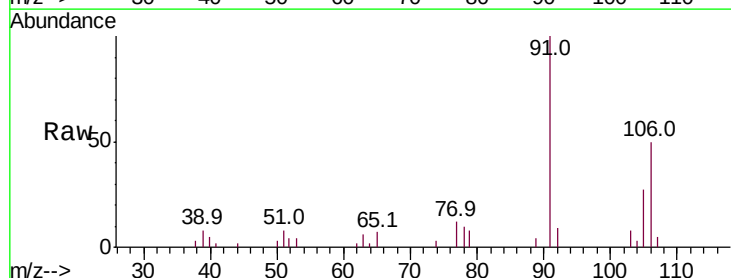
Acq: 07 Aug 2019 15:22

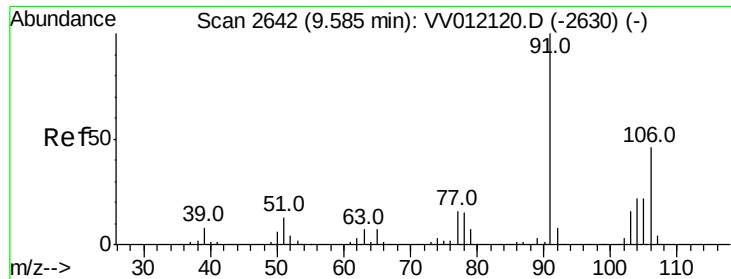
Tgt Ion: 106 Resp: 6116

Ion Ratio Lower Upper

106 100

91 198.1 146.7 272.5





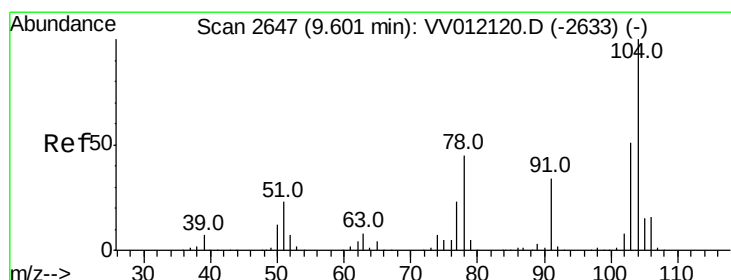
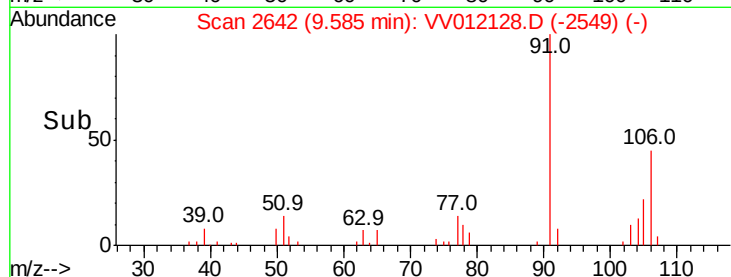
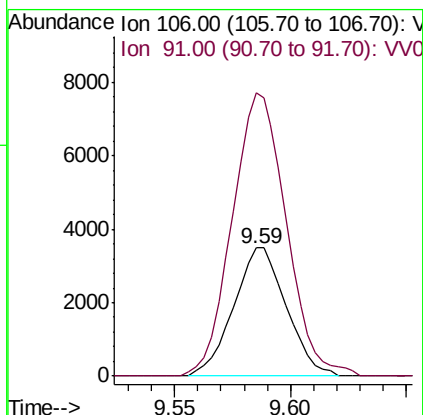
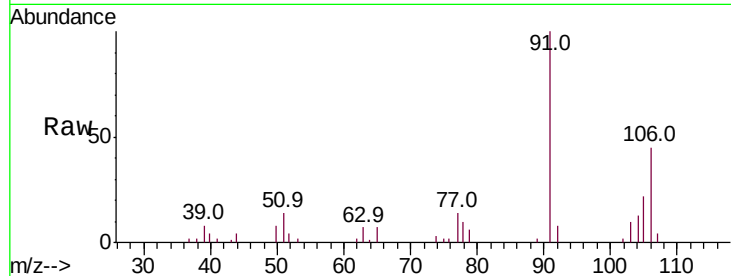
#54
o-Xylene
Concen: 2.191 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Instrument :
MSVOA_V
ClientSampled :
MDL05

Tot Ion:106 Resp: 5524
Ion Ratio Lower Upper
106 100
91 220.5 150.4 279.2

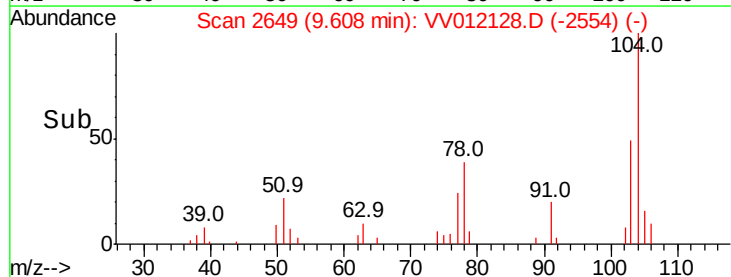
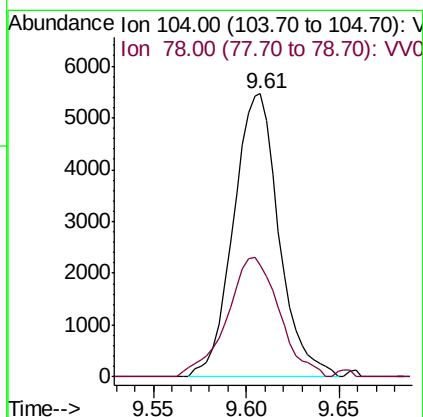
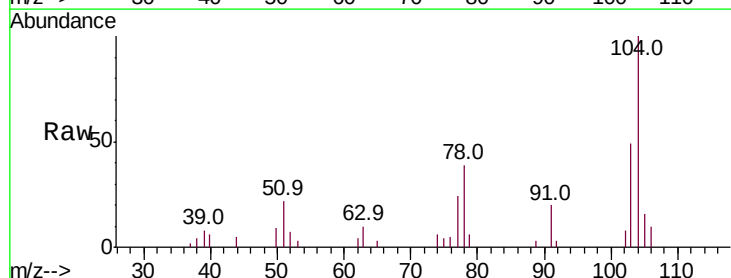
Manual Integrations
APPROVED

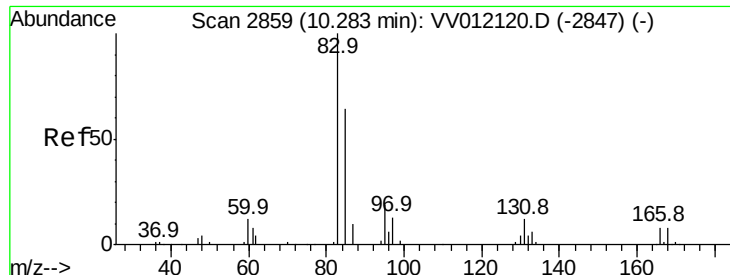
MMDadoda
8/8/2019 11:45:33 AM



#55
Styrene
Concen: 2.202 ug/L
RT: 9.61 min Scan# 2649
Delta R.T. 0.01 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Tgt Ion:104 Resp: 9354
Ion Ratio Lower Upper
104 100
78 39.5 32.0 59.4





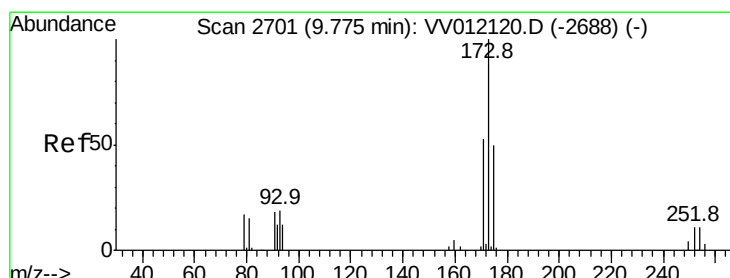
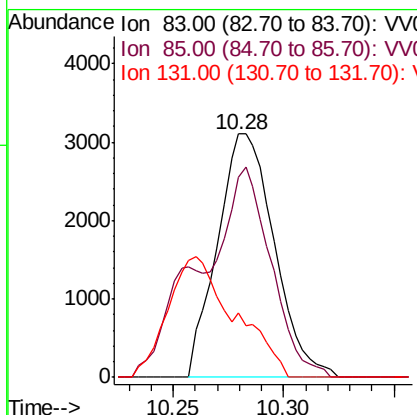
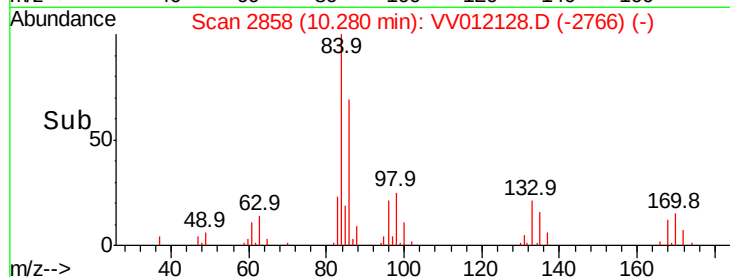
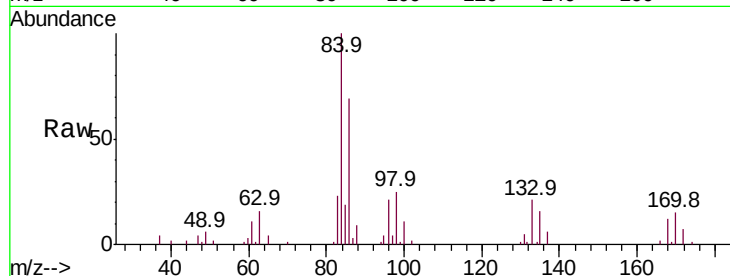
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.604 ug/L
 RT: 10.28 min Scan# 2858
 Delta R.T. -0.00 min
 Lab File: VV012128.D
 Acq: 07 Aug 2019 15:22

Instrument :
 MSVOA_V
 ClientSampled :
 MDL05

Tot Ion	Ratio	Lower	Upper
83	100		
85	81.9	44.6	82.8
131	26.2	9.3	13.9#

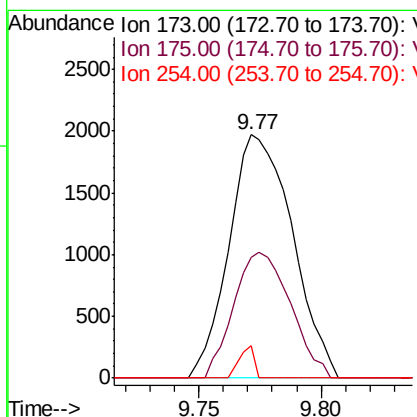
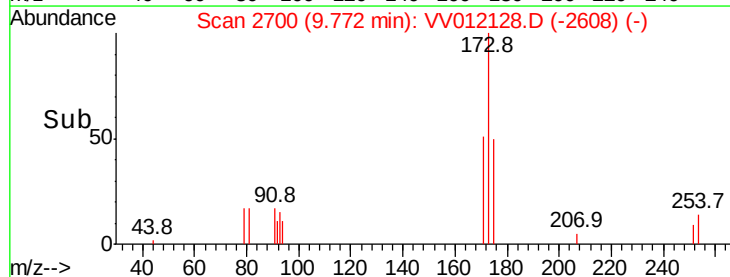
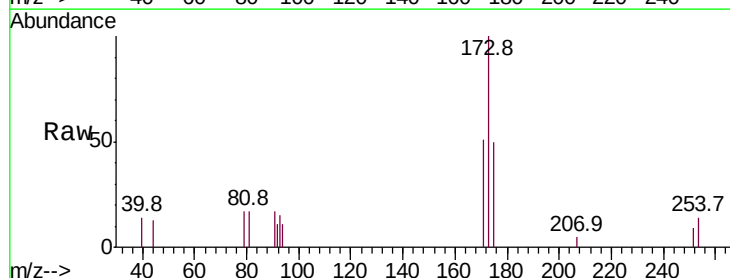
Manual Integrations
 APPROVED

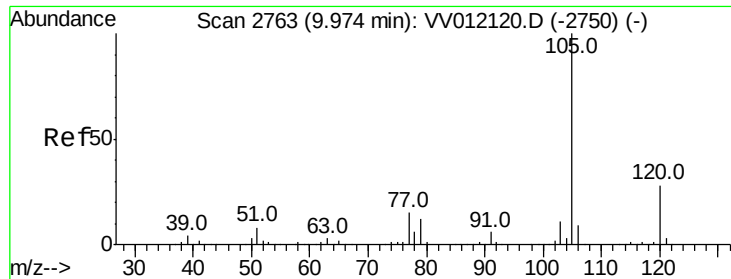
MMDadoda
 8/8/2019 11:45:33 AM



#59
 Bromoform
 Concen: 2.758 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. -0.00 min
 Lab File: VV012128.D
 Acq: 07 Aug 2019 15:22

Tgt Ion	Ratio	Lower	Upper
173	100		
175	46.2	38.3	57.5
254	3.2	8.9	13.3#





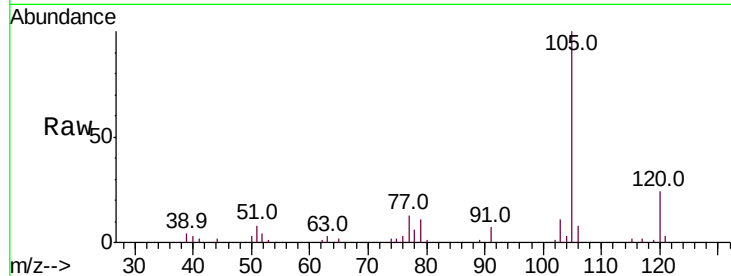
#60
Isopropylbenzene
Concen: 2.569 ug/L
RT: 9.97 min Scan# 2763
Delta R.T. -0.00 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Instrument :
MSVOA_V
ClientSampleId :
MDL05

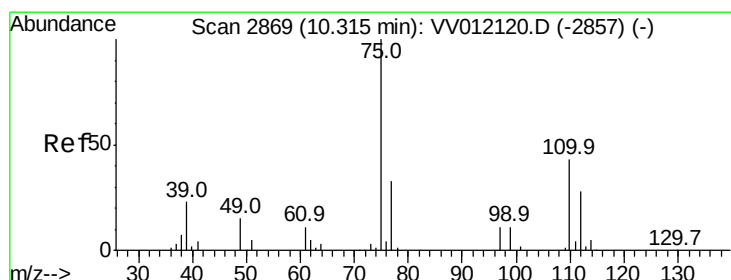
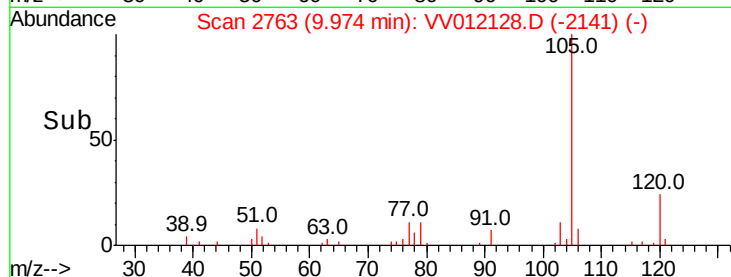
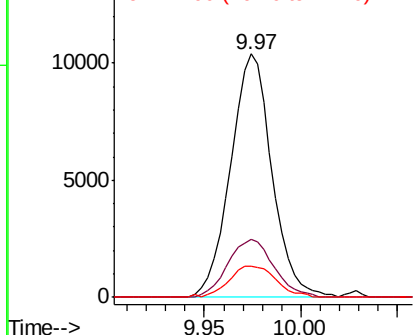
Tot Ion	Ratio	Lower	Upper
105	100		
120	26.4	21.4	32.0
77	14.4	11.6	17.4

Manual Integrations
APPROVED

MMDadoda
8/8/2019 11:45:33 AM

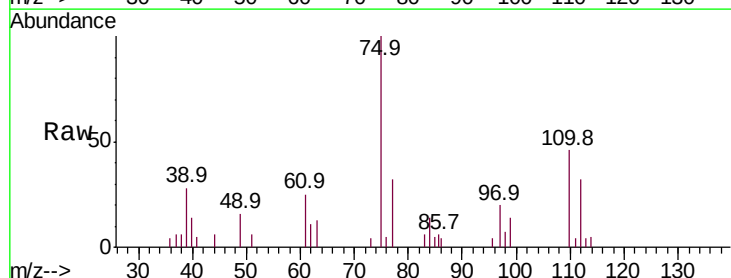


Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): V

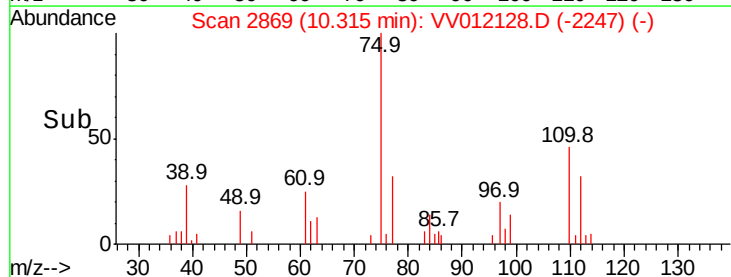
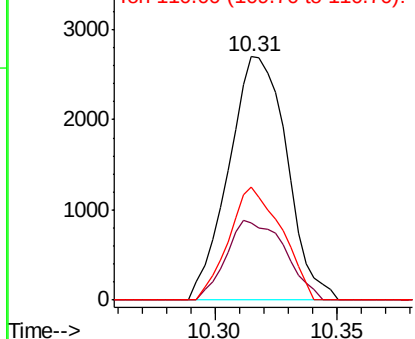


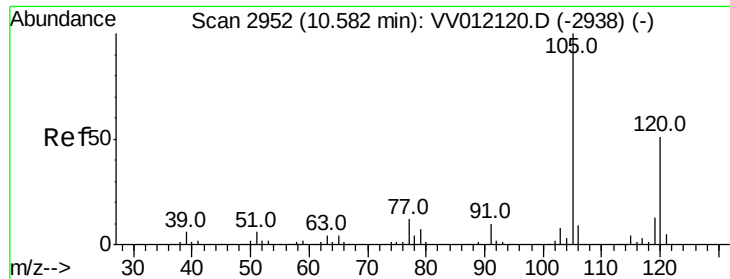
#61
1,2,3-Trichloropropane
Concen: 3.000 ug/L
RT: 10.31 min Scan# 2869
Delta R.T. -0.00 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.0	25.7	38.5
110	42.3	34.2	51.4



Abundance Ion 75.00 (74.70 to 75.70): VV0
Ion 77.00 (76.70 to 77.70): VV0
Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 2.401 ug/L

RT: 10.58 min Scan# 2952

Delta R.T. -0.00 min

Lab File: VV012128.D

Acq: 07 Aug 2019 15:22

Instrument :

MSVOA_V

ClientSampled :

MDL05

Tot Ion:105 Resp: 12465

Ion Ratio Lower Upper

105 100

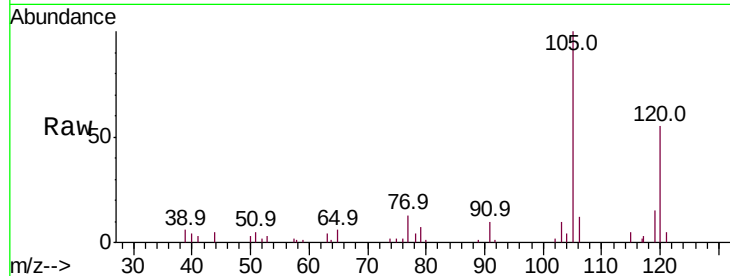
120 50.5 39.2 58.8

Manual Integrations

APPROVED

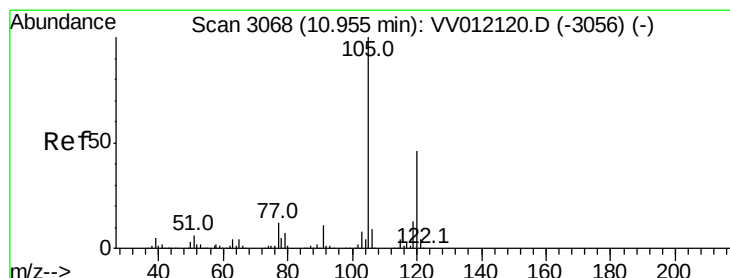
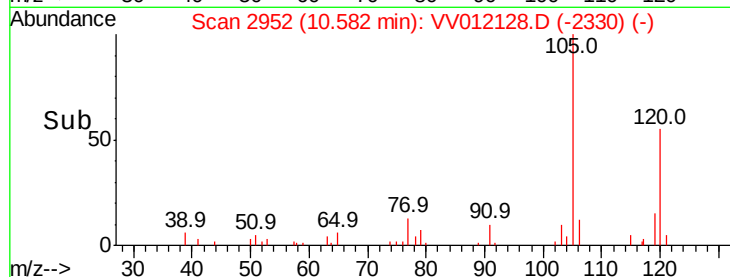
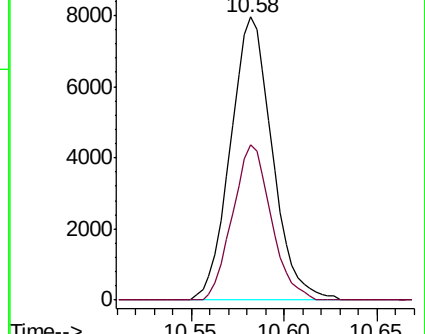
MMDadoda

8/8/2019 11:45:33 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 2.504 ug/L

RT: 10.96 min Scan# 3069

Delta R.T. 0.00 min

Lab File: VV012128.D

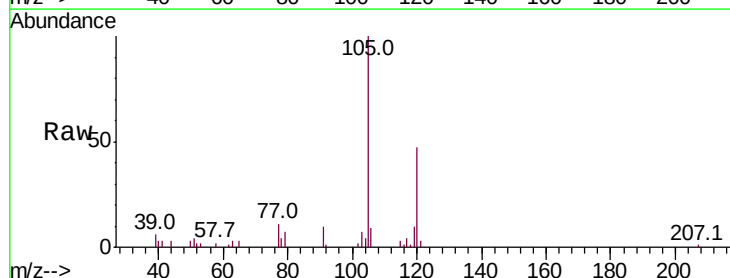
Acq: 07 Aug 2019 15:22

Tgt Ion:105 Resp: 12833

Ion Ratio Lower Upper

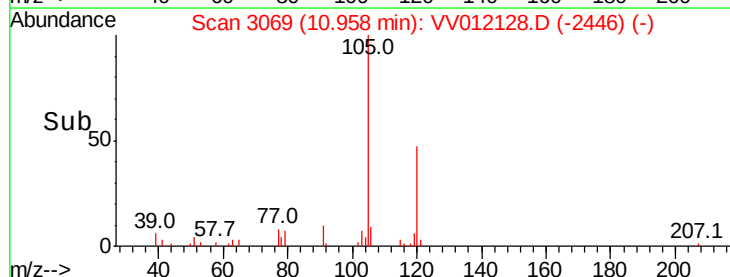
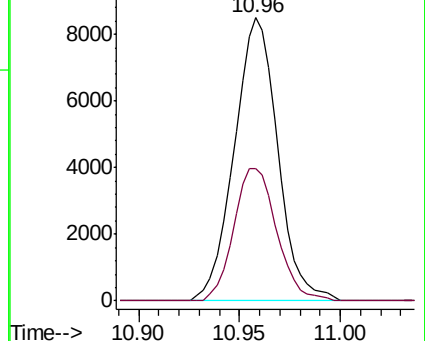
105 100

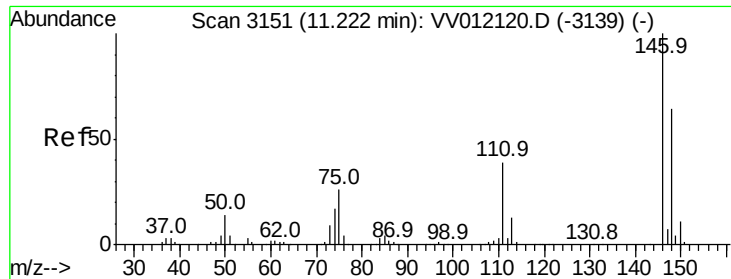
120 46.2 36.7 55.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





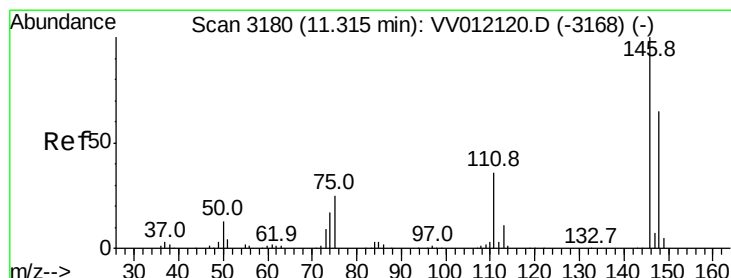
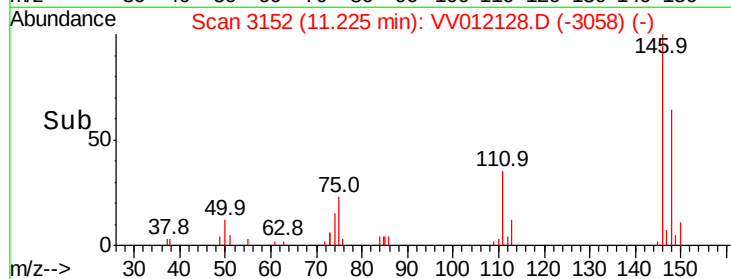
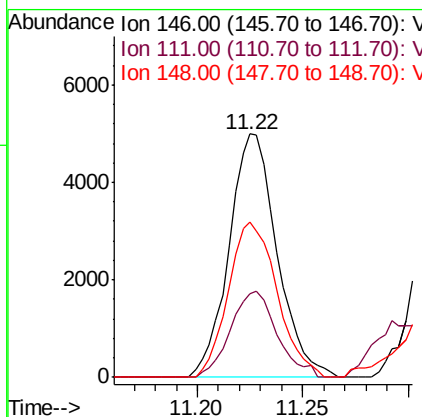
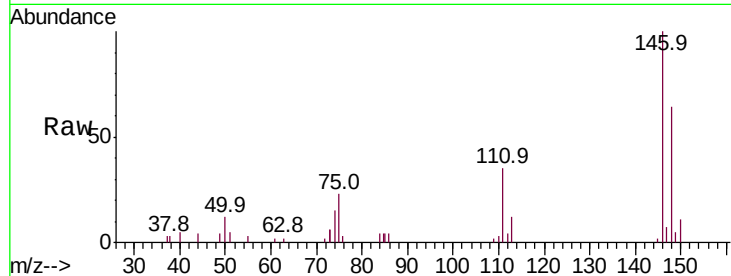
#64
 1,3-Dichlorobenzene
 Concen: 2.606 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV012128.D
 Acq: 07 Aug 2019 15:22

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.5	26.8	49.8
148	63.6	44.6	82.8

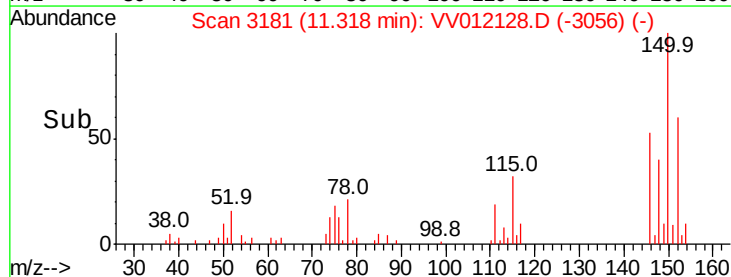
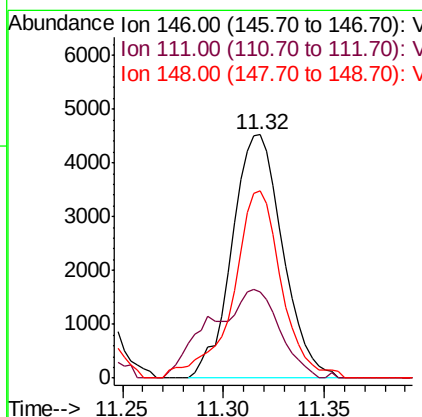
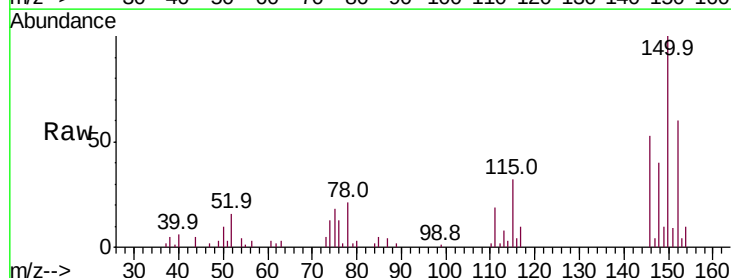
Manual Integrations
 APPROVED

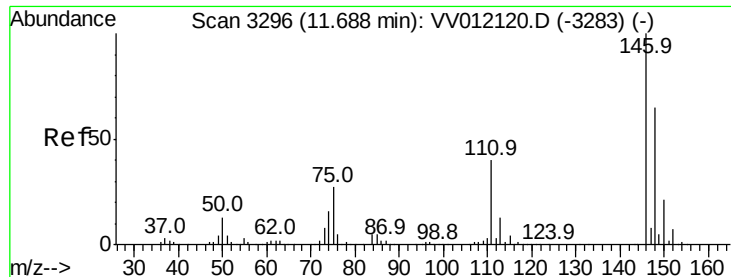
MMDadoda
 8/8/2019 11:45:33 AM



#65
 1,4-Dichlorobenzene
 Concen: 2.594 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV012128.D
 Acq: 07 Aug 2019 15:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.4	25.8	47.8
148	76.9	45.2	84.0





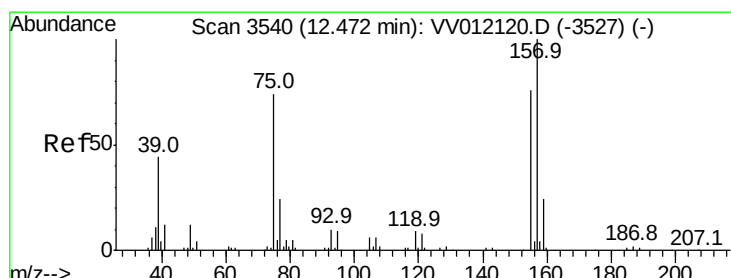
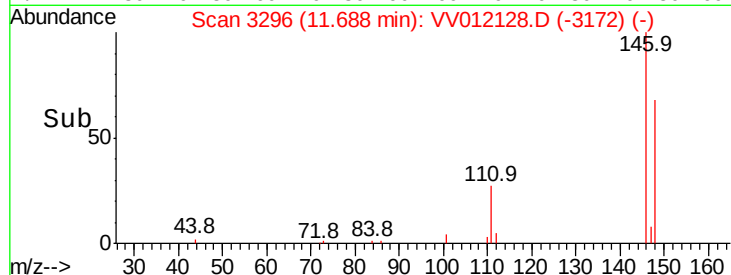
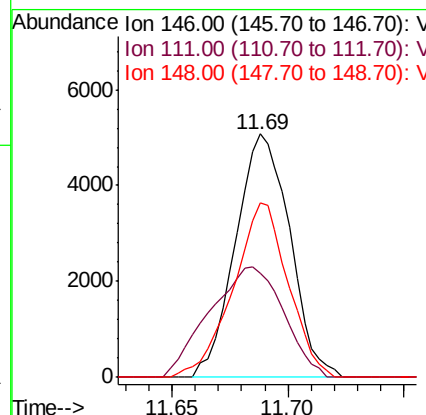
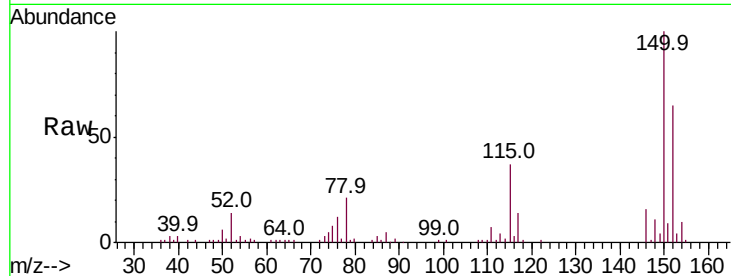
#67
 1,2-Dichlorobenzene
 Concen: 2.663 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV012128.D
 Acq: 07 Aug 2019 15:22

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.8	32.2	48.2
148	71.9	53.2	79.8

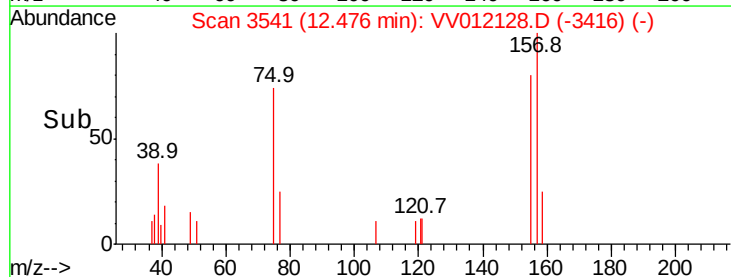
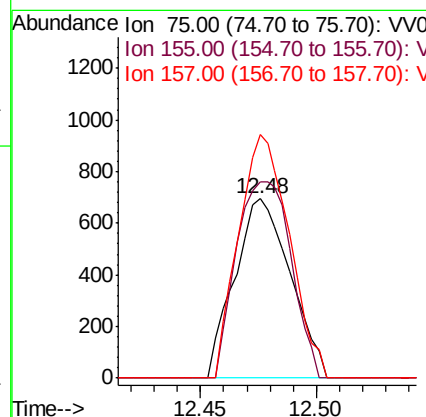
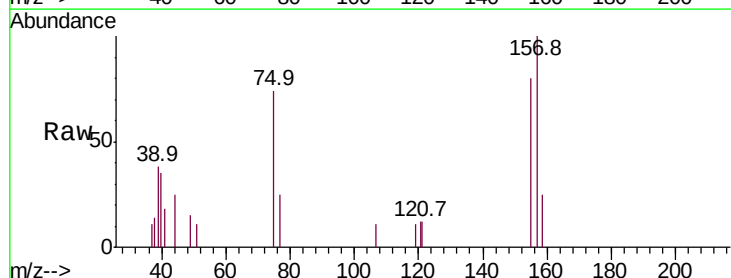
Manual Integrations
 APPROVED

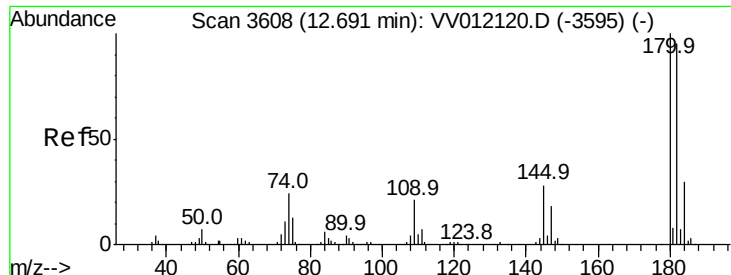
MMDadoda
 8/8/2019 11:45:33 AM



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.366 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV012128.D
 Acq: 07 Aug 2019 15:22

Tgt Ion	Ratio	Lower	Upper
75	100		
155	109.4	81.2	121.8
157	135.9	102.3	153.5





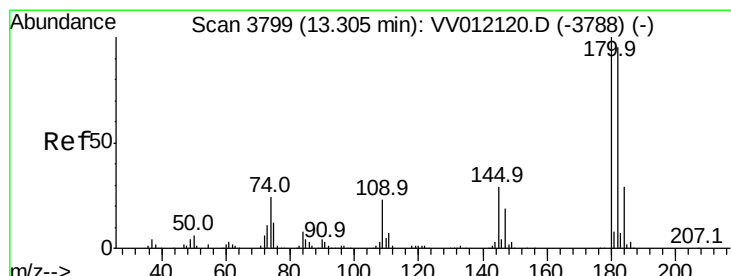
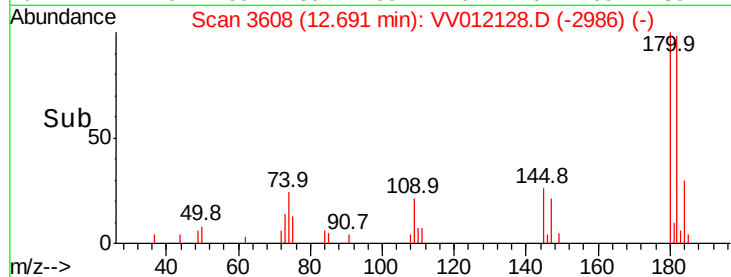
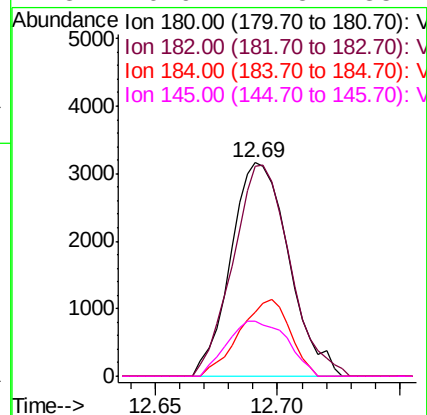
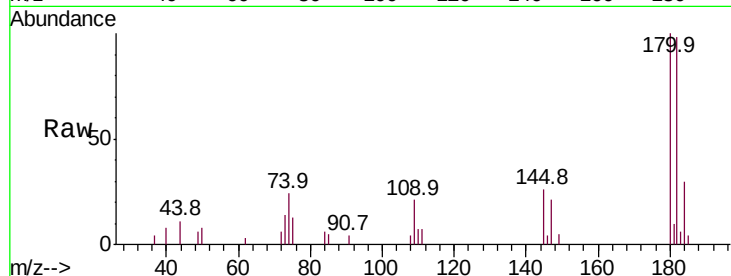
#69
 1,3,5-Trichlorobenzene
 Concen: 2.120 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV012128.D
 Acq: 07 Aug 2019 15:22

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion:	180	Resp:	5208
Ion	Ratio	Lower	Upper
180	100		
182	97.1	76.5	114.7
184	31.2	24.6	36.8
145	26.9	22.5	33.7

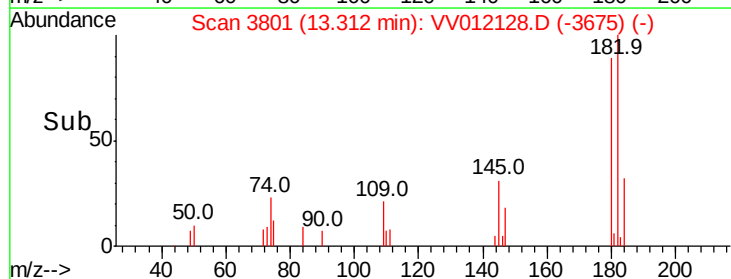
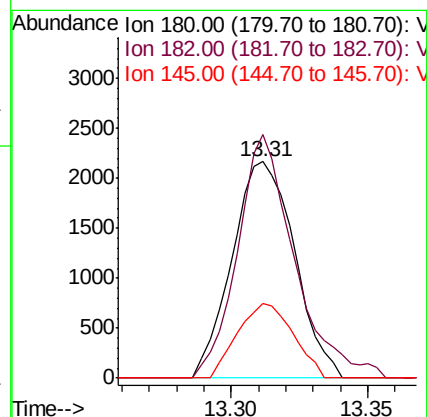
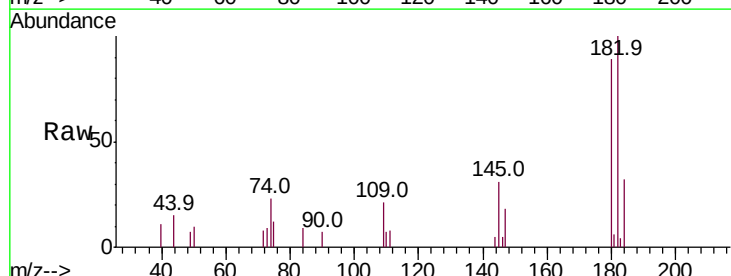
Manual Integrations
 APPROVED

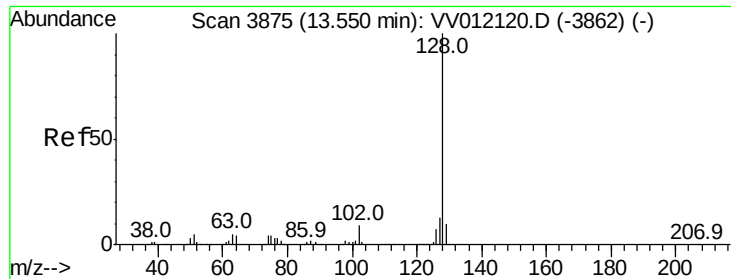
MMDadoda
 8/8/2019 11:45:33 AM



#70
 1,2,4-trichlorobenzene
 Concen: 1.621 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.01 min
 Lab File: VV012128.D
 Acq: 07 Aug 2019 15:22

Tgt Ion:	180	Resp:	3452
Ion	Ratio	Lower	Upper
180	100		
182	101.0	76.5	114.7
145	30.5	23.3	34.9





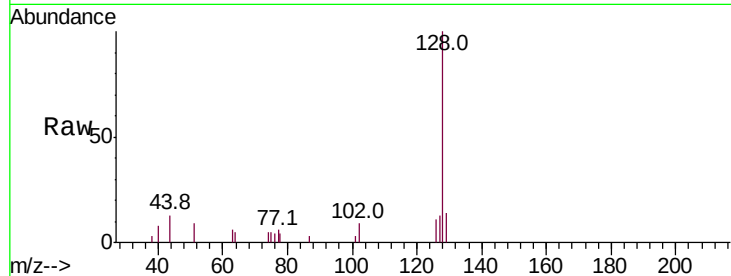
#71
Naphthalene
Concen: 1.322 ug/L
RT: 13.56 min Scan# 3877
Delta R.T. 0.01 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Instrument :
MSVOA_V
ClientSampleId :
MDL05

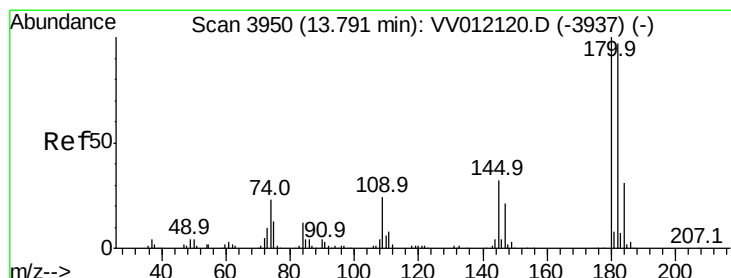
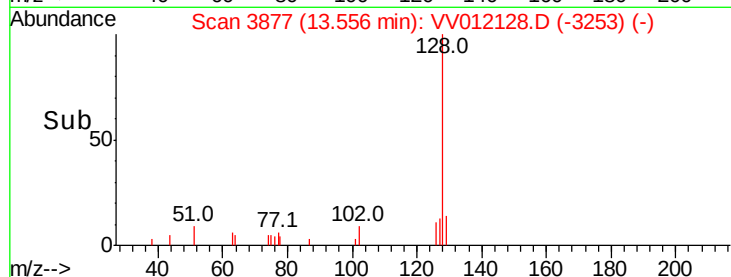
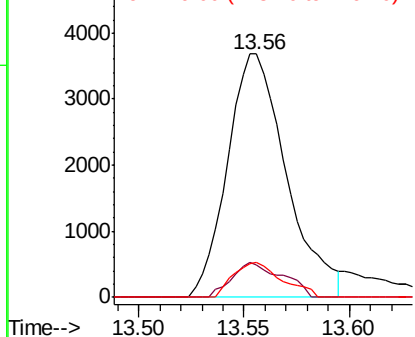
Tot Ion:128	Resp:	7138
Ion Ratio	Lower	Upper
128 100		
127 12.2	10.6	15.8
129 11.9	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
8/8/2019 11:45:33 AM

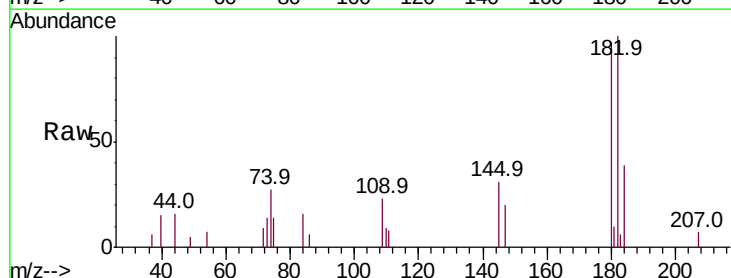


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#72
1,2,3-Trichlorobenzene
Concen: 1.641 ug/L
RT: 13.79 min Scan# 3951
Delta R.T. 0.00 min
Lab File: VV012128.D
Acq: 07 Aug 2019 15:22

Tgt Ion:180	Resp:	3518
Ion Ratio	Lower	Upper
180 100		
182 100.5	77.2	115.8
145 30.4	24.6	36.8



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

