

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033460.D
 Acq On : 26 Mar 2019 6:47
 Operator : SY/AP
 Sample : K1991-12
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:23:16 AM

Quant Time: Mar 31 10:55:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 05:43:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	636118	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1458069	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1463374	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1150384	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	28664	0.309	ppbv	97
3) Chlorodifluoromethane	3.01	51	19851m	0.271	ppbv	
4) Chloromethane	3.16	50	23330	0.602	ppbv	91
9) Propene	3.05	41	16485m	0.536	ppbv	
11) Trichlorofluoromethane	4.00	101	28466	0.249	ppbv	96
13) Ethanol	3.66	45	70212	8.822	ppbv	67
15) Acetone	3.90	43	169587	2.217	ppbv	96
20) Methylene Chloride	4.41	84	53716	1.654	ppbv	93
26) Hexane	5.78	57	51183	0.811	ppbv #	79
27) Carbon Disulfide	4.62	76	19615	0.261	ppbv #	86
34) 2-Butanone	5.34	43	21534	0.246	ppbv	100
35) Carbon Tetrachloride	7.12	117	8419m	0.082	ppbv	
36) Benzene	7.01	78	13257m	0.108	ppbv	
53) Toluene	9.94	91	340131	2.392	ppbv	99

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

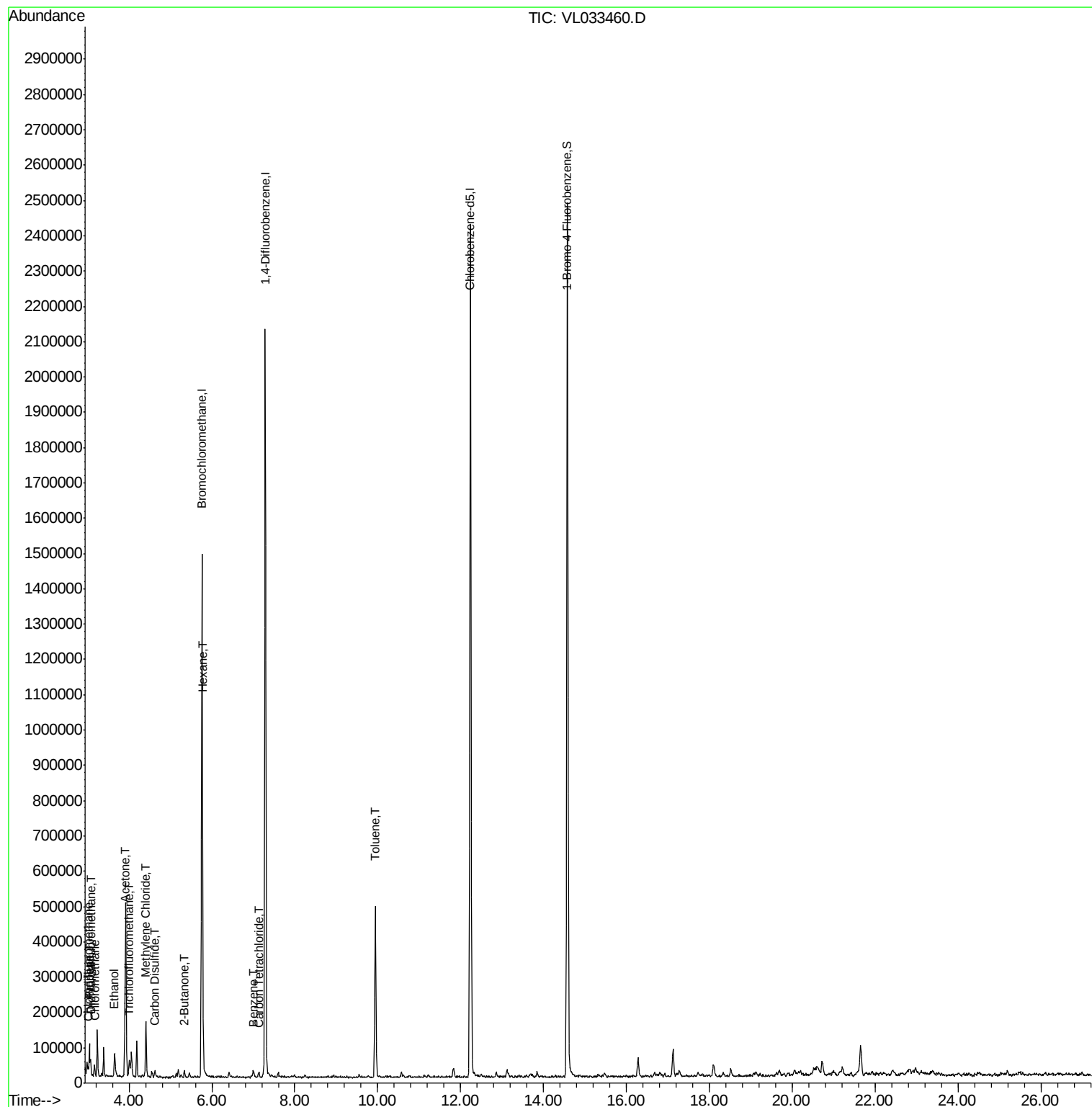
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
Data File : VL033460.D
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OA-1

Manual Integrations
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Quant Time: Mar 31 10:55:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 26 05:43:39 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033460.D

Acq: 26 Mar 2019 6:47

Instrument :

MSVOA_L

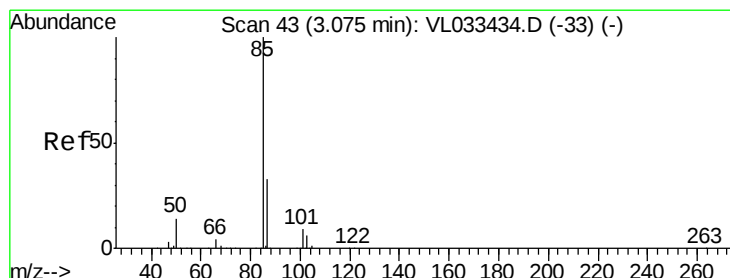
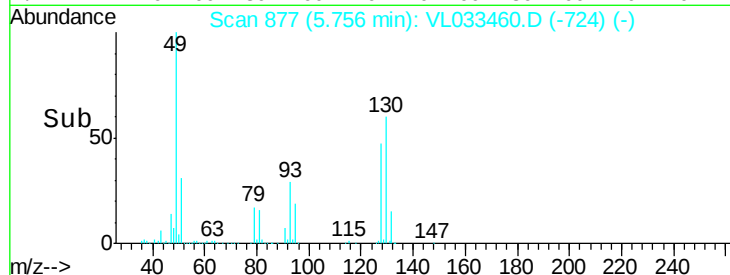
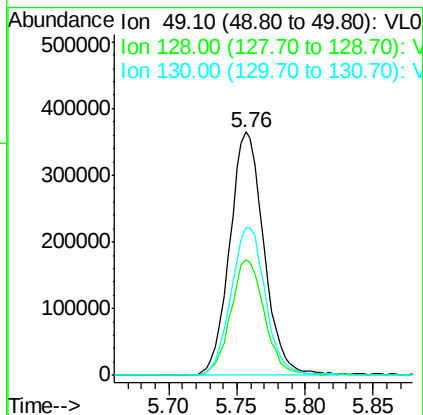
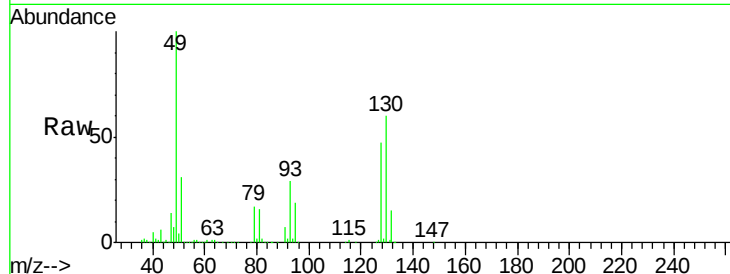
ClientSampleId :

QA-1

Tot Ion:	49	Resp:	636118
Ion	Ratio	Lower	Upper
49	100		
128	46.9	24.0	72.0
130	61.9	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.309 ppbv

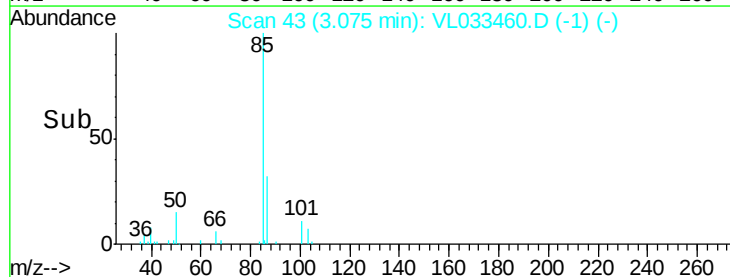
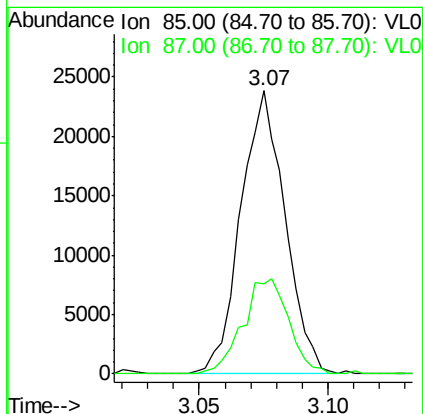
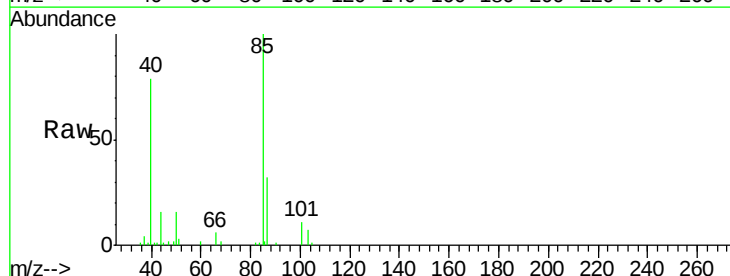
RT: 3.07 min Scan# 43

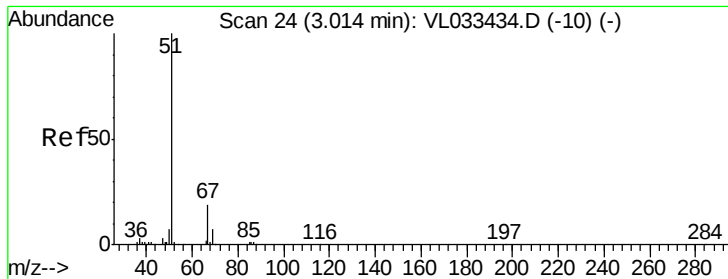
Delta R.T. -0.00 min

Lab File: VL033460.D

Acq: 26 Mar 2019 6:47

Tgt Ion:	85	Resp:	28664
Ion	Ratio	Lower	Upper
85	100		
87	31.8	26.7	40.1





#3

Chlorodifluoromethane

Concen: 0.271 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033460.D

Acq: 26 Mar 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

QA-1

Tot Ion: 51 Resp: 19851

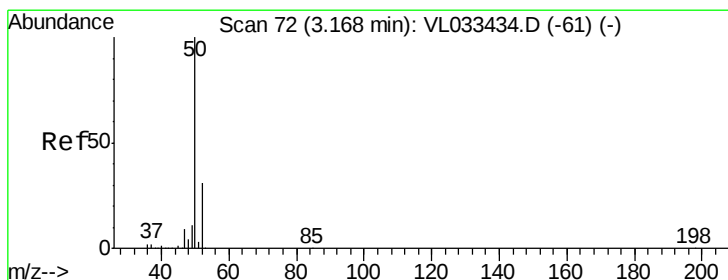
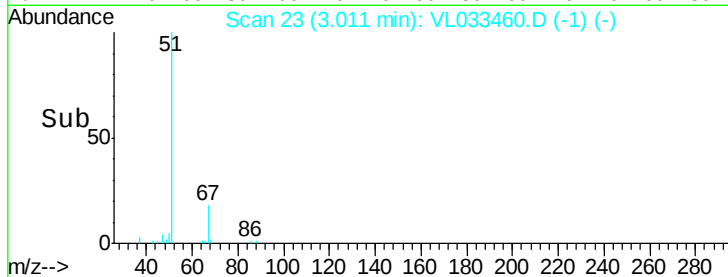
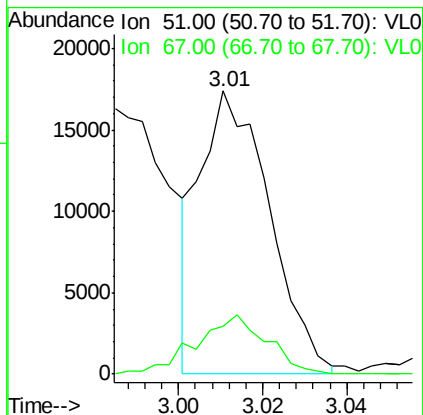
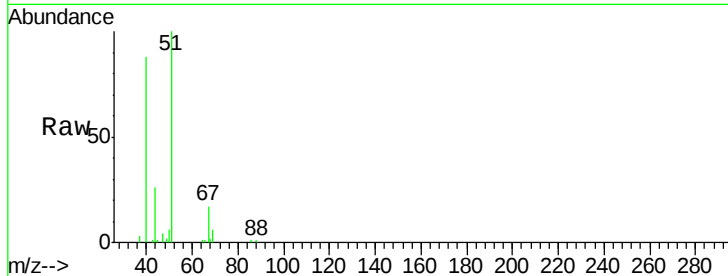
Ion Ratio Lower Upper

51 100

67 21.4 15.7 23.5

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#4

Chloromethane

Concen: 0.602 ppbv

RT: 3.16 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033460.D

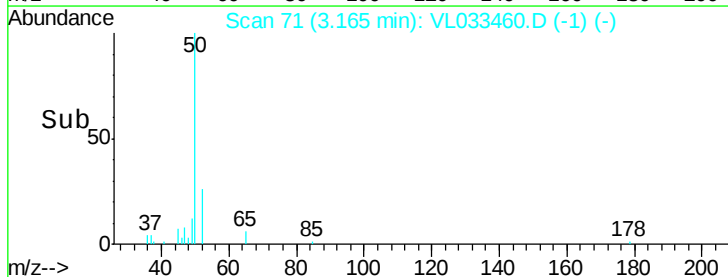
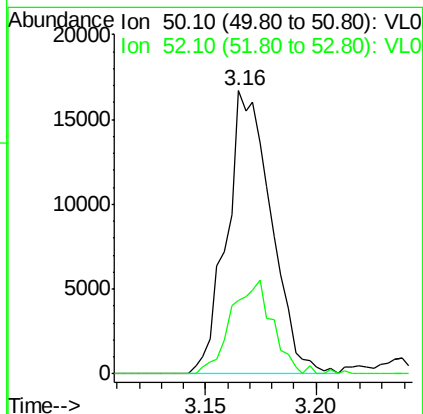
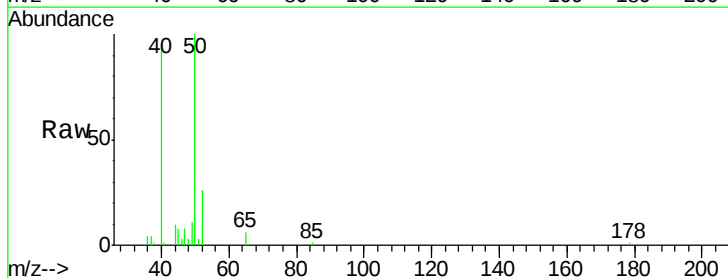
Acq: 26 Mar 2019 6:47

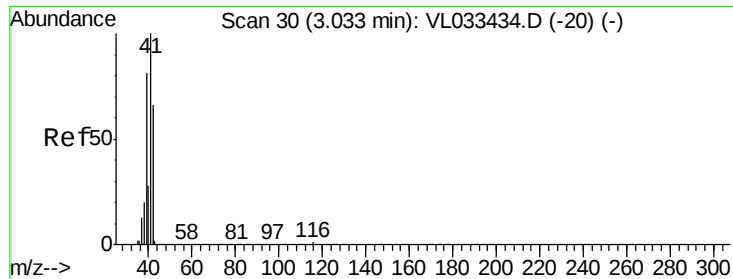
Tgt Ion: 50 Resp: 23330

Ion Ratio Lower Upper

50 100

52 26.1 25.0 37.6





#9

Propene

Concen: 0.536 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033460.D

Acq: 26 Mar 2019 6:47

Instrument :

MSVOA_L

ClientSampled :

QA-1

Tot Ion: 41 Resp: 16485

Ion Ratio Lower Upper

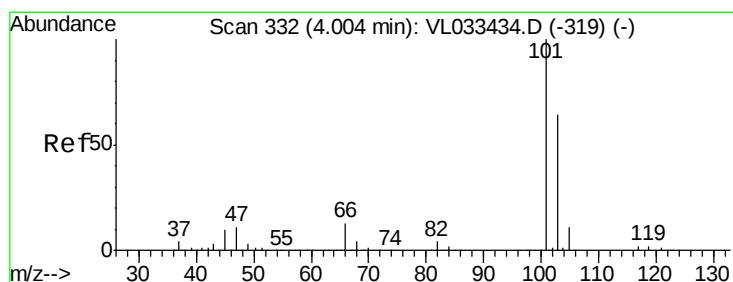
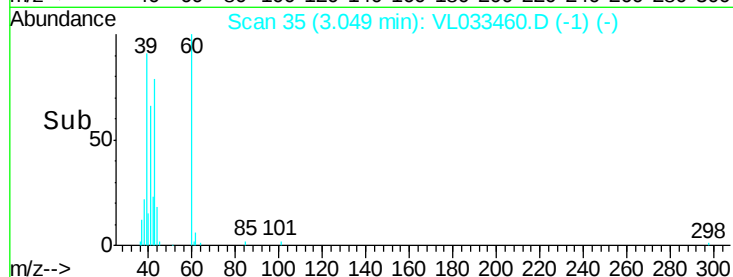
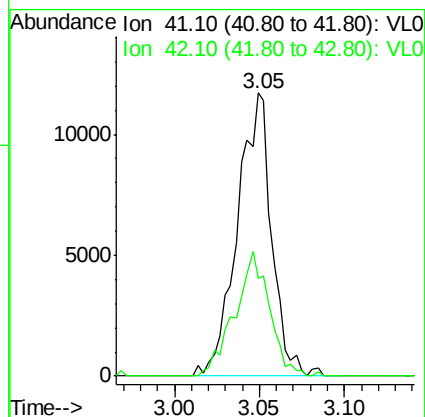
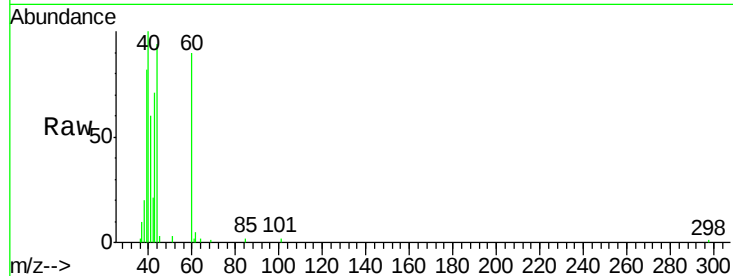
41 100

42 136.6 53.9 80.9#

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#11

Trichlorofluoromethane

Concen: 0.249 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033460.D

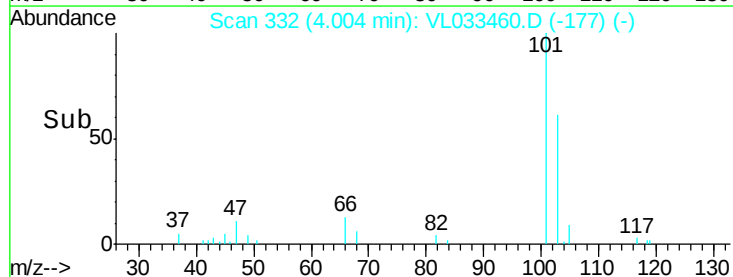
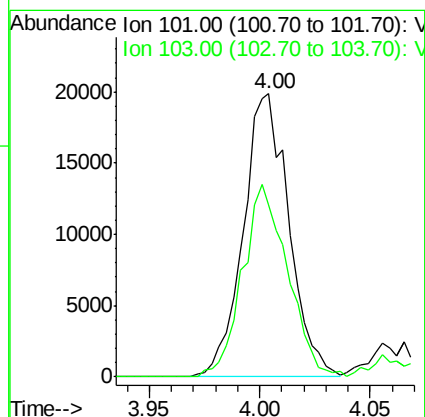
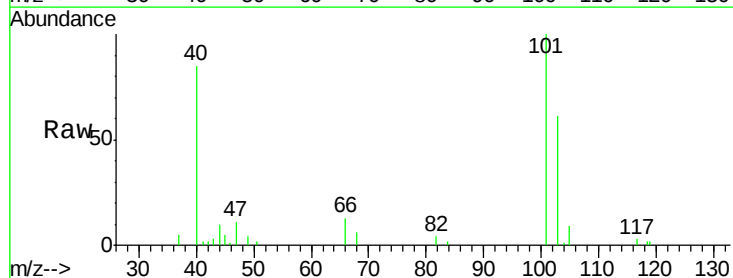
Acq: 26 Mar 2019 6:47

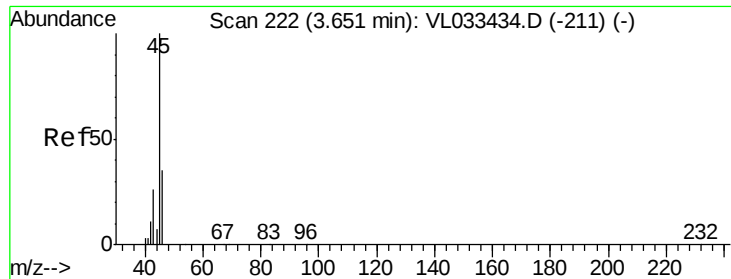
Tgt Ion: 101 Resp: 28466

Ion Ratio Lower Upper

101 100

103 60.8 51.3 76.9





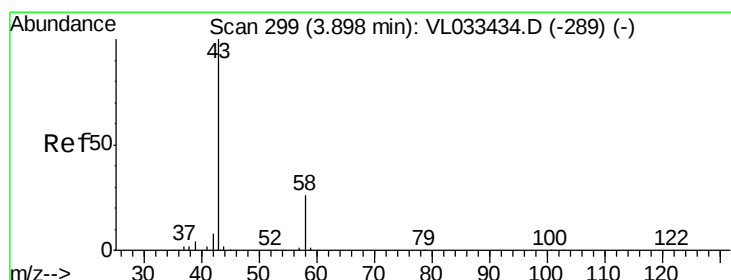
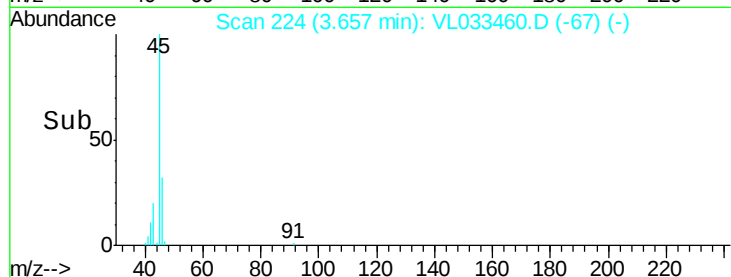
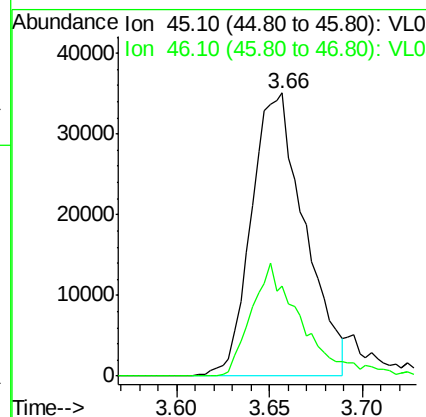
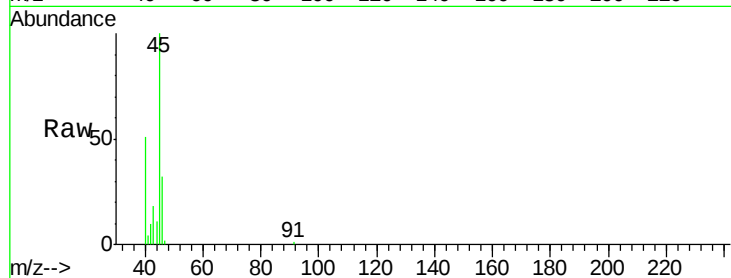
#13
Ethanol
Concen: 8.822 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.01 min
Lab File: VL033460.D
Acq: 26 Mar 2019 6:47

Instrument :
MSVOA_L
ClientSampleId :
OA-1

Tot Ion: 45 Resp: 70212
Ion Ratio Lower Upper
45 100
46 38.1 25.4 101.8

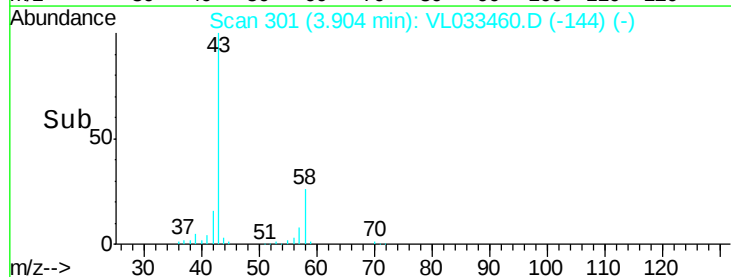
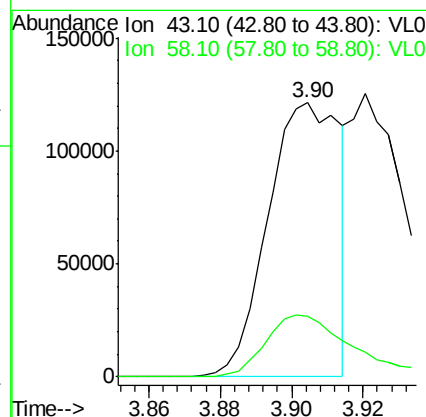
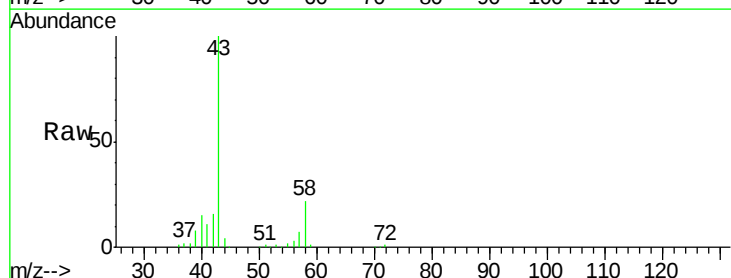
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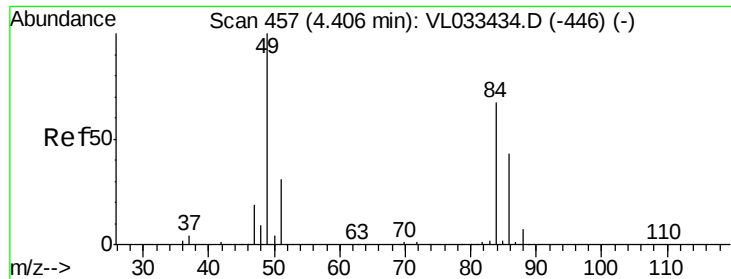
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#15
Acetone
Concen: 2.217 ppbv
RT: 3.90 min Scan# 301
Delta R.T. 0.01 min
Lab File: VL033460.D
Acq: 26 Mar 2019 6:47

Tgt Ion: 43 Resp: 169587
Ion Ratio Lower Upper
43 100
58 27.5 20.5 30.7





#20

Methvlene Chloride

Concen: 1.654 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033460.D

Acq: 26 Mar 2019 6:47

Instrument :

MSVOA_L

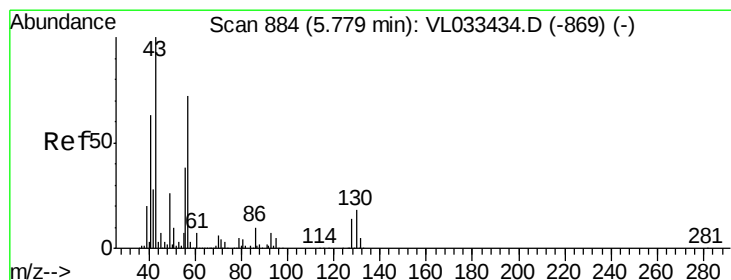
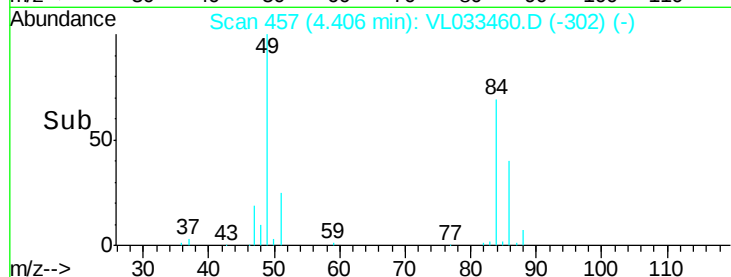
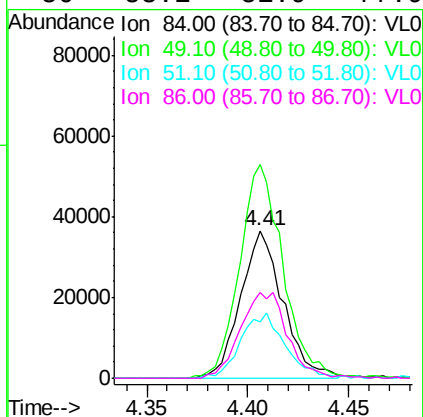
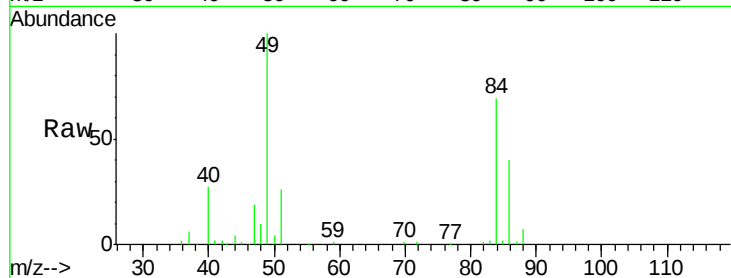
ClientSampleId :

QA-1

Tot Ion:	84	Resp:	53716
Ion	Ratio	Lower	Upper
84	100		
49	144.5	120.0	180.0
51	38.0	36.7	55.1
86	58.1	51.9	77.9

Manual Integrations
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#26

Hexane

Concen: 0.811 ppbv

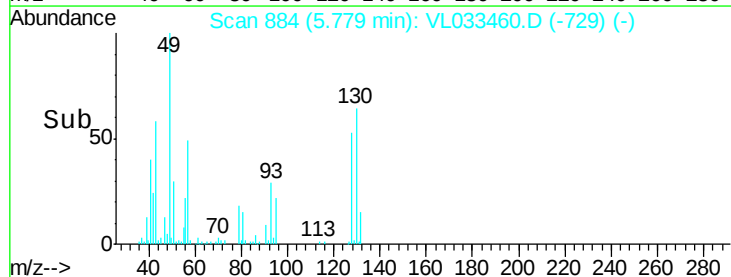
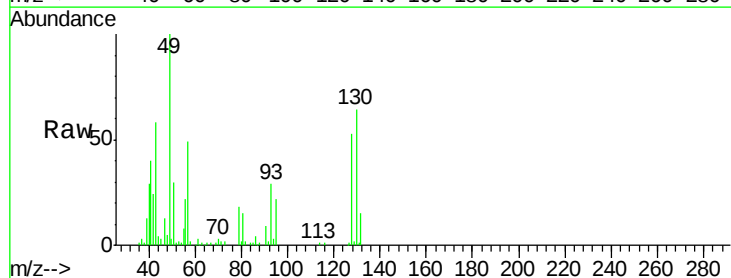
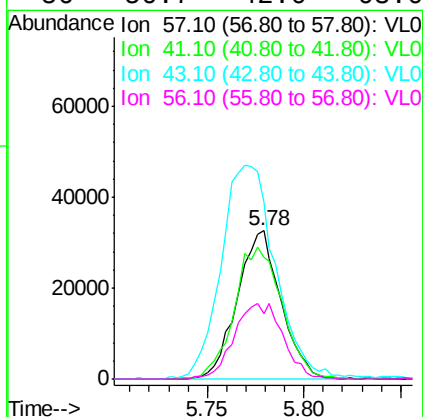
RT: 5.78 min Scan# 884

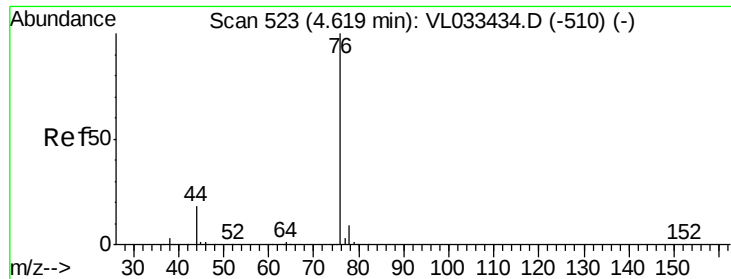
Delta R.T. -0.00 min

Lab File: VL033460.D

Acq: 26 Mar 2019 6:47

Tgt Ion:	57	Resp:	51183
Ion	Ratio	Lower	Upper
57	100		
41	97.7	70.7	106.1
43	182.2	182.6	274.0#
56	56.7	42.0	63.0





#27

Carbon Disulfide

Concen: 0.261 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033460.D

Acq: 26 Mar 2019 6:47

Instrument :

MSVOA_L

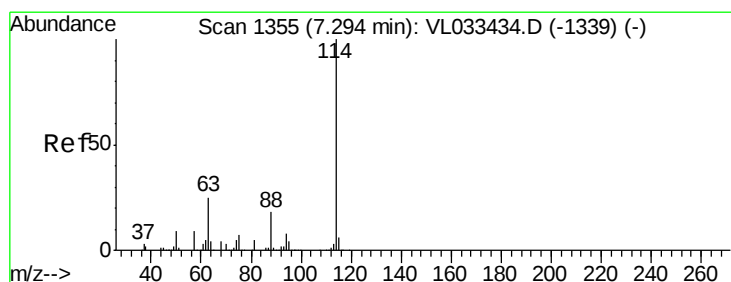
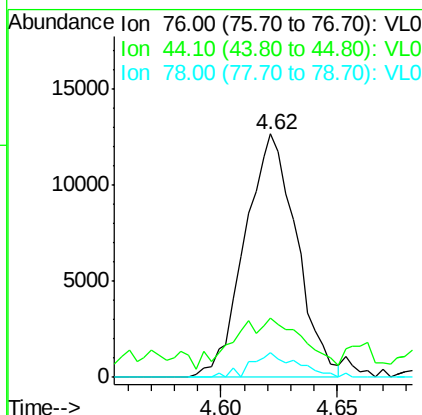
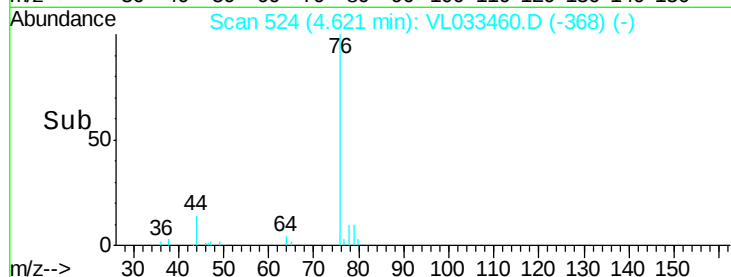
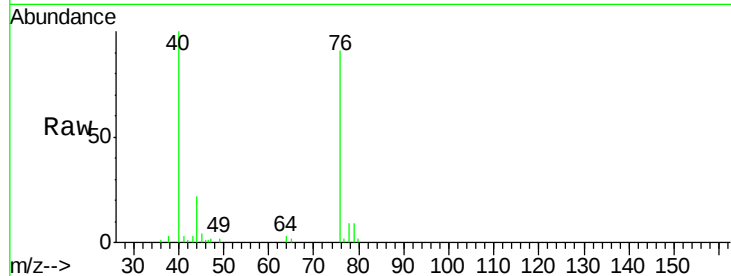
ClientSampleId :

QA-1

Tot Ion	Ratio	Lower	Upper
76	100		
44	27.6	14.8	22.2#
78	9.3	7.6	11.4

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

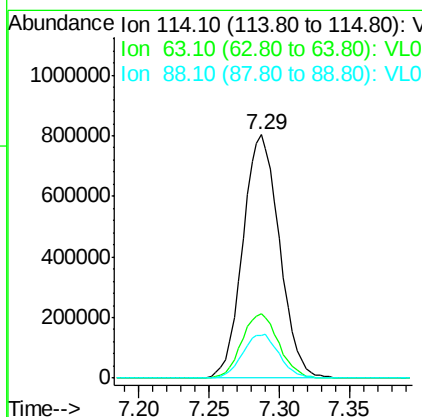
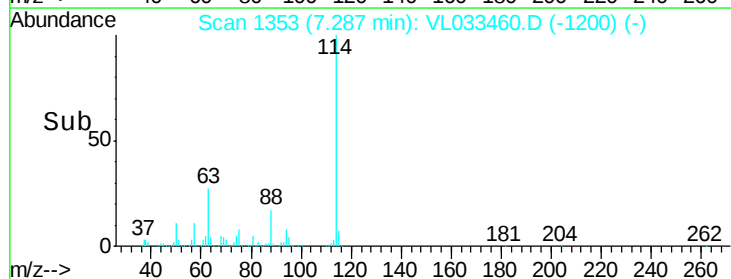
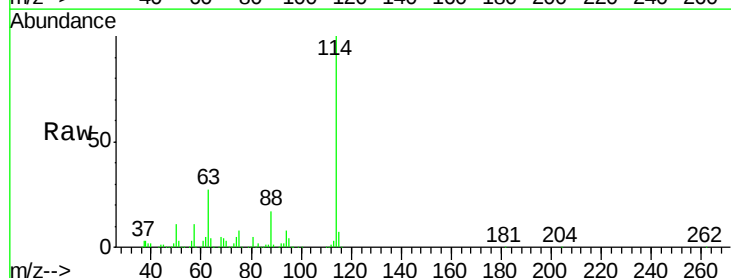
RT: 7.29 min Scan# 1353

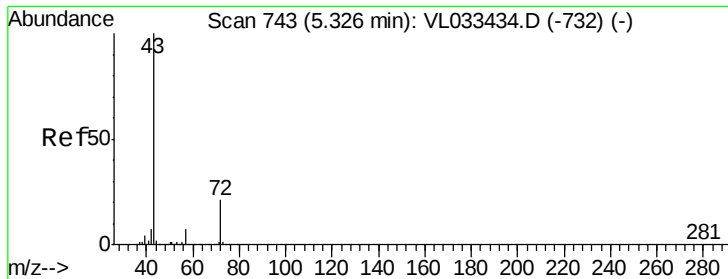
Delta R.T. -0.01 min

Lab File: VL033460.D

Acq: 26 Mar 2019 6:47

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.5	32.3
88	18.1	14.5	21.7





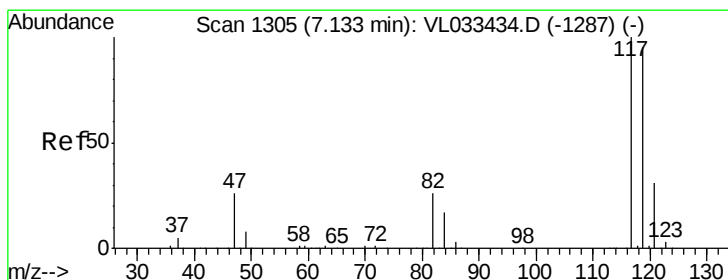
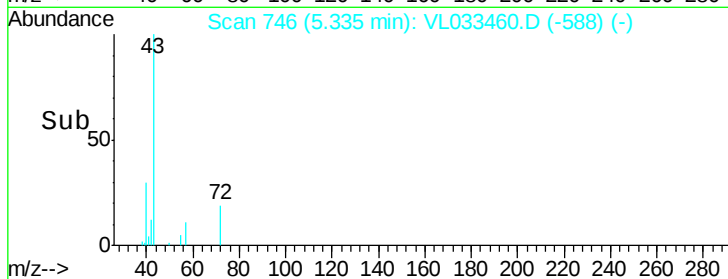
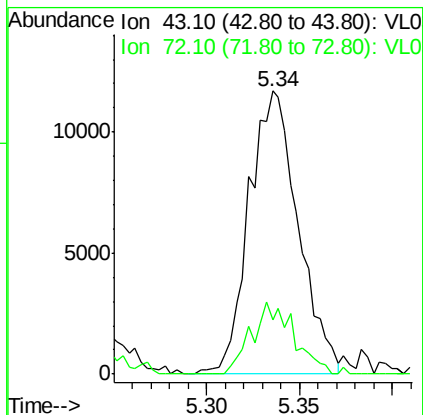
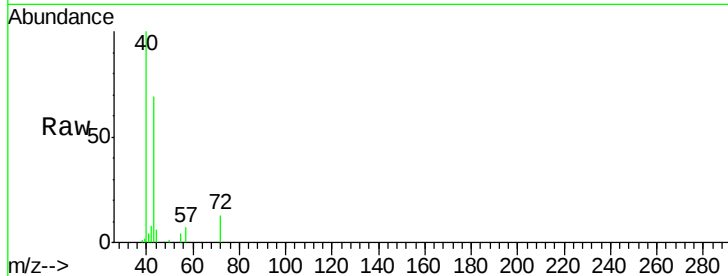
#34
2-Butanone
Concen: 0.246 ppbv
RT: 5.34 min Scan# 746
Delta R.T. 0.01 min
Lab File: VL033460.D
Acq: 26 Mar 2019 6:47

Instrument :
MSVOA_L
ClientSampled :
OA-1

Tot Ion: 43 Resp: 21534
Ion Ratio Lower Upper
43 100
72 22.0 17.4 26.2

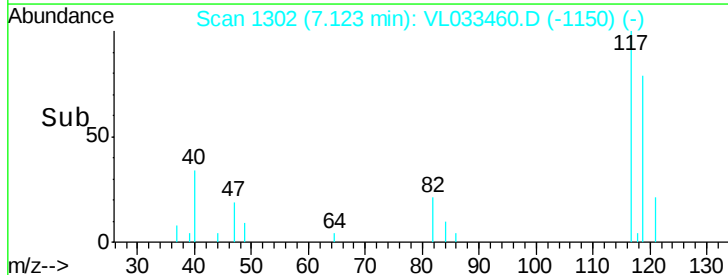
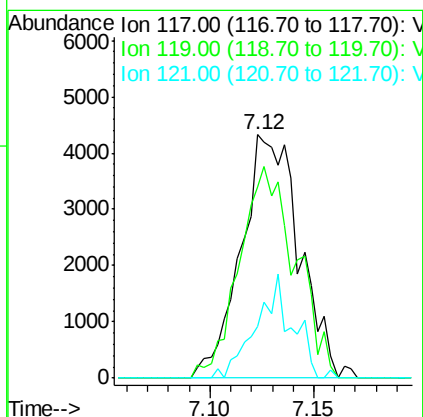
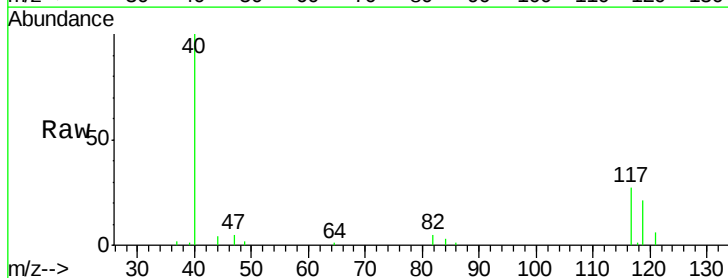
Manual Integrations
APPROVED

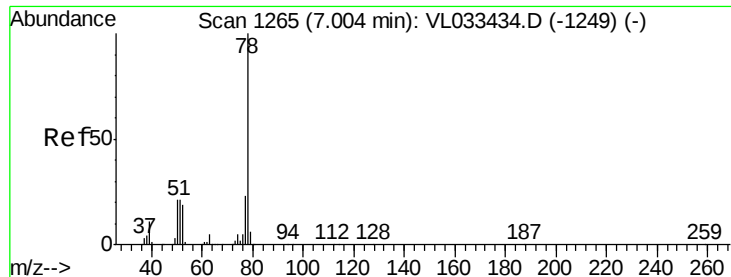
MMDadoda
4/1/2019 1:23:16 AM



#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 7.12 min Scan# 1302
Delta R.T. -0.01 min
Lab File: VL033460.D
Acq: 26 Mar 2019 6:47

Tgt Ion: 117 Resp: 8419
Ion Ratio Lower Upper
117 100
119 78.7 75.8 113.8
121 21.0 24.7 37.1#





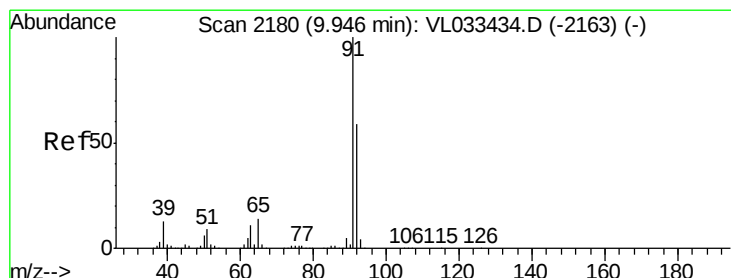
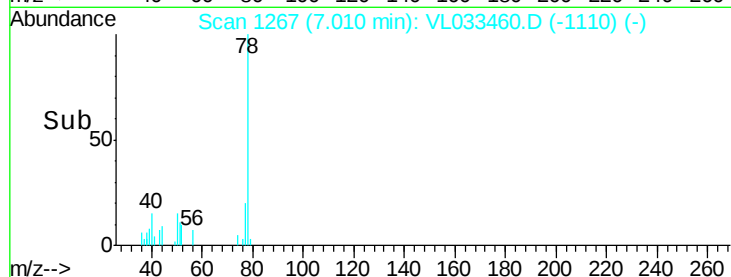
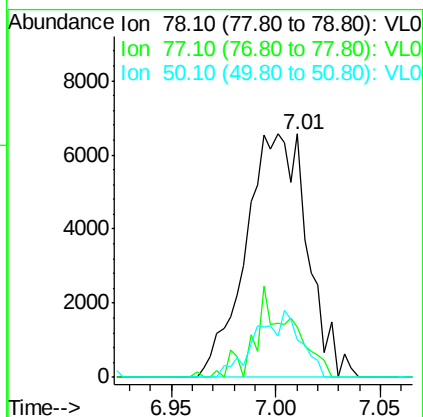
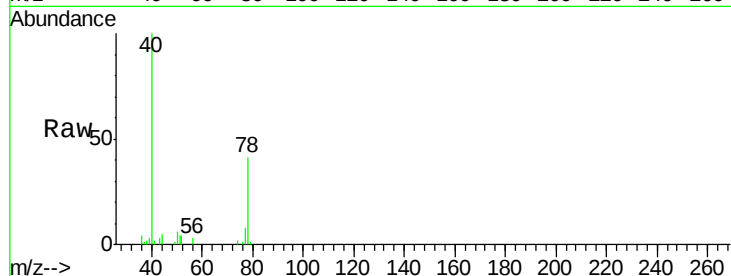
#36
Benzene
Concen: 0.108 ppbv m
RT: 7.01 min Scan# 1267
Delta R.T. 0.01 min
Lab File: VL033460.D
Acq: 26 Mar 2019 6:47

Instrument :
MSVOA_L
ClientSampleId :
OA-1

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.5	18.1	27.1
50	15.2	16.7	25.1#

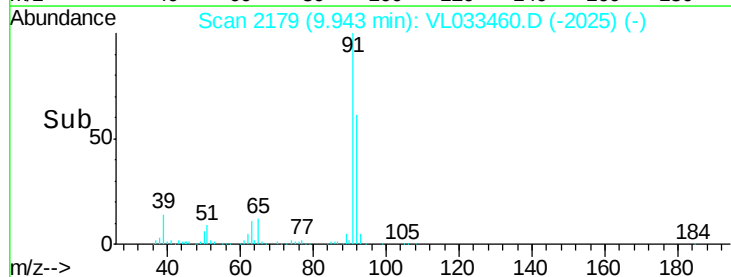
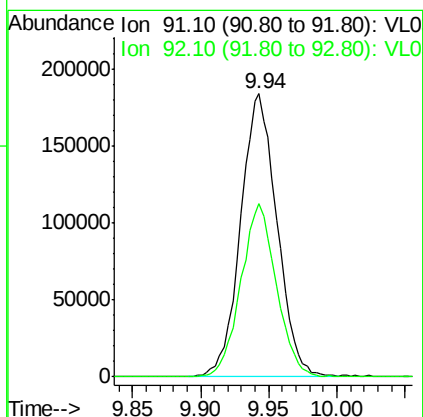
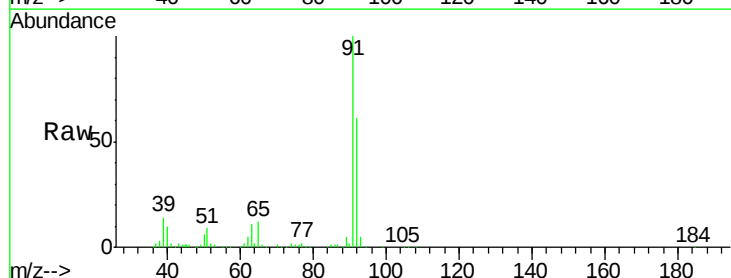
Manual Integrations
APPROVED

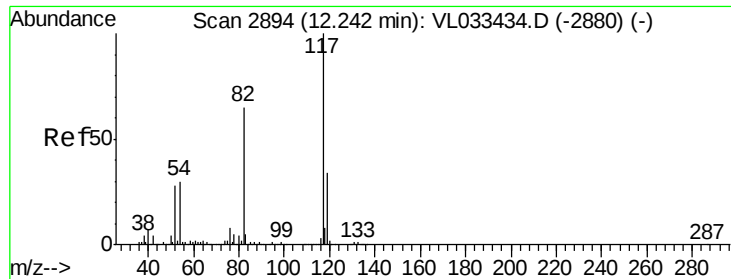
MMDadoda
4/1/2019 1:23:16 AM



#53
Toluene
Concen: 2.392 ppbv
RT: 9.94 min Scan# 2179
Delta R.T. -0.00 min
Lab File: VL033460.D
Acq: 26 Mar 2019 6:47

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.9	47.4	71.0





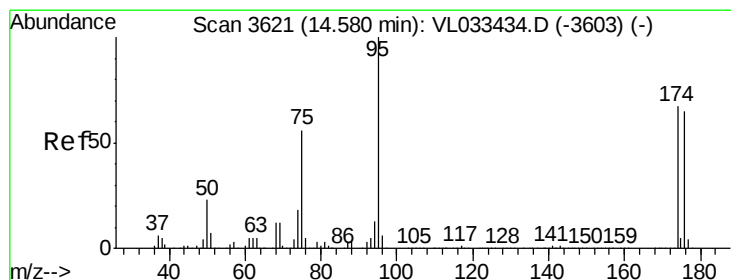
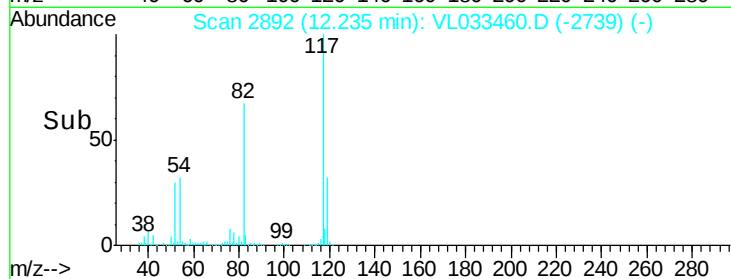
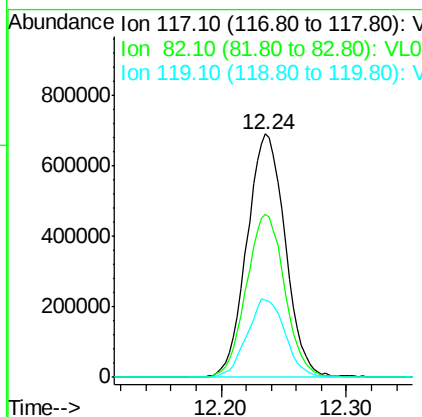
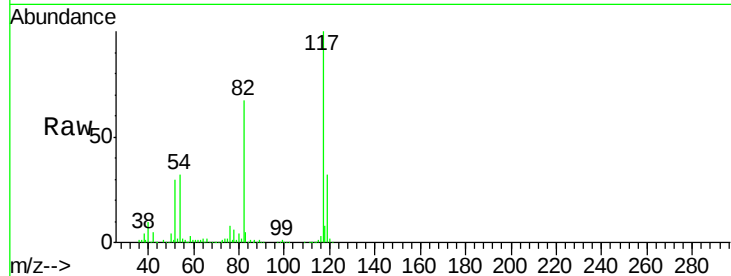
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033460.D
Acq: 26 Mar 2019 6:47

Instrument :
MSVOA_L
ClientSampleId :
OA-1

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.3	51.5	77.3
119	32.3	25.5	38.3

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:23:16 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.027 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033460.D
Acq: 26 Mar 2019 6:47

Tgt Ion	Ratio	Lower	Upper
95	100		
174	65.2	52.9	79.3
175	4.7	3.8	5.6

